



**ETDE/INIS Joint Reference Series No. 1 (Rev. 2)**

# **JOINT THESAURUS**

INTERNATIONAL ATOMIC ENERGY AGENCY  
VIENNA, APRIL 2007

**NOTE**

**This edition replaces the previous version (Rev. 1) of this publication.**

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## FOREWORD

This is the second revision of the ETDE/INIS Joint Thesaurus, including all updates up to September 2006. It contains 21 147 valid descriptors and 9 114 forbidden terms.

The Joint Thesaurus contains the controlled terminology for indexing all information within the subject scopes of the International Nuclear Information System (INIS) and the Energy Technology Data Exchange (ETDE). The terminology is intended for use in subject descriptions for input or retrieval of information in these systems.

The basic terminology in this thesaurus goes back to the 1969 edition of the EURATOM Thesaurus. The structure subsequently given to that terminology was the result of a systematic study performed by INIS subject specialists. Further expansion of the thesaurus terminology was done by ETDE to incorporate information on all forms of energy.

The ETDE/INIS Joint Thesaurus is the result of continued editing, carried out in parallel to the processing of the INIS and ETDE databases. Any suggestions for improvements to the present document are welcome. Comments should be sent to either the INIS or the ETDE Thesaurus Specialist at the following contact addresses:

Thesaurus Specialist  
INIS and Nuclear Knowledge Management Section  
Department of Nuclear Energy  
International Atomic Energy Agency  
P.O. Box 100  
A-1400 Vienna, Austria  
Fax: +43 1 2600 29882  
Email: [inis@iaea.org](mailto:inis@iaea.org)

ETDE Thesaurus Specialist  
ETDE Operating Agent  
DOE/Office of Scientific and Technical Information  
P.O. Box 1000  
Oak Ridge, TN 37831  
USA  
Email: [info@etde.org](mailto:info@etde.org)

## **AVAILABILITY TO ETDE USERS**

### ***About ETDE***

The Energy Technology Data Exchange (ETDE) is a consortium of countries that share energy science and technology information through ETDE's Energy Database and ETDE World Energy Base (ETDEWEB). ETDE was established as an Implementing Agreement in 1987 under the auspices of the International Energy Agency (IEA); it collaborates with other IEA entities as appropriate. A current list of ETDE member countries may be found at <http://www.etde.org/organization.html>. ETDEWEB is accessible to persons in ETDE member countries and approved developing countries at <http://www.etde.org/etdeweb/>.

ETDE's focus is to cover subjects of interest to the IEA and ETDE's international audience of database users. The information covered includes such important topics as environmental aspects of energy production, consumption, and use; energy efficiency and conservation; energy policy; renewable energy sources; end-use technology; fusion, fossil, and nuclear energy; and advanced energy systems. Coverage also includes the basic sciences that support energy R&D, such as aspects of chemistry, engineering, environmental sciences (with emphasis on global climate change), physics, biomedical sciences, materials science, computer science, mathematics, and instrumentation related to energy technology.

Printed copies of the Joint Thesaurus are available only from the INIS sources listed on the following page. ETDE will no longer provide printed copies, but users may contact the ETDE Operating Agent if assistance or advice is needed.

ETDE Operating Agent  
DOE/Office of Scientific and Technical Information  
P.O. Box 1000  
Oak Ridge, Tennessee 37831  
USA  
Telefax: 1 865 576 2865  
Email: [info@etde.org](mailto:info@etde.org)

An electronic version of the thesaurus in PDF format is available for downloading from the ETDE web site at:

<http://www.etde.org/edb/reference.html>

### ***About the IEA***

When the International Energy Agency (IEA) was founded in 1974, the main objective of its member countries (26 as of 2006) was to reduce dependence on imported oil through the development of alternative sources while improving energy efficiency. More recently, concerns such as greenhouse gas emissions and globalization have underlined the need for international co-operation. For more than 30 years, technology collaboration has been a fundamental building block among IEA Member and non-member countries in facilitating progress of new or improved energy technologies. There are currently 40 Implementing Agreements in the areas of fossil fuels, renewable energies and hydrogen, end-use (buildings, industry and transport), fusion and cross-sectional activities. For more information see <http://www.iea.org>.

## AVAILABILITY TO INIS USERS

### *About INIS*

INIS, the International Nuclear Information System, is the world's leading information system on the peaceful uses of nuclear energy. INIS is operated by the International Atomic Energy Agency (IAEA) in collaboration with its Member States and cooperating international organizations. INIS was established in 1970, and since then has been successfully fulfilling its mission to create a reservoir of nuclear information for current and future generations; provide quality nuclear information services to Member States, and assist with the development of a culture of information and knowledge sharing. INIS processes most of the world's scientific and technical literature on a wide range of subjects from nuclear engineering, safeguards and non-proliferation to applications in agriculture and health. The subject scope was developed to respond to the information needs of the international community in the areas of the IAEA's interests and activities covering the peaceful uses of nuclear science and technology. For more information see <http://www.iaea.org/inisnkm>.

INIS Member may request reasonable quantities of the Joint Thesaurus from:

INIS and Nuclear Knowledge Management Section  
International Atomic Energy Agency  
P.O. Box 100  
Wagramer Strasse 5  
A-1400 Vienna  
Austria  
Fax: +43 1 2600 29882  
E-mail: [INIS@iaea.org](mailto:INIS@iaea.org)  
<http://www.iaea.org/inisnkm>

Other organizations may order printed copies of the *INIS Reference Series* and the *ETDE/INIS Joint Reference Series* from:

Sales and Promotion Unit  
Publishing Section  
International Atomic Energy Agency  
P.O. Box 100, Wagramer Strasse 5  
A-1400 Vienna, Austria  
Fax: +43 1 2600 29302  
E-mail: [sales.publications@iaea.org](mailto:sales.publications@iaea.org)  
<http://www.iaea.org/books>

An electronic version of the Joint Thesaurus in PDF format can be downloaded from the IAEA Publications web site at:

<http://www.iaea.org/Publications>

### *About the IAEA*

The International Atomic Energy Agency (IAEA) is the world's intergovernmental forum for cooperation in the peaceful uses of nuclear energy. It was founded in 1957 in accordance with a decision of the General Assembly of the United Nations. Its Statute states that "The Agency shall seek to accelerate and enlarge the contribution of atomic energy to peace, health and prosperity throughout the world. It shall ensure, so far as it is able, that assistance provided by it or at its request or under its supervision or control is not used in such a way as to further any military purpose."

For more information see <http://www.iaea.org>



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## PREFACE

“A thesaurus is a terminological control device used in translating from the natural language of documents, indexers or users into a more constrained ‘system language’ (document language, information language)”. It is also “a controlled and dynamic vocabulary of semantically and generically related terms which covers a specific domain of knowledge”. The Joint Thesaurus fits this definition adopted by UNESCO.<sup>1</sup>

The domain of knowledge covered by the Joint Thesaurus includes physics (in particular, plasma physics, atomic and molecular physics, and especially nuclear and high-energy physics), chemistry, materials science, earth sciences, radiation biology, radioisotope effects and kinetics, applied life sciences, radiology and nuclear medicine, isotope and radiation source technology, radiation protection, radiation applications, engineering, instrumentation, fossil fuels, synthetic fuels, renewable energy sources, advanced energy systems, fission and fusion reactor technology, safeguards and inspection, waste management, environmental aspects of the production and consumption of energy from nuclear and non-nuclear sources, energy efficiency and energy conservation, economics and sociology of energy production and use, energy policy, and nuclear law.

The terms in the Joint Thesaurus are listed alphabetically. For each alphabetical entry, a “word block”, containing the terms associated with this particular entry, is displayed. In the word block, terms that have a hierarchical relationship to the entry are identified by the symbols **BT** for *Broader Term*, and **NT** for *Narrower Term*; a term with an affirmative relationship is identified by **RT**, for *Related Term*; terms with a preferential relationship are identified by **USE** or **SEE**, and **UF** for *Used For*, and **SF** for *Seen For*. In case of multiple **USE** relationships for a forbidden term, **all** listed descriptors should be used to index or search a given concept. In case of multiple **SEE** relationships, **one or more** of the listed descriptors should be considered for indexing or searching this concept.

A non-descriptor may refer to a descriptor that has *Narrower Terms*. Users of the Joint Thesaurus should always refer to the word block of that descriptor, to ensure that the most specific term is chosen. For all terms, only one level of *Broader Terms* is shown. If terms have additional levels of broader terms, e.g. **BT2**, **BT3**, etc., this is indicated by an asterisk, e.g. **\*BT1**. Up to ten levels of *Narrower Terms* are shown for all terms. If terms have additional levels of narrower terms, such as **NT11**, **NT12**, etc., this is indicated by an asterisk, e.g. **\*NT10**.

The dates printed after each descriptor indicate when the term was introduced in either the ETDE or the INIS database and hence its earliest usage in the respective data base. If only one date is given, the descriptor was introduced in both databases at the same time. If the descriptor is **not** followed by a date, it already existed in the thesaurus **before 30 June 1975**. In April 2000, a major addition of terminology to the INIS Thesaurus was made, by including new terms from the ETDE Thesaurus. These terms can be identified by the INIS date (Apr 2000). When searching for entries in the alphabetic listing, users should take note of the following sort order:

- comma “,”
- dash “/”
- space “ ” and hyphen “-“
- Arabic numerals 0-9
- Roman alphabet A-Z

Numbers, which include single and multiple digits, are sorted by the initial digit first, e.g. the isotopes BORON 10 and BORON 19 appear before BORON 7 and BORON 9. In the same way, RUTHENIUM 100 appears before RUTHENIUM 88. All terms, in which the first character is a number, appear before the letter A.

Additions and changes to the vocabulary of controlled terminology in the current Thesaurus revision are summarized in cumulative monthly updates. They are available from the INIS Members Area on the INIS and NKM website and the ETDE website. These updates include the first-level broader terms, related terms, scope notes for the new descriptors, and the descriptor(s) to be used for each new forbidden term. Since the updates are cumulative, new changes in any update are marked with an arrow for easy recognition. In addition, the final update to the previous Thesaurus revision is available from the INIS Members Area web page and the ETDE web site. This update contains all changes to the previous revision, as implemented in the current version of the Joint Thesaurus.

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<sup>1</sup>SC/WS/555: Guidelines for the Establishment and Development of Monolingual Thesauri: United Nations Educational, Scientific and Cultural Organization, Paris, September 1973.



# DICTIONARY

**1,1-diethoxyethane**

USE acetal

**1,2,3-propanetriol**

USE glycerol

**1,2,3-trihydroxybenzene**

USE pyrogallol

**1,2,4,5-tetramethylbenzene**

USE durene

**1,2-dihydroxyanthraquinone**

USE alizarin

**1,2-dihydroxybenzene**

USE pyrocatechol

**1,2-dimethoxyethane**

USE dme

**1,2-diphenylethane**

USE bibenzyl

**1,2-diphenylethylene**

USE stilbene

**1,2-ethanedial**

USE glyoxal

**1,2-ethanediol**

USE glycols

**1,2-ethanedithiol**

USE dithiols

**1,3,5-triamino-2,4,6-trinitrobenzene**

INIS: 2000-04-12; ETDE: 1975-08-19

USE tatb

**1,3,5-trimethylbenzene**

USE mesitylene

**1,3,7-trimethylxanthine**

USE caffeine

**1,3-diazines**

USE pyrimidines

**1,3-dihydroxybenzene**

USE resorcinol

**1,3-dimethylxanthine**

USE theophylline

**1,4-diaminobutane**

USE putrescine

**1,4-diazines**

USE pyrazines

**1,4-dihydroxyanthraquinone**

USE quinizarin

**1,4-dioxane**

USE dioxane

**1,5-diaminopentane**

USE cadaverine

**1/v law**

INIS: 1975-09-26; ETDE: 1975-10-28

USE reciprocal v law

**1-dimensional calculations**

USE one-dimensional calculations

**1-NITROSO-2-NAPHTHOL**

UF *alpha-nitroso-beta-naphthol*

UF *anbn*

\*BT1 naphthols

\*BT1 nitroso compounds

BT1 reagents

**1-propanol**

USE propanols

**2,2-dimethylpropane**

USE 2-2-dimethylpropane

**2,2-dithiobisethylamine**

INIS: 1984-05-24; ETDE: 2002-06-06

USE cystamine

**2,3,4,7-dibenzoanthracene**

INIS: 2000-04-12; ETDE: 1985-09-23

USE pentacene

**2,4-pentanedione**

USE acetylacetone

**2,5-diaminovaleric acid**

USE ornithine

**2-2-DIMETHYLPROPANE**

UF *2,2-dimethylpropane*

UF *dimethylpropane (2,2-)*

UF *neopentane*

\*BT1 alkanes

**2-3-PENTANEDIONE**

UF *acetyl propionyl*

UF *methyl ethyl diketone*

UF *pentanedione (2,3)*

\*BT1 ketones

**2-chloro-1,3-butadiene**

USE neoprene

**2-dimensional calculations**

USE two-dimensional calculations

**2-furalaldehyde**

USE furfural

**2-mercaptopropionylglycine**

INIS: 1981-12-23; ETDE: 1982-02-09

USE mpg

**2-methylbutadiene**

USE isoprene

**2-METHYLBUTANE**

INIS: 1983-09-06; ETDE: 1979-09-26

UF *isopentane*

UF *methylbutane (2-)*

\*BT1 alkanes

**2-METHYLPROPANE**

UF *isobutane*

UF *methylpropane (2-)*

\*BT1 alkanes

**2-METHYLPROPANOL**

UF *isobutyl alcohol*

UF *methylpropanol (2-)*

\*BT1 alcohols

**2-METHYLPROPENE**

UF *isobutylene*

UF *methylpropene (2-)*

\*BT1 alkenes

**2-methylquinoline**

USE quinaldine

**2-nitroimidazole**

INIS: 2000-04-12; ETDE: 1981-01-27

USE misonidazole

**2-propanol**

USE propanols

**2-pyridinecarboxylic acid**

USE picolinic acid

**2-pyrrolidinecarboxylic acid**

USE proline

**2X DEVICES**

\*BT1 magnetic mirrors

**3,4-dihydroxyphenylalanine**

USE dopa

**3,7-dimethylxanthine**

USE theobromine

**3-dimensional calculations**

USE three-dimensional calculations

**3-METHYLCHOLANTHRENE**

INIS: 1982-02-09; ETDE: 1979-07-18

\*BT1 condensed aromatics

\*BT1 polycyclic aromatic hydrocarbons

RT combustion products

**3j-symbols**

USE clebsch-gordan coefficients

**4-dimensional calculations**

USE four-dimensional calculations

**5-amino-2,3-dihydro-1,4-phthalazine-dione**

INIS: 2000-04-12; ETDE: 1982-01-21

USE luminol

**5-methyl uracil**

ETDE: 2002-06-06

USE thymine

**5-methyluracil**

2000-04-12

USE thymine

**5U PELLETRON ACCELERATOR**

INIS: 1980-02-26; ETDE: 1980-03-29

\*BT1 pelletron accelerators

**6-aminopurine**

USE adenines

**6-carboxyuracil**

USE orotic acid

**6-furfurylaminopurine**

USE kinetin

**6j-symbols**

USE racah coefficients

**710 reactor**

2000-04-12

(Prior to May 1993, this was a valid ETDE descriptor.)

SEE enriched uranium reactors

SEE fast reactors

SEE gas cooled reactors

SEE mobile reactors  
SEE propulsion reactors

**8-hydroxyquinoline**

1980-07-24

USE oxine

**8-hydroxyxanthine**

USE uric acid

**8-quinolinol**

INIS: 2000-04-12; ETDE: 1985-08-22

USE oxine

**9j-symbols**

USE wigner coefficients

**a-1 reactor (bohunice)**

USE bohunice a-1 reactor

**a-1 reactor (calder hall)**

USE calder hall a-1 reactor

**a-15 compounds**

INIS: 2000-04-12; ETDE: 1979-05-02

USE beta-w lattices

**a-2 reactor (bohunice)**

USE bohunice a-2 reactor

**a-2 reactor (calder hall)**

USE calder hall a-2 reactor

**a 285 steel**

INIS: 2000-04-12; ETDE: 1978-12-20

USE steel-astm-a285

**A-BOMB SURVIVORS**

\*BT1 human populations  
RT delayed radiation effects  
RT epidemiology  
RT hiroshima  
RT little boy  
RT nagasaki

**A CENTERS**

1982-08-27

\*BT1 color centers

**A CODES**

BT1 computer codes

**a resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**A0-980 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-25

(Prior to December 1987 this concept was indexed by DELTA-966 RESONANCES.)

UF delta-966 resonances

\*BT1 scalar mesons

**a1-1070 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE a1-1260 mesons

**A1-1260 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by A1-1070 RESONANCES; from then until July 1995 it was indexed by A1-1270 MESONS.)

UF a1-1070 resonances

UF a1-1270 mesons

\*BT1 axial vector mesons

**a1-1270 mesons**

INIS: 1995-08-07; ETDE: 1988-01-29

(From December 1987 until July 1995 this was a valid term.)

USE a1-1260 mesons

**a2-1310 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE a2-1320 mesons

**A2-1320 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-29

(Prior to December 1987 this concept was indexed by A2-1310 RESONANCES.)

UF a2-1310 resonances

\*BT1 tensor mesons

**a2h-1320 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**a2l-1280 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**a3 resonances**

2000-04-12

USE pi2-1670 mesons

**a4-1960 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE a4-2040 mesons

**A4-2040 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by A4-1960 RESONANCES.)

UF a4-1960 resonances

\*BT1 tensor mesons

**A6-2450 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

\*BT1 tensor mesons

**AABO CYCLOTRON**

UF turku cyclotron

\*BT1 isochronous cyclotrons

**aaec**

INIS: 1996-01-30; ETDE: 1978-04-28

Australian Atomic Energy Commission. The AAEC was abolished on 27 April 1987 and replaced by ANSTO.

(Until January 1996 this was a valid descriptor.)

USE ansto

**aaf**

INIS: 2000-04-12; ETDE: 1985-09-23

USE acetylaminofluorenes

**AAPS**

INIS: 2000-04-12; ETDE: 1979-05-02

UF advanced automotive propulsion systems

RT automotive industry

RT electric-powered vehicles

RT gas turbine engines

RT internal combustion engines

RT stirling engines

**AARR REACTOR**

2000-04-12

ANL, Argonne, Illinois, USA.

UF argonne tank research and test reactor-aarr

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**ABACC**

1999-06-22

Agencia Brasileiro-Argentina de Contabilidade e Controle de Materiais Nucleares.

UF agencia brasil-argentina contabil controle mater nuclear

UF argentina-brasil agencia contabil controle mater nuclear

UF brasil-argentina agencia contabil controle mater nuclear

UF nuclear mater, agencia brasil-argentina contabil controle

BT1 international organizations

RT safeguards

**ABANDONED SHAFTS**

INIS: 1991-12-18; ETDE: 1977-12-22

UF disused minshafts

\*BT1 mine shafts

RT coal mines

RT mines

**ABANDONED SITES**

INIS: 1980-12-01; ETDE: 1978-10-23

RT land reclamation

RT remedial action

**ABANDONED WELLS**

INIS: 1992-03-05; ETDE: 1977-08-24

An oil or gas well that has been abandoned because its yield has fallen below that necessary for profitable production.

BT1 wells

RT natural gas wells

RT oil wells

**abashian-booth-crowe effect**

INIS: 1977-09-15; ETDE: 1977-11-09

USE abc effect

**ABC EFFECT**

INIS: 1977-09-15; ETDE: 1977-11-10

UF abashian-booth-crowe effect

RT interactions

RT missing-mass spectra

RT pions

**ABDOMEN**

1999-04-06

BT1 body

RT diaphragm

RT gastrointestinal tract

RT liver

RT peritoneum

RT spleen

**aberdeen maryland reactor**

1999-03-05

USE aprf reactor

**aberration yield**

USE mutation frequency

**ABFST EQUATION**

Amati-Bertocchi-Fabini-Strangellini-Tonin Equation.

BT1 equations

RT multiperipheral model

RT regge poles

RT scattering amplitudes

**abies**

INIS: 2000-04-12; ETDE: 1985-12-11  
USE firs

**ABIOGENIC GAS**

INIS: 2000-04-12; ETDE: 1982-05-12  
Methane deposits at great depths within the earth due to nonbiogenic processes.  
\*BT1 natural gas

**ABLATION**

For the medical concept use *SURGERY* or *RADIOTHERAPY*.  
RT erosion  
RT heat transfer  
RT reentry  
RT refractories  
RT sublimation heat

**abmr method**

2002-11-14  
USE atomic beams  
USE magnetic resonance

**abnormalities (chromosomal)**

USE chromosomal aberrations

**abnormalities (developmental)**

USE malformations

**ABORTION**

RT pregnancy  
RT reproductive disorders

**abragam model**

USE abragam-pound theory

**ABRAGAM-POUND THEORY**

UF *abragam model*  
RT angular correlation  
RT angular distribution

**ABRASION**

RT abrasives  
RT erosion  
RT wear

**ABRASIVES**

(From April 1975 till March 1997 PUMICE was a valid ETDE descriptor.)  
SF *pumice*  
RT abrasion

**ABRIKOSOV THEORY**

RT magnetic properties  
RT superconductivity  
RT superconductors

**abs (alkyl benzenesulfonates)**

ETDE: 2005-01-28  
(Prior to January 2005 ABS was a valid descriptor.)  
USE alkyl benzenesulfonates

**ABSCESSES**

BT1 pathological changes

**ABSCISIC ACID**

INIS: 2000-04-12; ETDE: 1985-05-07  
A plant hormone that promotes abscission and plant dormancy.  
\*BT1 monocarboxylic acids  
BT1 plant growth regulators  
RT auxins  
RT hormones

**ABSCOPAL RADIATION EFFECTS**

\*BT1 biological radiation effects  
RT local irradiation  
RT partial body irradiation  
RT radiotoxins

**ABSOLUTE COUNTING**

BT1 counting techniques  
RT calibration

**ABSOLUTE INSTABILITIES**

A class of plasma instabilities growing exponentially with time at any point in space; opposite to *CONVECTIVE INSTABILITIES*.  
\*BT1 plasma instability  
RT briggs criterion  
RT convective instabilities

**absolute liability**

INIS: 1990-12-15; ETDE: 2002-06-06  
(Prior to December 1990, this was a valid descriptor.)  
USE liabilities

**absolute zero temperature**

1992-09-30  
(Prior to February 1992 this was a valid ETDE descriptor.)  
USE temperature zero k

**absorbed doses**

USE radiation doses

**absorbed fraction (internal irradiation)**

USE internal irradiation  
USE spatial dose distributions

**ABSORBENTS**

2006-02-06  
RT absorption  
RT sorptive properties

**ABSORBER PELLETS**

2003-10-21  
BT1 neutron absorbers  
BT1 pellets

**absorbers (solar)**

INIS: 2000-04-12; ETDE: 1977-10-19  
USE solar absorbers

**ABSORPTION**

1999-03-19  
UF *stopping*  
BT1 sorption  
NT1 energy absorption  
NT1 intestinal absorption  
NT1 k absorption  
NT1 polar-cap absorption  
NT1 resonance absorption  
NT1 root absorption  
NT1 self-absorption  
NT1 skin absorption  
RT absorbents  
RT absorption refrigeration cycle  
RT absorption spectra  
RT absorption spectroscopy  
RT absorptivity  
RT half-thickness  
RT heterogeneous effects  
RT point kernels  
RT radiations  
RT range  
RT self-shielding  
RT shielding  
RT sinks  
RT slowing-down  
RT stopping power  
RT transmission

**absorption (intestinal)**

USE intestinal absorption

**absorption (leaves)**

INIS: 1980-12-01; ETDE: 1981-01-09  
USE foliar uptake

**absorption (root)**

INIS: 1980-12-01; ETDE: 1981-01-09  
USE root absorption

**absorption (skin)**

USE skin absorption

**ABSORPTION HEAT**

UF *heat of absorption*  
\*BT1 enthalpy  
\*BT1 heat  
RT wetting heat

**absorption model**

2000-04-12  
USE linear absorption models

**absorption models (linear)**

INIS: 1976-02-11; ETDE: 2002-06-06  
USE linear absorption models

**ABSORPTION REFRIGERATION CYCLE**

INIS: 1992-04-16; ETDE: 1978-05-03  
BT1 thermodynamic cycles  
RT absorption  
RT air conditioners  
RT cooling systems  
RT refrigerating machinery  
RT refrigeration  
RT refrigerators

**ABSORPTION SPECTRA**

UF *spectra (absorption)*  
BT1 spectra  
RT absorption  
RT absorption spectroscopy  
RT optical depth curve  
RT spectroscopic curve of growth

**ABSORPTION SPECTROSCOPY**

UF *atomic absorption spectroscopy*  
UF *colorimetry*  
SF *spectrochemistry*  
BT1 spectroscopy  
RT absorption  
RT absorption spectra  
RT double resonance methods  
RT extreme ultraviolet spectra  
RT infrared spectra  
RT laser spectroscopy  
RT photoacoustic spectrometers  
RT structural chemical analysis  
RT ultraviolet spectra

**ABSORPTIVITY**

INIS: 1998-10-23; ETDE: 1975-09-30  
Ratio of energy absorbed to energy incident upon a surface.  
BT1 physical properties  
BT1 surface properties  
RT absorption  
RT optical properties  
RT spectral reflectance

**absorptivity (optical)**

2000-03-24  
SEE opacity

**ABSTRACTS**

Use only for items about abstracts, not for items which are abstracts or collections of abstracts.  
NT1 leading abstract  
RT document types

**abu Dhabi**

INIS: 1992-05-07; ETDE: 1976-08-05  
USE united arab emirates

**ABUNDANCE**

1992-03-09

- SF concentration
- SF concentration (analytical)
- SF concentration dependence
- NT1 element abundance
- RT chemical composition
- RT concentration ratio
- RT isotope ratio
- RT ore composition

**abundance (chemical)**

ETDE: 2002-06-06

- USE chemical composition

**abundance (element)**

ETDE: 2002-06-06

- USE element abundance

**abundance (isotopic)**

ETDE: 2002-06-06

- USE isotope ratio

**abundance (mineral)**

ETDE: 2002-06-06

- USE ore composition

**AC AMPLIFIERS**

- \*BT1 amplifiers

**AC LOSSES**

1982-11-29

- \*BT1 energy losses
- RT superconductivity

**AC SYSTEMS**

INIS: 1991-12-17; ETDE: 1976-05-17

- UF alternating current systems
- \*BT1 power systems
- NT1 ehv ac systems
- NT1 hvac systems
- NT1 uhv ac systems

**ac to dc converters**

2006-05-12

- USE rectifiers

**ACCELERATION**

- UF deceleration
- NT1 plasma acceleration
- RT accelerators
- RT gravimetry
- RT velocity
- RT wakefield accelerators

**ACCELERATOR BREEDERS**

INIS: 1978-07-03; ETDE: 1978-01-23

Accelerators used in the production of fissionable materials.

- RT accelerator driven transmutation
- RT accelerators
- RT breeder reactors
- RT breeding
- RT fissionable materials
- RT nuclear fuels

**ACCELERATOR DRIVEN****TRANSMUTATION**

2000-03-14

- UF accelerator driven transmutation technologies
- UF adtt
- BT1 transmutation
- RT accelerator breeders
- RT accelerators
- RT radioactive waste processing

**accelerator driven transmutation technologies**

2000-03-14

- USE accelerator driven transmutation

**ACCELERATOR FACILITIES**

1995-05-10

- UF experimental facilities (accelerator)
- UF facilities (accelerator)
- NT1 target chambers
- RT accelerators
- RT advanced light source
- RT advanced photon source
- RT beam dumps
- RT beam monitors
- RT laboratory equipment
- RT pigmi facilities
- RT pohang light source
- RT reaction product transport systems
- RT stanford linear collider
- RT swiss light source

**accelerator pulsed fast assembly**

1993-11-03

- USE apfa-3 reactor

**ACCELERATORS**

- NT1 coherent accelerators
- NT1 collective accelerators
- NT2 electron-ring accelerators
- NT2 ionization front accelerators
- NT2 plasma betatrons
- NT1 cyclic accelerators
- NT2 betatrons
- NT2 bevalac
- NT2 cyclotrons
- NT3 cracow u-120 cyclotron
- NT3 isochronous cyclotrons
- NT4 aabo cyclotron
- NT4 alice cyclotron
- NT4 brookhaven cyclotron
- NT4 cracow aic-144 cyclotron
- NT4 crnl superconducting cyclotron
- NT4 cyclone cyclotron
- NT4 debrecen cyclotron
- NT4 eindhoven cyclotron
- NT4 ganil cyclotron
- NT4 grenoble cyclotron
- NT4 haizy cyclotron
- NT4 hirfl cyclotron
- NT4 inr cyclotron
- NT4 ipcr cyclotron
- NT4 iu cyclotron
- NT4 jinr cyclotrons
- NT5 jinr u-400 cyclotron
- NT4 julic cyclotron
- NT4 karlsruhe cyclotron
- NT4 kazakhstan cyclotron
- NT4 kiev cyclotron
- NT4 kvi cyclotron
- NT4 milan superconducting cyclotron
- NT4 msu cyclotrons
- NT4 munich compact cyclotron
- NT4 munich suse cyclotron
- NT4 nac cyclotron
- NT4 nirs cyclotron
- NT4 nrl cyclotron
- NT4 orn1 isochronous cyclotron
- NT4 orsay cyclotron
- NT4 oslo cyclotron
- NT4 princeton cyclotron
- NT4 renp cyclotron
- NT4 sara cyclotron
- NT4 sin cyclotron
- NT4 texas a and m cyclotron
- NT4 texas superconducting cyclotron
- NT4 tohoku cyclotron
- NT4 tokyo ins cyclotron
- NT4 triumph cyclotron
- NT4 uclrl cyclotrons
- NT5 lbl 88-inch cyclotron
- NT4 warsaw cyclotron
- NT3 microtrons
- NT4 racetrack microtrons
- NT3 nbi cyclotron
- NT3 separated orbit cyclotrons
- NT3 superconducting cyclotrons
- NT4 milan superconducting cyclotron
- NT4 texas superconducting cyclotron
- NT3 variable energy cyclotrons
- NT4 calcutta cyclotron
- NT4 chandigarh cyclotron
- NT2 synchrocyclotrons
- NT3 berkeley synchrocyclotron
- NT3 cern synchrocyclotron
- NT3 dubna synchrocyclotron
- NT3 harvard synchrocyclotron
- NT3 harwell synchrocyclotron
- NT3 iko synchrocyclotron
- NT3 leningrad synchrocyclotron
- NT3 mcgill synchrocyclotron
- NT3 orsay synchrocyclotron
- NT3 uppsala synchrocyclotron
- NT2 synchrotrons
- NT3 bevatron
- NT3 bonn synchrotron
- NT3 brookhaven ags
- NT3 cambridge electron accelerator
- NT3 cern lhc
- NT3 cern ps synchrotron
- NT3 cern sps synchrotron
- NT3 cornell 10-gev synchrotron
- NT3 cosmotron
- NT3 cosy storage ring
- NT3 desy
- NT3 erevan synchrotron
- NT3 escar storage ring
- NT3 fermilab accelerator
- NT3 fermilab tevatron
- NT3 fian synchrotron
- NT3 frascati synchrotron
- NT3 himac accelerator
- NT3 ipns-i synchrotron
- NT3 itep synchrotron
- NT3 jinr synchrotron
- NT3 kek synchrotron
- NT3 lampf ii synchrotron
- NT3 lep storage rings
- NT3 lusy
- NT3 mura synchrotron
- NT3 nimrod
- NT3 nina
- NT3 pakhra synchrotron
- NT3 princeton synchrotron
- NT3 saturne
- NT3 saturne ii
- NT3 serpukhov synchrotron
- NT3 serpukhov tevatron
- NT3 sis synchrotron
- NT3 superconducting super collider
- NT3 tokyo synchrotron
- NT3 tomsk synchrotron
- NT3 zgs
- NT1 electrostatic accelerators
- NT2 cockcroft-walton accelerators
- NT2 dynamitrons
- NT2 pelletron accelerators
- NT3 5u pelletron accelerator
- NT2 tandem electrostatic accelerators
- NT3 antares tandem accelerator
- NT3 crnl mp tandem accelerator
- NT3 jaeri tandem accelerator
- NT3 orsay tandem accelerator
- NT3 vivitron tandem accelerator
- NT2 van de graaff accelerators
- NT3 crnl mp tandem accelerator
- NT3 jaeri tandem accelerator
- NT3 orsay tandem accelerator
- NT3 vivitron tandem accelerator
- NT1 heavy ion accelerators
- NT2 brookhaven rhic

NT2 calcutta cyclotron  
 NT2 cracow u-120 cyclotron  
 NT2 crnl superconducting cyclotron  
 NT2 cyclone cyclotron  
 NT2 ganil cyclotron  
 NT2 hhurf accelerator  
 NT2 hilacs  
 NT3 atlas superconducting linac  
 NT3 superhilac  
 NT2 himac accelerator  
 NT2 hirfl cyclotron  
 NT2 iper cyclotron  
 NT2 jinr u-400 cyclotron  
 NT2 kvi cyclotron  
 NT2 milan superconducting cyclotron  
 NT2 munich suse cyclotron  
 NT2 nac cyclotron  
 NT2 numatron accelerator  
 NT2 rcnp cyclotron  
 NT2 rilac  
 NT2 sis synchrotron  
 NT2 texas superconducting cyclotron  
 NT2 tohoku cyclotron  
 NT2 tokyo ins cyclotron  
 NT2 unilac  
 NT2 vicksi accelerator  
 NT2 warsaw cyclotron  
 NT1 linear accelerators  
 NT2 anu superconducting linac  
 NT2 beat wave accelerators  
 NT2 beijing electron-positron collider  
 NT2 beijing proton linac  
 NT2 brookhaven 200-mev linac  
 NT2 cebaf accelerator  
 NT2 cern linac  
 NT2 fmit linac  
 NT2 frascati linac  
 NT2 hilacs  
 NT3 atlas superconducting linac  
 NT3 superhilac  
 NT2 jaeri linac  
 NT2 kek linac  
 NT2 kharkov linac  
 NT2 lampf linac  
 NT2 linear colliders  
 NT3 stanford linear collider  
 NT3 tesla linear collider  
 NT2 llnl advanced test accelerator  
 NT2 mea linac  
 NT2 mit bates linac  
 NT2 nrl linac  
 NT2 orela  
 NT2 orsay linac  
 NT2 quadrupole linacs  
 NT2 rilac  
 NT2 saclay linac  
 NT2 stanford 1.2-gev linac  
 NT2 stanford 20-gev linac  
 NT2 swierk linac  
 NT2 unilac  
 NT2 wakefield accelerators  
 NT1 meson factories  
 NT2 lampf ii synchrotron  
 NT2 lampf linac  
 NT2 pigmi facilities  
 NT1 particle beam fusion accelerator  
 NT1 railgun accelerators  
 RT acceleration  
 RT accelerator breeders  
 RT accelerator driven transmutation  
 RT accelerator facilities  
 RT beam dumps  
 RT beam dynamics  
 RT beam separators  
 RT impact fusion drivers  
 RT isotope production  
 RT particle boosters  
 RT storage rings  
 RT target chambers

RT vacuum systems

## ACCELEROMETERS

BT1 measuring instruments  
 RT velocimeters

### acceptance (beam)

USE beam acceptance

### access denial systems

INIS: 1986-07-09; ETDE: 1984-08-20  
 USE entry control systems

## ACCIDENT INSURANCE

INIS: 1976-12-08; ETDE: 1990-10-03  
 BT1 insurance  
 RT accidents

### accidental intake

USE accidents  
 USE single intake

### accidental irradiation

USE irradiation  
 USE radiation accidents

## ACCIDENTS

1997-06-17

UF accidental intake  
 UF aircraft accidents  
 UF emergencies  
 UF incidents  
 UF marine vehicle accidents  
 SF disasters  
 NT1 blowouts  
 NT1 chemical spills  
 NT1 gas spills  
 NT1 hazardous materials spills  
 NT1 hypothetical accidents  
 NT1 industrial accidents  
 NT1 motor vehicle accidents  
 NT1 oil spills  
 NT1 radiation accidents  
 NT1 reactor accidents  
 NT2 design basis accidents  
 NT3 atws  
 NT3 maximum credible accident  
 NT2 excursions  
 NT2 loss of coolant  
 NT2 loss of flow  
 NT2 meltdown  
 NT2 power-cooling-mismatch accidents  
 NT2 reactor core disruption  
 NT2 rod drop accidents  
 NT2 rod ejection accidents  
 NT2 transient overpower accidents

RT accident insurance

RT aerial monitoring

RT environment

RT evacuation

RT explosions

RT failures

RT fallout

RT fires

RT first aid

RT fission products

RT hazards

RT human factors

RT human factors engineering

RT industrial medicine

RT injuries

RT liabilities

RT mine rescue

RT nuclear damage

RT outages

RT population relocation

RT preventive medicine

RT public anxiety

RT radiation protection

RT radioactive clouds

RT reactor safety

RT safety

RT single intake

RT site selection

RT victims compensation

RT workmens compensation

### acclimation

INIS: 1990-12-05; ETDE: 1975-10-28

(Prior to December 1990, this was a valid descriptor.)

USE biological adaptation

### accountability

INIS: 2000-04-12; ETDE: 1983-03-23

(Prior to April 1992 this was a valid ETDE descriptor.)

SEE liabilities

SEE nuclear materials management

SEE personnel management

### accountability (legal)

INIS: 2000-04-12; ETDE: 1992-04-01

(Prior to April 1992 ACCOUNTABILITY was used for this concept in ETDE.)

USE liabilities

### accountability (nuclear materials)

INIS: 2000-04-12; ETDE: 1992-04-01

(Prior to April 1992 ACCOUNTABILITY was used for this concept in ETDE.)

USE nuclear materials management

### accountability (personnel)

INIS: 2000-04-12; ETDE: 1992-04-01

(Prior to April 1992 ACCOUNTABILITY was used for this concept in ETDE.)

USE personnel management

## ACCOUNTING

1999-01-20

UF bookkeeping

NT1 energy accounting

RT afudc

RT amortization

RT audits

RT cwip

RT debt collection

RT inventories

RT invoices

RT losses

RT management

RT material balance

RT material unaccounted for

RT nuclear materials management

RT procurement

RT safeguards

RT us gao

### accretion (planet-system)

USE planet-system accretion

### accretion (stars)

USE star accretion

## ACCRETION DISKS

INIS: 1982-04-13; ETDE: 1982-05-07

*Disks of matter which sometimes surround certain celestial objects, e.g. neutron stars.*

UF disks (accretion)

RT black holes

RT cosmic x-ray sources

RT eruptive variable stars

RT neutron stars

RT star accretion

RT symbiotic stars

### accumulation

USE buildup

### accumulation (radioecological)

USE radioecological concentration



**accumulators**

2000-04-12

(Prior to February 1997 this was a valid ETDE descriptor.)

USE tanks

**accumulators (electric batteries)**

INIS: 2000-04-12; ETDE: 1997-02-21

USE electric batteries

**ACCURACY**

UF precision

RT calibration

RT calibration standards

RT data covariances

RT errors

RT inspection

RT reliability

RT resolution

RT sensitivity

RT signal-to-noise ratio

RT specificity

RT tolerance

**ACENAPHTHENE**

\*BT1 condensed aromatics

\*BT1 hydrocarbons

RT naphthalene

**aces (quarks)**

1975-08-11

USE quarks

**ACETABULARIA**

\*BT1 chlorophycota

**ACETAL**

UF 1,1-diethoxyethane

\*BT1 acetals

RT acetaldehyde

**ACETALDEHYDE**

UF acetic aldehyde

UF ethanal

UF ethylaldehyde

\*BT1 aldehydes

RT acetal

RT chloral

**ACETALS**

\*BT1 ethers

NT1 acetal

RT polyacetals

**ACETAMIDE**

1996-10-23

\*BT1 amides

RT acetic acid

**ACETATES**

BT1 carboxylic acid salts

RT acetic acid esters

**ACETIC ACID**

\*BT1 monocarboxylic acids

RT acetamide

RT acetolysis

RT acetonitrile

**ACETIC ACID ESTERS**

1996-10-23

(Prior to March 1997 isopentyl acetate was a valid ETDE descriptor.)

UF amyl acetate

UF isoamyl acetate

UF isopentyl acetate

\*BT1 carboxylic acid esters

NT1 methyl acetate

NT1 polyvinyl acetate

NT1 vinyl acetate

RT acetates

**acetic aldehyde**

USE acetaldehyde

**ACETOACETATES**

BT1 carboxylic acid salts

**ACETOACETIC ACID**

UF ketobutyric acid-beta

\*BT1 keto acids

**ACETOACETIC ACID ESTERS**

\*BT1 carboxylic acid esters

**ACETOLYSIS**

\*BT1 solvolysis

RT acetic acid

**ACETONE**

UF dimethyl ketone

UF oxopropane

UF propanone

\*BT1 ketones

**ACETONITRILE**

1981-07-06

\*BT1 nitriles

RT acetic acid

**acetophenetidin**

INIS: 2000-04-12; ETDE: 1981-04-20

(Prior to April 1994, this was a valid ETDE descriptor.)

USE analgesics

USE antipyretics

**ACETOPHENONE**

UF acetylbenzene

UF methyl phenyl ketone

\*BT1 aromatics

\*BT1 ketones

**acetyl propionyl**

USE 2-3-pentanedione

**ACETYL RADICALS**

\*BT1 acyl radicals

**ACETYLACETONE**

UF 2,4-pentanedione

BT1 chelating agents

\*BT1 ketones

BT1 reagents

**ACETYLAMINOFLUORENES**

INIS: 2000-04-12; ETDE: 1985-09-23

UF aaf

RT carcinogens

RT polycyclic aromatic amines

**ACETYLATION**

\*BT1 acylation

**acetylbenzene**

USE acetophenone

**ACETYLCHOLINE**

\*BT1 esters

\*BT1 neuroregulators

\*BT1 parasympathomimetics

\*BT1 quaternary compounds

RT choline

RT cholinesterase

**ACETYLENE**

UF ethine

UF ethyne

\*BT1 alkynes

RT polyacetylenes

**acetylenes**

USE alkynes

**acetylpropionic acid-beta**

USE levulinic acid

**ACETYLSALICYLIC ACID**

INIS: 1976-02-05; ETDE: 1976-03-12

UF aspirin

\*BT1 analgesics

\*BT1 antipyretics

\*BT1 hydroxy acids

**achiral**

INIS: 2000-04-12; ETDE: 1976-02-23

USE racemates

**ACHOLEPLASMA LAIDLAWII B**

\*BT1 mycoplasma

**ACHONDRITES**

\*BT1 stone meteorites

**ACHROMATIC LESIONS**

RT chromatin

**ACID ANHYDRASES**

INIS: 1986-12-03; ETDE: 1981-01-12

Code number 3.6.

\*BT1 hydrolases

NT1 gtp-ases

NT1 phosphohydrolases

NT2 atp-ase

**ACID CARBONATES**

INIS: 1985-11-18; ETDE: 1977-07-23

(Prior to December 1985 BICARBONATES was used for this concept.)

UF bicarbonates

RT acid neutralizing capacity

RT carbonates

RT inorganic acids

**acid chrome dyes**

1996-10-22

(Until October 1996 this was a valid descriptor.)

USE azo dyes

USE naphthols

USE sulfonic acids

**ACID ELECTROLYTE FUEL CELLS**

1992-05-20

\*BT1 fuel cells

**acid halides**

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

USE carboxylic acids

USE halides

**ACID HYDROLYSIS**

INIS: 1997-06-17; ETDE: 1976-05-13

\*BT1 hydrolysis

RT alkaline hydrolysis

RT enzymatic hydrolysis

**ACID MINE DRAINAGE**

INIS: 1992-03-12; ETDE: 1976-01-07

RT coal mining

RT land pollution

RT liquid wastes

RT mine draining

RT mining

RT spoil banks

RT waste water

RT water pollution

**ACID NEUTRALIZING CAPACITY**

INIS: 1992-04-16; ETDE: 1984-08-06

The total quantity of base in natural waters, usually in equilibrium with carbonate or bicarbonate, as determined by titration with strong acid.

UF alkalinity

\*BT1 water chemistry

RT acid carbonates

RT acid rain  
 RT bases  
 RT buffers  
 RT carbonates  
 RT geochemistry  
 RT limnology  
 RT organic matter  
 RT ph value  
 RT soils  
 RT titration

**ACID PHOSPHATASE**

Code number 3.1.3.2.

\*BT1 phosphatases

**acid phosphates**

INIS: 2000-04-12; ETDE: 1977-07-23

(Prior to February 1997 this was a valid ETDE descriptor.)

USE phosphates

**ACID PROTEINASES**

INIS: 1986-12-03; ETDE: 1981-01-12

Code number 3.4.23.

\*BT1 peptide hydrolases

NT1 pepsin

**ACID RAIN**

INIS: 1991-08-02; ETDE: 1976-03-22

\*BT1 rain

RT acid neutralizing capacity  
 RT air pollution  
 RT climatic change  
 RT interception  
 RT throughfall  
 RT us napap

**acid silicates**

INIS: 2000-04-12; ETDE: 1977-07-23

(Prior to September 1994, this was a valid ETDE descriptor.)

USE silicates

**ACID SULFATES**

INIS: 2000-04-12; ETDE: 1978-03-03

UF bisulfates

\*BT1 sulfates

RT inorganic acids  
 RT sulfuric acid

**ACID SULFITES**

INIS: 2000-04-12; ETDE: 1982-01-07

\*BT1 sulfites

RT inorganic acids  
 RT sulfuric acid

**ACIDIFICATION**

INIS: 1983-03-14; ETDE: 1977-12-22

The act or process of acidifying.

RT chemical reactions  
 RT inorganic acids  
 RT organic acids

**acidity**

USE ph value

**ACIDIZATION**

INIS: 1999-01-20; ETDE: 1976-03-11

Treatment of a reservoir formation with acid to assist the flow of crude oil or gas by improving the permeability of the reservoir rock.

RT enhanced recovery  
 RT natural gas deposits  
 RT petroleum deposits  
 RT well stimulation

**acids (inorganic)**

USE inorganic acids

**acids (organic)**

USE organic acids

**aco (anneau de collisions d'orsay)**

ETDE: 2005-01-28

(Prior to January 2005 ACO was a valid descriptor.)

USE orsay storage rings

**ACOUSTIC AGGLOMERATORS**

INIS: 2000-04-12; ETDE: 1981-08-21

\*BT1 pollution control equipment

RT aerosols  
 RT dusts  
 RT hot gas cleanup  
 RT sound waves

**ACOUSTIC DETECTION**

INIS: 1983-06-30; ETDE: 1979-09-06

Charged particle detection technique based on sonic signal produced by charged particles traversing fluid media.

BT1 acoustic measurements  
 \*BT1 charged particle detection  
 RT acoustic monitoring  
 RT dumand project  
 RT sound waves

**acoustic electron spin resonance**

USE acoustic esr

**ACOUSTIC EMISSION TESTING**

\*BT1 acoustic testing

**ACOUSTIC ESR**

UF acoustic electron spin resonance  
 UF aepr  
 UF aesr  
 UF paramagnetic resonance (electron acoustic)  
 SF electron-spin echo  
 \*BT1 electron spin resonance  
 RT attenuation  
 RT phonons  
 RT resonance scattering  
 RT sound waves

**ACOUSTIC HEATING**

\*BT1 magnetic-pumping heating

**ACOUSTIC INSULATION**

1995-07-03

UF insulation (acoustic)  
 UF soundproofing  
 RT acoustic measurements  
 RT acoustic monitoring  
 RT acoustics

**ACOUSTIC MEASUREMENTS**

INIS: 1995-07-03; ETDE: 1976-07-07

Measurements of properties, quantities, or conditions of acoustical, i.e. Mechanical, waves.

UF sonic measurements  
 NT1 acoustic detection  
 RT acoustic insulation  
 RT acoustic monitoring  
 RT acoustic testing  
 RT noise dosimeters  
 RT seismic surveys  
 RT seismographs  
 RT sonic logging  
 RT sonic probes  
 RT sound waves  
 RT ultrasonic testing

**ACOUSTIC MICROSCOPY**

INIS: 1993-04-07; ETDE: 1984-07-10

UF scanning acoustic microscopy  
 BT1 microscopy  
 RT acoustic testing  
 RT mechanical properties

**ACOUSTIC MONITORING**

1995-07-03

UF microseismic monitoring  
 BT1 monitoring  
 RT acoustic detection  
 RT acoustic insulation  
 RT acoustic measurements  
 RT in core instruments  
 RT reactor instrumentation  
 RT reactor monitoring systems  
 RT sonic logging  
 RT sound waves

**ACOUSTIC NMR**

UF acoustic nuclear magnetic resonance  
 UF anmr  
 UF nuclear acoustic resonance  
 UF paramagnetic resonance (nuclear acoustic)  
 \*BT1 nuclear magnetic resonance  
 RT attenuation  
 RT phonons  
 RT resonance scattering  
 RT sound waves

**acoustic nuclear magnetic resonance**

1993-11-03

USE acoustic nmr

**ACOUSTIC RADAR**

INIS: 1993-05-06; ETDE: 1980-03-29

Use of sound waves with RADAR techniques for remote probing of the lower atmosphere.

\*BT1 radar  
 RT meteorology  
 RT remote sensing  
 RT sound waves

**acoustic spark chambers**

USE sonic spark chambers

**ACOUSTIC TESTING**

\*BT1 nondestructive testing  
 NT1 acoustic emission testing  
 NT1 ultrasonic testing  
 RT acoustic measurements  
 RT acoustic microscopy

**ACOUSTICS**

INIS: 1999-01-20; ETDE: 1976-01-23

NT1 magnetoacoustics  
 RT acoustic insulation  
 RT photoacoustic effect  
 RT sound waves  
 RT speech synthesizers

**ACPR REACTOR**

Sandia National Laboratories, Albuquerque, New Mexico, USA. Shut down in 1977.

UF acrr reactor  
 UF annular core pulse reactor  
 UF annular core research reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 hydride moderated reactors  
 \*BT1 mixed spectrum reactors  
 \*BT1 pulsed reactors  
 \*BT1 research reactors  
 \*BT1 solid homogeneous reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**acquired immunodeficiency**

**syndrome**

INIS: 2000-04-12; ETDE: 1986-03-04

USE aids

**acquired immunodeficiency virus**

INIS: 1993-11-03; ETDE: 2002-06-06

USE aids virus

**acquisition (data)**

USE data acquisition

**acraldehyde**

USE acrolein

**ACRIDINE ORANGE**

\*BT1 acridines

\*BT1 amines

BT1 dyes

**ACRIDINES**

UF acridones

\*BT1 azaarenes

\*BT1 pyridines

NT1 acridine orange

NT1 flavines

NT2 acriflavine

NT2 proflavine

**acridones**

2000-04-12

(Prior to April 1994, this was a valid ETDE descriptor.)

USE acridines

USE ketones

**ACRIFLAVINE**

UF euflavine

UF tryptaflavine

\*BT1 flavines

RT proflavine

**ACROCENTRIC CHROMOSOMES**

ETDE: 1975-09-11

BT1 chromosomes

RT chromosomal aberrations

RT karyotype

**acroleic acid**

USE acrylic acid

**ACROLEIN**

UF acraldehyde

UF acrylic aldehyde

UF propenal

\*BT1 aldehydes

RT vinyl monomers

**ACROMEGALY**

\*BT1 endocrine diseases

RT pituitary gland

RT sth

**acrr reactor**

INIS: 2000-04-12; ETDE: 1979-10-23

USE acpr reactor

**ACRYLAMIDE**

\*BT1 amides

RT acrylic acid

RT vinyl monomers

**ACRYLATES**

BT1 carboxylic acid salts

RT acrylic acid esters

RT vinyl monomers

**ACRYLIC ACID**

UF acroleic acid

UF ethylenecarboxylic acid

\*BT1 monocarboxylic acids

RT acrylamide

RT acrylonitrile

RT vinyl monomers

**ACRYLIC ACID ESTERS**

\*BT1 carboxylic acid esters

RT acrylates

RT vinyl monomers

**acrylic aldehyde**

USE acrolein

**acrylic polymers**

USE polyacrylates

**ACRYLONITRILE**

UF vinyl cyanide

\*BT1 nitriles

RT acrylic acid

RT organic polymers

RT vinyl monomers

**ACT DEVICES**

INIS: 1985-12-11; ETDE: 1985-08-08

Advanced Concept Torus.

\*BT1 tokamak devices

**actf**

INIS: 2000-04-12; ETDE: 1981-03-17

USE advanced components test facility

**ACTH**

UF adrenocorticotrophic hormone

\*BT1 pituitary hormones

RT adrenal glands

RT corticosteroids

RT glucocorticoids

**ACTIN**

\*BT1 proteins

RT muscles

RT tropomyosin

**ACTINIDE ALLOYS**

BT1 alloys

NT1 americium alloys

NT1 berkelium alloys

NT1 californium alloys

NT1 curium alloys

NT2 curium additions

NT1 einsteinium alloys

NT1 neptunium alloys

NT2 neptunium additions

NT1 plutonium alloys

NT2 plutonium base alloys

NT1 protactinium alloys

NT1 thorium alloys

NT2 magnesium alloy-hk3 1a

NT2 thorium additions

NT2 thorium base alloys

NT1 uranium alloys

NT2 uranium base alloys

NT3 alloy-u90nb7zr3

RT rare earth alloys

**ACTINIDE BURNER REACTORS**

INIS: 1980-07-24; ETDE: 1979-03-28

Reactors which convert radioactive waste actinides to useful or less harmful elements by fission reactions.

\*BT1 fast reactors

RT radioactive waste disposal

**ACTINIDE COMPLEXES**

1996-07-18

UF lawrencium complexes

BT1 complexes

NT1 actinium complexes

NT1 americium complexes

NT1 berkelium complexes

NT1 californium complexes

NT1 curium complexes

NT1 einsteinium complexes

NT1 fermium complexes

NT1 mendelevium complexes

NT1 neptunium complexes

NT2 neptunyl complexes

NT1 nobelium complexes

NT1 plutonium complexes

NT2 plutonyl complexes

NT1 protactinium complexes

NT1 thorium complexes

NT1 uranium complexes

NT2 uranyl complexes

**ACTINIDE COMPOUNDS**

NT1 actinium compounds

NT1 americium compounds

NT2 americium carbonates

NT2 americium chlorides

NT2 americium fluorides

NT2 americium hydrides

NT2 americium hydroxides

NT2 americium nitrates

NT2 americium nitrides

NT2 americium oxides

NT2 americium perchlorates

NT2 americium phosphates

NT1 berkelium compounds

NT2 berkelium chlorides

NT2 berkelium fluorides

NT2 berkelium nitrates

NT2 berkelium oxides

NT1 californium compounds

NT2 californium bromides

NT2 californium chlorides

NT2 californium fluorides

NT2 californium oxides

NT1 curium compounds

NT2 curium chlorides

NT2 curium fluorides

NT2 curium iodides

NT2 curium nitrates

NT2 curium oxides

NT1 einsteinium compounds

NT2 einsteinium bromides

NT2 einsteinium chlorides

NT2 einsteinium nitrates

NT2 einsteinium oxides

NT1 fermium compounds

NT2 fermium bromides

NT1 lawrencium compounds

NT1 mendelevium compounds

NT1 neptunium compounds

NT2 neptunium arsenides

NT2 neptunium bromides

NT2 neptunium carbides

NT2 neptunium carbonates

NT2 neptunium chlorides

NT2 neptunium fluorides

NT2 neptunium hydrides

NT2 neptunium hydroxides

NT2 neptunium iodides

NT2 neptunium nitrates

NT2 neptunium nitrides

NT2 neptunium oxides

NT2 neptunium perchlorates

NT2 neptunium phosphides

NT2 neptunium selenides

NT2 neptunium sulfates

NT2 neptunium sulfides

NT2 neptunium tellurides

NT2 neptunyl compounds

NT1 nobelium compounds

NT1 plutonium compounds

NT2 plutonium arsenides

NT2 plutonium borides

NT2 plutonium carbides

NT2 plutonium carbonates

NT2 plutonium chlorides

NT2 plutonium fluorides

NT2 plutonium hydrides

NT2 plutonium hydroxides

NT2 plutonium iodides

NT2 plutonium nitrates

NT2 plutonium nitrides

NT2 plutonium oxides

NT3 plutonium dioxide

NT2 plutonium phosphates

NT2 plutonium phosphides

NT2 plutonium selenides

NT2 plutonium sulfates

NT2	plutonium sulfides	NT3	uranyl perchlorates	NT1	californium 247
NT2	plutonium tellurides	NT3	uranyl phosphates	NT1	californium 248
NT2	plutonyl compounds	NT3	uranyl silicates	NT1	californium 249
NT1	protactinium compounds	NT3	uranyl sulfates	NT1	californium 250
NT2	protactinium bromides			NT1	californium 251
NT2	protactinium chlorides			NT1	californium 252
NT2	protactinium fluorides			NT1	californium 253
NT2	protactinium oxides			NT1	californium 254
NT1	thorium compounds			NT1	californium 255
NT2	thorium arsenides			NT1	californium 256
NT2	thorium borides			NT1	curium 232
NT2	thorium bromides			NT1	curium 236
NT2	thorium carbides			NT1	curium 237
NT2	thorium carbonates			NT1	curium 238
NT2	thorium chlorides			NT1	curium 239
NT2	thorium fluorides			NT1	curium 240
NT2	thorium hydrides			NT1	curium 241
NT2	thorium hydroxides			NT1	curium 242
NT2	thorium iodides			NT1	curium 243
NT2	thorium nitrates			NT1	curium 244
NT2	thorium nitrides			NT1	curium 245
NT2	thorium oxides			NT1	curium 246
NT3	thorotrast			NT1	curium 247
NT2	thorium phosphates			NT1	curium 248
NT2	thorium phosphides			NT1	curium 249
NT2	thorium selenides			NT1	curium 250
NT2	thorium silicates			NT1	curium 251
NT2	thorium silicides			NT1	curium 252
NT2	thorium sulfates			NT1	curium 252
NT2	thorium sulfides			NT1	einsteinium 243
NT2	thorium tellurides			NT1	einsteinium 244
NT1	uranium compounds			NT1	einsteinium 245
NT2	uranates			NT1	einsteinium 246
NT3	ammonium uranates			NT1	einsteinium 247
NT4	adu			NT1	einsteinium 248
NT3	cesium uranates			NT1	einsteinium 249
NT3	lithium uranates			NT1	einsteinium 250
NT3	potassium uranates			NT1	einsteinium 251
NT3	rubidium uranates			NT1	einsteinium 252
NT3	sodium uranates			NT1	einsteinium 253
NT3	strontium uranates			NT1	einsteinium 254
NT2	uranium arsenides			NT1	einsteinium 255
NT2	uranium borides			NT1	einsteinium 256
NT2	uranium borohydrides			NT1	fermium 242
NT2	uranium bromides			NT1	fermium 243
NT2	uranium carbides			NT1	fermium 244
NT2	uranium carbonates			NT1	fermium 245
NT2	uranium chlorides			NT1	fermium 246
NT2	uranium fluorides			NT1	fermium 247
NT3	uranium hexafluoride			NT1	fermium 248
NT3	uranium pentafluoride			NT1	fermium 249
NT3	uranium tetrafluoride			NT1	fermium 250
NT2	uranium hydrides			NT1	fermium 251
NT2	uranium hydroxides			NT1	fermium 252
NT2	uranium iodides			NT1	fermium 253
NT2	uranium nitrates			NT1	fermium 254
NT2	uranium nitrides			NT1	fermium 255
NT2	uranium oxides			NT1	fermium 256
NT3	uranium dioxide			NT1	fermium 257
NT3	uranium oxides u3o8			NT1	fermium 258
NT3	uranium trioxide			NT1	fermium 259
NT2	uranium perchlorates			NT1	lawrencium 252
NT2	uranium peroxide			NT1	lawrencium 253
NT2	uranium phosphates			NT1	lawrencium 254
NT2	uranium phosphides			NT1	lawrencium 255
NT2	uranium selenides			NT1	lawrencium 256
NT2	uranium silicates			NT1	lawrencium 257
NT2	uranium silicides			NT1	lawrencium 258
NT2	uranium sulfates			NT1	lawrencium 259
NT2	uranium sulfides			NT1	lawrencium 260
NT2	uranium tellurides			NT1	lawrencium 261
NT2	uranium vanadates			NT1	lawrencium 262
NT2	uranyl compounds			NT1	lawrencium 263
NT3	auc			NT1	mendelevium 247
NT3	uranyl carbonates			NT1	mendelevium 248
NT3	uranyl chlorides			NT1	mendelevium 249
NT3	uranyl fluorides			NT1	mendelevium 250
NT3	uranyl nitrates			NT1	mendelevium 251
NT4	unh			NT1	mendelevium 252
				NT1	mendelevium 253

**actinide isotopes**

*INIS: 2000-04-12; ETDE: 1976-05-17*  
(Prior to March 1997 this was a valid ETDE descriptor.)

USE actinide nuclei

**ACTINIDE NUCLEI**

1996-01-11

UF actinide isotopes

\*BT1 heavy nuclei

NT1 actinium 207  
 NT1 actinium 208  
 NT1 actinium 209  
 NT1 actinium 210  
 NT1 actinium 211  
 NT1 actinium 212  
 NT1 actinium 213  
 NT1 actinium 214  
 NT1 actinium 215  
 NT1 actinium 216  
 NT1 actinium 217  
 NT1 actinium 218  
 NT1 actinium 219  
 NT1 actinium 220  
 NT1 actinium 221  
 NT1 actinium 222  
 NT1 actinium 223  
 NT1 actinium 224  
 NT1 actinium 225  
 NT1 actinium 226  
 NT1 actinium 227  
 NT1 actinium 228  
 NT1 actinium 229  
 NT1 actinium 230  
 NT1 actinium 231  
 NT1 actinium 232  
 NT1 actinium 233  
 NT1 actinium 234  
 NT1 americium 232  
 NT1 americium 233  
 NT1 americium 234  
 NT1 americium 235  
 NT1 americium 236  
 NT1 americium 237  
 NT1 americium 238  
 NT1 americium 239  
 NT1 americium 240  
 NT1 americium 241  
 NT1 americium 242  
 NT1 americium 243  
 NT1 americium 244  
 NT1 americium 245  
 NT1 americium 246  
 NT1 americium 247  
 NT1 berkelium 240  
 NT1 berkelium 241  
 NT1 berkelium 242  
 NT1 berkelium 243  
 NT1 berkelium 244  
 NT1 berkelium 245  
 NT1 berkelium 246  
 NT1 berkelium 247  
 NT1 berkelium 248  
 NT1 berkelium 249  
 NT1 berkelium 250  
 NT1 berkelium 251  
 NT1 californium 238  
 NT1 californium 239  
 NT1 californium 240  
 NT1 californium 241  
 NT1 californium 242  
 NT1 californium 243  
 NT1 californium 244  
 NT1 californium 245  
 NT1 californium 246

NT1 mendelevium 254  
 NT1 mendelevium 255  
 NT1 mendelevium 256  
 NT1 mendelevium 257  
 NT1 mendelevium 258  
 NT1 mendelevium 259  
 NT1 mendelevium 260  
 NT1 mendelevium 261  
 NT1 neptunium 225  
 NT1 neptunium 226  
 NT1 neptunium 227  
 NT1 neptunium 228  
 NT1 neptunium 229  
 NT1 neptunium 230  
 NT1 neptunium 231  
 NT1 neptunium 232  
 NT1 neptunium 233  
 NT1 neptunium 234  
 NT1 neptunium 235  
 NT1 neptunium 236  
 NT1 neptunium 237  
 NT1 neptunium 238  
 NT1 neptunium 239  
 NT1 neptunium 240  
 NT1 neptunium 241  
 NT1 neptunium 242  
 NT1 neptunium 243  
 NT1 neptunium 244  
 NT1 nobelium 250  
 NT1 nobelium 251  
 NT1 nobelium 252  
 NT1 nobelium 253  
 NT1 nobelium 254  
 NT1 nobelium 255  
 NT1 nobelium 256  
 NT1 nobelium 257  
 NT1 nobelium 258  
 NT1 nobelium 259  
 NT1 nobelium 260  
 NT1 nobelium 261  
 NT1 nobelium 262  
 NT1 nobelium 264  
 NT1 plutonium 228  
 NT1 plutonium 229  
 NT1 plutonium 230  
 NT1 plutonium 231  
 NT1 plutonium 232  
 NT1 plutonium 233  
 NT1 plutonium 234  
 NT1 plutonium 235  
 NT1 plutonium 236  
 NT1 plutonium 237  
 NT1 plutonium 238  
 NT1 plutonium 239  
 NT1 plutonium 240  
 NT1 plutonium 241  
 NT1 plutonium 242  
 NT1 plutonium 243  
 NT1 plutonium 244  
 NT1 plutonium 245  
 NT1 plutonium 246  
 NT1 plutonium 247  
 NT1 plutonium 248  
 NT1 plutonium 250  
 NT1 protactinium 212  
 NT1 protactinium 213  
 NT1 protactinium 214  
 NT1 protactinium 215  
 NT1 protactinium 216  
 NT1 protactinium 217  
 NT1 protactinium 218  
 NT1 protactinium 219  
 NT1 protactinium 220  
 NT1 protactinium 221  
 NT1 protactinium 222  
 NT1 protactinium 223  
 NT1 protactinium 224  
 NT1 protactinium 225  
 NT1 protactinium 226

NT1 protactinium 227  
 NT1 protactinium 228  
 NT1 protactinium 229  
 NT1 protactinium 230  
 NT1 protactinium 231  
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 NT1 protactinium 233  
 NT1 protactinium 234  
 NT1 protactinium 235  
 NT1 protactinium 236  
 NT1 protactinium 237  
 NT1 protactinium 238  
 NT1 protactinium 239  
 NT1 thorium 212  
 NT1 thorium 213  
 NT1 thorium 214  
 NT1 thorium 215  
 NT1 thorium 216  
 NT1 thorium 217  
 NT1 thorium 218  
 NT1 thorium 219  
 NT1 thorium 220  
 NT1 thorium 221  
 NT1 thorium 222  
 NT1 thorium 223  
 NT1 thorium 224  
 NT1 thorium 225  
 NT1 thorium 226  
 NT1 thorium 227  
 NT1 thorium 228  
 NT1 thorium 229  
 NT1 thorium 230  
 NT1 thorium 231  
 NT1 thorium 232  
 NT1 thorium 233  
 NT1 thorium 234  
 NT1 thorium 235  
 NT1 thorium 236  
 NT1 thorium 237  
 NT1 thorium 238  
 NT1 uranium 218  
 NT1 uranium 219  
 NT1 uranium 222  
 NT1 uranium 223  
 NT1 uranium 224  
 NT1 uranium 225  
 NT1 uranium 226  
 NT1 uranium 227  
 NT1 uranium 228  
 NT1 uranium 229  
 NT1 uranium 230  
 NT1 uranium 231  
 NT1 uranium 232  
 NT1 uranium 233  
 NT1 uranium 234  
 NT1 uranium 235  
 NT1 uranium 236  
 NT1 uranium 237  
 NT1 uranium 238  
 NT1 uranium 239  
 NT1 uranium 240  
 NT1 uranium 241  
 NT1 uranium 242

#### ACTINIDES

\*BT1 metals  
 NT1 actinium  
 NT1 americium  
 NT1 berkelium  
 NT1 californium  
 NT1 curium  
 NT1 einsteinium  
 NT1 fermium  
 NT1 lawrencium  
 NT1 mendelevium  
 NT1 neptunium  
   NT2 neptunium-alpha  
   NT2 neptunium-gamma  
 NT1 nobelium

NT1 plutonium  
   NT2 plutonium-alpha  
   NT2 plutonium-beta  
   NT2 plutonium-delta  
   NT2 plutonium-epsilon  
   NT2 plutonium-gamma  
 NT1 protactinium  
 NT1 thorium  
   NT2 thorium-alpha  
   NT2 thorium-beta  
 NT1 uranium  
   NT2 depleted uranium  
   NT2 enriched uranium  
     NT3 highly enriched uranium  
     NT3 moderately enriched uranium  
     NT3 slightly enriched uranium  
   NT2 natural uranium  
   NT2 uranium-alpha  
   NT2 uranium-beta  
   NT2 uranium-gamma  
 RT transplutonium elements  
 RT transuranium elements

#### ACTINIUM

\*BT1 actinides

#### ACTINIUM 207

*INIS: 1994-12-22; ETDE: 1995-01-03*

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

#### ACTINIUM 208

*INIS: 1994-12-22; ETDE: 1995-01-03*

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

#### ACTINIUM 209

*INIS: 1986-05-12; ETDE: 1986-07-03*

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

#### ACTINIUM 210

*INIS: 1986-05-12; ETDE: 1989-06-23*

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

#### ACTINIUM 211

*INIS: 1986-05-12; ETDE: 1986-07-03*

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

#### ACTINIUM 212

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

#### ACTINIUM 213

\*BT1 actinide nuclei  
 \*BT1 actinium isotopes  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**ACTINIUM 214***INIS: 1986-05-12; ETDE: 1986-07-03*

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ACTINIUM 215***1982-06-09*

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**ACTINIUM 216**

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 alpha decay radioisotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-odd nuclei

**ACTINIUM 217**

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 alpha decay radioisotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei

**ACTINIUM 218***INIS: 1977-03-01; ETDE: 1976-12-15*

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 alpha decay radioisotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-odd nuclei

**ACTINIUM 219***INIS: 1985-06-07; ETDE: 1985-05-31*

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 alpha decay radioisotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-even nuclei

**ACTINIUM 220***INIS: 1976-07-06; ETDE: 1976-05-17*

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 alpha decay radioisotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**ACTINIUM 221**

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 alpha decay radioisotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**ACTINIUM 222**

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ACTINIUM 223**

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ACTINIUM 224**

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei

**ACTINIUM 225**

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 odd-even nuclei

**ACTINIUM 226**

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-odd nuclei

**ACTINIUM 227**

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 years living radioisotopes

**ACTINIUM 227 TARGET***INIS: 1975-10-23; ETDE: 1976-07-09*

- BT1 targets

**ACTINIUM 228**

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei

**ACTINIUM 229**

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei

**ACTINIUM 230**

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ACTINIUM 231**

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ACTINIUM 232***1978-01-16*

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ACTINIUM 233***INIS: 1983-09-05; ETDE: 1983-01-21*

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ACTINIUM 234***INIS: 1986-01-21; ETDE: 1986-02-21*

- \*BT1 actinide nuclei
- \*BT1 actinium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**actinium a**

USE polonium 215

**actinium additions***2000-04-12*

(Prior to August 1993 this was a valid ETDE descriptor.)

USE alloys

**actinium b**

USE lead 211

**actinium bromides***INIS: 1996-06-26; ETDE: 1975-10-28*

(Until June 1996 this was a valid descriptor.)

USE actinium compounds

USE bromides

**actinium c**

USE bismuth 211

**actinium c/***1983-02-03*

USE polonium 211

**actinium c//**

USE thallium 207

**actinium chlorides***INIS: 1996-06-26; ETDE: 1975-10-28*

(Until June 1996 this was a valid descriptor.)

USE actinium compounds

USE chlorides

**ACTINIUM COMPLEXES**

\*BT1 actinide complexes

**ACTINIUM COMPOUNDS***1996-11-13*

UF actinium bromides

UF actinium chlorides

UF actinium fluorides

UF actinium hydrides

UF actinium hydroxides

UF actinium oxides

UF actinium sulfates

BT1 actinide compounds

**actinium d**

USE lead 207

**actinium fluorides***INIS: 1996-06-26; ETDE: 1975-10-28*

(Until June 1996 this was a valid descriptor.)

USE actinium compounds

USE fluorides

**actinium hydrides***INIS: 1997-01-28; ETDE: 1984-12-27*

(Until October 1996 this was a valid descriptor.)

USE actinium compounds

USE hydrides

**actinium hydroxides***INIS: 1997-01-28; ETDE: 1977-11-10*

(Until October 1996 this was a valid descriptor.)

USE actinium compounds

USE hydroxides

**ACTINIUM IONS**

\*BT1 ions

**ACTINIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 actinium 207
- NT1 actinium 208
- NT1 actinium 209
- NT1 actinium 210
- NT1 actinium 211
- NT1 actinium 212
- NT1 actinium 213
- NT1 actinium 214
- NT1 actinium 215
- NT1 actinium 216
- NT1 actinium 217
- NT1 actinium 218
- NT1 actinium 219
- NT1 actinium 220
- NT1 actinium 221
- NT1 actinium 222
- NT1 actinium 223
- NT1 actinium 224
- NT1 actinium 225
- NT1 actinium 226
- NT1 actinium 227
- NT1 actinium 228
- NT1 actinium 229
- NT1 actinium 230
- NT1 actinium 231
- NT1 actinium 232
- NT1 actinium 233
- NT1 actinium 234

**actinium k**

USE francium 223

**actinium oxides**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE actinium compounds  
USE oxides

**actinium sulfates**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE actinium compounds  
USE sulfates

**actinium x**

USE radium 223

**ACTINOMYCES**

1997-06-19

- \*BT1 bacteria
- NT1 frankia
- RT nocardia

**ACTINOMYCIN**

- \*BT1 antibiotics
- \*BT1 antimetabolic drugs
- \*BT1 antineoplastic drugs

**ACTION INTEGRAL**

INIS: 1986-07-09; ETDE: 1986-04-11

An integral associated with the trajectory of a system in configuration space, equal to the sum of the integrals of the generalized momenta of the system over their canonically conjugate coordinates.

- BT1 integrals
- RT field theories
- RT mechanics

**ACTIVATED CARBON**

- BT1 adsorbents
- \*BT1 carbon
- RT adsorption
- RT charcoal

**ACTIVATED SLUDGE PROCESS**

INIS: 1994-09-29; ETDE: 1976-03-11

- \*BT1 waste processing
- RT petroleum refineries
- RT sewage

**activation (chemical)**

USE chemical activation

**activation (radio)**

USE radioactivation

**ACTIVATION ANALYSIS**

1999-05-04

(Before the introduction of the specific narrower terms in November 1978, all types of activation analysis were indexed to the above descriptor.)

- UF analysis (activation)
- UF radiochemical activation analysis
- \*BT1 nondestructive analysis
- NT1 charged-particle activation analysis
- NT1 neutron activation analysis
- NT1 photon activation analysis
- RT crime detection
- RT impurities
- RT neutron activation analyzers
- RT nuclear reaction analysis
- RT qualitative chemical analysis
- RT quantitative chemical analysis
- RT radioactivation
- RT substoichiometry

**ACTIVATION DETECTORS**

- \*BT1 neutron detectors
- RT fission foil detectors
- RT moderating detectors
- RT radiator counters
- RT threshold detectors

**ACTIVATION ENERGY**

- UF activation heat
- UF reactivity (chemical)
- BT1 energy
- RT arrhenius equation
- RT chemical activation
- RT chemical reaction kinetics
- RT excitation
- RT reaction kinetics

**activation heat**

USE activation energy

**activity (optical)**

INIS: 1977-06-13; ETDE: 2002-06-06

USE optical activity

**activity coefficient**

USE reaction kinetics  
USE thermodynamic activity

**ACTIVITY LEVELS**

1985-12-11

May be used in any field.

(Prior to 1986 RADIOACTIVITY was used for this concept if appropriate.)

- RT activity meters
- RT enzyme activity
- RT maximum permissible activity
- RT radioactivity
- RT solar activity

**ACTIVITY METERS**

- \*BT1 meters
- RT activity levels
- RT counting techniques

**activity transport**

INIS: 1976-05-07; ETDE: 1976-08-24

In reactor systems.

USE radioactivity transport

**ACTUATORS**

1975-08-22

Mechanism to activate process control equipment, e.g., valves.

- RT control equipment
- RT servomechanisms
- RT solenoids

**ACUPUNCTURE**

2003-06-05

BT1 medicine

**ACUTE EXPOSURE**

INIS: 1985-12-10; ETDE: 1978-06-14

For acute exposure to radiation, use ACUTE IRRADIATION.

- NT1 acute irradiation
- RT biological effects
- RT dose-response relationships
- RT environmental exposure
- RT toxicity

**ACUTE IRRADIATION**

- BT1 acute exposure
- BT1 irradiation
- RT latency period
- RT radiation syndrome

**ACYL RADICALS**

1996-07-16

(Prior to August 1996 BUTYRYL RADICALS was a valid ETDE descriptor.)

- UF butyryl radicals
- BT1 radicals
- NT1 acetyl radicals
- NT1 formyl radicals

**ACYLATION**

- BT1 chemical reactions
- NT1 acetylation
- NT1 benzoylation

**ADA**

INIS: 2000-04-12; ETDE: 1985-12-11

BT1 programming languages

**adamantane**

(Prior to February 1997 this was a valid ETDE descriptor.)

USE cycloalkanes

**adamellite**

INIS: 1984-11-30; ETDE: 1984-06-29

USE quartz monzonite

**adapted swimming pool reactor austria**

1993-11-03

USE astra reactor

**adaptive intrusion data systems**

INIS: 2000-04-12; ETDE: 1982-09-10

SEE intrusion detection systems

**ADAPTIVE SYSTEMS**

2004-05-28

Systems that have the ability to learn, change their state, or otherwise react to stimuli or changes in their environment.

- UF self-learning systems
- \*BT1 computerized control systems
- RT algorithms

**added mass effect**

INIS: 1976-03-17; ETDE: 1976-08-24

USE hydrodynamic mass effect

**ADDITIVES**

- SF chemicals
- NT1 demulsifiers
- NT1 emulsifiers
- NT2 detergents

**NT3** pluronics

**NT1** food additives

**NT1** fuel additives

*RT* catalysts

*RT* preservatives

*RT* solutes

*RT* xenobiotics

## ADDUCTS

*Chemical compounds with weak bonds, e.g. occlusive or Vander Waals bonds.*

**NT1** dna adducts

*RT* chemical bonds

*RT* clathrates

*RT* complexes

## ADENINES

*UF* 6-aminopurine

**\*BT1** amines

**\*BT1** antimetabolites

**\*BT1** purines

**NT1** kinetin

*RT* adenosine

*RT* adenylic acid

*RT* adp

*RT* amp

*RT* atp

*RT* vitamin b group

## adenocarcinomas

USE carcinomas

## ADENOMAS

**\*BT1** carcinomas

*RT* glands

## ADENOSINE

**\*BT1** nucleosides

*RT* adenines

*RT* atp

## adenosine diphosphate

USE adp

## adenosine monophosphate

USE amp

## adenosine triphosphatase

USE atp-ase

## adenosine triphosphate

USE atp

## ADENOVIRUS

**\*BT1** oncogenic viruses

## ADENYLIC ACID

1983-02-03

**\*BT1** nucleotides

*RT* adenines

## adgezator

USE electron-ring accelerators

## ADHESION

*RT* adhesives

*RT* agglomeration

*RT* bonding

*RT* coalescence

*RT* surface properties

## ADHESIVES

*RT* adhesion

*RT* binders

## ADIABATIC APPROXIMATION

**\*BT1** approximations

*RT* born-oppenheimer approximation

*RT* diabatic approximation

*RT* quantum mechanics

*RT* scattering

## ADIABATIC COMPRESSION

### HEATING

**\*BT1** plasma heating

## ADIABATIC DEMAGNETIZATION

*UF* demagnetization (adiabatic)

*UF* magnetic cooling

**BT1** demagnetization

*RT* cryogenics

*RT* magnetism

## ADIABATIC INVARIANCE

*RT* invariance principles

*RT* quantum mechanics

## ADIABATIC PROCESSES

*UF* processes (adiabatic)

**NT1** adiabatic surface ionization

*RT* isentropic processes

*RT* isothermal processes

*RT* thermodynamics

## adiabatic reformer processes

INIS: 2000-04-12; ETDE: 1981-03-17

USE autothermal reformer processes

## ADIABATIC SURFACE IONIZATION

ETDE: 1978-03-08

*UF* asi

**BT1** adiabatic processes

**\*BT1** surface ionization

## adiabatic toroidal compressors

USE atc devices

## ADIP PROCESS

2000-04-12

*Process for the substantial removal of hydrogen sulfide and the partial removal of incidental COS, carbon dioxide, and mercaptans.*

**\*BT1** desulfurization

## ADIPIC ACID

**\*BT1** dicarboxylic acids

## ADIPOSE TISSUE

**\*BT1** connective tissue

*RT* fat cells

*RT* fats

*RT* leptin

## ADIRONDACK MOUNTAINS

INIS: 1992-06-30; ETDE: 1983-10-11

**\*BT1** appalachian mountains

*RT* new york

## ADITYA TOKAMAK

1991-02-11

**\*BT1** tokamak devices

## ADJOINT DIFFERENCE METHOD

**BT1** calculation methods

*RT* neutron transport theory

*RT* one-dimensional calculations

*RT* three-dimensional calculations

*RT* two-dimensional calculations

## ADJOINT FLUX

**\*BT1** neutron flux

*RT* neutron importance function

*RT* perturbation theory

## adjustments

INIS: 2000-04-12; ETDE: 1979-12-10

(Prior to February 1997, this was a valid ETDE descriptor.)

SEE administrative procedures

## adl process

INIS: 2000-04-12; ETDE: 1978-03-09

*Arthur D. Little coal liquefaction process in which some hydrogen is added by the donor*

*solvent and carbon is removed as coke.*

*Process takes place at 80-100 psi and is similar to certain established petroleum refinery processes.*

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal liquefaction

## administration

USE management

## ADMINISTRATIVE PROCEDURES

INIS: 1996-02-12; ETDE: 1979-12-10

(Adjustments, decisions and orders, disbursements, interventions, investigations, and notices have been valid descriptors.)

*UF* interventions

*SF* adjustments

*SF* decisions and orders

*SF* disbursements

*SF* investigations

*SF* notices

**NT1** alternative work schedules

**NT1** appeals

**NT1** exceptions

**NT1** license applications

**NT1** licensing procedures

**NT1** notification procedures

**NT1** orders

**NT1** prohibition orders

**NT1** proposed remedial orders

**NT1** sanctions

*RT* agreements

*RT* compliance

*RT* debt collection

*RT* enforcement

*RT* hearings

*RT* implementation

*RT* laws

*RT* leasing

*RT* legal aspects

*RT* regulations

*RT* reporting requirements

*RT* time delay

*RT* violations

## ADOBE

INIS: 2000-04-12; ETDE: 1979-02-27

**\*BT1** building materials

*RT* bricks

*RT* clays

## ADOLESCENTS

1999-01-20

*Not limited to man, but referring to the stage between puberty and maturity.*

**BT1** age groups

*RT* adults

*RT* children

*RT* education

*RT* juveniles

*RT* life cycle

*RT* man

## ADONE

**BT1** storage rings

## ADP

*UF* adenosine diphosphate

**\*BT1** nucleotides

*RT* adenines

## ADRENAL GLANDS

*UF* cortex (adrenal)

**\*BT1** endocrine glands

*RT* acth

*RT* adrenal hormones

*RT* adrenalectomy

*RT* androgens

## ADRENAL HORMONES

**BT1** hormones



**NT1** adrenaline  
**NT1** corticosteroids  
**NT2** glucocorticoids  
**NT3** corticosterone  
**NT3** cortisone  
**NT3** dexamethasone  
**NT3** hydrocortisone  
**NT3** prednisolone  
**NT3** prednisone  
**NT2** mineralocorticoids  
**NT3** aldosterone  
**NT1** noradrenaline  
*RT* adrenal glands  
*RT* adrenalectomy  
*RT* androgens  
*RT* steroid hormones

**ADRENALECTOMY**

\*BT1 surgery  
*RT* adrenal glands  
*RT* adrenal hormones  
*RT* response modifying factors

**ADRENALINE**

*UF* epinephrine  
\*BT1 adrenal hormones  
\*BT1 cardiotonics  
\*BT1 neuroregulators  
\*BT1 sympathomimetics

**adrenergics**

*INIS: 2000-04-12; ETDE: 1981-05-18*  
USE sympathomimetics

**adrenergics-blocking agents**

*INIS: 2000-04-12; ETDE: 1981-04-20*  
USE sympatholytics

**adrenocorticotrophic hormone**

USE acth

**adriamycin**

*INIS: 1980-11-07; ETDE: 1980-04-14*  
USE doxorubicin

**ADRIATIC SEA**

*INIS: 1992-05-08; ETDE: 1975-10-01*  
\*BT1 mediterranean sea  
*RT* albania  
*RT* italy

**ADSORBENTS**

**NT1** activated carbon  
**NT1** bioadsorbents  
**NT1** charcoal  
**NT1** molecular sieves  
**NT1** silica gel  
*RT* adsorption  
*RT* chemisorption  
*RT* diatomaceous earth  
*RT* sorbent injection processes  
*RT* sorbent recovery systems  
*RT* sorptive properties

**ADSORPTION**

**BT1** sorption  
*RT* activated carbon  
*RT* adsorbents  
*RT* adsorption heat  
*RT* adsorption isotherms  
*RT* bioadsorbents  
*RT* chemisorption  
*RT* deposition  
*RT* desorption  
*RT* gettering  
*RT* hygroscopicity  
*RT* impregnation  
*RT* molecular sieves  
*RT* separation processes  
*RT* silica gel  
*RT* sorptive properties

*RT* surface properties  
*RT* surfaces  
*RT* van der waals forces

**ADSORPTION HEAT**

*UF* heat of adsorption  
\*BT1 enthalpy  
*RT* adsorption

**ADSORPTION ISOTHERMS**

**BT1** isotherms  
*RT* adsorption

**adsorptive properties**

*1992-02-23*  
USE sorptive properties

**adtt**

*2000-03-07*  
USE accelerator driven transmutation

**ADU**

*ETDE: 1976-01-07*  
*UF* ammonium diuranate  
\*BT1 ammonium uranates

**ADULTS**

*1999-01-20*  
**BT1** age groups  
**NT1** aged adults  
**NT2** elderly people  
*RT* adolescents  
*RT* life cycle  
*RT* man  
*RT* men  
*RT* metamorphosis  
*RT* populations  
*RT* reference man  
*RT* reproduction  
*RT* women

**ADVANCE MINING**

*INIS: 2000-04-12; ETDE: 1983-03-23*  
\*BT1 underground mining  
*RT* coal mining

**advanced automotive propulsion systems**

*INIS: 2000-04-12; ETDE: 1979-05-02*  
USE aaps

**ADVANCED COMPONENTS TEST FACILITY**

*INIS: 2000-04-12; ETDE: 1981-03-17*  
*The DOE solar thermal test facility operated by Georgia Tech.*

*UF* actf  
**BT1** test facilities  
*RT* central receivers  
*RT* tower focus collectors  
*RT* tower focus power plants

**advanced gas cooled graphite moderated reactor**

*1993-11-03*  
USE agr type reactors

**ADVANCED LIGHT SOURCE**

*INIS: 1992-08-17; ETDE: 1992-06-11*  
*Lawrence Berkeley Laboratory, California, USA.*  
*UF* als storage ring  
**BT1** storage rings  
\*BT1 synchrotron radiation sources  
*RT* accelerator facilities  
*RT* light sources  
*RT* x-ray sources

**ADVANCED PHOTON SOURCE**

*INIS: 1992-08-17; ETDE: 1992-06-11*  
*Argonne National Laboratory, Illinois, USA.*  
*UF* aps storage ring

**BT1** storage rings  
\*BT1 synchrotron radiation sources  
*RT* accelerator facilities  
*RT* light sources  
*RT* x-ray sources

**advanced reactivity measurement facility-1**

*1993-11-03*  
USE armf-1 reactor

**advanced test accelerator**

*INIS: 2000-04-12; ETDE: 1988-01-21*  
SEE ln advanced test accelerator

**advanced test idaho reactor**

*2000-04-12*  
USE atr reactor

**advanced test reactor critical facility**

*1993-11-03*  
USE atrc reactor

**advanced thermal reactor fugen**

*2000-04-12*  
USE jatr reactor

**advanced toroidal facility torsatron**

*INIS: 1993-11-03; ETDE: 2002-06-06*  
USE atf torsatron

**ADVECTION**

*INIS: 1976-02-24; ETDE: 1976-04-19*  
*The horizontal mass transport of a fluid as a result of current or pressure conditions.*

**BT1** mass transfer  
*RT* convection  
*RT* diffusion  
*RT* fluid flow  
*RT* osmosis  
*RT* water currents  
*RT* wind

**ADVENTITIOUS BUD TECHNIQUE**

*RT* mutants  
*RT* mutations  
*RT* plant breeding  
*RT* vegetative propagation

**adversaries**

*INIS: 2000-04-03; ETDE: 1976-07-07*  
(Prior to February 1997 this was a valid ETDE descriptor.)  
SEE interest groups  
SEE intervenors

**ADVERTISING**

*INIS: 1993-03-23; ETDE: 1979-03-27*  
*RT* communications  
*RT* consumer products  
*RT* marketing  
*RT* product labeling  
*RT* public relations

**ADVISORY COMMITTEES**

*INIS: 1996-08-05; ETDE: 1979-11-23*  
*UF* energy research advisory board  
*RT* decision making  
*RT* planning

**aec-nim**

*ETDE: 2002-06-06*  
USE nuclear instrument modules

**aecb canada**

*INIS: 1977-03-14; ETDE: 2002-06-06*  
USE canadian aecb

**aecl**

1977-09-06

(Prior to July 1985, this was a valid ETDE descriptor.)

USE atomic energy of canada ltd

**aecl radiochemical slowpoke reactor**

INIS: 1979-12-20; ETDE: 1980-01-24

USE slowpoke-ottawa reactor

**aedes**

USE mosquitoes

**AEG-PR-10 REACTOR**

KWU, Karlstein, Bayern, Federal Republic of Germany.

UF aeg pruefreaktor pr-10

UF grosswelzheim pr-10 reactor

UF pr-10 aeg pruefreaktor

\*BT1 argonaut type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**aeg pruefreaktor pr-10**

USE aeg-pr-10 reactor

**AEGEAN SEA**

INIS: 1992-08-10; ETDE: 1977-06-02

\*BT1 mediterranean sea

**aepr**

USE acoustic esr

**AERATION**

INIS: 1980-09-12; ETDE: 1976-09-14

RT air

RT bubbles

RT deaerators

RT gases

RT mixing

**AERE**

UF atomic energy research establishment

\*BT1 ukaea

**AERIAL MONITORING**

1999-01-20

For monitoring FROM the air, e.g. by airplanes or balloons; not for monitoring OF the air.

UF aerial surveying (radiation monitoring)

UF aircraft surveys

BT1 monitoring

RT accidents

RT aerial prospecting

RT aerial surveying

RT aerosols

RT air

RT aircraft

RT fallout

RT geophysical surveys

RT magnetic surveys

RT radiation monitoring

RT radioactive clouds

RT remote sensing

**AERIAL PROSPECTING**

BT1 prospecting

RT aerial monitoring

RT aerial surveying

RT exploration

RT magnetic surveys

RT radiometric surveys

RT remote sensing

RT seasat satellites

**AERIAL SURVEYING**

INIS: 1985-12-10; ETDE: 1977-07-23

For surveying from the air, e.g. by aircraft.

RT aerial monitoring

RT aerial prospecting

RT aircraft

RT landsat satellites

RT magnetic surveys

RT remote sensing

**aerial surveying (radiation monitoring)**

INIS: 1993-11-03; ETDE: 2002-06-06

USE aerial monitoring

**AEROBACTER**

\*BT1 bacteria

RT coliforms

RT intestines

RT soils

**AEROBIC CONDITIONS**

INIS: 1983-02-04; ETDE: 1975-11-28

RT aerobic digestion

RT biodegradation

RT decomposition

RT oxygen enhancement ratio

**AEROBIC DIGESTION**

INIS: 1997-06-19; ETDE: 1975-10-28

BT1 bioconversion

BT1 digestion

RT aerobic conditions

RT batch culture

RT continuous culture

RT microorganisms

RT semibatch culture

RT waste processing

**AERODYNAMIC HEATING**

INIS: 1994-09-08; ETDE: 1982-02-11

The heating of a body produced by the passage of air or other gases over its surface.

BT1 heating

RT aerodynamics

RT fluid flow

RT fluid mechanics

**AERODYNAMICS**

\*BT1 fluid mechanics

RT aerodynamic heating

RT aircraft

RT airfoils

RT compressible flow

RT gas flow

RT mach number

RT parachutes

RT particle resuspension

RT reentry

RT subsonic flow

RT supersonic flow

RT transonic flow

RT wind tunnels

**AEROJET-GENERAL NUCLEONICS REACTORS**

1994-08-12

UF agn reactor series

\*BT1 enriched uranium reactors

\*BT1 research reactors

\*BT1 solid homogeneous reactors

\*BT1 thermal reactors

\*BT1 training reactors

**AEROMONAS**

INIS: 1993-07-12; ETDE: 1979-07-18

\*BT1 bacteria

**AEROSOL GENERATORS**

UF generators (aerosol)

RT aerosols

RT nozzles

**AEROSOL MONITORING**

\*BT1 air pollution monitoring

RT aerosols

RT air pollution monitors

RT air samplers

RT cascade impactors

RT radiation monitoring

RT radioactive aerosols

RT smoke detectors

**AEROSOL WASTES**

BT1 wastes

NT1 fly ash

RT aerosols

RT air pollution

RT waste disposal

**AEROSOLS**

(From April 1987 till February 1997 ARCTIC HAZE was also a valid ETDE descriptor.)

UF fumes

\*BT1 sols

NT1 radioactive aerosols

NT1 smokes

NT2 tobacco smokes

RT acoustic agglomerators

RT aerial monitoring

RT aerosol generators

RT aerosol monitoring

RT aerosol wastes

RT air

RT air pollution

RT air pollution monitoring

RT atomization

RT condensation nuclei

RT diffusion chambers

RT droplets

RT dusts

RT fallout

RT filters

RT flow visualization

RT inhalation

RT particle resuspension

RT particle size

RT particles

RT particulates

RT radioactive clouds

RT respirators

RT sedimentation

RT smoke detectors

RT total suspended particulates

RT ventilation

**AEROSPACE INDUSTRY**

INIS: 1992-03-12; ETDE: 1977-07-23

BT1 industry

RT aircraft

RT space vehicles

**aerospace system test reactor**

2000-04-12

USE astr reactor

**aerowindows**

INIS: 2000-04-12; ETDE: 1984-08-20

USE air curtains

**aeschynite**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE oxide minerals

USE thorium minerals

**aesr**

USE acoustic esr

**AESTHETICS**

INIS: 1983-06-30; ETDE: 1978-03-03

UF esthetics

RT architecture

RT environmental engineering

RT environmental impacts

RT human factors

RT land reclamation

RT landscaping

RT ornamental plants  
 RT pollution  
 RT public opinion  
 RT public relations  
 RT recreational areas  
 RT social impact  
 RT socio-economic factors  
 RT sociology  
 RT urban areas  
 RT water reclamation

**aestivation**

INIS: 2000-04-12; ETDE: 1978-12-20  
*The state of torpidity or dormancy induced by heat and dryness of summer.*  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE hibernation

**aet (aminoethylthiopseudourea)**

ETDE: 2005-02-01  
 (Prior to January 2005 AET was a valid descriptor.)  
 USE beta-aminoethyl isothiurea

**afars and issas**

INIS: 2000-04-12; ETDE: 1979-12-10  
 (Prior to June 1994, this was a valid ETDE descriptor.)  
 USE djibouti

**AFFINITY**

UF electron affinity  
 RT chemical properties  
 RT chemical reactions  
 RT electronegativity  
 RT free energy

**affirmative action**

INIS: 2000-04-12; ETDE: 1980-09-22  
*Positive action undertaken to overcome under representation of women and minority groups in employment and in post-secondary student bodies, as compared with the composition of the area population.*  
 (Prior to December 1991 this was a valid ETDE descriptor.)  
 USE us affirmative action program

**affri reactor**

2000-04-12  
 USE affri reactor

**AFGHAN ORGANIZATIONS**

2004-03-31  
 BT1 national organizations

**AFGHANISTAN**

BT1 asia  
 BT1 developing countries

**aflatoxin**

2000-04-12  
 (Prior to October 1990 this was a valid ETDE descriptor.)  
 USE aflatoxins

**AFLATOXINS**

INIS: 1983-02-03; ETDE: 1984-01-27  
 UF aflatoxin  
 \*BT1 mycotoxins  
 RT aspergillus  
 RT toxicity

**afm**

INIS: 2000-04-12; ETDE: 1999-09-09  
 USE atomic force microscopy

**afr storage**

INIS: 1980-04-02; ETDE: 1979-05-09  
 USE away-from-reactor storage

**AFRICA**

1997-01-06

NT1 algeria  
 NT1 angola  
 NT1 benin  
 NT1 botswana  
 NT1 burkina faso  
 NT1 burundi  
 NT1 cameroon  
 NT1 central african republic  
 NT1 chad  
 NT1 congo peoples republic  
 NT2 brazzaville  
 NT1 cote d'ivoire  
 NT1 democratic republic of the congo  
 NT2 kinshasa  
 NT1 djibouti  
 NT1 egyptian arab republic  
 NT1 eritrea  
 NT1 ethiopia  
 NT1 gabon  
 NT1 gambia  
 NT1 ghana  
 NT1 guinea  
 NT1 kenya  
 NT1 lesotho  
 NT1 liberia  
 NT1 libyan arab jamahiriya  
 NT1 madagascar  
 NT2 malagasy republic  
 NT1 malawi  
 NT1 mali  
 NT1 mauritania  
 NT1 morocco  
 NT1 mozambique  
 NT1 namibia  
 NT1 niger  
 NT1 nigeria  
 NT1 republic of seychelles  
 NT1 rwanda  
 NT1 senegal  
 NT1 sierra leone  
 NT1 somalia  
 NT1 south africa  
 NT2 transvaal  
 NT1 sudan  
 NT1 swaziland  
 NT1 togo  
 NT1 tunisia  
 NT1 uganda  
 NT1 united republic of tanzania  
 NT1 zambia  
 NT1 zimbabwe  
 NT2 southern rhodesia  
 RT arab countries

**AFRRI REACTOR**

1989-10-24

*Armed Forces Radiobiology Research Institute, Bethesda, Maryland, USA.*  
 UF affri reactor  
 UF defense atomic support agency triga-mk-f  
 UF triga-f-dasa reactor  
 \*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors  
 \*BT1 triga type reactors

**AFSR REACTOR**

ANL/INEEL, Idaho, USA.

UF argonne fast source reactor  
 UF fast source reactor aec  
 \*BT1 air cooled reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 fast reactors  
 \*BT1 research reactors

**AFTER-HEAT**

*Heat derived from residual radioactivity after a reactor has been shut down.*  
 SF decay heat  
 RT after-heat removal  
 RT away-from-reactor storage  
 RT fuel cooling time  
 RT reactor shutdown  
 RT residual power  
 RT spent fuel storage

**AFTER-HEAT REMOVAL**

UF decay heat removal  
 UF pahr  
 UF removal (after-heat)  
 UF residual-heat removal  
 UF rhr  
 BT1 removal  
 RT after-heat  
 RT rhr systems

**AFTERBURNERS**

INIS: 2000-04-12; ETDE: 1975-11-11  
*Air pollution control devices for recombustion of gaseous effluents, using a flame, spark ignition, or some other system to ignite the gases.*  
 UF automobile exhaust reactors  
 UF vapor incinerators  
 \*BT1 pollution control equipment  
 RT air pollution control  
 RT automobiles  
 RT combustion  
 RT exhaust gases  
 RT exhaust systems

**AFTERGLOW**

RT electric discharges  
 RT phosphorescence

**AFTERLOADING**

INIS: 1976-08-17; ETDE: 1976-11-01  
*Method in radiotherapy whereby empty applicators are first positioned and the radiation source inserted automatically after the personnel has withdrawn.*  
 \*BT1 radiotherapy  
 RT internal irradiation  
 RT irradiation procedures  
 RT radiation source implants

**AFTERSHOCKS**

INIS: 2000-04-12; ETDE: 1978-06-14  
*Earthquakes which follow a larger earthquake and originate at or near the focus of the larger earthquake.*  
 RT earthquakes  
 RT foreshocks  
 RT microearthquakes

**AFUDC**

INIS: 2000-04-12; ETDE: 1978-11-14  
 UF allowance for funds used during construction  
 RT accounting  
 RT construction  
 RT cwip  
 RT public utilities  
 RT regulations

**AGAR**

\*BT1 colloids  
 \*BT1 polysaccharides

**AGATA REACTOR**

*Institute of Nuclear Research, Swierk, Poland.*  
 UF swierk agata reactor  
 \*BT1 beryllium moderated reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 zero power reactors

**AGE DEPENDENCE**

- RT growth  
 RT life span  
 RT menopause  
 RT ripening

**AGE ESTIMATION**

- UF dating  
 UF geochronology  
 NT1 isotope dating  
 RT archaeology  
 RT cultural objects  
 RT fission tracks  
 RT geologic ages  
 RT paleontology

**AGE GROUPS**

1999-01-20

- NT1 adolescents  
 NT1 adults  
 NT2 aged adults  
 NT3 elderly people  
 NT1 children  
 NT2 infants  
 RT embryos  
 RT fetuses  
 RT juveniles  
 RT larvae  
 RT life cycle  
 RT man  
 RT neonates  
 RT populations  
 RT pupae

**AGE HARDENING**

- BT1 hardening  
 RT aging  
 RT precipitation hardening

**aged**

INIS: 2000-04-12; ETDE: 1978-02-14

- USE elderly people

**AGED ADULTS**

INIS: 1999-01-20; ETDE: 1983-03-07

- \*BT1 adults  
 NT1 elderly people  
 RT life cycle  
 RT man

**agedoite**

- USE asparagine

**agencia brasil-argentina contabil controle mater nuclear**

INIS: 1999-06-22; ETDE: 2002-06-06

- USE abacc

**agesta-r3 reactor**

- USE agesta reactor

**AGESTA REACTOR**

Agesta, Stockholm, Sweden.

- UF agesta-r3 reactor  
 UF r-3/adam reactor  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 \*BT1 power reactors  
 \*BT1 process heat reactors  
 \*BT1 thermal reactors

**AGGLOMERATING ASH PROCESS**

1992-10-16

Process utilizing self-agglomerating fluidized-bed coal burner for producing synthesis gas by steam gasification of coal.

- UF agglomerating burner gasification process  
 \*BT1 coal gasification

**agglomerating burner gasification process**

INIS: 2000-04-12; ETDE: 1976-09-14

- USE agglomerating ash process

**AGGLOMERATION**

1985-12-10

- UF aggregation  
 RT adhesion  
 RT briquetting  
 RT caking  
 RT coalescence  
 RT compacting  
 RT crystallization  
 RT granulation  
 RT particle size  
 RT pelletizing  
 RT precipitation  
 RT sintering

**agglutination**

- USE antigen-antibody reactions

**AGGLUTININS**

1999-01-21

- BT1 antibodies  
 NT1 hemagglutinins  
 NT2 concanavalin a  
 NT2 phytohemagglutinin

**aggregation**

INIS: 1985-12-10; ETDE: 1978-04-27

- USE agglomeration

**AGING**

For biological aging use LIFE CYCLE or LIFE SPAN.

- NT1 quench aging  
 NT1 strain aging  
 RT age hardening  
 RT heat treatments  
 RT weathering

**agip nucleare**

1996-07-16

(Until July 1996 this was a valid descriptor.)

- USE italian organizations

**agn reactor series**

INIS: 1980-04-02; ETDE: 1980-05-06

- USE aerojet-general nucleonics reactors

**agr reactor (windscale)**

- USE wagr reactor

**AGR TYPE REACTORS**

- UF advanced gas cooled graphite moderated reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 gcr type reactors  
 NT1 connah quay-b reactor  
 NT1 dungeness-b reactor  
 NT1 hartlepool reactor  
 NT1 heysham-a reactor  
 NT1 heysham-b reactor  
 NT1 hinkley point-b reactor  
 NT1 hunterston-b reactor  
 NT1 torness reactor  
 NT1 wagr reactor  
 RT carbon dioxide cooled reactors  
 RT power reactors

**AGREEMENTS**

- UF conventions  
 NT1 indemnification agreements  
 NT1 international agreements  
 NT2 atomic energy agreements  
 NT2 bcoclmnm  
 NT2 bcolons  
 NT2 bcstpc  
 NT2 bilateral agreements

- NT2 canare  
 NT2 cenna  
 NT2 cppnm  
 NT2 cscnd  
 NT2 iaea agreements  
 NT2 international convention on nuclear safety  
 NT2 lcpmpdpw  
 NT2 multilateral agreements  
 NT3 kyoto protocol  
 NT3 rio declaration  
 NT2 pcotpl  
 NT2 solas convention  
 NT2 vcoclnd  
 RT administrative procedures  
 RT contracts  
 RT cooperation  
 RT delivery  
 RT implementation  
 RT laws  
 RT leasing  
 RT negotiation  
 RT recommendations  
 RT regulations  
 RT third-party use

**agricultural cooperatives**

INIS: 2000-04-12; ETDE: 1993-07-09

- USE agriculture  
 USE cooperatives

**agricultural information system**

- USE agris

**agricultural residues**

INIS: 1991-12-11; ETDE: 1980-06-06

- USE agricultural wastes

**AGRICULTURAL WASTES**

INIS: 1991-12-11; ETDE: 1975-10-01

- UF agricultural residues  
 UF corn stover  
 UF stover  
 \*BT1 organic wastes  
 NT1 bagasse  
 NT1 manures  
 RT agriculture  
 RT biological wastes  
 RT straw

**AGRICULTURE**

- UF agricultural cooperatives  
 NT1 horticulture  
 RT agricultural wastes  
 RT agris  
 RT animal breeding  
 RT biomass plantations  
 RT crops  
 RT cultivation  
 RT cultivation techniques  
 RT domestic animals  
 RT drought resistance  
 RT ecosystems  
 RT fao  
 RT farms  
 RT fertilizer industry  
 RT fertilizers  
 RT food  
 RT gardening  
 RT grain disinfection  
 RT greenhouses  
 RT harvesting  
 RT hydroponic culture  
 RT irrigation  
 RT pest control  
 RT pesticides  
 RT plants  
 RT short rotation cultivation  
 RT silviculture  
 RT soil chemistry

RT soil conservation  
 RT soils  
 RT sterile insect release  
 RT sterile male technique

**agrini event**

INIS: 2000-04-12; ETDE: 1986-01-14  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE nuclear explosions  
 USE underground explosions

**AGRIS**

UF agricultural information system  
 BT1 information systems  
 RT agriculture  
 RT fao

**aguirre-1 reactor**

1990-12-05  
 (Prior to December 1990, this was a valid descriptor.)  
 USE north coast-1 reactor

**AGUIRRE REACTOR**

INIS: 2000-04-12; ETDE: 1976-08-04  
 Puerto Rico Nuclear Center, Jobos Bay, Puerto Rico, USA. Relocated and renamed NORTH COAST-1 REACTOR.  
 \*BT1 pwr type reactors  
 RT north coast-1 reactor

**AHARONOV-BOHM EFFECT**

INIS: 1991-09-25; ETDE: 1991-12-05  
 RT electromagnetic fields  
 RT gauge invariance  
 RT magnetic flux  
 RT phase shift  
 RT quantum mechanics

**ahfr reactor**

2000-04-12  
 USE cp-6 reactor

**AHUACHAPAN GEOTHERMAL FIELD**

INIS: 1992-06-04; ETDE: 1977-01-28  
 BT1 geothermal fields  
 RT el salvador

**ai aqueous carbonate process**

INIS: 2000-04-12; ETDE: 1977-05-07  
 Process utilizing aqueous sodium carbonate solution to sorb sulfur dioxide from power plant flue gas. Unique design features use of a spray dryer as an sulfur dioxide scrubber producing a product suitable for regeneration and complete reduction of the sodium salts in a molten pool.  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

**AI-L-77 REACTOR**

Atomics International/Rockwell International, Canoga Park, California, USA. Shut down in 1974.  
 UF atoms international l-77 reactor  
 UF l-77 atoms international reactor  
 \*BT1 aqueous homogeneous reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**aic-144 cyclotron**

INIS: 1982-07-22; ETDE: 1982-08-11  
 USE cracow aic-144 cyclotron

**AIDS**

INIS: 1986-08-26; ETDE: 1986-03-04  
 Acquired Immuno-Deficiency Syndrome.  
 UF acquired immunodeficiency syndrome  
 \*BT1 immune system diseases  
 \*BT1 viral diseases  
 RT aids virus  
 RT epidemiology  
 RT immunity  
 RT leukocytes  
 RT pathogenesis

**AIDS VIRUS**

INIS: 1986-05-23; ETDE: 1986-11-14  
 Virus responsible for Acquired Immuno-Deficiency Syndrome.  
 UF acquired immunodeficiency virus  
 UF hiv  
 UF htlv iii virus  
 UF human immune deficiency virus  
 UF lav virus  
 \*BT1 viruses  
 RT aids  
 RT immune reactions  
 RT immunity

**AIPFR REACTOR**

Atomics International Div., Rockwell International, Canoga Park, California, USA.  
 UF atoms international prototype fast reactor  
 \*BT1 fbr type reactors  
 \*BT1 power reactors  
 \*BT1 test reactors

**AIR**

\*BT1 gases  
 NT1 compressed air  
 NT1 surface air  
 RT aeration  
 RT aerial monitoring  
 RT aerosols  
 RT air conditioning  
 RT air curtains  
 RT air flow  
 RT air infiltration  
 RT aircraft  
 RT breath  
 RT carbon dioxide fixation  
 RT earth atmosphere  
 RT environmental materials  
 RT fallout  
 RT fuel-air ratio  
 RT inhalation  
 RT nitrogen fixation  
 RT radioactive clouds  
 RT respiration  
 RT respirators  
 RT respiratory system  
 RT troposphere  
 RT ventilation  
 RT wind

**AIR-BIOSPHERE INTERACTIONS**

INIS: 1992-03-18; ETDE: 1987-02-13  
 RT air-water interactions  
 RT environmental transport  
 RT mass transfer  
 RT mineral cycling

**AIR CLEANING**

UF air purification  
 BT1 cleaning  
 RT air cleaning systems  
 RT air conditioning  
 RT air filters  
 RT electrostatic precipitators  
 RT pollution control equipment  
 RT scrubbers  
 RT ventilation

**AIR CLEANING SYSTEMS**

INIS: 1992-01-15; ETDE: 1975-08-19  
 BT1 engineered safety systems  
 RT air cleaning  
 RT air conditioning  
 RT air filters  
 RT electrostatic precipitators  
 RT off-gas systems  
 RT pollution control equipment  
 RT scrubbers  
 RT ventilation  
 RT ventilation systems

**AIR CONDITIONERS**

1993-07-29  
 NT1 solar air conditioners  
 NT2 solar-assisted heat pumps  
 RT absorption refrigeration cycle  
 RT air conditioning  
 RT appliances  
 RT coefficient of performance  
 RT electric appliances  
 RT humidity recovery  
 RT refrigerating machinery  
 RT space hvac systems  
 RT vapor compression refrigeration cycle

**AIR CONDITIONING**

UF space cooling  
 NT1 geothermal air conditioning  
 NT1 solar air conditioning  
 RT air  
 RT air cleaning  
 RT air cleaning systems  
 RT air conditioners  
 RT air source heat pumps  
 RT annual cycle energy system  
 RT automotive accessories  
 RT ceiling fans  
 RT cooling  
 RT cooling load  
 RT degree days  
 RT environmental engineering  
 RT ground source heat pumps  
 RT heating  
 RT heating load  
 RT humidity control  
 RT radiative cooling  
 RT refrigerating machinery  
 RT temperature control  
 RT thermal insulation  
 RT ventilation  
 RT ventilation systems  
 RT water source heat pumps  
 RT working conditions

**AIR COOLED REACTORS**

\*BT1 gas cooled reactors  
 NT1 afsr reactor  
 NT1 bepo reactor  
 NT1 bgrr reactor  
 NT1 br-1 reactor  
 NT1 g-1 reactor  
 NT1 gleep reactor  
 NT1 harmonie reactor  
 NT1 hprr reactor  
 NT1 kalpakkam pfr reactor  
 NT1 masurca reactor  
 NT1 sneak reactor  
 NT1 stf reactor  
 NT1 tory-2a reactor  
 NT1 tory-2c reactor  
 NT1 treat reactor  
 NT1 windscale production reactors  
 NT1 x-10 reactor  
 NT1 xma-1 reactor  
 NT1 zed-2 reactor

**AIR CURTAINS**

INIS: 1992-08-24; ETDE: 1979-05-02

Compressed gas flow across openings to serve as thermal barriers.

- UF aerowindows
- RT air
- RT air infiltration
- RT buildings
- RT curtains
- RT doors
- RT gas flow

**AIR CUSHION VEHICLES**

INIS: 2000-04-12; ETDE: 1977-08-09

- UF ground-effect machines
- UF hovercraft
- UF surface-effect machines
- BT1 vehicles

**AIR FILTERS**

- BT1 filters
- \*BT1 pollution control equipment
- RT air cleaning
- RT air cleaning systems
- RT air pollution monitors
- RT scrubbers

**AIR FLOW**

INIS: 1991-09-18; ETDE: 1981-01-09

- \*BT1 gas flow
- RT air
- RT air infiltration
- RT atmospheric circulation
- RT ventilation
- RT ventilation systems

**air-fuel ratio**

INIS: 1992-07-20; ETDE: 1976-07-07

- USE fuel-air ratio

**AIR HEATERS**

1999-01-22

(Until January 1999 this concept was indexed in INIS by AIR and HEATERS.)

- UF air preheaters
- BT1 heaters
- NT1 solar air heaters
- RT heat
- RT heating

**AIR INFILTRATION**

INIS: 1997-06-19; ETDE: 1979-02-23

Air flow into an enclosed space, e.g. a building.

- SF caulking
- RT air
- RT air curtains
- RT air flow
- RT airtightness
- RT buildings
- RT energy conservation
- RT gas flow
- RT weatherstripping

**AIR POLLUTION**

For nonradioactive pollution only; for radioactive pollution use CONTAMINATION.

- UF thermal pollution (air)
- BT1 pollution
- NT1 indoor air pollution
- RT acid rain
- RT aerosol wastes
- RT aerosols
- RT air pollution abatement
- RT air pollution control
- RT air pollution monitoring
- RT air quality
- RT aitken nuclei
- RT atmospheric chemistry
- RT clean air acts
- RT environmental exposure

- RT exhaust systems
- RT fly ash
- RT greenhouse gases
- RT long-range transport
- RT mobile pollutant sources
- RT particle resuspension
- RT particulates
- RT plumes
- RT point pollutant sources
- RT scrubbers
- RT smog
- RT soot
- RT stationary pollutant sources
- RT temperature inversions
- RT total suspended particulates
- RT washout

**AIR POLLUTION ABATEMENT**

INIS: 1991-08-07; ETDE: 1976-06-07

The prevention of formation of pollutants at the source.

- SF prevention of significant deterioration
- SF psd
- BT1 pollution abatement
- RT air pollution
- RT air pollution control
- RT desulfurization
- RT low-emission vehicles
- RT staged combustion

**AIR POLLUTION CONTROL**

INIS: 1991-08-07; ETDE: 1977-03-04

The removal or management of pollutants after they are formed by a source.

- SF hitachi zosen process
- \*BT1 pollution control
- NT1 carbon sequestration
- RT afterburners
- RT air pollution
- RT air pollution abatement
- RT baghouses
- RT catalytic combustors
- RT catalytic converters
- RT electrostatic precipitators
- RT exhaust recirculation systems
- RT pollution control equipment
- RT scrubbers
- RT selective catalytic reduction

**AIR POLLUTION MONITORING**

INIS: 1991-08-08; ETDE: 1985-03-12

- BT1 monitoring
- NT1 aerosol monitoring
- RT aerosols
- RT air pollution
- RT air pollution monitors
- RT particulates

**AIR POLLUTION MONITORS**

INIS: 1991-09-18; ETDE: 1976-07-07

- UF monitors (air pollution)
- \*BT1 monitors
- RT aerosol monitoring
- RT air filters
- RT air pollution monitoring
- RT air samplers
- RT cascade impactors
- RT electrostatic precipitators

**air preheaters**

1999-01-22

- USE air heaters

**air purification**

- USE air cleaning

**AIR QUALITY**

INIS: 1991-08-07; ETDE: 1976-01-07

- BT1 environmental quality
- RT air pollution

- RT clean air acts

**AIR SAMPLERS**

- \*BT1 samplers
- RT aerosol monitoring
- RT air pollution monitors
- RT cascade impactors
- RT radiation monitors

**AIR SOURCE HEAT PUMPS**

INIS: 2000-04-12; ETDE: 1979-07-24

- BT1 heat pumps
- RT air conditioning
- RT space heating

**AIR TRANSPORT**

INIS: 1976-12-08; ETDE: 1978-03-08

- BT1 transport
- NT1 supersonic transport
- RT aircraft

**air wall ionization chambers**

- USE bragg gray chambers

**AIR-WATER INTERACTIONS**

INIS: 1983-10-14; ETDE: 1980-08-12

- RT air-biosphere interactions
- RT carbon cycle
- RT environmental transport
- RT surface waters
- RT troposphere
- RT water waves

**airborne particles**

INIS: 1991-08-14; ETDE: 1981-09-08

(Prior to September 1981, this concept in ETDE was indexed to AEROSOLS and PARTICLES.)

- USE particulates

**airborne particulates**

1991-08-14

(Prior to September 1981, this concept in ETDE was indexed to AEROSOLS and PARTICLES.)

- USE particulates

**AIRCRAFT**

(AIRCRAFT COMPONENTS was a valid ETDE descriptor from August 1976 till February 1997; AIRSHIPS was a valid ETDE descriptor from January 1980 until March 1996.)

- UF aircraft components
- UF airships
- UF dirigibles
- UF lighter-than-air craft
- NT1 balloons
- NT1 helicopters
- NT1 space shuttles
- RT aerial monitoring
- RT aerial surveying
- RT aerodynamics
- RT aerospace industry
- RT air
- RT air transport
- RT airfoils
- RT airports
- RT flight testing
- RT navigation
- RT navigational instruments
- RT propulsion systems
- RT supersonic transport

**aircraft accidents**

- USE accidents

**aircraft components**

INIS: 2000-04-12; ETDE: 1976-08-24

Use a descriptor referring to the component and the descriptor below.

(Prior to February 1997 this was a valid ETDE descriptor.)

USE aircraft

**aircraft fuels**

2000-04-12

SEE gasoline

SEE jet engine fuels

**AIRCRAFT PROPULSION****REACTORS**

\*BT1 propulsion reactors

NT1 xma-1 reactor

**aircraft shield test reactor**

2000-04-12

USE astr reactor

**aircraft surveys**

INIS: 2000-04-12; ETDE: 1993-07-29

USE aerial monitoring

**AIRFOILS**

INIS: 1992-08-13; ETDE: 1975-08-19

RT aerodynamics

RT aircraft

**AIRGLOW**

UF dayglow

UF nightglow

RT aurorae

RT earth atmosphere

RT night sky

RT noctilucant clouds

**AIROX PROCESS**

INIS: 1980-07-24; ETDE: 1979-09-26

This method uses simple chemical oxidation and reduction reactions to simultaneously deacid and pulverize spent fuel, release the volatile fission products, and restore the fuel to the proper form for refabrication and recycle. This method is highly proliferation resistant.

UF atomics international reduction oxidation dry reprocessing

\*BT1 reprocessing

**AIRPORTS**

INIS: 1992-03-11; ETDE: 1975-11-11

RT aircraft

RT transportation systems

**airships**

INIS: 2000-04-12; ETDE: 1980-01-15

Propelled and steerable vehicles, dependent on gases for flotation.

(Prior to March 1996, this was a valid ETDE descriptor.)

USE aircraft

**AIRTIGHTNESS**

INIS: 1993-02-16; ETDE: 1979-02-23

RT air infiltration

RT buildings

RT leaks

RT space heating

RT ventilation

**AIRY FUNCTIONS**

BT1 functions

RT differential equations

**AITKEN NUCLEI**

INIS: 2000-04-12; ETDE: 1981-01-30

Microscopic particles in the atmosphere associated with atmospheric electrical phenomena.

RT air pollution

RT atmospheric precipitations

RT condensation nuclei

**ajman**

INIS: 1992-05-07; ETDE: 1976-08-05

USE united arab emirates

**akm muehleberg reactor**

USE muehleberg reactor

**akm reactor**

USE muehleberg reactor

**AKR-1 REACTOR**

2003-09-16

Technical Univ., Dresden, Federal Republic of Germany.

\*BT1 enriched uranium reactors

\*BT1 organic moderated reactors

\*BT1 solid homogeneous reactors

\*BT1 thermal reactors

\*BT1 training reactors

\*BT1 zero power reactors

**akwl rheinsberg reactor**

INIS: 1984-06-21; ETDE: 2002-06-06

USE rheinsberg akwl reactor

**ALABAMA**

1997-06-19

\*BT1 usa

RT chattahoochee river

RT chattanooga formation

RT tennessee river

RT tennessee valley region

RT us gulf coast

**ALAMOSITE**

2000-04-12

\*BT1 silicate minerals

RT lead silicates

**ALANINE-ALPHA**

UF aminopropionic acid-alpha

\*BT1 alanines

NT1 alanine-l

**ALANINE-BETA**

UF aminopropionic acid-beta

\*BT1 alanines

RT pantothenic acid

**ALANINE-L**

UF l-alanine

UF l-alanine-alpha

\*BT1 alanine-alpha

**ALANINES**

\*BT1 amino acids

NT1 alanine-alpha

NT2 alanine-l

NT1 alanine-beta

**alapa**

INIS: 2000-04-12; ETDE: 1979-11-23

As low as practicable.

SEE radiation protection

**ALARA**

INIS: 1981-02-27; ETDE: 1981-03-13

All exposures shall be kept As Low As Reasonably Achievable, economic and social factors being taken into account.

UF as low as reasonably achievable

RT icrp

RT optimization

RT radiation doses

RT radiation hazards

RT radiation protection

RT risk assessment

RT safety

RT shielding

RT working conditions

**alarm dosimeters**

USE radiation monitors

**ALARM SYSTEMS**

1999-01-25

UF audible alarm

UF warning systems

NT1 intrusion detection systems

NT1 motion detection systems

RT fire detectors

RT radiation monitoring

RT radiation monitors

RT reactor components

RT safety engineering

RT smoke detectors

**ALASKA**

UF alaska river

\*BT1 usa

RT alaskan north slope

RT aleutian islands

RT amchitka island area

RT chukchi sea

RT prudhoe bay

RT yukon river

**ALASKA GAS PIPELINE**

INIS: 2000-04-12; ETDE: 1976-11-17

BT1 pipelines

RT natural gas

**ALASKA OIL PIPELINE**

INIS: 1992-06-04; ETDE: 1976-11-17

UF transalaska pipeline

BT1 pipelines

RT alaskan north slope

RT permafrost

RT petroleum

**ALASKA POWER****ADMINISTRATION**

INIS: 1993-02-19; ETDE: 1980-03-29

UF apa

\*BT1 us doe

RT electric power

**alaska river**

INIS: 2000-04-12; ETDE: 1981-05-18

USE alaska

USE rivers

**ALASKAN NORTH SLOPE**

INIS: 1992-06-04; ETDE: 1979-12-10

RT alaska

RT alaska oil pipeline

RT permafrost

**alaskites**

INIS: 1984-11-30; ETDE: 1984-12-27

USE aplites

**ALBANIA**

BT1 developing countries

\*BT1 eastern europe

RT adriatic sea

RT alps

RT centrally planned economies

**ALBANIAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**ALBEDO**

RT illuminance

*RT* neutron transport theory  
*RT* reflection

**ALBEDO-NEUTRON DOSEMETERS**

\*BT1 dosimeters  
*RT* backscattering  
*RT* neutron dosimetry  
*RT* personnel monitoring

**ALBERTA**

\*BT1 canada  
*RT* athabasca deposit  
*RT* athabasca lake  
*RT* cold lake deposit  
*RT* peace river  
*RT* peace river deposit  
*RT* wabasca deposit

**alberta university slowpoke reactor**

*INIS*: 1993-11-03; *ETDE*: 2002-06-06  
 USE slowpoke-alberta reactor

**albite**

*INIS*: 1984-04-04; *ETDE*: 1976-11-29  
*A sodium aluminum silicate mineral; feldspar used as glaze in ceramics.*  
 (Prior to February 1997, this was a valid *ETDE* descriptor.)  
 USE feldspars

**albumen**

USE albumins

**ALBUMINS**

*UF* albumen  
*UF* hsa  
*UF* human serum albumin  
*UF* risa  
 \*BT1 proteins  
 NT1 luciferin  
*RT* albuminuria  
*RT* polyamides

**ALBUMINURIA**

*RT* albumins

**ALCATOR DEVICE**

*UF* massachusetts institute of technology alcator  
 \*BT1 tokamak devices

**ALCOHOL DEHYDROGENASE**

*INIS*: 1993-04-08; *ETDE*: 1986-04-11  
 \*BT1 hemiacetal dehydrogenases

**ALCOHOL FUEL CELLS**

1992-05-20  
 \*BT1 fuel cells  
 NT1 direct ethanol fuel cells  
 NT1 direct methanol fuel cells

**ALCOHOL FUELS**

*INIS*: 1992-05-21; *ETDE*: 1978-11-14  
*For pure alcohols, alcohol-water mixtures, or alcohol with additives; for alcohol-gasoline mixtures use GASOHOL.*  
 \*BT1 liquid fuels  
 \*BT1 synthetic fuels  
 NT1 ethanol fuels  
 NT1 methanol fuels  
*RT* alcohols  
*RT* automotive fuels  
*RT* gasohol

**alcoholates**

USE alkoxides

**ALCOHOLS**

1996-10-23  
*UF* alkylates  
*UF* amino alcohols  
*UF* batyl alcohol  
*UF* geraniol

*UF* methyl-fuel  
*UF* octadecyl glyceryl ether-alpha  
 \*BT1 hydroxy compounds  
 NT1 2-methylpropanol  
 NT1 benzhydryl  
 NT1 benzyl alcohol  
 NT1 butanols  
 NT1 choline  
 NT1 cyclohexanol  
 NT1 decanols  
 NT1 enols  
 NT1 erythritol  
 NT1 ethanol  
 NT1 glycerol  
 NT1 glycols  
 NT2 butanediols  
 NT2 cellosolves  
 NT2 egta  
 NT2 pinacol  
 NT2 polyethylene glycols  
 NT3 carbowax  
 NT3 pluronics  
 NT1 hexanols  
 NT1 methanol  
 NT1 metronidazole  
 NT1 misonidazole  
 NT1 octanols  
 NT1 pentanols  
 NT1 propanols  
 NT1 pva  
*RT* alcohol fuels  
*RT* alkoxides  
*RT* gasohol

**ALDEHYDE-LYASES**

*INIS*: 2000-04-12; *ETDE*: 1981-01-12  
 Code number 4.1.2.  
 \*BT1 carbon-carbon lyases

**ALDEHYDES**

*UF* aldehydo acids  
 BT1 organic compounds  
 NT1 acetaldehyde  
 NT1 acrolein  
 NT1 aldosterone  
 NT1 arabinose  
 NT1 benzaldehyde  
 NT1 chloral  
 NT1 deoxyribose  
 NT1 formaldehyde  
 NT1 furfural  
 NT1 galactose  
 NT1 galacturonic acid  
 NT1 glucose  
 NT1 glucuronic acid  
 NT1 glyoxal  
 NT1 glyoxylic acid  
 NT1 mannose  
 NT1 pyridoxal  
 NT1 ribose  
 NT1 xylose  
*RT* hydrazones  
*RT* imines  
*RT* lyases  
*RT* oximes  
*RT* semicarbazones

**aldehydo acids**

USE aldehydes  
 USE carboxylic acids

**ALDER-WINTER THEORY**

2000-04-12  
*RT* angular distribution

**aldermaston reactor merlin**

2000-04-12  
 USE merlin reactor

**aldolase**

*INIS*: 2000-04-12; *ETDE*: 1981-01-30  
 Use ALDOLASES for this concept.  
 (From January 1981 to October 1990, this was a valid *ETDE* descriptor.)  
 USE aldolases

**ALDOLASES**

(From January 1981 to October 1990 this was an invalid *ETDE* descriptor and material was indexed to ALDOLASE.)  
*UF* aldolase  
 \*BT1 carbon-carbon lyases

**ALDOSTERONE**

\*BT1 aldehydes  
 \*BT1 mineralocorticoids  
*RT* tubules

**ALDRIN**

*INIS*: 1976-05-07; *ETDE*: 1976-08-04  
 \*BT1 chlorinated aromatic hydrocarbons  
 \*BT1 insecticides

**ALEUTIAN ISLANDS**

BT1 islands  
 NT1 amchitka island area  
*RT* alaska  
*RT* bering sea  
*RT* nuclear explosions  
*RT* pacific ocean

**ALFALFA**

\*BT1 leguminosae

**ALFVEN WAVES**

BT1 hydromagnetic waves  
*RT* plasma waves

**ALGAE**

1997-06-19  
 BT1 plants  
 NT1 chlorophycota  
 NT2 acetabularia  
 NT2 chlamydomonas  
 NT2 chlorella  
 NT2 nitella  
 NT2 scenedesmus  
 NT1 chromophycota  
 NT2 diatoms  
 NT2 fucus  
 NT2 laminaria  
 NT1 lichens  
 NT1 rhodophycota  
 NT2 porphyra  
 NT1 ulva  
 NT1 unicellular algae  
 NT2 chlamydomonas  
 NT2 chlorella  
 NT2 euglena  
 NT2 scenedesmus  
*RT* aquatic organisms  
*RT* biological fouling  
*RT* eutrophication  
*RT* phycobilisomes  
*RT* phytoplankton

**ALGEBRA**

BT1 mathematics  
*RT* graded lie groups  
*RT* quantum groups

**ALGEBRAIC CURRENTS**

*UF* currents (algebraic)  
 BT1 currents  
 NT1 axial-vector currents  
 NT1 charged currents  
 NT2 weak charged currents  
 NT1 neutral currents  
 NT2 weak neutral currents  
 NT1 second-class currents  
 NT1 vector currents



*RT* current algebra  
*RT* current commutators  
*RT* current divergences

**ALGEBRAIC FIELD THEORY**

*INIS:* 1977-11-21; *ETDE:* 1978-03-08  
*UF* *haag-araki field theory*  
 \*BT1 axiomatic field theory

**ALGERIA**

BT1 africa  
 BT1 arab countries  
 BT1 developing countries  
*RT* oapec  
*RT* opec

**ALGERIAN ORGANIZATIONS**

2004-03-31  
 BT1 national organizations

**ALGINATES**

*RT* laminaria

**ALGINIC ACID**

\*BT1 colloids  
 \*BT1 polysaccharides  
*RT* carboxylic acids

**ALGOL**

BT1 programming languages

**ALGORITHMS**

1999-01-25  
 BT1 mathematical logic  
*RT* adaptive systems  
*RT* calculation methods  
*RT* computer codes  
*RT* data-flow processing  
*RT* functions  
*RT* mathematical evolution  
*RT* mathematical solutions  
*RT* mathematics  
*RT* parallel processing  
*RT* vector processing

**ali**

*INIS:* 1985-04-23; *ETDE:* 2002-06-06  
 USE annual limit of intake

**ALICE**

\*BT1 magnetic mirrors

**ALICE CYCLOTRON**

*UF* *orsay alice cyclotron*  
 \*BT1 isochronous cyclotrons

**ALIGNED COUPLING SCHEME**

*UF* *stretch model*  
*RT* coupling  
*RT* deformed nuclei  
*RT* particle-hole model  
*RT* projection operators  
*RT* shell models  
*RT* slater method

**ALIGNMENT**

*Not for the concept covered by the descriptor NUCLEAR ALIGNMENT.*  
*RT* beam optics  
*RT* positioning

**ALIZARIN**

*UF* *1,2-dihydroxyanthraquinone*  
*UF* *anthraquinonic acid*  
 \*BT1 anthraquinones  
 BT1 dyes  
 \*BT1 hydroxy compounds  
 BT1 reagents

**alkali gabbros**

*INIS:* 2000-04-12; *ETDE:* 1980-08-12  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE plutonic rocks

**ALKALI METAL COMPLEXES**

1996-07-18  
 (Prior to March 1997 FRANCIUM COMPLEXES was a valid ETDE descriptor.)

*UF* *francium complexes*  
 BT1 complexes  
 NT1 cesium complexes  
 NT1 potassium complexes  
 NT1 rubidium complexes  
 NT1 sodium complexes

**ALKALI METAL COMPOUNDS**

NT1 cesium compounds  
 NT2 cesium bromides  
 NT2 cesium carbides  
 NT2 cesium carbonates  
 NT2 cesium chlorides  
 NT2 cesium fluorides  
 NT2 cesium hydrides  
 NT2 cesium hydroxides  
 NT2 cesium iodides  
 NT2 cesium nitrates  
 NT2 cesium oxides  
 NT2 cesium perchlorates  
 NT2 cesium phosphates  
 NT2 cesium selenides  
 NT2 cesium silicates  
 NT2 cesium silicides  
 NT2 cesium sulfates  
 NT2 cesium sulfides  
 NT2 cesium tellurides  
 NT2 cesium tungstates  
 NT2 cesium uranates

NT1 francium compounds  
 NT1 lithium compounds  
 NT2 lithium arsenides  
 NT2 lithium borides  
 NT2 lithium carbides  
 NT2 lithium carbonates  
 NT2 lithium halides  
 NT3 lithium bromides  
 NT3 lithium chlorides  
 NT3 lithium fluorides  
 NT3 lithium iodides  
 NT2 lithium hydrides  
 NT3 lithium deuterides  
 NT3 lithium tritides

NT2 lithium hydroxides  
 NT2 lithium nitrates  
 NT2 lithium nitrides  
 NT2 lithium oxides  
 NT2 lithium perchlorates  
 NT2 lithium phosphates  
 NT2 lithium phosphides  
 NT2 lithium selenides  
 NT2 lithium silicates  
 NT2 lithium silicides  
 NT2 lithium sulfates  
 NT2 lithium sulfides  
 NT2 lithium tellurides  
 NT2 lithium titanates  
 NT2 lithium tungstates  
 NT2 lithium uranates

NT1 potassium compounds  
 NT2 potassium borides  
 NT2 potassium bromides  
 NT2 potassium carbides  
 NT2 potassium carbonates  
 NT2 potassium chlorides  
 NT2 potassium fluorides  
 NT2 potassium hydrides  
 NT2 potassium hydroxides  
 NT2 potassium iodides

NT2 potassium nitrates  
 NT2 potassium nitrides  
 NT2 potassium oxides  
 NT2 potassium perchlorates  
 NT2 potassium phosphates  
 NT2 potassium phosphides  
 NT2 potassium selenides  
 NT2 potassium silicates  
 NT2 potassium sulfates  
 NT2 potassium sulfides  
 NT2 potassium tellurides  
 NT2 potassium tungstates  
 NT2 potassium uranates  
 NT2 potassium vanadates  
 NT2 rochelle salt

NT1 rubidium compounds  
 NT2 rubidium bromides  
 NT2 rubidium carbides  
 NT2 rubidium carbonates  
 NT2 rubidium chlorides  
 NT2 rubidium fluorides  
 NT2 rubidium hydrides  
 NT2 rubidium hydroxides  
 NT2 rubidium iodides  
 NT2 rubidium nitrates  
 NT2 rubidium oxides  
 NT2 rubidium perchlorates  
 NT2 rubidium phosphates  
 NT2 rubidium selenides  
 NT2 rubidium silicates  
 NT2 rubidium silicides  
 NT2 rubidium sulfates  
 NT2 rubidium sulfides  
 NT2 rubidium tellurides  
 NT2 rubidium tungstates  
 NT2 rubidium uranates

NT1 sodium compounds  
 NT2 borax  
 NT2 rochelle salt  
 NT2 sodium borides  
 NT2 sodium bromides  
 NT2 sodium carbides  
 NT2 sodium carbonates  
 NT2 sodium chlorides  
 NT2 sodium fluorides  
 NT2 sodium hydrides  
 NT2 sodium hydroxides  
 NT2 sodium iodides  
 NT2 sodium nitrates  
 NT2 sodium nitrides  
 NT2 sodium oxides  
 NT3 sodium tungsten bronze  
 NT2 sodium perchlorates  
 NT2 sodium phosphates  
 NT2 sodium selenides  
 NT2 sodium silicates  
 NT2 sodium sulfates  
 NT2 sodium sulfides  
 NT2 sodium tellurides  
 NT2 sodium tungstates  
 NT2 sodium uranates  
 NT2 tiron

**alkali metal isotopes**

*INIS:* 2000-04-12; *ETDE:* 1976-10-13  
 Use the descriptor below or one(s) for the specific alkali metal isotopes.  
 (Prior to February 1997, this was a valid ETDE descriptor.)  
 USE isotopes

**ALKALI METALS**

\*BT1 metals  
 NT1 cesium  
 NT1 francium  
 NT1 lithium  
 NT1 potassium  
 NT1 rubidium  
 NT1 sodium

**ALKALINE EARTH ISOTOPES***INIS: 1999-02-01; ETDE: 1997-03-31*

BT1 isotopes  
 NT1 barium isotopes  
 NT2 barium 114  
 NT2 barium 115  
 NT2 barium 116  
 NT2 barium 117  
 NT2 barium 118  
 NT2 barium 119  
 NT2 barium 120  
 NT2 barium 121  
 NT2 barium 122  
 NT2 barium 123  
 NT2 barium 124  
 NT2 barium 125  
 NT2 barium 126  
 NT2 barium 127  
 NT2 barium 128  
 NT2 barium 129  
 NT2 barium 130  
 NT2 barium 131  
 NT2 barium 132  
 NT2 barium 133  
 NT2 barium 134  
 NT2 barium 135  
 NT2 barium 136  
 NT2 barium 137  
 NT2 barium 138  
 NT2 barium 139  
 NT2 barium 140  
 NT2 barium 141  
 NT2 barium 142  
 NT2 barium 143  
 NT2 barium 144  
 NT2 barium 145  
 NT2 barium 146  
 NT2 barium 147  
 NT2 barium 148  
 NT2 barium 149  
 NT1 beryllium isotopes  
 NT2 beryllium 10  
 NT2 beryllium 11  
 NT2 beryllium 12  
 NT2 beryllium 13  
 NT2 beryllium 14  
 NT2 beryllium 5  
 NT2 beryllium 6  
 NT2 beryllium 7  
 NT2 beryllium 8  
 NT2 beryllium 9  
 NT1 calcium isotopes  
 NT2 calcium 35  
 NT2 calcium 36  
 NT2 calcium 37  
 NT2 calcium 38  
 NT2 calcium 39  
 NT2 calcium 40  
 NT2 calcium 41  
 NT2 calcium 42  
 NT2 calcium 43  
 NT2 calcium 44  
 NT2 calcium 45  
 NT2 calcium 46  
 NT2 calcium 47  
 NT2 calcium 48  
 NT2 calcium 49  
 NT2 calcium 50  
 NT2 calcium 51  
 NT2 calcium 52  
 NT2 calcium 53  
 NT1 magnesium isotopes  
 NT2 magnesium 19  
 NT2 magnesium 20  
 NT2 magnesium 21  
 NT2 magnesium 22  
 NT2 magnesium 23  
 NT2 magnesium 24  
 NT2 magnesium 25

NT2 magnesium 26  
 NT2 magnesium 27  
 NT2 magnesium 28  
 NT2 magnesium 29  
 NT2 magnesium 30  
 NT2 magnesium 31  
 NT2 magnesium 32  
 NT2 magnesium 33  
 NT2 magnesium 34  
 NT2 magnesium 35  
 NT2 magnesium 36  
 NT2 magnesium 39  
 NT2 magnesium 40  
 NT1 radium isotopes  
 NT2 radium 205  
 NT2 radium 206  
 NT2 radium 207  
 NT2 radium 208  
 NT2 radium 209  
 NT2 radium 210  
 NT2 radium 211  
 NT2 radium 212  
 NT2 radium 213  
 NT2 radium 214  
 NT2 radium 215  
 NT2 radium 216  
 NT2 radium 217  
 NT2 radium 218  
 NT2 radium 219  
 NT2 radium 220  
 NT2 radium 221  
 NT2 radium 222  
 NT2 radium 223  
 NT2 radium 224  
 NT2 radium 225  
 NT2 radium 226  
 NT2 radium 227  
 NT2 radium 228  
 NT2 radium 229  
 NT2 radium 230  
 NT2 radium 231  
 NT2 radium 232  
 NT2 radium 233  
 NT2 radium 234  
 NT1 strontium isotopes  
 NT2 strontium 100  
 NT2 strontium 101  
 NT2 strontium 102  
 NT2 strontium 75  
 NT2 strontium 76  
 NT2 strontium 77  
 NT2 strontium 78  
 NT2 strontium 79  
 NT2 strontium 80  
 NT2 strontium 81  
 NT2 strontium 82  
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 NT2 strontium 88  
 NT2 strontium 89  
 NT2 strontium 90  
 NT2 strontium 91  
 NT2 strontium 92  
 NT2 strontium 93  
 NT2 strontium 94  
 NT2 strontium 95  
 NT2 strontium 96  
 NT2 strontium 97  
 NT2 strontium 98  
 NT2 strontium 99

**ALKALINE EARTH METAL COMPLEXES**

BT1 complexes  
 NT1 barium complexes  
 NT1 beryllium complexes

NT1 calcium complexes  
 NT1 magnesium complexes  
 NT1 radium complexes  
 NT1 strontium complexes

**ALKALINE EARTH METAL COMPOUNDS**

NT1 barium compounds  
 NT2 barium borides  
 NT2 barium bromides  
 NT2 barium carbides  
 NT2 barium carbonates  
 NT2 barium chlorides  
 NT2 barium fluorides  
 NT2 barium hydrides  
 NT2 barium hydroxides  
 NT2 barium iodides  
 NT2 barium nitrates  
 NT2 barium nitrides  
 NT2 barium oxides  
 NT2 barium perchlorates  
 NT2 barium phosphates  
 NT2 barium silicates  
 NT2 barium sulfates  
 NT2 barium sulfides  
 NT2 barium tungstates  
 NT1 beryllium compounds  
 NT2 beryllium borides  
 NT2 beryllium bromides  
 NT2 beryllium carbides  
 NT2 beryllium carbonates  
 NT2 beryllium chlorides  
 NT2 beryllium fluorides  
 NT2 beryllium hydrides  
 NT2 beryllium hydroxides  
 NT2 beryllium nitrates  
 NT2 beryllium nitrides  
 NT2 beryllium oxides  
 NT2 beryllium phosphates  
 NT2 beryllium selenides  
 NT2 beryllium silicates  
 NT2 beryllium sulfates  
 NT2 beryllium tellurides  
 NT1 calcium compounds  
 NT2 calcium borides  
 NT2 calcium carbides  
 NT2 calcium carbonates  
 NT2 calcium halides  
 NT3 calcium bromides  
 NT3 calcium chlorides  
 NT3 calcium fluorides  
 NT3 calcium iodides  
 NT2 calcium hydrides  
 NT2 calcium hydroxides  
 NT2 calcium nitrates  
 NT2 calcium nitrides  
 NT2 calcium oxides  
 NT2 calcium perchlorates  
 NT2 calcium phosphates  
 NT2 calcium silicates  
 NT2 calcium silicides  
 NT2 calcium sulfates  
 NT2 calcium sulfides  
 NT2 calcium tungstates  
 NT1 magnesium compounds  
 NT2 grignard reagents  
 NT2 magnesium arsenides  
 NT2 magnesium borides  
 NT2 magnesium bromides  
 NT2 magnesium carbides  
 NT2 magnesium carbonates  
 NT2 magnesium chlorides  
 NT2 magnesium fluorides  
 NT2 magnesium hydrides  
 NT2 magnesium hydroxides  
 NT2 magnesium iodides  
 NT2 magnesium nitrates  
 NT2 magnesium nitrides  
 NT2 magnesium oxides

- NT2 magnesium perchlorates  
 NT2 magnesium phosphates  
 NT2 magnesium silicates  
 NT2 magnesium silicides  
 NT2 magnesium sulfates  
 NT2 magnesium sulfides  
 NT2 magnesium tellurides  
 NT1 radium compounds  
 NT2 radium bromides  
 NT2 radium chlorides  
 NT2 radium nitrates  
 NT2 radium nitrides  
 NT2 radium oxides  
 NT2 radium sulfates  
 NT1 strontium compounds  
 NT2 strontium bromides  
 NT2 strontium carbides  
 NT2 strontium carbonates  
 NT2 strontium chlorides  
 NT2 strontium fluorides  
 NT2 strontium hydrides  
 NT2 strontium hydroxides  
 NT2 strontium iodides  
 NT2 strontium nitrates  
 NT2 strontium oxides  
 NT2 strontium perchlorates  
 NT2 strontium phosphates  
 NT2 strontium silicates  
 NT2 strontium sulfates  
 NT2 strontium sulfides  
 NT2 strontium titanates  
 NT2 strontium tungstates  
 NT2 strontium uranates

**ALKALINE EARTH METALS**

- \*BT1 metals  
 NT1 barium  
 NT1 beryllium  
 NT1 calcium  
 NT1 magnesium  
 NT1 radium  
 NT1 strontium

**ALKALINE ELECTROLYTE FUEL CELLS**

INIS: 1992-05-20; ETDE: 1989-04-12

- \*BT1 fuel cells

**alkaline flooding**

INIS: 2000-04-12; ETDE: 1981-07-06

- USE caustic flooding

**ALKALINE HYDROLYSIS**

INIS: 1999-03-10; ETDE: 1980-01-15

- \*BT1 hydrolysis  
 RT acid hydrolysis  
 RT enzymatic hydrolysis

**ALKALINE PHOSPHATASE**

Code number 3.1.3.1.

- \*BT1 phosphatases

**alkalinity**

INIS: 2000-04-12; ETDE: 1984-08-06

- USE acid neutralizing capacity

**alkalis (hydroxides)**

INIS: 2000-04-12; ETDE: 1979-06-06

- USE hydroxides

**ALKALIZED ALUMINA PROCESS**

INIS: 2000-04-12; ETDE: 1977-12-22

SOX is adsorbed on alkalized alumina, the spent adsorbent regenerated at 1200 degrees F with producer gas.

- \*BT1 desulfurization  
 RT waste processing

**ALKALOIDS**

1996-07-18

(CODEINONE, CINCHONINE, and HYOSCYAMINE have been valid ETDE descriptors.)

- UF cinchonine  
 UF codeinone  
 UF hyoscyamine  
 BT1 organic compounds  
 NT1 atropine  
 NT1 cocaine  
 NT1 codeine  
 NT1 colchicine  
 NT1 ephedrine  
 NT1 ergotamine  
 NT1 eserine  
 NT1 lysergic acid  
 NT1 morphine  
 NT2 thebaine  
 NT1 nicotine  
 NT1 oncovin  
 NT1 pilocarpine  
 NT1 quinine  
 NT1 reserpine  
 NT1 strychnine  
 NT1 vinblastine  
 RT medicinal plants  
 RT plants

**ALKANES**

- UF paraffins  
 \*BT1 hydrocarbons  
 NT1 2-2-dimethylpropane  
 NT1 2-methylbutane  
 NT1 2-methylpropane  
 NT1 butane  
 NT1 cycloalkanes  
 NT2 cyclohexane  
 NT2 decalin  
 NT1 decane  
 NT1 dodecane  
 NT1 ethane  
 NT1 heptane  
 NT1 hexadecane  
 NT1 hexane  
 NT1 methane  
 NT1 octane  
 NT1 paraffin  
 NT1 pentane  
 NT1 propane  
 NT1 squalane

**alkanoic acids**

- USE carboxylic acids

**alkazid process**

2000-04-12

Process for the selective absorption of hydrogen sulfide and for the simultaneous removal of hydrogen sulfide and carbon dioxide at atmospheric or higher pressures.

(Prior to March 1994, this was a valid ETDE descriptor.)

- USE desulfurization

**ALKENES**

- UF olefins  
 \*BT1 hydrocarbons  
 NT1 2-methylpropene  
 NT1 butenes  
 NT1 cycloalkenes  
 NT2 cyclopentadiene  
 NT2 norbornadiene  
 NT2 quadricyclene  
 NT1 ethylene  
 NT1 heptenes  
 NT1 hexenes  
 NT1 octenes  
 NT1 pentenes  
 NT1 propylene

- RT polyenes

**alkenoic acids**

- USE carboxylic acids

**alkines**

- USE alkynes

**ALKOXIDES**

INIS: 1982-02-10; ETDE: 1981-08-04

A group of compounds in which a hydrogen atom of an alcohol or phenol hydroxide group is replaced by a metal.

- UF alcoholates  
 RT alcohols  
 RT phenols

**ALKOXY RADICALS**

- BT1 radicals  
 NT1 butoxy radicals  
 NT1 ethoxy radicals  
 NT1 methoxy radicals

**ALKYL BENZENESULFONATES**

ETDE: 2005-01-28

(Prior to January 2005 ABS was used for this concept.)

- UF abs (alkyl benzenesulfonates)  
 \*BT1 sulfonic acid esters

**ALKYL RADICALS**

1996-07-18

(Prior to March 1997 NONYL RADICALS was a valid ETDE descriptor.)

- UF nonyl radicals  
 BT1 radicals  
 NT1 allyl radicals  
 NT1 butyl radicals  
 NT1 dodecyl radicals  
 NT1 ethyl radicals  
 NT1 heptyl radicals  
 NT1 hexyl radicals  
 NT1 isobutyl radicals  
 NT1 isopropyl radicals  
 NT1 methyl radicals  
 NT1 octyl radicals  
 NT1 pentyl radicals  
 NT1 propargyl radicals  
 NT1 propyl radicals  
 NT1 vinyl radicals  
 RT alkylation

**ALKYLATED AROMATICS**

INIS: 1993-02-18; ETDE: 1984-07-20

Aromatic compounds which have one or more alkyl side chains, including isomers and mixtures.

- \*BT1 aromatics  
 NT1 mesitylene  
 NT1 methylnaphthalenes  
 NT1 styrene  
 NT1 toluene  
 NT1 xylenes  
 NT2 xylene-para

**alkylates**

- USE alcohols

**ALKYLATING AGENTS**

1999-01-25

- UF mannomustine  
 UF tem (triethylenemelamine)  
 UF tretamine  
 UF triethylenemelamine  
 NT1 endoxan  
 NT1 myleran  
 NT1 nitrogen mustard  
 RT alkylation  
 RT antimetabolites  
 RT antimitotic drugs  
 RT antineoplastic drugs  
 RT chemosterilants

**ALKYLATION**

- BT1 chemical reactions
- RT alkyl radicals
- RT alkylating agents

**alkylmagnesium compounds**

- USE grignard reagents

**ALKYNES**

- UF acetylenes
- UF alkynes
- \*BT1 hydrocarbons
- NT1 acetylene
- NT1 cycloalkynes
- NT1 propyne

**ALLANITE**

1996-11-13

(Prior to March 1997 ORTHITE was a valid ETDE descriptor.)

- UF orthite
- \*BT1 silicate minerals
- \*BT1 thorium minerals
- RT thorium silicates

**ALLANTOIN**

- \*BT1 imidazoles
- \*BT1 organic oxygen compounds
- RT urea

**ALLEGHENY RIVER**

- \*BT1 rivers
- RT new york
- RT pennsylvania

**ALLENE**

- UF propadiene
- \*BT1 dienes

**ALLENS CREEK-1 REACTOR**

Houston Lighting and Power Co., Wallis, Texas, USA. Canceled in 1982 before construction began.

- \*BT1 bwr type reactors

**ALLENS CREEK-2 REACTOR**

Houston Lighting and Power Co., Wallis, Texas, USA. Canceled in 1982 before construction began.

- \*BT1 bwr type reactors

**ALLERGY**

- BT1 pathological changes
- RT anaphylaxis
- RT antihistaminics
- RT eczema
- RT histamine
- RT immune system diseases
- RT immunity

**ALLIGATORS**

INIS: 2000-04-12; ETDE: 1977-03-04

- \*BT1 reptiles

**ALLIUM CEPA**

- \*BT1 onions

**ALLIUM SATIVUM**

1992-09-09

- \*BT1 liliopsida
- RT bulbs
- RT garlic

**ALLOCATIONS**

1985-12-10

- UF assignments
- UF curtailments
- UF rationing
- RT availability
- RT budgets
- RT distribution
- RT economic policy
- RT emissions trading

- RT energy policy
- RT entitlements program
- RT management
- RT planning
- RT shortages

**ALLOTROPY**

See also descriptors for specific allotropic forms, e.g., HELIUM-I, IRON-ALPHA, and URANIUM-BETA.

- RT crystal structure
- RT phase diagrams
- RT phase transformations

**allowance for funds used during construction**INIS: 2000-04-12; ETDE: 1978-11-14  
USE afudc**ALLOXAN**

- \*BT1 organic oxygen compounds
- \*BT1 pyrimidines

**alloy-0kh12n13m**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

- SEE chromium alloys
- SEE iron base alloys

**alloy-1915**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

- USE aluminium base alloys

**alloy-214x**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

- USE aluminium base alloys

**alloy-50kh4n6g12f2v**

INIS: 2000-04-12; ETDE: 1979-06-21

(Prior to 1989 this was a valid ETDE descriptor.)

- USE chromium alloys

**alloy-600 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

- USE inconel 600

**alloy-601 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

- USE alloy-ni61cr23fe14

**alloy-60t**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

- USE titanium base alloys

**alloy-617 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

- USE inconel 617

**alloy-625 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

- USE inconel 625

**alloy-671 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

- USE inconel 671

**alloy-690 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

- USE inconel 690

**alloy-706 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

- USE inconel 706

**alloy-713-1c**

2000-03-24

(Prior to July 1981 this was a valid term, and older information is so indexed.)

- USE inconel 713lc

**alloy-713lc (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

- USE inconel 713lc

**alloy-79nm**

INIS: 1996-11-13; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

- USE nickel base alloys

**alloy 800**

INIS: 2000-04-12; ETDE: 1978-09-11

- USE incoloy 800

**alloy 800h**

INIS: 2000-04-12; ETDE: 1982-02-23

- USE incoloy 800h

**alloy-800h (incoloy)**

INIS: 1990-06-25; ETDE: 2002-06-06

- USE incoloy 800h

**alloy-802 (incoloy)**

INIS: 1990-06-25; ETDE: 2002-06-06

- USE incoloy 802

**alloy-82 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-06

- USE inconel 82

**alloy-825 (incoloy)**

INIS: 1990-06-25; ETDE: 2002-06-06

- USE incoloy 825

**alloy-901 (incoloy)**

INIS: 1990-06-25; ETDE: 2002-06-06

- USE incoloy 901

**ALLOY-A-286**

1993-10-03

- \*BT1 steel-ni26cr15ti2mova1b

**ALLOY-AL95CU4**

1983-11-07

- \*BT1 aluminium base alloys
- \*BT1 copper alloys
- \*BT1 iron additions
- \*BT1 magnesium additions
- \*BT1 manganese additions
- \*BT1 silicon additions
- NT1 duralumin

**ALLOY-B-1900**

2000-04-12

- \*BT1 aluminium alloys
- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel base alloys
- \*BT1 tantalum alloys
- \*BT1 titanium alloys

**alloy-b-66**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

- USE niobium base alloys

**alloy-b-88**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

- USE niobium base alloys

**ALLOY-BI50PB25CD12SN12**

1983-11-07

- \*BT1 bismuth base alloys
- \*BT1 cadmium alloys
- \*BT1 lead alloys
- \*BT1 tin alloys
- NT1 wood metal

**ALLOY-C-103**

2000-04-12

- \*BT1 hafnium alloys
- \*BT1 niobium base alloys
- \*BT1 tantalum alloys
- \*BT1 titanium alloys
- \*BT1 tungsten alloys
- \*BT1 yttrium alloys
- \*BT1 zirconium alloys

**alloy-c-129y**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

- USE niobium base alloys

**alloy-cb-1**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

- USE niobium base alloys

**alloy-cb-752**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

- USE niobium base alloys

**alloy-ck-20**

1983-11-07

- USE steel-cr25ni20

**ALLOY-CO36CR22NI22W15FE3**

1983-11-07

- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 haynes alloys
- \*BT1 heat resisting alloys
- \*BT1 iron alloys
- \*BT1 lanthanum additions
- \*BT1 nickel alloys
- \*BT1 tungsten alloys
- NT1 haynes 188 alloy

**ALLOY-CO43CR20FE18NI13W3**

INIS: 1983-11-07; ETDE: 1984-01-27

- \*BT1 carbon additions
- \*BT1 chromium alloys
- \*BT1 cobalt base alloys
- \*BT1 iron alloys
- \*BT1 manganese alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel alloys
- \*BT1 tungsten alloys
- NT1 havar

**ALLOY-CO50FE50**

1983-11-07

- \*BT1 cobalt base alloys
- \*BT1 iron base alloys
- NT1 permendur

**alloy-co52cr17fe15mo3si3**

1983-11-07

- USE cobalt base alloys

**ALLOY-CO52FE35V10**

INIS: 1997-01-28; ETDE: 1983-11-23

- \*BT1 cobalt base alloys
- \*BT1 iron alloys
- \*BT1 vanadium alloys

**alloy-co52fe35v13**

INIS: 1996-07-16; ETDE: 1983-11-23

(Until July 1996 this was a valid descriptor.)

- USE cobalt base alloys
- USE iron alloys
- USE vanadium alloys

**ALLOY-CO54CR20W15NI10**

1983-11-07

- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 haynes alloys
- \*BT1 heat resisting alloys
- \*BT1 iron alloys
- \*BT1 nickel alloys
- \*BT1 stellite
- \*BT1 tungsten alloys
- NT1 alloy-hs-25
- NT1 haynes 25 alloy

**ALLOY-CO60CR30W4**

INIS: 1996-11-13; ETDE: 1983-11-22

(From 1974 till March 1997 HAYNES

STELLITE 6B was a valid ETDE descriptor.)

- UF haynes stellite 6b
- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 haynes alloys
- \*BT1 heat resisting alloys
- \*BT1 iron alloys
- \*BT1 nickel alloys
- \*BT1 stellite
- \*BT1 tungsten alloys
- NT1 stellite 6

**alloy-co62cr28mo6ni3**

INIS: 1997-01-28; ETDE: 1983-11-19

(Prior to September 1996 this was a valid ETDE descriptor.)

- USE haynes alloys
- USE stellite

**alloy-co64cr29w4**

INIS: 1996-07-17; ETDE: 1983-11-23

(Prior to August 1996 this was a valid ETDE descriptor. From October 1978 till August 1996 STELLITE 156 was also a valid ETDE descriptor.)

- USE chromium alloys
- USE stellite
- USE tungsten alloys

**alloy-co66cr26w6**

INIS: 1997-01-28; ETDE: 1984-07-10

(Until October 1996 this was a valid descriptor.)

- USE chromium alloys
- USE stellite
- USE tungsten alloys

**ALLOY-CU52NI47**

1983-11-07

- \*BT1 copper base alloys
- \*BT1 nickel alloys
- NT1 constantan

**ALLOY-CU70NI30**

INIS: 1992-03-09; ETDE: 1994-08-10

- \*BT1 copper base alloys

**ALLOY-CU90NI10**

INIS: 1992-03-09; ETDE: 1994-08-10

- \*BT1 copper base alloys

**alloy-d-43**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

- USE niobium base alloys

**ALLOY-D-9**

INIS: 1993-10-03; ETDE: 1984-08-06

- \*BT1 chromium-nickel steels

**ALLOY-D-979**

2000-04-12

- \*BT1 aluminium alloys
- \*BT1 chromium alloys
- \*BT1 heat resisting alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel alloys
- \*BT1 titanium alloys
- \*BT1 tungsten alloys

**alloy-dh-245**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

- USE niobium base alloys

**alloy-ehi 183**

ETDE: 1979-05-29

- USE steel-cr17ni13mo3ti

**alloy-ehi 397**

ETDE: 1979-05-29

- USE steel-cr17ni13mo3ti

**alloy-ehi 432**

ETDE: 1979-05-29

- USE steel-cr17ni13mo3ti

**alloy-ehi 437b**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

- USE alloy-ni77cr20ti2

**alloy-ehi 702**

INIS: 2000-03-24; ETDE: 1979-05-29

- SEE alloy-ni77cr20ti2
- SEE steel-ni36cr12ti3al-l

**alloy-ehi 826**

1996-11-27

(Prior to February 1989 this was a valid ETDE descriptor; from then till March 1997

ALLOY-NI68CR15W6AL3MO3FE2 was used for this concept in ETDE.)

- USE nickel base alloys

**alloy-ehi 868**

INIS: 1996-11-13; ETDE: 1979-05-29

(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997

ALLOY-NI60CR25W15 was used for this concept.)

- USE chromium alloys
- USE nickel base alloys
- USE tungsten alloys

**alloy-ehp-199**

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997

ALLOY-NI56CR21W10MO5FE4AL2 was used for this concept.)

- USE nickel base alloys

**alloy-ehp-496**

INIS: 2000-04-12; ETDE: 1979-05-29

- USE iron alloys
- USE molybdenum alloys
- USE nickel base alloys
- USE vanadium alloys

**alloy-ehp-567**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997

ALLOY-NI65MO16CR15W4 was used for this concept.)

- USE chromium alloys
- USE molybdenum alloys
- USE nickel base alloys
- USE tungsten alloys

**alloy-fe31cr21co20ni20mo3w2**

INIS: 1997-01-28; ETDE: 1983-11-19  
(Until October 1996 this was a valid descriptor.)

- USE iron base alloys

**alloy-fe36ni33cr26**

INIS: 1997-01-28; ETDE: 1983-11-22  
(Until October 1996 this was a valid descriptor.)

- USE iron base alloys

**ALLOY-FE40NI35CR22**

INIS: 1997-01-28; ETDE: 1983-11-22

- \*BT1 chromium alloys
- \*BT1 iron base alloys
- \*BT1 manganese additions
- \*BT1 nickel alloys
- \*BT1 silicon additions

**ALLOY-FE44NI33CR21**

1983-11-07

- \*BT1 aluminium additions
- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 incoloy alloys
- \*BT1 iron base alloys
- \*BT1 nickel alloys
- \*BT1 titanium additions
- NT1 incoloy 800h

**ALLOY-FE46NI33CR21**

INIS: 1996-07-23; ETDE: 1983-11-22  
(From December 1978 till March 1997  
SANICRO 30 was a valid ETDE descriptor.)

- UF sanicro 30
- \*BT1 aluminium additions
- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 incoloy alloys
- \*BT1 iron base alloys
- \*BT1 nickel alloys
- \*BT1 titanium additions
- NT1 incoloy 800
- NT1 incoloy 802

**alloy-fe48cr24ni24**

INIS: 1997-01-28; ETDE: 1983-11-19  
(Until October 1996 this was a valid descriptor.)

- USE chromium alloys
- USE iron base alloys
- USE nickel alloys
- USE niobium alloys

**ALLOY-FE53NI29CO18**

1983-11-07

- \*BT1 cobalt alloys
- \*BT1 iron base alloys
- \*BT1 manganese additions
- \*BT1 nickel alloys
- NT1 kovar

**alloy-fs-85**

2000-04-12  
(Prior to 1989 this was a valid ETDE descriptor.)

- USE niobium base alloys

**alloy-ge**

2000-04-12  
(Prior to 1989 this was a valid ETDE descriptor.)

- USE copper alloys
- USE silver alloys

**alloy-gmr-235**

2000-04-12  
(Prior to 1989 this was a valid ETDE descriptor.)

- USE nickel base alloys

**alloy-hd-556**

INIS: 1997-01-28; ETDE: 1979-08-09  
(Until October 1996 this was a valid descriptor.)

- USE iron base alloys

**alloy-hd-8077**

INIS: 2000-04-12; ETDE: 1979-08-09

- USE nickel base alloys

**ALLOY-HK-40**

INIS: 1993-10-03; ETDE: 1979-08-09

- \*BT1 steel-cr25ni20

**alloy-hs-21**

1996-09-12  
(Until July 1996 this was a valid descriptor.)

- USE haynes alloys
- USE stellite

**ALLOY-HS-25**

1993-10-03

- \*BT1 alloy-co54cr20w15ni10

**ALLOY-HS-31**

2000-04-12  
UF alloy-x-40  
UF x 40 (alloy)

- \*BT1 carbon additions
- \*BT1 iron alloys
- \*BT1 manganese additions
- \*BT1 nickel alloys
- \*BT1 silicon additions
- \*BT1 stellite

**alloy-hs-6**

INIS: 2000-04-12; ETDE: 1979-01-30

- USE stellite 6

**ALLOY-HT-9**

INIS: 1993-10-03; ETDE: 1978-02-15

- \*BT1 steel-cr12mov

**ALLOY-IN-100**

1993-10-03

- \*BT1 alloy-ni60co15cr10al6ti5mo3

**ALLOY-IN-102**

2000-04-12

- \*BT1 aluminium additions
- \*BT1 boron additions
- \*BT1 carbon additions
- \*BT1 chromium alloys
- \*BT1 iron alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel base alloys
- \*BT1 niobium alloys
- \*BT1 titanium additions
- \*BT1 tungsten alloys
- \*BT1 zirconium additions

**alloy-in-519**

INIS: 1997-01-28; ETDE: 1979-08-09  
(Until October 1996 this was a valid descriptor.)

- USE chromium alloys
- USE iron base alloys
- USE nickel alloys
- USE niobium alloys

**alloy-in-643**

INIS: 1996-07-17; ETDE: 1979-10-23  
(Until July 1996 this was a valid descriptor.)

- USE inconel alloys

**ALLOY-IN-738**

INIS: 1993-10-03; ETDE: 1980-03-29

- \*BT1 alloy-ni61cr16co9al3ti3w3

**ALLOY-IN-853**

2000-04-12

- UF inconel ma 753
- \*BT1 aluminium alloys
- \*BT1 nickel base alloys
- \*BT1 titanium alloys
- \*BT1 yttrium oxides

**ALLOY-IN-939**

INIS: 1993-10-03; ETDE: 1982-02-11

- \*BT1 alloy-ni46cr23co19ti5al4

**alloy-kh20n80**

1983-11-07  
(Prior to March 1989 this was a valid ETDE descriptor.)

- USE alloy-ni80cr20

**alloy-kh20n80t**

2000-04-12  
(Prior to 1989 this was a valid ETDE descriptor.)

- USE nickel base alloys

**ALLOY-KHN50MBVYU**

INIS: 2000-04-12; ETDE: 1979-06-21

- \*BT1 aluminium alloys
- \*BT1 chromium alloys
- \*BT1 iron alloys
- \*BT1 molybdenum alloys
- \*BT1 niobium alloys
- \*BT1 tungsten alloys

**alloy-khn56vmtyu**

INIS: 1996-11-13; ETDE: 2002-06-06

- USE nickel base alloys

**alloy-khn60b**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997  
ALLOY-NI60CR25W15 was used for this concept.)

- USE chromium alloys
- USE nickel base alloys
- USE tungsten alloys

**alloy-khn60v**

INIS: 1996-11-13; ETDE: 1979-05-29  
(Prior to November 1983 ALLOY-EHI 868 was used for this concept in ETDE; from November 1983 till March 1997 ALLOY-NI60CR25W15 was used.)

- USE chromium alloys
- USE nickel base alloys
- USE tungsten alloys

**alloy-khn60vt**

INIS: 1996-11-13; ETDE: 2002-06-06

- USE nickel base alloys

**alloy-khn67vmtyu**

INIS: 1996-11-13; ETDE: 1979-05-29  
(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997  
ALLOY-NI67CR19MO5W5TI3 was used for this concept in ETDE.)

- USE nickel base alloys

**alloy-khn77tyu**

INIS: 2000-04-12; ETDE: 1979-05-29

- USE nickel base alloys

**alloy-khn77tyur**

USE alloy-ni77cr20ti2

**alloy-khn78t**

1983-11-07

USE alloy-ni78cr21

**alloy-l-605**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE cobalt base alloys

**alloy-m-252**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE nickel base alloys

**ALLOY-M-813**

INIS: 2000-04-12; ETDE: 1977-07-23

- \*BT1 aluminium alloys
- \*BT1 chromium-nickel-molybdenum steels
- \*BT1 titanium alloys

**alloy-ma-754**

INIS: 2000-04-12; ETDE: 1979-08-09

USE nickel base alloys

**alloy-ma-956**

INIS: 2000-04-12; ETDE: 1979-08-09

USE iron base alloys

**ALLOY-MAR-M246**

2000-04-12

- \*BT1 aluminium alloys
- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel base alloys
- \*BT1 tantalum alloys
- \*BT1 titanium alloys
- \*BT1 tungsten alloys

**alloy-mm-0011**

INIS: 2000-04-12; ETDE: 1978-12-20

USE nickel base alloys

**ALLOY-MN-21**

INIS: 2000-04-12; ETDE: 1978-12-20

UF mn-21

- \*BT1 aluminium alloys
- \*BT1 chromium alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel base alloys
- \*BT1 niobium alloys
- \*BT1 tungsten alloys

**ALLOY-MO-RE-1**

INIS: 2000-04-12; ETDE: 1979-08-09

UF mo-re 1

- \*BT1 chromium alloys
- \*BT1 iron alloys
- \*BT1 manganese alloys
- \*BT1 nickel alloys
- \*BT1 silicon alloys
- \*BT1 tungsten alloys

**ALLOY-MO-RE-2**

INIS: 2000-04-12; ETDE: 1979-10-23

UF mo-re 2

- \*BT1 chromium base alloys
- \*BT1 nickel base alloys
- \*BT1 tungsten base alloys

**ALLOY-MO99**

1983-11-07

UF alloy-vm-1

UF tzm

- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 molybdenum base alloys

\*BT1 titanium additions

\*BT1 zirconium additions

NT1 alloy-tzm

NT1 alloy-zm-2a

**ALLOY-MO99B**

INIS: 1983-11-07; ETDE: 1984-01-27

UF alloy-tsm6

- \*BT1 boron additions
- \*BT1 molybdenum base alloys
- \*BT1 zirconium additions

**ALLOY-MP35N**

INIS: 2000-04-12; ETDE: 1979-01-30

UF mp35n

- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel alloys

**ALLOY-N-10M**

2000-04-12

- \*BT1 carbon additions
- \*BT1 heat resisting alloys
- \*BT1 molybdenum alloys
- \*BT1 niobium base alloys
- \*BT1 tantalum additions
- \*BT1 titanium additions
- \*BT1 zirconium additions

**alloy-n-155**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE iron base alloys

**ALLOY-N-9M**

2000-04-12

- \*BT1 carbon additions
- \*BT1 heat resisting alloys
- \*BT1 molybdenum alloys
- \*BT1 niobium base alloys
- \*BT1 zirconium additions

**ALLOY-N28T3**

INIS: 2000-04-12; ETDE: 1979-05-29

- \*BT1 carbon additions
- \*BT1 manganese additions
- \*BT1 nickel alloys
- \*BT1 silicon additions
- \*BT1 titanium alloys

**alloy-n55m20v25**

2000-04-12

- USE molybdenum alloys
- USE nickel base alloys
- USE tungsten alloys

**alloy-n65m20v15**

2000-04-12

- USE molybdenum alloys
- USE nickel base alloys
- USE tungsten alloys

**ALLOY-NI41FE40CR16NB3**

1983-11-07

- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 inconel alloys
- \*BT1 iron alloys
- \*BT1 niobium alloys
- \*BT1 titanium alloys
- NT1 inconel 706

**alloy-ni42fe36cr12mo6ti3**

1983-11-07

- USE incoloy alloys
- USE nickel base alloys

**ALLOY-NI43FE30CR22MO3**

INIS: 1983-11-07; ETDE: 1984-01-27

- \*BT1 aluminium additions
- \*BT1 chromium alloys
- \*BT1 copper alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 incoloy alloys
- \*BT1 iron alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel base alloys
- \*BT1 titanium additions
- NT1 incoloy 825

**ALLOY-NI43FE33CR16MO3**

1983-11-07

UF pe-16

- \*BT1 aluminium alloys
- \*BT1 boron additions
- \*BT1 chromium alloys
- \*BT1 cobalt additions
- \*BT1 copper additions
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 iron alloys
- \*BT1 molybdenum alloys
- \*BT1 nimonic
- \*BT1 titanium alloys
- \*BT1 zirconium additions
- NT1 nimonic pe16

**alloy-ni45cr23fe19co3mo3w3**

INIS: 1983-11-07; ETDE: 1984-01-27

USE nickel base alloys

**ALLOY-NI45FE34CR20**

1983-11-07

UF steel-kh20n45b

- \*BT1 chromium alloys
- \*BT1 corrosion resistant alloys
- \*BT1 iron alloys
- \*BT1 nickel base alloys
- \*BT1 niobium additions

**ALLOY-NI46CR23CO19TI5AL4**

1983-11-16

- \*BT1 aluminium alloys
- \*BT1 boron additions
- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 inconel alloys
- \*BT1 iron additions
- \*BT1 niobium additions
- \*BT1 tantalum alloys
- \*BT1 titanium alloys
- \*BT1 zirconium additions
- NT1 alloy-in-939

**alloy-ni47cr25co12w9fe3**

INIS: 1996-07-17; ETDE: 1983-11-19

(Until July 1996 this was a valid descriptor.)

USE inconel alloys

**alloy-ni48co28cr15al3mo3ti2**

INIS: 1996-07-17; ETDE: 1983-11-22

(Until July 1996 this was a valid descriptor.)

USE inconel alloys

**alloy-ni48cr22fe18mo9**

INIS: 1996-07-17; ETDE: 1983-11-22

(Until July 1996 this was a valid descriptor.)

USE nimonic

**ALLOY-NI49CR22FE18MO9**

1983-11-07

- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 corrosion resistant alloys
- \*BT1 hastelloys

\*BT1 heat resisting alloys  
 \*BT1 iron alloys  
 \*BT1 molybdenum alloys  
 \*BT1 tungsten additions  
 NT1 hastelloy x

**ALLOY-NI50CO20CR15AL5MO5**

INIS: 1983-11-07; ETDE: 1984-01-27

\*BT1 aluminium alloys  
 \*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 iron alloys  
 \*BT1 molybdenum alloys  
 \*BT1 nimonic  
 \*BT1 titanium alloys  
 NT1 nimonic 105

**ALLOY-NI50CR22FE18MO9**

1983-11-07

\*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 hastelloys  
 \*BT1 heat resisting alloys  
 \*BT1 iron alloys  
 \*BT1 molybdenum alloys  
 \*BT1 tungsten additions  
 NT1 hastelloy xr

**ALLOY-NI50MO32CR15SI3**

INIS: 1996-11-13; ETDE: 1983-11-23  
 (From October 1978 till March 1997  
 TRIBALLOY 700 was a valid ETDE  
 descriptor.)

UF *tribaloy 700*  
 \*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 molybdenum alloys  
 \*BT1 nickel base alloys  
 \*BT1 silicon alloys

**ALLOY-NI51CR48**

1983-11-07

\*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 inconel alloys  
 \*BT1 titanium additions  
 NT1 inconel 671

**ALLOY-NI53CO19CR15MO5AL4TI3**

1983-11-07

\*BT1 aluminium alloys  
 \*BT1 boron additions  
 \*BT1 corrosion resistant alloys  
 \*BT1 udimet alloys  
 NT1 udimet 700

**ALLOY-NI53CR19FE19NB5MO3**

1983-11-07

\*BT1 aluminium additions  
 \*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 inconel alloys  
 \*BT1 iron alloys  
 \*BT1 molybdenum alloys  
 \*BT1 niobium alloys  
 \*BT1 titanium additions  
 NT1 inconel 718

**ALLOY-NI54CR22CO13MO9**

1983-11-07

\*BT1 aluminium additions  
 \*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 inconel alloys

\*BT1 molybdenum alloys  
 NT1 inconel 617

**ALLOY-NI54MO17CR16FE6W4**

1983-11-07

\*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 hastelloys  
 \*BT1 heat resisting alloys  
 \*BT1 iron alloys  
 \*BT1 molybdenum alloys  
 \*BT1 tungsten alloys  
 \*BT1 vanadium additions  
 NT1 hastelloy c

**ALLOY-NI55CO17CR15MO5AL4TI4**

1983-11-07

\*BT1 aluminium alloys  
 \*BT1 boron additions  
 \*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 molybdenum alloys  
 \*BT1 nickel base alloys  
 \*BT1 titanium alloys  
 \*BT1 zirconium additions  
 NT1 astroloy

**ALLOY-NI55CR19CO11MO10TI3**

1983-11-07

\*BT1 aluminium alloys  
 \*BT1 boron additions  
 \*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 molybdenum alloys  
 \*BT1 nickel base alloys  
 \*BT1 titanium alloys  
 NT1 rene 41

**alloy-ni56cr21w10mo5fe4al2**

INIS: 1997-01-28; ETDE: 1983-11-19

(Until October 1996 this was a valid  
 descriptor.)

USE nickel base alloys

**alloy-ni58cr14co8al4mo4nb4w4**

1983-11-07

USE nickel base alloys

**ALLOY-NI58CR20CO14MO4TI3**

1983-11-08

\*BT1 aluminium alloys  
 \*BT1 boron additions  
 \*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 iron alloys  
 \*BT1 molybdenum alloys  
 \*BT1 nickel base alloys  
 \*BT1 titanium alloys  
 \*BT1 zirconium additions  
 NT1 waspaloy

**ALLOY-NI59CR20CO17TI2**

INIS: 1996-11-13; ETDE: 1983-11-22  
 (From June 1977 till March 1997 NIMONIC  
 90 was a valid ETDE descriptor.)

UF *nimonic 90*  
 \*BT1 aluminium alloys  
 \*BT1 boron additions  
 \*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 iron alloys  
 \*BT1 nimonic  
 \*BT1 titanium alloys  
 \*BT1 zirconium additions

**ALLOY-NI59CR30FE9**

1983-11-07

\*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 inconel alloys  
 \*BT1 iron alloys  
 \*BT1 titanium additions  
 NT1 inconel 690

**ALLOY-NI60CO15CR10AL6TI5MO3**

1983-11-07

\*BT1 aluminium alloys  
 \*BT1 boron additions  
 \*BT1 carbon additions  
 \*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 copper additions  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 inconel alloys  
 \*BT1 iron additions  
 \*BT1 molybdenum alloys  
 \*BT1 titanium alloys  
 \*BT1 vanadium additions  
 \*BT1 zirconium additions  
 NT1 alloy-in-100

**alloy-ni60cr14co10ti5mo4w4al3**

1983-11-07

USE nickel base alloys

**alloy-ni60cr25w15**

INIS: 1997-01-28; ETDE: 1983-11-19

(Until October 1996 this was a valid  
 descriptor.)

USE chromium alloys  
 USE nickel base alloys  
 USE tungsten alloys

**ALLOY-NI60FE24CR16**

1983-11-07

UF *chromel c*  
 UF *tophet c*  
 \*BT1 chromel  
 \*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 iron alloys  
 NT1 nichrome

**ALLOY-NI61CR16CO9AL3TI3W3**

1983-11-07

\*BT1 aluminium alloys  
 \*BT1 boron additions  
 \*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 inconel alloys  
 \*BT1 molybdenum alloys  
 \*BT1 niobium additions  
 \*BT1 tantalum alloys  
 \*BT1 titanium alloys  
 \*BT1 tungsten alloys  
 \*BT1 zirconium additions  
 NT1 alloy-in-738

**ALLOY-NI61CR22MO9NB4FE3**

1983-11-07

\*BT1 aluminium additions  
 \*BT1 chromium alloys  
 \*BT1 corrosion resistant alloys  
 \*BT1 heat resisting alloys  
 \*BT1 inconel alloys  
 \*BT1 iron alloys  
 \*BT1 molybdenum alloys  
 \*BT1 niobium alloys  
 \*BT1 titanium additions  
 NT1 inconel 625



**ALLOY-NI61CR23FE14**

INIS: 1985-01-17; ETDE: 1989-03-17

UF alloy-601 (inconel)

UF inconel 601

\*BT1 chromium alloys

\*BT1 inconel alloys

\*BT1 iron alloys

**ALLOY-NI62CR16MO15FE3**

1983-11-07

\*BT1 aluminium additions

\*BT1 boron additions

\*BT1 chromium alloys

\*BT1 cobalt additions

\*BT1 corrosion resistant alloys

\*BT1 hastelloys

\*BT1 heat resisting alloys

\*BT1 iron alloys

\*BT1 molybdenum alloys

\*BT1 tungsten additions

\*BT1 vanadium additions

NT1 hastelloy s

**ALLOY-NI65CR25MO10**

1983-11-07

\*BT1 chromium alloys

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 molybdenum alloys

\*BT1 nimonic

NT1 nimonic 86

**alloy-ni65mo16cr15w4**

INIS: 2000-04-12; ETDE: 1983-11-19

(Prior to March 1997 this was a valid ETDE descriptor.)

USE chromium alloys

USE molybdenum alloys

USE nickel base alloys

USE tungsten alloys

**ALLOY-NI65MO28FE5**

1983-11-07

\*BT1 chromium additions

\*BT1 cobalt alloys

\*BT1 corrosion resistant alloys

\*BT1 hastelloys

\*BT1 vanadium additions

NT1 hastelloy b

**ALLOY-NI66CU32**

1983-11-07

UF monel r-405

\*BT1 copper alloys

\*BT1 iron alloys

\*BT1 manganese additions

\*BT1 monel

NT1 monel 400

**alloy-ni67cr19mo5w5ti3**

INIS: 1997-01-28; ETDE: 1984-01-27

(Until October 1996 this was a valid descriptor.)

USE nickel base alloys

**alloy-ni68cr15w6al3mo3fe2**

INIS: 1997-01-28; ETDE: 1983-11-19

(Until October 1996 this was a valid descriptor.)

USE nickel base alloys

**ALLOY-NI70MO17CR7FE5**

1983-11-07

\*BT1 aluminium additions

\*BT1 chromium alloys

\*BT1 corrosion resistant alloys

\*BT1 hastelloys

\*BT1 heat resisting alloys

\*BT1 iron alloys

\*BT1 molybdenum alloys

\*BT1 titanium additions

NT1 hastelloy n

NT1 inor-8

RT inconel alloys

**ALLOY-NI73CR15FE7TI3**

1983-11-07

\*BT1 aluminium additions

\*BT1 chromium alloys

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 inconel alloys

\*BT1 iron alloys

\*BT1 niobium additions

\*BT1 titanium alloys

NT1 inconel x750

**ALLOY-NI73CR20MN3NB3**

1983-11-07

\*BT1 chromium alloys

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 inconel alloys

\*BT1 iron additions

\*BT1 manganese alloys

\*BT1 niobium alloys

\*BT1 titanium additions

NT1 inconel 82

**ALLOY-NI74CR13AL6MO4**

1983-11-07

\*BT1 aluminium alloys

\*BT1 boron additions

\*BT1 chromium alloys

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 inconel alloys

\*BT1 molybdenum alloys

\*BT1 niobium alloys

\*BT1 titanium additions

\*BT1 zirconium additions

NT1 inconel 713c

**ALLOY-NI75CR12AL6MO5**

1983-11-07

\*BT1 aluminium alloys

\*BT1 boron additions

\*BT1 chromium alloys

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 inconel alloys

\*BT1 molybdenum alloys

\*BT1 niobium alloys

\*BT1 titanium additions

\*BT1 zirconium additions

NT1 inconel 713lc

**ALLOY-NI76CR15FE8**

1983-11-07

UF sanicro 70

\*BT1 aluminium additions

\*BT1 chromium alloys

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 inconel alloys

\*BT1 iron alloys

\*BT1 nimonic

\*BT1 titanium additions

NT1 inconel 600

**ALLOY-NI76CR20TI2**

1983-11-07

\*BT1 aluminium alloys

\*BT1 boron additions

\*BT1 chromium alloys

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 nimonic

\*BT1 titanium alloys

\*BT1 zirconium additions

NT1 nimonic 80a

**ALLOY-NI77CR20TI2**

1983-11-07

UF alloy-ehi 437b

UF alloy-khn77tyur

SF alloy-ehi 702

\*BT1 aluminium additions

\*BT1 boron additions

\*BT1 chromium alloys

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 iron alloys

\*BT1 nickel base alloys

\*BT1 titanium alloys

**alloy-ni78cr16al4**

INIS: 1997-01-28; ETDE: 1983-11-22

(Until October 1996 this was a valid descriptor.)

USE aluminium alloys

USE chromium alloys

USE inconel alloys

**ALLOY-NI78CR21**

1983-11-07

UF alloy-khn78t

\*BT1 aluminium additions

\*BT1 chromium alloys

\*BT1 iron alloys

\*BT1 manganese additions

\*BT1 nickel base alloys

\*BT1 silicon additions

\*BT1 titanium additions

**ALLOY-NI79FE16MO4**

INIS: 1997-01-28; ETDE: 1983-11-22

\*BT1 iron alloys

\*BT1 molybdenum alloys

\*BT1 nickel base alloys

**ALLOY-NI80CR20**

1983-11-07

UF alloy-kh20n80

UF chromel a

UF nichrome v

UF tophet a

\*BT1 aluminium additions

\*BT1 chromel

\*BT1 chromium alloys

\*BT1 iron additions

\*BT1 silicon additions

**alloy-ni80fe16mo4**

INIS: 1997-01-28; ETDE: 1983-11-22

(Until October 1996 this was a valid descriptor.)

USE molybdenum alloys

USE nickel base alloys

USE permalloy

**ALLOY-NI94MN3AL2**

1983-11-07

\*BT1 aluminium alloys

\*BT1 manganese alloys

\*BT1 nickel base alloys

\*BT1 silicon additions

NT1 alumel

**ALLOY-NT25A5**

INIS: 2000-04-12; ETDE: 1979-05-29

\*BT1 aluminium alloys

\*BT1 heat resisting alloys

\*BT1 niobium base alloys

\*BT1 titanium alloys

**ALLOY NUCLEAR FUELS**

\*BT1 nuclear fuels

\*BT1 solid fuels

NT1 uranium-molybdenum fuels

**ALLOY-NX-188**

INIS: 2000-04-12; ETDE: 1978-12-20

UF *nx-188*

- \*BT1 aluminium alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel base alloys

**ALLOY-RA-333**

INIS: 1993-10-03; ETDE: 1979-08-09

UF *ra 333*

- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 iron alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel base alloys
- \*BT1 silicon alloys
- \*BT1 tungsten alloys

**ALLOY-S-590**

2000-04-12

- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 heat resisting alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel alloys
- \*BT1 niobium alloys
- \*BT1 tungsten alloys

**ALLOY-S-816**

2000-04-12

- \*BT1 carbon additions
- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 heat resisting alloys
- \*BT1 iron alloys
- \*BT1 manganese alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel alloys
- \*BT1 niobium alloys
- \*BT1 silicon additions
- \*BT1 tantalum alloys
- \*BT1 tungsten alloys

**alloy su31**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

USE niobium base alloys

**ALLOY SYSTEMS**

- NT1 binary alloy systems
- NT1 quaternary alloy systems
- NT1 ternary alloy systems
- RT alloys
- RT phase diagrams
- RT vegard law

**alloy-ta-10v**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

SEE tantalum base alloys

**ALLOY-TA90W8HF**

1983-11-07

- \*BT1 hafnium alloys
- \*BT1 tantalum base alloys
- \*BT1 tungsten alloys
- NT1 tantalum alloy-t111

**ALLOY-TI78CR11MO7AL3**

INIS: 1983-11-07; ETDE: 1984-01-27

UF *alloy-vt15*

- \*BT1 aluminium alloys
- \*BT1 chromium alloys
- \*BT1 molybdenum alloys
- \*BT1 titanium base alloys

**ALLOY-TI88MO8AL3**

INIS: 1983-11-07; ETDE: 1984-01-27

UF *alloy-vt22*

- \*BT1 aluminium alloys
- \*BT1 chromium alloys
- \*BT1 iron additions
- \*BT1 molybdenum alloys
- \*BT1 titanium base alloys

**ALLOY-TI89AL6MO3**

1983-11-07

UF *alloy-vt9*

- \*BT1 aluminium alloys
- \*BT1 molybdenum alloys
- \*BT1 titanium base alloys
- \*BT1 zirconium alloys

**ALLOY-TI90AL6**

INIS: 1983-11-07; ETDE: 1984-01-27

UF *alloy-vt20*

- \*BT1 aluminium alloys
- \*BT1 molybdenum additions
- \*BT1 titanium base alloys
- \*BT1 vanadium additions
- \*BT1 zirconium alloys

**ALLOY-TI90AL6MO3**

INIS: 1983-11-07; ETDE: 1984-01-27

UF *alloy-vt8*

- \*BT1 aluminium alloys
- \*BT1 iron additions
- \*BT1 molybdenum alloys
- \*BT1 titanium base alloys

**ALLOY-TI90AL6V4**

1983-11-07

UF *alloy-vt6*

- \*BT1 aluminium alloys
- \*BT1 iron additions
- \*BT1 titanium base alloys
- \*BT1 vanadium alloys

**ALLOY-TI90MO7AL2**

INIS: 1983-11-07; ETDE: 1984-01-27

UF *alloy-vt16*

- \*BT1 aluminium alloys
- \*BT1 molybdenum alloys
- \*BT1 titanium base alloys

**ALLOY-TI91AL4MO3**

INIS: 1983-11-07; ETDE: 1984-01-27

UF *alloy-vt14*

- \*BT1 aluminium alloys
- \*BT1 iron additions
- \*BT1 molybdenum alloys
- \*BT1 titanium base alloys
- \*BT1 vanadium alloys

**ALLOY-TI91AL5CR2**

INIS: 1983-11-07; ETDE: 1984-01-27

UF *alloy-vt3-1*

UF *alloy-vtz-1*

- \*BT1 aluminium alloys
- \*BT1 chromium alloys
- \*BT1 iron additions
- \*BT1 molybdenum alloys
- \*BT1 titanium base alloys

**ALLOY-TI99**

1983-11-07

UF *alloy-vt1-0*

- \*BT1 titanium base alloys

**alloy-ts5**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

SEE titanium base alloys

**alloy-tsm6**

INIS: 1983-11-07; ETDE: 1978-10-30

(Prior to 1989 this was a valid ETDE descriptor.)

USE alloy-mo99b

**alloy-tzc**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

SEE molybdenum base alloys

**ALLOY-TZM**

1993-10-03

\*BT1 alloy-mo99

**ALLOY-U90NB7ZR3**

INIS: 1996-11-13; ETDE: 1983-11-22

(From 1974 till March 1997 MULBERRY ALLOY was a valid ETDE descriptor.)

UF *mulberry alloy*

- \*BT1 niobium alloys
- \*BT1 uranium base alloys
- \*BT1 zirconium alloys

**ALLOY-V-36**

2000-04-12

- \*BT1 carbon additions
- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 heat resisting alloys
- \*BT1 iron alloys
- \*BT1 manganese additions
- \*BT1 molybdenum alloys
- \*BT1 nickel alloys
- \*BT1 niobium alloys
- \*BT1 silicon additions
- \*BT1 tantalum alloys
- \*BT1 tungsten alloys

**ALLOY-V87CR9FE3**

INIS: 1996-11-13; ETDE: 1983-11-23

(Until October 1996 this was a valid descriptor.)

UF *vanstar 7*

- \*BT1 chromium alloys
- \*BT1 iron alloys
- \*BT1 vanadium base alloys
- \*BT1 zirconium alloys

**alloy-vad23**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

SEE aluminium base alloys

**alloy-vm-1**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

USE alloy-mo99

**alloy-vn-3**

2000-04-12

(Prior to 1989 this was a valid ETDE descriptor.)

SEE niobium base alloys

**alloy-vt1-0**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to March 1989 this was a valid ETDE descriptor.)

USE alloy-ti99

**alloy-vt14**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

USE alloy-ti91al4mo3

**alloy-vt15**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

USE alloy-ti78cr11mo7al3

**alloy-vt16**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

USE alloy-ti90mo7al2

**alloy-vt20**

INIS: 1983-11-07; ETDE: 1978-10-19

(Prior to March 1989 this was a valid ETDE descriptor.)

USE alloy-ti90al6

**alloy-vt22**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

USE alloy-ti88mo8al3

**alloy-vt3-1**

INIS: 1983-11-07; ETDE: 1977-04-13

(Prior to March 1989 this was valid ETDE descriptor.)

USE alloy-ti91al5cr2

**alloy-vt30**

INIS: 2000-04-12; ETDE: 1985-10-25

(Prior to February 1995, this was a valid ETDE descriptor.)

USE titanium base alloys

**alloy-vt6**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

USE alloy-ti90al6v4

**alloy-vt8**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to March 1989 this was a valid ETDE descriptor.)

USE alloy-ti90al6mo3

**alloy-vt9**

1983-11-07

(Prior to March 1989 this was a valid ETDE descriptor.)

USE alloy-ti89al6mo3

**alloy-vtz-1**

1977-11-21

(Prior to 1989 this was a valid ETDE descriptor.)

USE alloy-ti91al5cr2

**alloy-vus-6**

INIS: 2000-04-12; ETDE: 1979-05-29

USE niobium base alloys

**alloy-vzh98**

INIS: 1996-11-13; ETDE: 1979-05-29

(Prior to November 1983 ALLOY-EHI 868 was used for this concept in ETDE; from November 1983 till March 1997 ALLOY-Ni60CR25W15 was used.)

USE chromium alloys  
USE nickel base alloys  
USE tungsten alloys**alloy-waz-16**

INIS: 2000-04-12; ETDE: 1979-08-09

USE nickel base alloys

**alloy-x-40**

INIS: 2000-04-12; ETDE: 1979-12-17

USE alloy-hs-31

**alloy-x750 (inconel)**

INIS: 1990-06-25; ETDE: 2002-06-07

USE inconel x750

**ALLOY-YUNDK 25BA**

INIS: 2000-04-12; ETDE: 1979-06-21

\*BT1 aluminium alloys  
\*BT1 cobalt alloys  
\*BT1 copper alloys  
\*BT1 iron alloys  
\*BT1 nickel alloys  
\*BT1 niobium additions**ALLOY-ZM-2A**

1993-10-03

\*BT1 alloy-mo99

**ALLOY-ZR97NB3**

INIS: 1985-07-23; ETDE: 1989-03-18

\*BT1 heat resisting alloys  
\*BT1 niobium alloys  
\*BT1 zirconium base alloys**ALLOY-ZR98SN-2**

1983-11-07

\*BT1 chromium additions  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 iron additions  
\*BT1 nickel additions  
\*BT1 tin alloys  
\*BT1 zircaloy  
NT1 zircaloy 2**ALLOY-ZR98SN-4**

1983-11-07

\*BT1 chromium additions  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 iron additions  
\*BT1 tin alloys  
\*BT1 zircaloy  
NT1 zircaloy 4**alloying effects**

INIS: 1994-07-01; ETDE: 1978-02-14

USE metallurgical effects

**ALLOYS**

1996-01-24

UF actinium additions  
UF astatine additions  
UF berkelium additions  
UF californium additions  
UF einsteinium additions  
UF radium additions  
NT1 actinide alloys  
NT2 americium alloys  
NT2 berkelium alloys  
NT2 californium alloys  
NT2 curium alloys  
NT3 curium additions  
NT2 einsteinium alloys  
NT2 neptunium alloys  
NT3 neptunium additions  
NT2 plutonium alloys  
NT3 plutonium base alloys  
NT2 protactinium alloys  
NT2 thorium alloys  
NT3 magnesium alloy-hk31a  
NT3 thorium additions  
NT3 thorium base alloys  
NT2 uranium alloys  
NT3 uranium base alloys  
NT4 alloy-u90nb7zr3  
NT1 aluminium alloys  
NT2 alloy-b-1900  
NT2 alloy-d-979  
NT2 alloy-in-853  
NT2 alloy-khn50mbvyu  
NT2 alloy-m-813NT2 alloy-mar-m246  
NT2 alloy-mn-21  
NT2 alloy-ni43fe33cr16mo3  
NT3 nimonic pe16  
NT2 alloy-ni46cr23co19ti5al4  
NT3 alloy-in-939  
NT2 alloy-ni50co20cr15al5mo5  
NT3 nimonic 105  
NT2 alloy-ni53co19cr15mo5al4ti3  
NT3 udimet 700  
NT2 alloy-ni55co17cr15mo5al4ti4  
NT3 astroloy  
NT2 alloy-ni55cr19co11mo10ti3  
NT3 rene 41  
NT2 alloy-ni58cr20co14mo4ti3  
NT3 waspaloy  
NT2 alloy-ni59cr20co17ti2  
NT2 alloy-ni60co15cr10al6ti5mo3  
NT3 alloy-in-100  
NT2 alloy-ni61cr16co9al3ti3w3  
NT3 alloy-in-738  
NT2 alloy-ni74cr13al6mo4  
NT3 inconel 713c  
NT2 alloy-ni75cr12al6mo5  
NT3 inconel 713lc  
NT2 alloy-ni76cr20ti2  
NT3 nimonic 80a  
NT2 alloy-ni94mn3al2  
NT3 alumel  
NT2 alloy-nt25a5  
NT2 alloy-nx-188  
NT2 alloy-ti78cr11mo7al3  
NT2 alloy-ti88mo8al3  
NT2 alloy-ti89al6mo3  
NT2 alloy-ti90al6  
NT2 alloy-ti90al6mo3  
NT2 alloy-ti90al6v4  
NT2 alloy-ti90mo7al2  
NT2 alloy-ti91al4mo3  
NT2 alloy-ti91al5cr2  
NT2 alloy-yundk 25ba  
NT2 alnico alloys  
NT2 aluminium additions  
NT3 alloy-fe44ni33cr21  
NT4 incoloy 800h  
NT3 alloy-fe46ni33cr21  
NT4 incoloy 800  
NT4 incoloy 802  
NT3 alloy-in-102  
NT3 alloy-ni43fe30cr22mo3  
NT4 incoloy 825  
NT3 alloy-ni53cr19fe19nb5mo3  
NT4 inconel 718  
NT3 alloy-ni54cr22co13mo9  
NT4 inconel 617  
NT3 alloy-ni61cr22mo9nb4fe3  
NT4 inconel 625  
NT3 alloy-ni62cr16mo15fe3  
NT4 hastelloy s  
NT3 alloy-ni70mo17cr7fe5  
NT4 hastelloy n  
NT4 inor-8  
NT3 alloy-ni73cr15fe7ti3  
NT4 inconel x750  
NT3 alloy-ni76cr15fe8  
NT4 inconel 600  
NT3 alloy-ni77cr20ti2  
NT3 alloy-ni78cr21  
NT3 alloy-ni80cr20  
NT3 discaloy  
NT3 incoloy 901  
NT3 steel-cr13al  
NT4 stainless steel-405  
NT3 steel-cralnimo  
NT3 steel-ni26cr15ti2moyalb  
NT4 alloy-a-286  
NT3 steel-ni36cr12ti3al-l  
NT2 aluminium base alloys  
NT3 alloy-al95cu4

- NT4** duralumin  
**NT3** aludur  
**NT3** bondur  
**NT3** duranialium  
**NT3** heddur  
**NT3** lynite  
**NT3** magnalium  
**NT2** duranickel  
**NT2** ge 2541  
**NT2** heusler alloys  
**NT2** hoskins 875  
**NT2** kanthal  
**NT2** magnesium alloy-az31b  
**NT2** nimonic 115  
**NT2** rene-100  
**NT2** rene 80  
**NT2** rene 95  
**NT2** stainless steel-17-7ph  
**NT2** zamak  
**NT1** antimony alloys  
**NT2** antimony additions  
**NT2** antimony base alloys  
**NT2** terne-metal  
**NT1** arsenic alloys  
**NT2** arsenic additions  
**NT1** barium alloys  
**NT2** barium additions  
**NT2** barium base alloys  
**NT1** beryllium alloys  
**NT2** beryllium additions  
**NT2** beryllium base alloys  
**NT1** bismuth alloys  
**NT2** bismuth additions  
**NT2** bismuth base alloys  
**NT3** alloy-bi50pb25cd12sn12  
**NT4** wood metal  
**NT3** cerrobend alloys  
**NT3** lichtenberg alloy  
**NT3** newton-metal  
**NT2** rose-metal  
**NT1** boron alloys  
**NT2** boron additions  
**NT3** alloy-in-102  
**NT3** alloy-mo99b  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni53co19cr15mo5al4ti3  
**NT4** udimet 700  
**NT3** alloy-ni55co17cr15mo5al4ti4  
**NT4** astroloy  
**NT3** alloy-ni55cr19co11mo10ti3  
**NT4** rene 41  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** alloy-ni74cr13al6mo4  
**NT4** inconel 713c  
**NT3** alloy-ni75cr12al6mo5  
**NT4** inconel 713lc  
**NT3** alloy-ni76cr20ti2  
**NT4** nimonic 80a  
**NT3** alloy-ni77cr20ti2  
**NT3** incoloy 901  
**NT3** rene 80  
**NT3** steel-cr15ni15motib  
**NT3** steel-ni26cr15ti2moyalb  
**NT4** alloy-a-286  
**NT2** colmonoy  
**NT1** brazing alloys  
**NT1** cadmium alloys  
**NT2** alloy-bi50pb25cd12sn12  
**NT3** wood metal  
**NT2** cadmium additions  
**NT3** zamak  
**NT2** cadmium base alloys  
**NT2** cerrobend alloys  
**NT1** calcium alloys  
**NT2** calcium additions  
**NT2** calcium base alloys  
**NT1** carbon additions  
**NT2** alloy-co43cr20fe18ni13w3  
**NT3** havar  
**NT2** alloy-hs-31  
**NT2** alloy-in-102  
**NT2** alloy-n-10m  
**NT2** alloy-n-9m  
**NT2** alloy-n28t3  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-in-100  
**NT2** alloy-s-816  
**NT2** alloy-v-36  
**NT2** ascology  
**NT2** astroloy  
**NT2** austenite  
**NT2** cast iron  
**NT2** discaloy  
**NT2** duriron  
**NT2** ferrite  
**NT2** martensite  
**NT2** rene 41  
**NT2** rene 95  
**NT2** steels  
**NT3** austenitic steels  
**NT4** steel-cr15ni15motib  
**NT4** steel-cr16ni13monbv  
**NT4** steel-cr16ni15mo3nb  
**NT4** steel-cr16ni16monb  
**NT4** steel-cr16ni8mo2  
**NT5** stainless steel-16-8-2  
**NT4** steel-cr17ni12mo3  
**NT5** stainless steel-316  
**NT4** steel-cr17ni12mo3-l  
**NT5** stainless steel-316l  
**NT5** stainless steel-zcnd17-13  
**NT4** steel-cr17ni12monb  
**NT4** steel-cr17ni13  
**NT4** steel-cr17ni13mo2ti  
**NT4** steel-cr17ni13mo3ti  
**NT4** steel-cr17ni7  
**NT5** stainless steel-301  
**NT4** steel-cr18ni10  
**NT5** stainless steel-18-10  
**NT4** steel-cr18ni10-l  
**NT4** steel-cr18ni10ti  
**NT5** stainless steel-321  
**NT4** steel-cr18ni11  
**NT5** steel-x6crni1811  
**NT4** steel-cr18ni11nb  
**NT5** stainless steel-347  
**NT4** steel-cr18ni11nbco  
**NT5** stainless steel-348  
**NT4** steel-cr18ni12  
**NT5** stainless steel-305  
**NT4** steel-cr18ni12ti  
**NT4** steel-cr18ni8  
**NT5** stainless steel-18-8  
**NT4** steel-cr18ni9  
**NT5** stainless steel-302  
**NT4** steel-cr18ni9ti  
**NT4** steel-cr19ni10  
**NT5** stainless steel-304  
**NT4** steel-cr19ni10-l  
**NT5** stainless steel-304l  
**NT4** steel-cr20ni11  
**NT5** stainless steel-308  
**NT4** steel-cr20ni11-l  
**NT5** stainless steel-308l  
**NT4** steel-cr21mn9ni6  
**NT5** stainless steel-21-6-9  
**NT4** steel-cr23ni14  
**NT5** stainless steel-309  
**NT5** stainless steel-309s  
**NT4** steel-cr23ni18  
**NT4** steel-cr25ni20  
**NT5** alloy-hk-40  
**NT5** stainless steel-310  
**NT4** steel-ni25cr20  
**NT5** stainless steel-20-25  
**NT4** steel-ni26cr15ti2moyalb  
**NT5** alloy-a-286  
**NT3** carbon steels  
**NT4** steel-astm-a105  
**NT4** steel-astm-a106  
**NT4** steel-astm-a212  
**NT4** steel-astm-a285  
**NT4** steel-astm-a516  
**NT4** steel-astm-a533-b  
**NT4** steel-in-787  
**NT4** steel-sae-1045  
**NT3** croloy  
**NT4** steel-cr13  
**NT5** stainless steel-410  
**NT4** steel-cr16  
**NT5** stainless steel-430  
**NT4** steel-cr18ni10  
**NT5** stainless steel-18-10  
**NT4** steel-cr2mo  
**NT5** steel-astm-a542  
**NT4** steel-cr5mo  
**NT3** ferritic steels  
**NT4** steel-cr12moniv  
**NT4** steel-cr13al  
**NT5** stainless steel-405  
**NT4** steel-cr16  
**NT5** stainless steel-430  
**NT4** steel-cr25  
**NT5** stainless steel-446  
**NT4** steel-cr9mo  
**NT4** steel-cr9monbv  
**NT3** high alloy steels  
**NT4** stainless steels  
**NT5** chromium-nickel steels  
**NT6** alloy-d-9  
**NT6** carpenter  
**NT6** chromium-nickel-molybdenum steels  
**NT7** alloy-m-813  
**NT7** steel-cr11ni10mo2ti-l  
**NT7** steel-cr15ni15motib  
**NT7** steel-cr16ni13monbv  
**NT7** steel-cr16ni15mo3nb  
**NT7** steel-cr16ni16monb  
**NT7** steel-cr16ni8mo2  
**NT8** stainless steel-16-8-2  
**NT7** steel-cr16ni9mo2  
**NT7** steel-cr17ni12mo3  
**NT8** stainless steel-316  
**NT7** steel-cr17ni12mo3-l  
**NT8** stainless steel-316l  
**NT8** stainless steel-zcnd17-13  
**NT7** steel-cr17ni12monb  
**NT7** steel-cr17ni13mo2ti  
**NT7** steel-cr17ni13mo3ti  
**NT7** steel-ni26cr15ti2moyalb  
**NT8** alloy-a-286  
**NT6** durco  
**NT6** enduro  
**NT6** stainless steel-17-7ph  
**NT6** stainless steel-303  
**NT6** stainless steel-329  
**NT6** stainless steel-ph-15-7-mo  
**NT6** steel-cr17ni13  
**NT6** steel-cr17ni7  
**NT7** stainless steel-301  
**NT6** steel-cr18ni10  
**NT7** stainless steel-18-10  
**NT6** steel-cr18ni10-l  
**NT6** steel-cr18ni10ti  
**NT7** stainless steel-321

- NT6** steel-cr18ni11  
**NT7** steel-x6crni1811  
**NT6** steel-cr18ni11nb  
**NT7** stainless steel-347  
**NT6** steel-cr18ni11nbco  
**NT7** stainless steel-348  
**NT6** steel-cr18ni12  
**NT7** stainless steel-305  
**NT6** steel-cr18ni12ti  
**NT6** steel-cr18ni8  
**NT7** stainless steel-18-8  
**NT6** steel-cr18ni9  
**NT7** stainless steel-302  
**NT6** steel-cr18ni9ti  
**NT6** steel-cr19ni10  
**NT7** stainless steel-304  
**NT6** steel-cr19ni10-l  
**NT7** stainless steel-304l  
**NT6** steel-cr20ni11  
**NT7** stainless steel-308  
**NT6** steel-cr20ni11-l  
**NT7** stainless steel-308l  
**NT6** steel-cr23ni14  
**NT7** stainless steel-309  
**NT7** stainless steel-309s  
**NT6** steel-cr23ni18  
**NT6** steel-cr25ni20  
**NT7** alloy-hk-40  
**NT7** stainless steel-310  
**NT6** steel-ni25cr20  
**NT7** stainless steel-20-25  
**NT6** steel-ni36cr12ti3al-l  
**NT6** timken alloys  
**NT5** chromium steels  
**NT6** chromium-molybdenum steels  
**NT7** chromium-nickel-molybdenum steels  
**NT8** alloy-m-813  
**NT8** steel-cr11ni10mo2ti-l  
**NT8** steel-cr15ni15motib  
**NT8** steel-cr16ni13monbv  
**NT8** steel-cr16ni15mo3nb  
**NT8** steel-cr16ni16monb  
**NT8** steel-cr16ni8mo2  
**NT9** stainless steel-16-8-2  
**NT8** steel-cr16ni9mo2  
**NT8** steel-cr17ni12mo3  
**NT9** stainless steel-316  
**NT8** steel-cr17ni12mo3-l  
**NT9** stainless steel-316l  
**NT9** stainless steel-zcnd17-13  
**NT8** steel-cr17ni12monb  
**NT8** steel-cr17ni13mo2ti  
**NT8** steel-cr17ni13mo3ti  
**NT8** steel-ni26cr15ti2movalb  
**NT9** alloy-a-286  
**NT6** magnet steel-ks  
**NT6** miduale  
**NT6** stainless steel-406  
**NT6** steel-cr10mo2  
**NT6** steel-cr12  
**NT7** stainless steel-403  
**NT6** steel-cr12moniv  
**NT6** steel-cr12mov  
**NT7** alloy-ht-9  
**NT6** steel-cr13  
**NT7** stainless steel-410  
**NT6** steel-cr13al  
**NT7** stainless steel-405  
**NT6** steel-cr16  
**NT7** stainless steel-430  
**NT6** steel-cr16ni  
**NT6** steel-cr17cu4ni4nb-l  
**NT7** stainless steel-17-4ph  
**NT6** steel-cr17mo  
**NT7** stainless steel-440  
**NT6** steel-cr17ni4mo3  
**NT6** steel-cr18
- NT6** steel-cr25  
**NT7** stainless steel-446  
**NT6** steel-cr9mo  
**NT6** steel-cr9monbv  
**NT5** low carbon-high alloy steels  
**NT6** steel-cr11ni10mo2ti-l  
**NT6** steel-cr17cu4ni4nb-l  
**NT7** stainless steel-17-4ph  
**NT6** steel-cr17ni12mo3-l  
**NT7** stainless steel-316l  
**NT7** stainless steel-zcnd17-13  
**NT6** steel-cr18ni10-l  
**NT6** steel-cr19ni10-l  
**NT7** stainless steel-304l  
**NT6** steel-cr20ni11-l  
**NT7** stainless steel-308l  
**NT6** steel-ni36cr12ti3al-l  
**NT5** stainless steel-317  
**NT5** stainless steel-318  
**NT5** stainless steel-422  
**NT5** stainless steel-fv-548  
**NT5** stainless steel-jbk-75  
**NT5** stainless steel m-50  
**NT5** steel-cr21mn9ni6  
**NT6** stainless steel-21-6-9  
**NT5** sweetalloy  
**NT3** low alloy steels  
**NT4** steel-astm-a350  
**NT4** steel-astm-a387  
**NT4** steel-astm-a508  
**NT4** steel-astm-a533  
**NT4** steel-cr2mo  
**NT5** steel-astm-a542  
**NT4** steel-cr2moninb  
**NT4** steel-cr2mov  
**NT4** steel-cr2nimov  
**NT4** steel-cr5mo  
**NT4** steel-cralnimo  
**NT4** steel-crmo  
**NT4** steel-crmov  
**NT4** steel-crni  
**NT4** steel-mncumo  
**NT5** steel-astm-a537  
**NT4** steel-mnmo  
**NT5** steel-astm-a302  
**NT4** steel-mnnimo  
**NT5** steel-astm-a533-b  
**NT4** steel-mnnimov  
**NT4** steel-ni3cr  
**NT4** steel-ni3crmo  
**NT5** steel-astm-a543  
**NT4** steel-ni3crmov  
**NT4** steel-ni4crw  
**NT4** steel-nicr  
**NT4** steel-nicrmo  
**NT4** steel-nimocr  
**NT3** manganese steels  
**NT3** martensitic steels  
**NT4** maraging steels  
**NT4** steel-cr10mo2  
**NT4** steel-cr12  
**NT5** stainless steel-403  
**NT4** steel-cr12mov  
**NT5** alloy-ht-9  
**NT4** steel-cr13  
**NT5** stainless steel-410  
**NT4** steel-cr16ni  
**NT4** steel-cr17cu4ni4nb-l  
**NT5** stainless steel-17-4ph  
**NT4** steel-cr17mo  
**NT5** stainless steel-440  
**NT4** steel-cr18  
**NT3** nickel steels  
**NT4** sweetalloy  
**NT3** steel-astm-a572  
**NT1** cesium alloys  
**NT2** cesium additions  
**NT2** cesium base alloys  
**NT1** corrosion resistant alloys
- NT2** alloy-co36cr22ni22w15fe3  
**NT3** haynes 188 alloy  
**NT2** alloy-co54cr20w15ni10  
**NT3** alloy-hs-25  
**NT3** haynes 25 alloy  
**NT2** alloy-co60cr30w4  
**NT3** stellite 6  
**NT2** alloy-fe44ni33cr21  
**NT3** incoloy 800h  
**NT2** alloy-fe46ni33cr21  
**NT3** incoloy 800  
**NT3** incoloy 802  
**NT2** alloy-mo99  
**NT3** alloy-tzm  
**NT3** alloy-zm-2a  
**NT2** alloy-ni41fe40cr16nb3  
**NT3** inconel 706  
**NT2** alloy-ni43fe30cr22mo3  
**NT3** incoloy 825  
**NT2** alloy-ni43fe33cr16mo3  
**NT3** nimonic pe16  
**NT2** alloy-ni45fe34cr20  
**NT2** alloy-ni46cr23co19ti5al4  
**NT3** alloy-in-939  
**NT2** alloy-ni49cr22fe18mo9  
**NT3** hastelloy x  
**NT2** alloy-ni50co20cr15al5mo5  
**NT3** nimonic 105  
**NT2** alloy-ni50cr22fe18mo9  
**NT3** hastelloy xr  
**NT2** alloy-ni50mo32cr15si3  
**NT2** alloy-ni51cr48  
**NT3** inconel 671  
**NT2** alloy-ni53co19cr15mo5al4ti3  
**NT3** udimet 700  
**NT2** alloy-ni53cr19fe19nb5mo3  
**NT3** inconel 718  
**NT2** alloy-ni54cr22co13mo9  
**NT3** inconel 617  
**NT2** alloy-ni54mo17cr16fe6w4  
**NT3** hastelloy c  
**NT2** alloy-ni55cr19co11mo10ti3  
**NT3** rene 41  
**NT2** alloy-ni58cr20co14mo4ti3  
**NT3** waspaloy  
**NT2** alloy-ni59cr20co17ti2  
**NT2** alloy-ni59cr30fe9  
**NT3** inconel 690  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-in-100  
**NT2** alloy-ni60fe24cr16  
**NT3** nichrome  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-ni61cr22mo9nb4fe3  
**NT3** inconel 625  
**NT2** alloy-ni62cr16mo15fe3  
**NT3** hastelloy s  
**NT2** alloy-ni65cr25mo10  
**NT3** nimonic 86  
**NT2** alloy-ni65mo28fe5  
**NT3** hastelloy b  
**NT2** alloy-ni70mo17cr7fe5  
**NT3** hastelloy n  
**NT3** inor-8  
**NT2** alloy-ni73cr15fe7ti3  
**NT3** inconel x750  
**NT2** alloy-ni73cr20mn3nb3  
**NT3** inconel 82  
**NT2** alloy-ni74cr13al6mo4  
**NT3** inconel 713c  
**NT2** alloy-ni75cr12al6mo5  
**NT3** inconel 713lc  
**NT2** alloy-ni76cr15fe8  
**NT3** inconel 600  
**NT2** alloy-ni76cr20ti2  
**NT3** nimonic 80a  
**NT2** alloy-ni77cr20ti2  
**NT2** alloy-ra-333

NT2	alloy-zr98sn-2	NT2	steel-cr25	NT2	alloy-ni65cr25mo10
NT3	zircaloy 2	NT3	stainless steel-446	NT3	nimonic 86
NT2	alloy-zr98sn-4	NT2	steel-cr25ni20	NT2	alloy-ni70mo17cr7fe5
NT3	zircaloy 4	NT3	alloy-hk-40	NT3	hastelloy n
NT2	colmonoy	NT3	stainless steel-310	NT3	inor-8
NT2	heusler alloys	NT2	steel-ni25cr20	NT2	alloy-ni73cr15fe7ti3
NT2	incoloy 901	NT3	stainless steel-20-25	NT3	inconel x750
NT2	rene 80	NT2	steel-ni26cr15ti2movalb	NT2	alloy-ni73cr20mn3nb3
NT2	rene 95	NT3	alloy-a-286	NT3	inconel 82
NT2	steel-cd-4mcu	NT2	steel-ni36cr12ti3al-l	NT2	alloy-ni74cr13al6mo4
NT2	steel-cr11ni10mo2ti-l	NT2	tribaloy 800	NT3	inconel 713c
NT2	steel-cr12	NT1	dilute alloys	NT2	alloy-ni75cr12al6mo5
NT3	stainless steel-403	NT1	francium alloys	NT3	inconel 713c
NT2	steel-cr12moniv	NT2	francium additions	NT2	alloy-ni76cr15fe8
NT2	steel-cr12mov	NT1	gallium alloys	NT3	inconel 600
NT3	alloy-ht-9	NT2	gallium additions	NT2	alloy-ni76cr20ti2
NT2	steel-cr13	NT2	gallium base alloys	NT3	nimonic 80a
NT3	stainless steel-410	NT1	germanium alloys	NT2	alloy-ni77cr20ti2
NT2	steel-cr13al	NT2	germanium additions	NT2	alloy-nt25a5
NT3	stainless steel-405	NT2	germanium base alloys	NT2	alloy-ra-333
NT2	steel-cr15ni15motib	NT1	heat resisting alloys	NT2	alloy-s-590
NT2	steel-cr16	NT2	alloy-co36cr22ni22w15fe3	NT2	alloy-s-816
NT3	stainless steel-430	NT3	haynes 188 alloy	NT2	alloy-v-36
NT2	steel-cr16ni	NT2	alloy-co54cr20w15ni10	NT2	alloy-zr97nb3
NT2	steel-cr16ni13monbv	NT3	alloy-hs-25	NT2	alloy-zr98sn-2
NT2	steel-cr16ni15mo3nb	NT3	haynes 25 alloy	NT3	zircaloy 2
NT2	steel-cr16ni16monb	NT2	alloy-co60cr30w4	NT2	alloy-zr98sn-4
NT2	steel-cr16ni8mo2	NT3	stellite 6	NT3	zircaloy 4
NT3	stainless steel-16-8-2	NT2	alloy-d-979	NT2	enduro
NT2	steel-cr17cu4ni4nb-l	NT2	alloy-fe44ni33cr21	NT2	incoloy 901
NT3	stainless steel-17-4ph	NT3	incoloy 800h	NT2	rene 80
NT2	steel-cr17mo	NT2	alloy-fe46ni33cr21	NT2	rene 95
NT3	stainless steel-440	NT3	incoloy 800	NT2	steel-cr12
NT2	steel-cr17ni12mo3	NT3	incoloy 802	NT3	stainless steel-403
NT3	stainless steel-316	NT2	alloy-mo99	NT2	steel-cr12moniv
NT2	steel-cr17ni12mo3-l	NT3	alloy-tzm	NT2	steel-cr12mov
NT3	stainless steel-316l	NT3	alloy-zm-2a	NT3	alloy-ht-9
NT3	stainless steel-zcnd17-13	NT2	alloy-n-10m	NT2	steel-cr13
NT2	steel-cr17ni12monb	NT2	alloy-n-9m	NT3	stainless steel-410
NT2	steel-cr17ni13	NT2	alloy-ni41fe40cr16nb3	NT2	steel-cr13al
NT2	steel-cr17ni13mo2ti	NT3	inconel 706	NT3	stainless steel-405
NT2	steel-cr17ni13mo3ti	NT2	alloy-ni43fe30cr22mo3	NT2	steel-cr15ni15motib
NT2	steel-cr17ni4mo3	NT3	incoloy 825	NT2	steel-cr16
NT2	steel-cr17ni7	NT2	alloy-ni43fe33cr16mo3	NT3	stainless steel-430
NT3	stainless steel-301	NT3	nimonic pe16	NT2	steel-cr16ni
NT2	steel-cr18	NT2	alloy-ni46cr23co19ti5al4	NT2	steel-cr16ni13monbv
NT2	steel-cr18ni10	NT3	alloy-in-939	NT2	steel-cr16ni15mo3nb
NT3	stainless steel-18-10	NT2	alloy-ni49cr22fe18mo9	NT2	steel-cr16ni16monb
NT2	steel-cr18ni10-l	NT3	hastelloy x	NT2	steel-cr16ni8mo2
NT2	steel-cr18ni10ti	NT2	alloy-ni50co20cr15al5mo5	NT3	stainless steel-16-8-2
NT3	stainless steel-321	NT3	nimonic 105	NT2	steel-cr17cu4ni4nb-l
NT2	steel-cr18ni11	NT2	alloy-ni50cr22fe18mo9	NT3	stainless steel-17-4ph
NT3	steel-x6crni1811	NT3	hastelloy xr	NT2	steel-cr17mo
NT2	steel-cr18ni11nb	NT2	alloy-ni50mo32cr15si3	NT3	stainless steel-440
NT3	stainless steel-347	NT2	alloy-ni51cr48	NT2	steel-cr17ni12mo3
NT2	steel-cr18ni11nbco	NT3	inconel 671	NT3	stainless steel-316
NT3	stainless steel-348	NT2	alloy-ni53cr19fe19nb5mo3	NT2	steel-cr17ni12mo3-l
NT2	steel-cr18ni12	NT3	inconel 718	NT3	stainless steel-316l
NT3	stainless steel-305	NT2	alloy-ni54cr22co13mo9	NT3	stainless steel-zcnd17-13
NT2	steel-cr18ni12ti	NT3	inconel 617	NT2	steel-cr17ni12monb
NT2	steel-cr18ni8	NT2	alloy-ni54mo17cr16fe6w4	NT2	steel-cr17ni13
NT3	stainless steel-18-8	NT3	hastelloy c	NT2	steel-cr17ni13mo2ti
NT2	steel-cr18ni9	NT2	alloy-ni55cr19co11mo10ti3	NT2	steel-cr17ni13mo3ti
NT3	stainless steel-302	NT3	rene 41	NT2	steel-cr17ni4mo3
NT2	steel-cr18ni9ti	NT2	alloy-ni58cr20co14mo4ti3	NT2	steel-cr17ni7
NT2	steel-cr19ni10	NT3	waspaloy	NT3	stainless steel-301
NT3	stainless steel-304	NT2	alloy-ni59cr20co17ti2	NT2	steel-cr18ni10
NT2	steel-cr19ni10-l	NT2	alloy-ni59cr30fe9	NT3	stainless steel-18-10
NT3	stainless steel-304l	NT3	inconel 690	NT2	steel-cr18ni10-l
NT2	steel-cr20ni11	NT2	alloy-ni60co15cr10al6ti5mo3	NT2	steel-cr18ni10ti
NT3	stainless steel-308	NT3	alloy-in-100	NT3	stainless steel-321
NT2	steel-cr20ni11-l	NT2	alloy-ni60fe24cr16	NT2	steel-cr18ni11
NT3	stainless steel-308l	NT3	nichrome	NT3	steel-x6crni1811
NT2	steel-cr21mn9ni6	NT2	alloy-ni61cr16co9al3ti3w3	NT2	steel-cr18ni11nb
NT3	stainless steel-21-6-9	NT3	alloy-in-738	NT3	stainless steel-347
NT2	steel-cr23ni14	NT2	alloy-ni61cr22mo9nb4fe3	NT2	steel-cr18ni11nbco
NT3	stainless steel-309	NT3	inconel 625	NT3	stainless steel-348
NT3	stainless steel-309s	NT2	alloy-ni62cr16mo15fe3	NT2	steel-cr18ni12
NT2	steel-cr23ni18	NT3	hastelloy s	NT3	stainless steel-305

- NT2 steel-cr18ni12ti  
 NT2 steel-cr18ni8  
 NT3 stainless steel-18-8  
 NT2 steel-cr18ni9  
 NT3 stainless steel-302  
 NT2 steel-cr18ni9ti  
 NT2 steel-cr19ni10  
 NT3 stainless steel-304  
 NT2 steel-cr19ni10-l  
 NT3 stainless steel-304l  
 NT2 steel-cr20ni11  
 NT3 stainless steel-308  
 NT2 steel-cr20ni11-l  
 NT3 stainless steel-308l  
 NT2 steel-cr21mn9ni6  
 NT3 stainless steel-21-6-9  
 NT2 steel-cr23ni14  
 NT3 stainless steel-309  
 NT3 stainless steel-309s  
 NT2 steel-cr23ni18  
 NT2 steel-cr25  
 NT3 stainless steel-446  
 NT2 steel-cr25ni20  
 NT3 alloy-hk-40  
 NT3 stainless steel-310  
 NT2 steel-cr2moninb  
 NT2 steel-cr2mov  
 NT2 steel-ni25cr20  
 NT3 stainless steel-20-25  
 NT2 steel-ni26cr15ti2movalb  
 NT3 alloy-a-286  
 NT2 steel-nimocr  
 NT2 tophet  
 NT2 tribaloy 800  
 NT2 udimet alloys  
 NT3 alloy-ni53co19cr15mo5al4ti3  
 NT4 udimet 700  
 NT3 udimet 500  
 NT1 incoloy alloys  
 NT2 alloy-fe44ni33cr21  
 NT3 incoloy 800h  
 NT2 alloy-fe46ni33cr21  
 NT3 incoloy 800  
 NT3 incoloy 802  
 NT2 alloy-ni43fe30cr22mo3  
 NT3 incoloy 825  
 NT2 incoloy 901  
 NT1 indium alloys  
 NT2 indium additions  
 NT2 indium base alloys  
 NT1 intermetallic compounds  
 NT2 cementite  
 NT1 lead alloys  
 NT2 alloy-bi50pb25cd12sn12  
 NT3 wood metal  
 NT2 cerrobend alloys  
 NT2 lead additions  
 NT2 lead base alloys  
 NT3 terne-metal  
 NT2 lichtenberg alloy  
 NT2 newton-metal  
 NT2 ounce metal  
 NT2 rose-metal  
 NT1 lithium alloys  
 NT2 lithium additions  
 NT2 lithium base alloys  
 NT1 magnesium alloys  
 NT2 duralumin  
 NT2 magnalium  
 NT2 magnesium additions  
 NT3 alloy-al95cu4  
 NT4 duralumin  
 NT3 bondur  
 NT3 zamak  
 NT2 magnesium base alloys  
 NT3 magnesium alloy-az31b  
 NT3 magnesium alloy-ek  
 NT3 magnesium alloy-ez  
 NT3 magnesium alloy-hk31a  
 NT3 magnesium alloy-zr  
 NT3 magnox  
 NT1 mercury alloys  
 NT2 mercury additions  
 NT2 mercury base alloys  
 NT1 nitrogen additions  
 NT2 steel-cr21mn9ni6  
 NT3 stainless steel-21-6-9  
 NT2 steel-nicrmo  
 NT1 phosphorus additions  
 NT1 polonium alloys  
 NT1 potassium alloys  
 NT2 potassium base alloys  
 NT1 rare earth alloys  
 NT2 cerium alloys  
 NT3 cerium additions  
 NT3 cerium base alloys  
 NT4 misch metal  
 NT2 dysprosium alloys  
 NT3 dysprosium additions  
 NT3 dysprosium base alloys  
 NT2 erbium alloys  
 NT3 erbium additions  
 NT3 erbium base alloys  
 NT2 europium alloys  
 NT3 europium additions  
 NT3 europium base alloys  
 NT2 gadolinium alloys  
 NT3 gadolinium additions  
 NT3 gadolinium base alloys  
 NT2 holmium alloys  
 NT3 holmium additions  
 NT3 holmium base alloys  
 NT2 lanthanum alloys  
 NT3 lanthanum additions  
 NT4 alloy-co36cr22ni22w15fe3  
 NT5 haynes 188 alloy  
 NT3 lanthanum base alloys  
 NT3 misch metal  
 NT2 lutetium alloys  
 NT3 lutetium additions  
 NT3 lutetium base alloys  
 NT2 magnesium alloy-ek  
 NT2 magnesium alloy-ez  
 NT2 neodymium alloys  
 NT3 neodymium additions  
 NT3 neodymium base alloys  
 NT2 praseodymium alloys  
 NT3 praseodymium base alloys  
 NT2 rare earth additions  
 NT3 cerium additions  
 NT3 dysprosium additions  
 NT3 erbium additions  
 NT3 europium additions  
 NT3 gadolinium additions  
 NT3 holmium additions  
 NT3 lanthanum additions  
 NT4 alloy-co36cr22ni22w15fe3  
 NT5 haynes 188 alloy  
 NT3 lutetium additions  
 NT3 neodymium additions  
 NT3 praseodymium additions  
 NT3 promethium additions  
 NT3 samarium additions  
 NT3 terbium additions  
 NT3 thulium additions  
 NT3 ytterbium additions  
 NT2 samarium alloys  
 NT3 samarium additions  
 NT3 samarium base alloys  
 NT2 terbium alloys  
 NT3 terbium additions  
 NT3 terbium base alloys  
 NT2 thulium alloys  
 NT3 thulium additions  
 NT3 thulium base alloys  
 NT2 ytterbium alloys  
 NT3 ytterbium base alloys  
 NT1 rubidium alloys  
 NT2 rubidium additions  
 NT2 rubidium base alloys  
 NT1 selenium alloys  
 NT2 selenium additions  
 NT1 silicon alloys  
 NT2 alloy-mo-re-1  
 NT2 alloy-ni50mo32cr15si3  
 NT2 alloy-ra-333  
 NT2 cast iron  
 NT2 colmonoy  
 NT2 duriron  
 NT2 silicon additions  
 NT3 alloy-al95cu4  
 NT4 duralumin  
 NT3 alloy-fe40ni35cr22  
 NT3 alloy-hs-31  
 NT3 alloy-n28t3  
 NT3 alloy-ni78cr21  
 NT3 alloy-ni80cr20  
 NT3 alloy-ni94mn3al2  
 NT4 aludel  
 NT3 alloy-s-816  
 NT3 alloy-v-36  
 NT3 aludur  
 NT3 ascology  
 NT3 bondur  
 NT3 discaloy  
 NT3 duranickel  
 NT3 miduale  
 NT3 ni-hard  
 NT3 stainless steel-zcnd17-13  
 NT3 steel-cr16ni9mo2  
 NT2 supertherm  
 NT2 tribaloy 800  
 NT1 sodium alloys  
 NT2 sodium additions  
 NT2 sodium base alloys  
 NT1 strontium alloys  
 NT2 strontium additions  
 NT1 sulfur additions  
 NT2 ni-hard  
 NT1 tellurium alloys  
 NT2 tellurium additions  
 NT1 thallium alloys  
 NT2 thallium additions  
 NT2 thallium base alloys  
 NT1 tin alloys  
 NT2 alloy-bi50pb25cd12sn12  
 NT3 wood metal  
 NT2 alloy-zr98sn-2  
 NT3 zircaloy 2  
 NT2 alloy-zr98sn-4  
 NT3 zircaloy 4  
 NT2 bronze  
 NT2 cerrobend alloys  
 NT2 lichtenberg alloy  
 NT2 newton-metal  
 NT2 ounce metal  
 NT2 rose-metal  
 NT2 terne-metal  
 NT2 tin additions  
 NT3 zamak  
 NT2 tin base alloys  
 NT1 transition element alloys  
 NT2 chromium alloys  
 NT3 alloy-b-1900  
 NT3 alloy-co36cr22ni22w15fe3  
 NT4 haynes 188 alloy  
 NT3 alloy-co43cr20fe18ni13w3  
 NT4 havar  
 NT3 alloy-co54cr20w15ni10  
 NT4 alloy-hs-25  
 NT4 haynes 25 alloy  
 NT3 alloy-co60cr30w4  
 NT4 stellite 6  
 NT3 alloy-d-979  
 NT3 alloy-fe40ni35cr22  
 NT3 alloy-fe44ni33cr21  
 NT4 incoloy 800h

- NT3** alloy-fe46ni33cr21  
**NT4** incoloy 800  
**NT4** incoloy 802  
**NT3** alloy-in-102  
**NT3** alloy-khn50mbvyyu  
**NT3** alloy-mar-m246  
**NT3** alloy-mn-21  
**NT3** alloy-mo-re-1  
**NT3** alloy-mp35n  
**NT3** alloy-ni41fe40cr16nb3  
**NT4** inconel 706  
**NT3** alloy-ni43fe30cr22mo3  
**NT4** incoloy 825  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni45fe34cr20  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni49cr22fe18mo9  
**NT4** hastelloy x  
**NT3** alloy-ni50co20cr15al5mo5  
**NT4** nimonic 105  
**NT3** alloy-ni50cr22fe18mo9  
**NT4** hastelloy xr  
**NT3** alloy-ni50mo32cr15si3  
**NT3** alloy-ni51cr48  
**NT4** inconel 671  
**NT3** alloy-ni53cr19fe19nb5mo3  
**NT4** inconel 718  
**NT3** alloy-ni54cr22co13mo9  
**NT4** inconel 617  
**NT3** alloy-ni54mo17cr16fe6w4  
**NT4** hastelloy c  
**NT3** alloy-ni55co17cr15mo5al4ti4  
**NT4** astroloy  
**NT3** alloy-ni55cr19co11mo10ti3  
**NT4** rene 41  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni59cr30fe9  
**NT4** inconel 690  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni60fe24cr16  
**NT4** nichrome  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni61cr22mo9nb4fe3  
**NT4** inconel 625  
**NT3** alloy-ni61cr23fe14  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** alloy-ni65cr25mo10  
**NT4** nimonic 86  
**NT3** alloy-ni70mo17cr7fe5  
**NT4** hastelloy n  
**NT4** inor-8  
**NT3** alloy-ni73cr15fe7ti3  
**NT4** inconel x750  
**NT3** alloy-ni73cr20mn3nb3  
**NT4** inconel 82  
**NT3** alloy-ni74cr13al6mo4  
**NT4** inconel 713c  
**NT3** alloy-ni75cr12al6mo5  
**NT4** inconel 713lc  
**NT3** alloy-ni76cr15fe8  
**NT4** inconel 600  
**NT3** alloy-ni76cr20ti2  
**NT4** nimonic 80a  
**NT3** alloy-ni77cr20ti2  
**NT3** alloy-ni78cr21  
**NT3** alloy-ni80cr20  
**NT3** alloy-ra-333  
**NT3** alloy-s-590  
**NT3** alloy-s-816  
**NT3** alloy-ti78cr11mo7al3  
**NT3** alloy-ti88mo8al3  
**NT3** alloy-ti91al5cr2
- NT3** alloy-v-36  
**NT3** alloy-v87cr9fe3  
**NT3** ascoloy  
**NT3** chromium additions  
**NT4** alloy-ni65mo28fe5  
**NT5** hastelloy b  
**NT4** alloy-zr98sn-2  
**NT5** zircaloy 2  
**NT4** alloy-zr98sn-4  
**NT5** zircaloy 4  
**NT4** steel-crm0  
**NT4** steel-crni  
**NT4** steel-mncumo  
**NT5** steel-astm-a537  
**NT4** steel-ni3cr  
**NT4** steel-nicr  
**NT4** steel-nicrmo  
**NT4** steel-nimocr  
**NT3** chromium base alloys  
**NT4** alloy-mo-re-2  
**NT3** chromium-nickel steels  
**NT4** alloy-d-9  
**NT4** carpenter  
**NT4** chromium-nickel-molybdenum steels  
**NT5** alloy-m-813  
**NT5** steel-cr11ni10mo2ti-1  
**NT5** steel-cr15ni15motib  
**NT5** steel-cr16ni13monbv  
**NT5** steel-cr16ni15mo3nb  
**NT5** steel-cr16ni16monb  
**NT5** steel-cr16ni8mo2  
**NT6** stainless steel-16-8-2  
**NT5** steel-cr16ni9mo2  
**NT5** steel-cr17ni12mo3  
**NT6** stainless steel-316  
**NT5** steel-cr17ni12mo3-l  
**NT6** stainless steel-316l  
**NT6** stainless steel-zcnd17-13  
**NT5** steel-cr17ni12monb  
**NT5** steel-cr17ni13mo2ti  
**NT5** steel-cr17ni13mo3ti  
**NT5** steel-ni26cr15ti2movalb  
**NT6** alloy-a-286  
**NT4** durco  
**NT4** endure  
**NT4** stainless steel-17-7ph  
**NT4** stainless steel-303  
**NT4** stainless steel-329  
**NT4** stainless steel-ph-15-7-mo  
**NT4** steel-cr17ni13  
**NT4** steel-cr17ni7  
**NT5** stainless steel-301  
**NT4** steel-cr18ni10  
**NT5** stainless steel-18-10  
**NT4** steel-cr18ni10-l  
**NT4** steel-cr18ni10ti  
**NT5** stainless steel-321  
**NT4** steel-cr18ni11  
**NT5** steel-x6crni1811  
**NT4** steel-cr18ni11nb  
**NT5** stainless steel-347  
**NT4** steel-cr18ni11nbco  
**NT5** stainless steel-348  
**NT4** steel-cr18ni12  
**NT5** stainless steel-305  
**NT4** steel-cr18ni12ti  
**NT4** steel-cr18ni8  
**NT5** stainless steel-18-8  
**NT4** steel-cr18ni9  
**NT5** stainless steel-302  
**NT4** steel-cr18ni9ti  
**NT4** steel-cr19ni10  
**NT5** stainless steel-304  
**NT4** steel-cr19ni10-l  
**NT5** stainless steel-304l  
**NT4** steel-cr20ni11  
**NT5** stainless steel-308  
**NT4** steel-cr20ni11-l
- NT5** stainless steel-308l  
**NT4** steel-cr23ni14  
**NT5** stainless steel-309  
**NT5** stainless steel-309s  
**NT4** steel-cr23ni18  
**NT4** steel-cr25ni20  
**NT5** alloy-hk-40  
**NT5** stainless steel-310  
**NT4** steel-ni25cr20  
**NT5** stainless steel-20-25  
**NT4** steel-ni36cr12ti3al-l  
**NT4** timken alloys  
**NT3** chromium steels  
**NT4** chromium-molybdenum steels  
**NT5** chromium-nickel-molybdenum steels  
**NT6** alloy-m-813  
**NT6** steel-cr11ni10mo2ti-1  
**NT6** steel-cr15ni15motib  
**NT6** steel-cr16ni13monbv  
**NT6** steel-cr16ni15mo3nb  
**NT6** steel-cr16ni16monb  
**NT6** steel-cr16ni8mo2  
**NT7** stainless steel-16-8-2  
**NT6** steel-cr16ni9mo2  
**NT6** steel-cr17ni12mo3  
**NT7** stainless steel-316  
**NT6** steel-cr17ni12mo3-l  
**NT7** stainless steel-316l  
**NT7** stainless steel-zcnd17-13  
**NT6** steel-cr17ni12monb  
**NT6** steel-cr17ni13mo2ti  
**NT6** steel-cr17ni13mo3ti  
**NT6** steel-ni26cr15ti2movalb  
**NT7** alloy-a-286  
**NT4** magnet steel-ks  
**NT4** miduale  
**NT4** stainless steel-406  
**NT4** steel-cr10mo2  
**NT4** steel-cr12  
**NT5** stainless steel-403  
**NT4** steel-cr12moniv  
**NT4** steel-cr12mov  
**NT5** alloy-ht-9  
**NT4** steel-cr13  
**NT5** stainless steel-410  
**NT4** steel-cr13al  
**NT5** stainless steel-405  
**NT4** steel-cr16  
**NT5** stainless steel-430  
**NT4** steel-cr16ni  
**NT4** steel-cr17cu4ni4nb-l  
**NT5** stainless steel-17-4ph  
**NT4** steel-cr17mo  
**NT5** stainless steel-440  
**NT4** steel-cr17ni4mo3  
**NT4** steel-cr18  
**NT4** steel-cr25  
**NT5** stainless steel-446  
**NT4** steel-cr9mo  
**NT4** steel-cr9monbv  
**NT3** colmonoy  
**NT3** discaloy  
**NT3** ge 2541  
**NT3** hoskins 875  
**NT3** illium  
**NT3** incoloy 901  
**NT3** kanthal  
**NT3** konel  
**NT3** magnesium alloy-zr  
**NT3** misco metal  
**NT3** ni-hard  
**NT3** ni-o-nel  
**NT3** microbraz 50  
**NT3** nimonic 115  
**NT3** rene-100  
**NT3** rene 80  
**NT3** rene 95  
**NT3** sicromo 9m



- NT3** steel-cd-4mcu  
**NT3** steel-cr21mn9ni6  
**NT4** stainless steel-21-6-9  
**NT3** steel-cr2mo  
**NT4** steel-astm-a542  
**NT3** steel-cr2moninb  
**NT3** steel-cr2mov  
**NT3** steel-cr2nimov  
**NT3** steel-cr5mo  
**NT3** steel-cralnimo  
**NT3** steel-crmov  
**NT3** steel-ni3crmo  
**NT4** steel-astm-a543  
**NT3** steel-ni3crmov  
**NT3** steel-ni4crw  
**NT3** supertherm  
**NT3** sweetalloy  
**NT3** td-nickel chromium  
**NT3** tophet  
**NT3** tribaloy 400  
**NT3** tribaloy 800  
**NT3** udimet alloys  
**NT4** alloy-ni53co19cr15mo5al4ti3  
**NT5** udimet 700  
**NT4** udimet 500  
**NT3** vitallium  
**NT2** cobalt alloys  
**NT3** alloy-b-1900  
**NT3** alloy-fe44ni33cr21  
**NT4** incoloy 800h  
**NT3** alloy-fe53ni29co18  
**NT4** kovar  
**NT3** alloy-mar-m246  
**NT3** alloy-mp35n  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni49cr22fe18mo9  
**NT4** hastelloy x  
**NT3** alloy-ni50co20cr15al5mo5  
**NT4** nimonic 105  
**NT3** alloy-ni54cr22co13mo9  
**NT4** inconel 617  
**NT3** alloy-ni54mo17cr16fe6w4  
**NT4** hastelloy c  
**NT3** alloy-ni55co17cr15mo5al4ti4  
**NT4** astroloy  
**NT3** alloy-ni55cr19co11mo10ti3  
**NT4** rene 41  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni65mo28fe5  
**NT4** hastelloy b  
**NT3** alloy-ra-333  
**NT3** alloy-s-590  
**NT3** alloy-s-816  
**NT3** alloy-v-36  
**NT3** alloy-yundk 25ba  
**NT3** alnico alloys  
**NT3** carboloy  
**NT3** cobalt additions  
**NT4** alloy-ni43fe33cr16mo3  
**NT5** nimonic pe16  
**NT4** alloy-ni62cr16mo15fe3  
**NT5** hastelloy s  
**NT4** steel-cr18ni11nbco  
**NT5** stainless steel-348  
**NT3** cobalt base alloys  
**NT4** alloy-co43cr20fe18ni13w3  
**NT5** havar  
**NT4** alloy-co50fe50  
**NT5** permendur  
**NT4** alloy-co52fe35v10  
**NT4** haynes alloys  
**NT5** alloy-co36cr22ni22w15fe3  
**NT6** haynes 188 alloy  
**NT5** alloy-co54cr20w15ni10  
**NT6** alloy-hs-25  
**NT6** haynes 25 alloy  
**NT5** alloy-co60cr30w4  
**NT6** stellite 6  
**NT4** mar-m509 alloys  
**NT4** stellite  
**NT5** alloy-co54cr20w15ni10  
**NT6** alloy-hs-25  
**NT6** haynes 25 alloy  
**NT5** alloy-co60cr30w4  
**NT6** stellite 6  
**NT5** alloy-hs-31  
**NT4** tribaloy 400  
**NT4** tribaloy 800  
**NT3** cunico  
**NT3** hiperco  
**NT3** kanthal  
**NT3** konel  
**NT3** magnet steel-ks  
**NT3** nimonic 115  
**NT3** rene-100  
**NT3** rene 80  
**NT3** rene 95  
**NT3** supertherm  
**NT3** timken alloys  
**NT3** udimet alloys  
**NT4** alloy-ni53co19cr15mo5al4ti3  
**NT5** udimet 700  
**NT4** udimet 500  
**NT3** vitallium  
**NT2** copper alloys  
**NT3** alloy-al95cu4  
**NT4** duralumin  
**NT3** alloy-ni43fe30cr22mo3  
**NT4** incoloy 825  
**NT3** alloy-ni66cu32  
**NT4** monel 400  
**NT3** alloy-yundk 25ba  
**NT3** bondur  
**NT3** copper additions  
**NT4** alloy-ni43fe33cr16mo3  
**NT5** nimonic pe16  
**NT4** alloy-ni60co15cr10al6ti5mo3  
**NT5** alloy-in-100  
**NT4** duranickel  
**NT4** steel-cr2mov  
**NT4** steel-cr2nimov  
**NT4** steel-crmov  
**NT4** steel-crni  
**NT4** steel-mncumo  
**NT5** steel-astm-a537  
**NT4** steel-ni3cr  
**NT4** steel-ni4crw  
**NT4** steel-nicr  
**NT4** steel-nicrmo  
**NT3** copper base alloys  
**NT4** alloy-cu52ni47  
**NT5** constantan  
**NT4** alloy-cu70ni30  
**NT4** alloy-cu90ni10  
**NT4** brass  
**NT5** brass-alpha  
**NT5** brass-beta  
**NT4** bronze  
**NT4** heusler alloys  
**NT4** manganin  
**NT4** muntz metal  
**NT4** nickeline alloy  
**NT4** ounce metal  
**NT4** tungsten bronze  
**NT3** cunico  
**NT3** heddur  
**NT3** illium  
**NT3** lynite  
**NT3** magnalium  
**NT3** ni-o-nel  
**NT3** steel-cd-4mcu  
**NT3** steel-cr17cu4ni4nb-1  
**NT4** stainless steel-17-4ph  
**NT3** steel-in-787  
**NT3** zamak  
**NT2** gold alloys  
**NT3** gold additions  
**NT3** gold base alloys  
**NT4** palau  
**NT2** hafnium alloys  
**NT3** alloy-c-103  
**NT3** alloy-ta90w8hf  
**NT4** tantalum alloy-t111  
**NT3** hafnium additions  
**NT4** astar 811c  
**NT3** hafnium base alloys  
**NT2** iron alloys  
**NT3** alloy-co36cr22ni22w15fe3  
**NT4** haynes 188 alloy  
**NT3** alloy-co43cr20fe18ni13w3  
**NT4** havar  
**NT3** alloy-co52fe35v10  
**NT3** alloy-co54cr20w15ni10  
**NT4** alloy-hs-25  
**NT4** haynes 25 alloy  
**NT3** alloy-co60cr30w4  
**NT4** stellite 6  
**NT3** alloy-hs-31  
**NT3** alloy-in-102  
**NT3** alloy-khn50mbvyu  
**NT3** alloy-mo-re-1  
**NT3** alloy-ni41fe40cr16nb3  
**NT4** inconel 706  
**NT3** alloy-ni43fe30cr22mo3  
**NT4** incoloy 825  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni45fe34cr20  
**NT3** alloy-ni49cr22fe18mo9  
**NT4** hastelloy x  
**NT3** alloy-ni50co20cr15al5mo5  
**NT4** nimonic 105  
**NT3** alloy-ni50cr22fe18mo9  
**NT4** hastelloy xr  
**NT3** alloy-ni53cr19fe19nb5mo3  
**NT4** inconel 718  
**NT3** alloy-ni54mo17cr16fe6w4  
**NT4** hastelloy c  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni59cr30fe9  
**NT4** inconel 690  
**NT3** alloy-ni60fe24cr16  
**NT4** nichrome  
**NT3** alloy-ni61cr22mo9nb4fe3  
**NT4** inconel 625  
**NT3** alloy-ni61cr23fe14  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** alloy-ni66cu32  
**NT4** monel 400  
**NT3** alloy-ni70mo17cr7fe5  
**NT4** hastelloy n  
**NT4** inor-8  
**NT3** alloy-ni73cr15fe7ti3  
**NT4** inconel x750  
**NT3** alloy-ni76cr15fe8  
**NT4** inconel 600  
**NT3** alloy-ni77cr20ti2  
**NT3** alloy-ni78cr21  
**NT3** alloy-ni79fe16mo4  
**NT3** alloy-ra-333  
**NT3** alloy-s-816  
**NT3** alloy-v-36  
**NT3** alloy-v87cr9fe3  
**NT3** alloy-yundk 25ba  
**NT3** austenite  
**NT3** colmonoy  
**NT3** ferrite

<b>NT3</b> incoloy 901	<b>NT6</b> steel-cr18ni12ti	<b>NT9</b> steel-cr17ni13mo3ti
<b>NT3</b> iron additions	<b>NT6</b> steel-cr18ni8	<b>NT9</b> steel-ni26cr15ti2moyalb
<b>NT4</b> alloy-al95cu4	<b>NT7</b> stainless steel-18-8	<b>NT10</b> alloy-a-286
<b>NT5</b> duralumin	<b>NT6</b> steel-cr18ni9	<b>NT8</b> durco
<b>NT4</b> alloy-ni46cr23co19ti5al4	<b>NT7</b> stainless steel-302	<b>NT8</b> enduro
<b>NT5</b> alloy-in-939	<b>NT6</b> steel-cr18ni9ti	<b>NT8</b> stainless steel-17-7ph
<b>NT4</b> alloy-ni60co15cr10al6ti5mo3	<b>NT6</b> steel-cr19ni10	<b>NT8</b> stainless steel-303
<b>NT5</b> alloy-in-100	<b>NT7</b> stainless steel-304	<b>NT8</b> stainless steel-329
<b>NT4</b> alloy-ni73cr20mn3nb3	<b>NT6</b> steel-cr19ni10-l	<b>NT8</b> stainless steel-ph-15-7-mo
<b>NT5</b> inconel 82	<b>NT7</b> stainless steel-304l	<b>NT8</b> steel-cr17ni13
<b>NT4</b> alloy-ni80cr20	<b>NT6</b> steel-cr20ni11	<b>NT8</b> steel-cr17ni7
<b>NT4</b> alloy-ti88mo8al3	<b>NT7</b> stainless steel-308	<b>NT9</b> stainless steel-301
<b>NT4</b> alloy-ti90al6mo3	<b>NT6</b> steel-cr20ni11-l	<b>NT8</b> steel-cr18ni10
<b>NT4</b> alloy-ti90al6v4	<b>NT7</b> stainless steel-308l	<b>NT9</b> stainless steel-18-10
<b>NT4</b> alloy-ti91al4mo3	<b>NT6</b> steel-cr21mn9ni6	<b>NT8</b> steel-cr18ni10-l
<b>NT4</b> alloy-ti91al5cr2	<b>NT7</b> stainless steel-21-6-9	<b>NT8</b> steel-cr18ni10ti
<b>NT4</b> alloy-zr98sn-2	<b>NT6</b> steel-cr23ni14	<b>NT9</b> stainless steel-321
<b>NT5</b> zircaloy 2	<b>NT7</b> stainless steel-309	<b>NT8</b> steel-cr18ni11
<b>NT4</b> alloy-zr98sn-4	<b>NT7</b> stainless steel-309s	<b>NT9</b> steel-x6crni1811
<b>NT5</b> zircaloy 4	<b>NT6</b> steel-cr23ni18	<b>NT8</b> steel-cr18ni1nb
<b>NT4</b> aludur	<b>NT6</b> steel-cr25ni20	<b>NT9</b> stainless steel-347
<b>NT4</b> duranickel	<b>NT7</b> alloy-hk-40	<b>NT8</b> steel-cr18ni1nbco
<b>NT4</b> rene 95	<b>NT7</b> stainless steel-310	<b>NT9</b> stainless steel-348
<b>NT4</b> zamak	<b>NT6</b> steel-ni25cr20	<b>NT8</b> steel-cr18ni12
<b>NT3</b> iron base alloys	<b>NT7</b> stainless steel-20-25	<b>NT9</b> stainless steel-305
<b>NT4</b> alloy-co50fe50	<b>NT6</b> steel-ni26cr15ti2moyalb	<b>NT8</b> steel-cr18ni12ti
<b>NT5</b> permendur	<b>NT7</b> alloy-a-286	<b>NT8</b> steel-cr18ni8
<b>NT4</b> alloy-fe40ni35cr22	<b>NT5</b> carbon steels	<b>NT9</b> stainless steel-18-8
<b>NT4</b> alloy-fe44ni33cr21	<b>NT6</b> steel-astm-a105	<b>NT8</b> steel-cr18ni9
<b>NT5</b> incoloy 800h	<b>NT6</b> steel-astm-a106	<b>NT9</b> stainless steel-302
<b>NT4</b> alloy-fe46ni33cr21	<b>NT6</b> steel-astm-a212	<b>NT8</b> steel-cr18ni9ti
<b>NT5</b> incoloy 800	<b>NT6</b> steel-astm-a285	<b>NT8</b> steel-cr19ni10
<b>NT5</b> incoloy 802	<b>NT6</b> steel-astm-a516	<b>NT9</b> stainless steel-304
<b>NT4</b> alloy-fe53ni29co18	<b>NT6</b> steel-astm-a533-b	<b>NT8</b> steel-cr19ni10-l
<b>NT5</b> kovar	<b>NT6</b> steel-in-787	<b>NT9</b> stainless steel-304l
<b>NT4</b> alnico alloys	<b>NT6</b> steel-sae-1045	<b>NT8</b> steel-cr20ni11
<b>NT4</b> ascaloy	<b>NT5</b> croloy	<b>NT9</b> stainless steel-308
<b>NT4</b> cast iron	<b>NT6</b> steel-cr13	<b>NT8</b> steel-cr20ni11-l
<b>NT4</b> discaloy	<b>NT7</b> stainless steel-410	<b>NT9</b> stainless steel-308l
<b>NT4</b> duriron	<b>NT6</b> steel-cr16	<b>NT8</b> steel-cr23ni14
<b>NT4</b> ge 2541	<b>NT7</b> stainless steel-430	<b>NT9</b> stainless steel-309
<b>NT4</b> hiperco	<b>NT6</b> steel-cr18ni10	<b>NT9</b> stainless steel-309s
<b>NT4</b> hoskins 875	<b>NT7</b> stainless steel-18-10	<b>NT8</b> steel-cr23ni18
<b>NT4</b> invar	<b>NT6</b> steel-cr2mo	<b>NT8</b> steel-cr25ni20
<b>NT4</b> kanthal	<b>NT7</b> steel-astm-a542	<b>NT9</b> alloy-hk-40
<b>NT4</b> sicromo 9m	<b>NT6</b> steel-cr5mo	<b>NT9</b> stainless steel-310
<b>NT4</b> steel-cd-4mcu	<b>NT5</b> ferritic steels	<b>NT8</b> steel-ni25cr20
<b>NT4</b> steels	<b>NT6</b> steel-cr12moniv	<b>NT9</b> stainless steel-20-25
<b>NT5</b> austenitic steels	<b>NT6</b> steel-cr13al	<b>NT8</b> steel-ni36cr12ti3al-l
<b>NT6</b> steel-cr15ni15motib	<b>NT7</b> stainless steel-405	<b>NT8</b> timken alloys
<b>NT6</b> steel-cr16ni13monbv	<b>NT6</b> steel-cr16	<b>NT7</b> chromium steels
<b>NT6</b> steel-cr16ni15mo3nb	<b>NT7</b> stainless steel-430	<b>NT8</b> chromium-molybdenum steels
<b>NT6</b> steel-cr16ni16monb	<b>NT6</b> steel-cr25	<b>NT9</b> chromium-nickel-molybdenum steels
<b>NT6</b> steel-cr16ni8mo2	<b>NT7</b> stainless steel-446	<b>NT10</b> alloy-m-813
<b>NT7</b> stainless steel-16-8-2	<b>NT6</b> steel-cr9mo	<b>NT10</b> steel-cr11ni10mo2ti-l
<b>NT6</b> steel-cr17ni12mo3	<b>NT6</b> steel-cr9monbv	<b>NT10</b> steel-cr15ni15motib
<b>NT7</b> stainless steel-316	<b>NT5</b> high alloy steels	<b>NT10</b> steel-cr16ni13monbv
<b>NT6</b> steel-cr17ni12mo3-l	<b>NT6</b> stainless steels	<b>NT10</b> steel-cr16ni15mo3nb
<b>NT7</b> stainless steel-316l	<b>NT7</b> chromium-nickel steels	<b>NT10</b> steel-cr16ni16monb
<b>NT7</b> stainless steel-zcnd17-13	<b>NT8</b> alloy-d-9	<b>*NT10</b> steel-cr16ni16monb
<b>NT6</b> steel-cr17ni12monb	<b>NT8</b> carpenter	<b>*NT10</b> steel-cr16ni16monb
<b>NT6</b> steel-cr17ni13	<b>NT8</b> chromium-nickel-molybdenum steels	<b>*NT10</b> steel-cr16ni8mo2
<b>NT6</b> steel-cr17ni13mo2ti	<b>NT9</b> alloy-m-813	<b>NT10</b> steel-cr16ni9mo2
<b>NT6</b> steel-cr17ni13mo3ti	<b>NT9</b> steel-cr11ni10mo2ti-l	<b>*NT10</b> steel-cr17ni12mo3
<b>NT6</b> steel-cr17ni7	<b>NT9</b> steel-cr15ni15motib	<b>*NT10</b> steel-cr17ni12mo3-l
<b>NT7</b> stainless steel-301	<b>NT9</b> steel-cr16ni13monbv	<b>NT10</b> steel-cr17ni12monb
<b>NT6</b> steel-cr18ni10	<b>NT9</b> steel-cr16ni15mo3nb	<b>NT10</b> steel-cr17ni13mo2ti
<b>NT7</b> stainless steel-18-10	<b>NT9</b> steel-cr16ni16monb	<b>NT10</b> steel-cr17ni13mo3ti
<b>NT6</b> steel-cr18ni10-l	<b>NT9</b> steel-cr16ni8mo2	<b>*NT10</b> steel-ni26cr15ti2moyalb
<b>NT6</b> steel-cr18ni10ti	<b>NT9</b> steel-cr17ni12mo3	<b>NT8</b> magnet steel-k8
<b>NT7</b> stainless steel-321	<b>NT10</b> stainless steel-16-8-2	<b>NT8</b> miduale
<b>NT6</b> steel-cr18ni11	<b>NT9</b> steel-cr16ni9mo2	<b>NT8</b> stainless steel-406
<b>NT7</b> steel-x6crni1811	<b>NT9</b> steel-cr17ni12mo3	<b>NT8</b> steel-cr10mo2
<b>NT6</b> steel-cr18ni11nb	<b>NT10</b> stainless steel-316	<b>NT8</b> steel-cr12
<b>NT7</b> stainless steel-347	<b>NT9</b> steel-cr17ni12mo3-l	
<b>NT6</b> steel-cr18ni11nbco	<b>NT10</b> stainless steel-316l	
<b>NT7</b> stainless steel-348	<b>NT10</b> stainless steel-zcnd17-13	
<b>NT6</b> steel-cr18ni12	<b>NT9</b> steel-cr17ni12monb	
<b>NT7</b> stainless steel-305	<b>NT9</b> steel-cr17ni13mo2ti	

- NT9** stainless steel-403  
**NT8** steel-cr12moniv  
**NT8** steel-cr12mov  
**NT9** alloy-ht-9  
**NT8** steel-cr13  
**NT9** stainless steel-410  
**NT8** steel-cr13al  
**NT9** stainless steel-405  
**NT8** steel-cr16  
**NT9** stainless steel-430  
**NT8** steel-cr16ni  
**NT8** steel-cr17cu4ni4nb-l  
**NT9** stainless steel-17-4ph  
**NT8** steel-cr17mo  
**NT9** stainless steel-440  
**NT8** steel-cr17ni4mo3  
**NT8** steel-cr18  
**NT8** steel-cr25  
**NT9** stainless steel-446  
**NT8** steel-cr9mo  
**NT8** steel-cr9monbv  
**NT7** low carbon-high alloy steels  
**NT8** steel-cr11ni10mo2ti-l  
**NT8** steel-cr17cu4ni4nb-l  
**NT9** stainless steel-17-4ph  
**NT8** steel-cr17ni12mo3-l  
**NT9** stainless steel-316l  
**NT9** stainless steel-zcnd17-13  
**NT8** steel-cr18ni10-l  
**NT8** steel-cr19ni10-l  
**NT9** stainless steel-304l  
**NT8** steel-cr20ni11-l  
**NT9** stainless steel-308l  
**NT8** steel-ni36cr12ti3al-l  
**NT7** stainless steel-317  
**NT7** stainless steel-318  
**NT7** stainless steel-422  
**NT7** stainless steel-fv-548  
**NT7** stainless steel-jbk-75  
**NT7** stainless steel m-50  
**NT7** steel-cr21mn9ni6  
**NT8** stainless steel-21-6-9  
**NT7** sweetalloy  
**NT5** low alloy steels  
**NT6** steel-astm-a350  
**NT6** steel-astm-a387  
**NT6** steel-astm-a508  
**NT6** steel-astm-a533  
**NT6** steel-cr2mo  
**NT7** steel-astm-a542  
**NT6** steel-cr2moninb  
**NT6** steel-cr2mov  
**NT6** steel-cr2nimov  
**NT6** steel-cr5mo  
**NT6** steel-cralnimo  
**NT6** steel-crmno  
**NT6** steel-crmov  
**NT6** steel-crni  
**NT6** steel-mncumo  
**NT7** steel-astm-a537  
**NT6** steel-mnmo  
**NT7** steel-astm-a302  
**NT6** steel-mnnimo  
**NT7** steel-astm-a533-b  
**NT6** steel-mnnimov  
**NT6** steel-ni3cr  
**NT6** steel-ni3crmo  
**NT7** steel-astm-a543  
**NT6** steel-ni3crmov  
**NT6** steel-ni4crw  
**NT6** steel-nicr  
**NT6** steel-nicrmo  
**NT6** steel-nimocr  
**NT5** manganese steels  
**NT5** martensitic steels  
**NT6** maraging steels  
**NT6** steel-cr10mo2  
**NT6** steel-cr12  
**NT7** stainless steel-403  
**NT6** steel-cr12mov  
**NT7** alloy-ht-9  
**NT6** steel-cr13  
**NT7** stainless steel-410  
**NT6** steel-cr16ni  
**NT6** steel-cr17cu4ni4nb-l  
**NT7** stainless steel-17-4ph  
**NT6** steel-cr17mo  
**NT7** stainless steel-440  
**NT6** steel-cr18  
**NT5** nickel steels  
**NT6** sweetalloy  
**NT5** steel-astm-a572  
**NT3** konel  
**NT3** lynite  
**NT3** martensite  
**NT3** misco metal  
**NT3** ni-hard  
**NT3** orthonol  
**NT3** permalloy  
**NT3** rene 41  
**NT3** supertherm  
**NT3** tribaloy 400  
**NT3** tribaloy 800  
**NT2** manganese alloys  
**NT3** alloy-co43cr20fe18ni13w3  
**NT4** havar  
**NT3** alloy-mo-re-1  
**NT3** alloy-ni73cr20mn3nb3  
**NT4** inconel 82  
**NT3** alloy-ni94mn3al2  
**NT4** alumel  
**NT3** alloy-s-816  
**NT3** heusler alloys  
**NT3** manganese additions  
**NT4** alloy-al95cu4  
**NT5** duralumin  
**NT4** alloy-fe40ni35cr22  
**NT4** alloy-fe53ni29co18  
**NT5** kovar  
**NT4** alloy-hs-31  
**NT4** alloy-n28t3  
**NT4** alloy-ni66cu32  
**NT5** monel 400  
**NT4** alloy-ni78cr21  
**NT4** alloy-v-36  
**NT4** ascology  
**NT4** bondur  
**NT4** discaloy  
**NT4** duranickel  
**NT4** duriron  
**NT4** magnesium alloy-az31b  
**NT4** miduale  
**NT4** ni-hard  
**NT4** steel-cr16ni9mo2  
**NT3** manganese base alloys  
**NT3** manganese steels  
**NT3** manganin  
**NT3** stainless steel-zcnd17-13  
**NT3** steel-cr21mn9ni6  
**NT4** stainless steel-21-6-9  
**NT3** steel-mncumo  
**NT4** steel-astm-a537  
**NT3** steel-mnmo  
**NT4** steel-astm-a302  
**NT3** steel-mnnimo  
**NT4** steel-astm-a533-b  
**NT3** steel-mnnimov  
**NT2** molybdenum alloys  
**NT3** alloy-b-1900  
**NT3** alloy-co43cr20fe18ni13w3  
**NT4** havar  
**NT3** alloy-d-979  
**NT3** alloy-in-102  
**NT3** alloy-khn50mbvyu  
**NT3** alloy-mar-m246  
**NT3** alloy-mn-21  
**NT3** alloy-mp35n  
**NT3** alloy-n-10m  
**NT3** alloy-n-9m  
**NT3** alloy-ni43fe30cr22mo3  
**NT4** incoloy 825  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni49cr22fe18mo9  
**NT4** hastelloy x  
**NT3** alloy-ni50co20cr15al5mo5  
**NT4** nimonic 105  
**NT3** alloy-ni50cr22fe18mo9  
**NT4** hastelloy xr  
**NT3** alloy-ni50mo32cr15si3  
**NT3** alloy-ni53cr19fe19nb5mo3  
**NT4** inconel 718  
**NT3** alloy-ni54cr22co13mo9  
**NT4** inconel 617  
**NT3** alloy-ni54mo17cr16fe6w4  
**NT4** hastelloy c  
**NT3** alloy-ni55co17cr15mo5al4ti4  
**NT4** astroloy  
**NT3** alloy-ni55cr19co11mo10ti3  
**NT4** rene 41  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni61cr22mo9nb4fe3  
**NT4** inconel 625  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** alloy-ni65cr25mo10  
**NT4** nimonic 86  
**NT3** alloy-ni70mo17cr7fe5  
**NT4** hastelloy n  
**NT4** inor-8  
**NT3** alloy-ni74cr13al6mo4  
**NT4** inconel 713c  
**NT3** alloy-ni75cr12al6mo5  
**NT4** inconel 713lc  
**NT3** alloy-ni79fe16mo4  
**NT3** alloy-nx-188  
**NT3** alloy-ra-333  
**NT3** alloy-s-590  
**NT3** alloy-s-816  
**NT3** alloy-ti78cr11mo7al3  
**NT3** alloy-ti88mo8al3  
**NT3** alloy-ti89al6mo3  
**NT3** alloy-ti90al6mo3  
**NT3** alloy-ti90mo7al2  
**NT3** alloy-ti91al4mo3  
**NT3** alloy-ti91al5cr2  
**NT3** alloy-v-36  
**NT3** chlorimet  
**NT3** chromium-molybdenum steels  
**NT4** chromium-nickel-molybdenum steels  
**NT5** alloy-m-813  
**NT5** steel-cr11ni10mo2ti-l  
**NT5** steel-cr15ni15motib  
**NT5** steel-cr16ni13monbv  
**NT5** steel-cr16ni15mo3nb  
**NT5** steel-cr16ni16monb  
**NT5** steel-cr16ni8mo2  
**NT6** stainless steel-16-8-2  
**NT5** steel-cr16ni9mo2  
**NT5** steel-cr17ni12mo3  
**NT6** stainless steel-316  
**NT5** steel-cr17ni12mo3-l  
**NT6** stainless steel-316l  
**NT6** stainless steel-zcnd17-13  
**NT5** steel-cr17ni12monb  
**NT5** steel-cr17ni13mo2ti  
**NT5** steel-cr17ni13mo3ti  
**NT5** steel-ni26cr15ti2moyalb  
**NT6** alloy-a-286  
**NT3** discaloy

- NT3** illium  
**NT3** incoloy 901  
**NT3** molybdenum additions  
**NT4** alloy-ti90al6  
**NT4** steel-cr12moniv  
**NT4** steel-cr12mov  
**NT5** alloy-ht-9  
**NT4** steel-cr17mo  
**NT5** stainless steel-440  
**NT4** steel-cr2mo  
**NT5** steel-astm-a542  
**NT4** steel-cr2moninb  
**NT4** steel-cr2mov  
**NT4** steel-cr2nimov  
**NT4** steel-cr5mo  
**NT4** steel-cr9mo  
**NT4** steel-cralnimo  
**NT4** steel-crmo  
**NT4** steel-crmov  
**NT4** steel-mncumo  
**NT5** steel-astm-a537  
**NT4** steel-mnmo  
**NT5** steel-astm-a302  
**NT4** steel-mnnimo  
**NT5** steel-astm-a533-b  
**NT4** steel-mnnimov  
**NT4** steel-ni3crmo  
**NT5** steel-astm-a543  
**NT4** steel-ni3crmov  
**NT4** steel-nicrmo  
**NT4** steel-nimocr  
**NT3** molybdenum base alloys  
**NT4** alloy-mo99  
**NT5** alloy-tzm  
**NT5** alloy-zm-2a  
**NT4** alloy-mo99b  
**NT3** ni-o-nel  
**NT3** nimonic 115  
**NT3** rene-100  
**NT3** rene 80  
**NT3** rene 95  
**NT3** sicromo 9m  
**NT3** stainless steel m-50  
**NT3** steel-cd-4mcu  
**NT3** steel-cr10mo2  
**NT3** steel-cr17ni4mo3  
**NT3** steel-cr9monbv  
**NT3** steel-in-787  
**NT3** timken alloys  
**NT3** tribaloy 400  
**NT3** tribaloy 800  
**NT3** udimet alloys  
**NT4** alloy-ni53co19cr15mo5al4ti3  
**NT5** udimet 700  
**NT4** udimet 500  
**NT3** vitallium  
**NT2** nickel alloys  
**NT3** alloy-co36cr22ni22w15fe3  
**NT4** haynes 188 alloy  
**NT3** alloy-co43cr20fe18ni13w3  
**NT4** havar  
**NT3** alloy-co54cr20w15ni10  
**NT4** alloy-hs-25  
**NT4** haynes 25 alloy  
**NT3** alloy-co60cr30w4  
**NT4** stellite 6  
**NT3** alloy-cu52ni47  
**NT4** constantan  
**NT3** alloy-d-979  
**NT3** alloy-fe40ni35cr22  
**NT3** alloy-fe44ni33cr21  
**NT4** incoloy 800h  
**NT3** alloy-fe46ni33cr21  
**NT4** incoloy 800  
**NT4** incoloy 802  
**NT3** alloy-fe53ni29co18  
**NT4** kovar  
**NT3** alloy-hs-31  
**NT3** alloy-mo-re-1  
**NT3** alloy-mp35n  
**NT3** alloy-n28t3  
**NT3** alloy-s-590  
**NT3** alloy-s-816  
**NT3** alloy-v-36  
**NT3** alloy-yundk 25ba  
**NT3** alnico alloys  
**NT3** ascology  
**NT3** chromium-nickel steels  
**NT4** alloy-d-9  
**NT4** carpenter  
**NT4** chromium-nickel-molybdenum steels  
**NT5** alloy-m-813  
**NT5** steel-cr11ni10mo2ti-1  
**NT5** steel-cr15ni15motib  
**NT5** steel-cr16ni13monbv  
**NT5** steel-cr16ni15mo3nb  
**NT5** steel-cr16ni16monb  
**NT5** steel-cr16ni8mo2  
**NT6** stainless steel-16-8-2  
**NT5** steel-cr16ni9mo2  
**NT5** steel-cr17ni12mo3  
**NT6** stainless steel-316  
**NT5** steel-cr17ni12mo3-l  
**NT6** stainless steel-316l  
**NT6** stainless steel-zcnd17-13  
**NT5** steel-cr17ni12monb  
**NT5** steel-cr17ni13mo2ti  
**NT5** steel-cr17ni13mo3ti  
**NT5** steel-ni26cr15ti2movalb  
**NT6** alloy-a-286  
**NT4** durco  
**NT4** endure  
**NT4** stainless steel-17-7ph  
**NT4** stainless steel-303  
**NT4** stainless steel-329  
**NT4** stainless steel-ph-15-7-mo  
**NT4** steel-cr17ni13  
**NT4** steel-cr17ni7  
**NT5** stainless steel-301  
**NT4** steel-cr18ni10  
**NT5** stainless steel-18-10  
**NT4** steel-cr18ni10-l  
**NT4** steel-cr18ni10ti  
**NT5** stainless steel-321  
**NT4** steel-cr18ni11  
**NT5** steel-x6crni1811  
**NT4** steel-cr18ni11nb  
**NT5** stainless steel-347  
**NT4** steel-cr18ni11nbco  
**NT5** stainless steel-348  
**NT4** steel-cr18ni12  
**NT5** stainless steel-305  
**NT4** steel-cr18ni12ti  
**NT4** steel-cr18ni8  
**NT5** stainless steel-18-8  
**NT4** steel-cr18ni9  
**NT5** stainless steel-302  
**NT4** steel-cr18ni9ti  
**NT4** steel-cr19ni10  
**NT5** stainless steel-304  
**NT4** steel-cr19ni10-l  
**NT5** stainless steel-304l  
**NT4** steel-cr20ni11  
**NT5** stainless steel-308  
**NT4** steel-cr20ni11-l  
**NT5** stainless steel-308l  
**NT4** steel-cr23ni14  
**NT5** stainless steel-309  
**NT5** stainless steel-309s  
**NT4** steel-cr23ni18  
**NT4** steel-cr25ni20  
**NT5** alloy-hk-40  
**NT5** stainless steel-310  
**NT4** steel-ni25cr20  
**NT5** stainless steel-20-25  
**NT4** steel-ni36cr12ti3al-l  
**NT4** timken alloys  
**NT3** cunico  
**NT3** discaloy  
**NT3** invar  
**NT3** manganin  
**NT3** misco metal  
**NT3** ni-hard  
**NT3** ni-o-nel  
**NT3** nickel additions  
**NT4** alloy-zr98sn-2  
**NT5** zircaloy 2  
**NT4** ounce metal  
**NT4** steel-cr12moniv  
**NT4** steel-cr2moninb  
**NT4** steel-cr2mov  
**NT4** steel-cralnimo  
**NT4** steel-crmo  
**NT4** steel-crmov  
**NT4** steel-crni  
**NT4** steel-mncumo  
**NT5** steel-astm-a537  
**NT4** steel-mnnimo  
**NT5** steel-astm-a533-b  
**NT4** steel-nimocr  
**NT3** nickel base alloys  
**NT4** alloy-b-1900  
**NT4** alloy-in-102  
**NT4** alloy-in-853  
**NT4** alloy-mar-m246  
**NT4** alloy-mn-21  
**NT4** alloy-mo-re-2  
**NT4** alloy-ni43fe30cr22mo3  
**NT5** incoloy 825  
**NT4** alloy-ni45fe34cr20  
**NT4** alloy-ni50mo32cr15si3  
**NT4** alloy-ni55co17cr15mo5al4ti4  
**NT5** astroloy  
**NT4** alloy-ni55cr19co11mo10ti3  
**NT5** rene 41  
**NT4** alloy-ni58cr20co14mo4ti3  
**NT5** waspaloy  
**NT4** alloy-ni77cr20ti2  
**NT4** alloy-ni78cr21  
**NT4** alloy-ni79fe16mo4  
**NT4** alloy-ni94mn3al2  
**NT5** aludel  
**NT4** alloy-nx-188  
**NT4** alloy-ra-333  
**NT4** chlorimet  
**NT4** chromel  
**NT5** alloy-ni60fe24cr16  
**NT6** nichrome  
**NT5** alloy-ni80cr20  
**NT4** colmonoy  
**NT4** duranickel  
**NT4** hastelloys  
**NT5** alloy-ni49cr22fe18mo9  
**NT6** hastelloy x  
**NT5** alloy-ni50cr22fe18mo9  
**NT6** hastelloy xr  
**NT5** alloy-ni54mo17cr16fe6w4  
**NT6** hastelloy c  
**NT5** alloy-ni62cr16mo15fe3  
**NT6** hastelloy s  
**NT5** alloy-ni65mo28fe5  
**NT6** hastelloy b  
**NT5** alloy-ni70mo17cr7fe5  
**NT6** hastelloy n  
**NT6** inor-8  
**NT4** illium  
**NT4** incoloy 901  
**NT4** inconel alloys  
**NT5** alloy-ni41fe40cr16nb3  
**NT6** inconel 706  
**NT5** alloy-ni46cr23co19ti5al4  
**NT6** alloy-in-939  
**NT5** alloy-ni51cr48  
**NT6** inconel 671  
**NT5** alloy-ni53cr19fe19nb5mo3  
**NT6** inconel 718

- NT5** alloy-ni54cr22co13mo9  
**NT6** inconel 617  
**NT5** alloy-ni59cr30fe9  
**NT6** inconel 690  
**NT5** alloy-ni60co15cr10al6ti5mo3  
**NT6** alloy-in-100  
**NT5** alloy-ni61cr16co9al3ti3w3  
**NT6** alloy-in-738  
**NT5** alloy-ni61cr22mo9nb4fe3  
**NT6** inconel 625  
**NT5** alloy-ni61cr23fe14  
**NT5** alloy-ni73cr15fe7ti3  
**NT6** inconel x750  
**NT5** alloy-ni73cr20mn3nb3  
**NT6** inconel 82  
**NT5** alloy-ni74cr13al6mo4  
**NT6** inconel 713c  
**NT5** alloy-ni75cr12al6mo5  
**NT6** inconel 713lc  
**NT5** alloy-ni76cr15fe8  
**NT6** inconel 600  
**NT5** inconel 700  
**NT5** inconel 738  
**NT5** inconel 739  
**NT4** konel  
**NT4** monel  
**NT5** alloy-ni66cu32  
**NT6** monel 400  
**NT4** microbraz 50  
**NT4** nimonic  
**NT5** alloy-ni43fe33cr16mo3  
**NT6** nimonic pe16  
**NT5** alloy-ni50co20cr15al5mo5  
**NT6** nimonic 105  
**NT5** alloy-ni59cr20co17ti2  
**NT5** alloy-ni65cr25mo10  
**NT6** nimonic 86  
**NT5** alloy-ni76cr15fe8  
**NT6** inconel 600  
**NT5** alloy-ni76cr20ti2  
**NT6** nimonic 80a  
**NT5** nimonic 115  
**NT5** nimonic 115a  
**NT4** rene-100  
**NT4** rene 80  
**NT4** rene 95  
**NT4** td-nickel chromium  
**NT4** tophet  
**NT4** udimet alloys  
**NT5** alloy-ni53co19cr15mo5al4ti3  
**NT6** udimet 700  
**NT5** udimet 500  
**NT3** nickel steels  
**NT4** sweetalloy  
**NT3** nickeline alloy  
**NT3** orthonol  
**NT3** permalloy  
**NT3** stainless steel-jbk-75  
**NT3** steel-cd-4mcu  
**NT3** steel-cr16ni  
**NT3** steel-cr17cu4ni4nb-l  
**NT4** stainless steel-17-4ph  
**NT3** steel-cr17ni4mo3  
**NT3** steel-cr21mn9ni6  
**NT4** stainless steel-21-6-9  
**NT3** steel-cr2nimov  
**NT3** steel-in-787  
**NT3** steel-mnnimov  
**NT3** steel-ni3cr  
**NT3** steel-ni3crmo  
**NT4** steel-astm-a543  
**NT3** steel-ni3crmov  
**NT3** steel-ni4crw  
**NT3** steel-nicr  
**NT3** steel-nicrmo  
**NT3** supertherm  
**NT2** niobium alloys  
**NT3** alloy-in-102  
**NT3** alloy-khn50mbyvu  
**NT3** alloy-mn-21  
**NT3** alloy-ni41fe40cr16nb3  
**NT4** inconel 706  
**NT3** alloy-ni53cr19fe19nb5mo3  
**NT4** inconel 718  
**NT3** alloy-ni61cr22mo9nb4fe3  
**NT4** inconel 625  
**NT3** alloy-ni73cr15mo3nb3  
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**NT3** alloy-ni74cr13al6mo4  
**NT4** inconel 713c  
**NT3** alloy-ni75cr12al6mo5  
**NT4** inconel 713lc  
**NT3** alloy-s-590  
**NT3** alloy-s-816  
**NT3** alloy-u90nb7zr3  
**NT3** alloy-v-36  
**NT3** alloy-zr97nb3  
**NT3** niobium additions  
**NT4** alloy-ni45fe34cr20  
**NT4** alloy-ni46cr23co19ti5al4  
**NT5** alloy-in-939  
**NT4** alloy-ni61cr16co9al3ti3w3  
**NT5** alloy-in-738  
**NT4** alloy-ni73cr15fe7ti3  
**NT5** inconel x750  
**NT4** alloy-yundk 25ba  
**NT4** steel-cr16ni13monbv  
**NT4** steel-cr16ni15mo3nb  
**NT4** steel-cr16ni16monb  
**NT4** steel-cr17cu4ni4nb-l  
**NT5** stainless steel-17-4ph  
**NT4** steel-cr17ni12monb  
**NT4** steel-cr18ni11nb  
**NT5** stainless steel-347  
**NT4** steel-cr18ni11nbco  
**NT5** stainless steel-348  
**NT4** steel-cr2moninb  
**NT4** steel-cr9monbv  
**NT3** niobium base alloys  
**NT4** alloy-c-103  
**NT4** alloy-n-10m  
**NT4** alloy-n-9m  
**NT4** alloy-nt25a5  
**NT3** rene 95  
**NT3** steel-in-787  
**NT2** platinum metal alloys  
**NT3** iridium alloys  
**NT4** iridium additions  
**NT4** iridium base alloys  
**NT3** osmium alloys  
**NT4** osmium additions  
**NT4** osmium base alloys  
**NT3** palladium alloys  
**NT4** palau  
**NT4** palladium base alloys  
**NT3** platinum alloys  
**NT4** platinum base alloys  
**NT3** rhodium alloys  
**NT4** rhodium additions  
**NT4** rhodium base alloys  
**NT3** ruthenium alloys  
**NT4** ruthenium additions  
**NT4** ruthenium base alloys  
**NT2** rhenium alloys  
**NT3** rhenium additions  
**NT3** rhenium base alloys  
**NT2** scandium alloys  
**NT3** scandium additions  
**NT3** scandium base alloys  
**NT2** silver alloys  
**NT3** silver additions  
**NT3** silver base alloys  
**NT2** tantalum alloys  
**NT3** alloy-b-1900  
**NT3** alloy-c-103  
**NT3** alloy-mar-m246  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-s-816  
**NT3** alloy-v-36  
**NT3** carbobloy  
**NT3** tantalum additions  
**NT4** alloy-n-10m  
**NT3** tantalum base alloys  
**NT4** alloy-ta90w8hf  
**NT5** tantalum alloy-t111  
**NT4** astar 811c  
**NT4** tantalum alloy-t222  
**NT2** technetium alloys  
**NT3** technetium additions  
**NT3** technetium base alloys  
**NT2** titanium alloys  
**NT3** alloy-b-1900  
**NT3** alloy-c-103  
**NT3** alloy-d-979  
**NT3** alloy-in-853  
**NT3** alloy-m-813  
**NT3** alloy-mar-m246  
**NT3** alloy-n28t3  
**NT3** alloy-ni41fe40cr16nb3  
**NT4** inconel 706  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni50co20cr15al5mo5  
**NT4** nimonic 105  
**NT3** alloy-ni55co17cr15mo5al4ti4  
**NT4** astroloy  
**NT3** alloy-ni55cr19co11mo10ti3  
**NT4** rene 41  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni73cr15fe7ti3  
**NT4** inconel x750  
**NT3** alloy-ni76cr20ti2  
**NT4** nimonic 80a  
**NT3** alloy-ni77cr20ti2  
**NT3** alloy-nt25a5  
**NT3** carbobloy  
**NT3** discaloy  
**NT3** incoloy 901  
**NT3** konel  
**NT3** ni-o-nel  
**NT3** rene-100  
**NT3** rene 80  
**NT3** rene 95  
**NT3** stainless steel-jbk-75  
**NT3** steel-cr11ni10mo2ti-l  
**NT3** steel-ni26cr15ti2mvalb  
**NT4** alloy-a-286  
**NT3** steel-ni36cr12ti3al-l  
**NT3** titanium additions  
**NT4** alloy-fe44ni33cr21  
**NT5** incoloy 800h  
**NT4** alloy-fe46ni33cr21  
**NT5** incoloy 800  
**NT5** incoloy 802  
**NT4** alloy-in-102  
**NT4** alloy-mo99  
**NT5** alloy-tzm  
**NT5** alloy-zm-2a  
**NT4** alloy-n-10m  
**NT4** alloy-ni43fe30cr22mo3  
**NT5** incoloy 825  
**NT4** alloy-ni51cr48  
**NT5** inconel 671  
**NT4** alloy-ni53cr19fe19nb5mo3  
**NT5** inconel 718  
**NT4** alloy-ni59cr30fe9

NT5 inconel 690  
 NT4 alloy-ni61cr22mo9nb4fe3  
 NT5 inconel 625  
 NT4 alloy-ni70mo17cr7fe5  
 NT5 hastelloy n  
 NT5 inor-8  
 NT4 alloy-ni73cr20mn3nb3  
 NT5 inconel 82  
 NT4 alloy-ni74cr13al6mo4  
 NT5 inconel 713c  
 NT4 alloy-ni75cr12al6mo5  
 NT5 inconel 713c  
 NT4 alloy-ni76cr15fe8  
 NT5 inconel 600  
 NT4 alloy-ni78cr21  
 NT4 duranickel  
 NT4 steel-cr15ni15motib  
 NT4 steel-cr17ni13mo2ti  
 NT4 steel-cr17ni13mo3ti  
 NT4 steel-cr18ni10ti  
 NT5 stainless steel-321  
 NT4 steel-cr18ni12ti  
 NT4 steel-cr18ni9ti  
 NT3 titanium base alloys  
 NT4 alloy-ti78cr11mo7al3  
 NT4 alloy-ti88mo8al3  
 NT4 alloy-ti89al6mo3  
 NT4 alloy-ti90al6  
 NT4 alloy-ti90al6mo3  
 NT4 alloy-ti90al6v4  
 NT4 alloy-ti90mo7al2  
 NT4 alloy-ti91al4mo3  
 NT4 alloy-ti91al5cr2  
 NT4 alloy-ti99  
 NT3 udimet alloys  
 NT4 alloy-ni53co19cr15mo5al4ti3  
 NT5 udimet 700  
 NT4 udimet 500  
 NT2 tungsten alloys  
 NT3 alloy-c-103  
 NT3 alloy-co36cr22ni22w15fe3  
 NT4 haynes 188 alloy  
 NT3 alloy-co43cr20fe18ni13w3  
 NT4 havar  
 NT3 alloy-co54cr20w15ni10  
 NT4 alloy-hs-25  
 NT4 haynes 25 alloy  
 NT3 alloy-co60cr30w4  
 NT4 stellite 6  
 NT3 alloy-d-979  
 NT3 alloy-in-102  
 NT3 alloy-khn50mbvyu  
 NT3 alloy-mar-m246  
 NT3 alloy-mn-21  
 NT3 alloy-mo-re-1  
 NT3 alloy-ni54mo17cr16fe6w4  
 NT4 hastelloy c  
 NT3 alloy-ni61cr16co9al3ti3w3  
 NT4 alloy-in-738  
 NT3 alloy-ra-333  
 NT3 alloy-s-590  
 NT3 alloy-s-816  
 NT3 alloy-ta90w8hf  
 NT4 tantalum alloy-t111  
 NT3 alloy-v-36  
 NT3 astar 811c  
 NT3 carboloy  
 NT3 magnet steel-ks  
 NT3 miduale  
 NT3 rene 80  
 NT3 rene 95  
 NT3 supertherm  
 NT3 tungsten additions  
 NT4 alloy-ni49cr22fe18mo9  
 NT5 hastelloy x  
 NT4 alloy-ni50cr22fe18mo9  
 NT5 hastelloy xr  
 NT4 alloy-ni62cr16mo15fe3  
 NT5 hastelloy s

NT4 steel-ni4crw  
 NT3 tungsten base alloys  
 NT4 alloy-mo-re-2  
 NT3 tungsten bronze  
 NT3 udimet 500  
 NT2 vanadium alloys  
 NT3 alloy-co52fe35v10  
 NT3 alloy-ti90al6v4  
 NT3 alloy-ti91al4mo3  
 NT3 vanadium additions  
 NT4 alloy-ni54mo17cr16fe6w4  
 NT5 hastelloy c  
 NT4 alloy-ni60co15cr10al6ti5mo3  
 NT5 alloy-in-100  
 NT4 alloy-ni62cr16mo15fe3  
 NT5 hastelloy s  
 NT4 alloy-ni65mo28fe5  
 NT5 hastelloy b  
 NT4 alloy-ti90al6  
 NT4 steel-cr12moniv  
 NT4 steel-cr12mov  
 NT5 alloy-ht-9  
 NT4 steel-cr16ni13monbv  
 NT4 steel-cr2mov  
 NT4 steel-cr2nimov  
 NT4 steel-cr9monbv  
 NT4 steel-crmov  
 NT4 steel-mnmmov  
 NT4 steel-ni26cr15ti2moyalb  
 NT5 alloy-a-286  
 NT4 steel-ni3crmo  
 NT5 steel-astm-a543  
 NT4 steel-ni3crmov  
 NT3 vanadium base alloys  
 NT4 alloy-v87cr9fe3  
 NT2 yttrium alloys  
 NT3 alloy-c-103  
 NT3 ge 2541  
 NT3 yttrium base alloys  
 NT2 zirconium alloys  
 NT3 alloy-c-103  
 NT3 alloy-ti89al6mo3  
 NT3 alloy-ti90al6  
 NT3 alloy-u90nb7zr3  
 NT3 alloy-v87cr9fe3  
 NT3 zirconium additions  
 NT4 alloy-in-102  
 NT4 alloy-mo99  
 NT5 alloy-tzm  
 NT5 alloy-zm-2a  
 NT4 alloy-mo99b  
 NT4 alloy-n-10m  
 NT4 alloy-n-9m  
 NT4 alloy-ni43fe33cr16mo3  
 NT5 nimonic pe16  
 NT4 alloy-ni46cr23co19ti5al4  
 NT5 alloy-in-939  
 NT4 alloy-ni55co17cr15mo5al4ti4  
 NT5 astroloy  
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 NT4 alloy-ni60co15cr10al6ti5mo3  
 NT5 alloy-in-100  
 NT4 alloy-ni61cr16co9al3ti3w3  
 NT5 alloy-in-738  
 NT4 alloy-ni74cr13al6mo4  
 NT5 inconel 713c  
 NT4 alloy-ni75cr12al6mo5  
 NT5 inconel 713lc  
 NT4 alloy-ni76cr20ti2  
 NT5 nimonic 80a  
 NT4 magnesium alloy-ek  
 NT4 magnesium alloy-ez  
 NT4 magnesium alloy-hk31a  
 NT4 rene 80  
 NT4 rene 95  
 NT3 zirconium base alloys  
 NT4 alloy-zr97nb3

NT4 zircaloy  
 NT5 alloy-zr98sn-2  
 NT6 zircaloy 2  
 NT5 alloy-zr98sn-4  
 NT6 zircaloy 4  
 NT1 zinc alloys  
 NT2 brass  
 NT3 brass-alpha  
 NT3 brass-beta  
 NT2 lynite  
 NT2 magnesium alloy-az31b  
 NT2 magnesium alloy-ez  
 NT2 magnesium alloy-zr  
 NT2 muntz metal  
 NT2 ounce metal  
 NT2 zinc additions  
 NT3 nickeline alloy  
 NT2 zinc base alloys  
 NT3 zamak  
 RT alloy systems  
 RT binary mixtures  
 RT metallic glasses  
 RT metals  
 RT semimetals  
 RT solid solutions

#### ALLUVIAL DEPOSITS

*Earth, sand, gravel, or other mineral materials transported by and laid down by flowing water.*

BT1 geologic deposits  
 RT clays  
 RT ground water  
 RT placers  
 RT sand  
 RT sediments  
 RT soils  
 RT surface waters

#### ALLYL RADICALS

\*BT1 alkyl radicals

#### alma-ata wwr-k reactor

INIS: 1984-06-21; ETDE: 1997-08-30  
 USE wwr-k-almaty reactor

#### ALMARAZ-1 REACTOR

INIS: 1977-04-07; ETDE: 1977-06-02  
 Almaraz, Caceres, Spain.  
 \*BT1 pwr type reactors

#### ALMARAZ-2 REACTOR

INIS: 1977-04-07; ETDE: 1977-06-02  
 Almaraz, Caceres, Spain.  
 \*BT1 pwr type reactors

#### almaty wwr-k reactor

INIS: 1997-07-30; ETDE: 1997-08-30  
 USE wwr-k-almaty reactor

#### almdro event

1994-10-13  
*A test made during operation toggle.*  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE nuclear explosions  
 USE underground explosions

#### ALNICO ALLOYS

\*BT1 aluminium alloys  
 \*BT1 cobalt alloys  
 \*BT1 iron base alloys  
 \*BT1 nickel alloys

#### ALOE

\*BT1 liliopsida  
 \*BT1 medicinal plants

#### ALOUETTE SATELLITES

BT1 satellites

**alpha autoradiography**

2000-10-18

USE alpha particles  
USE autoradiography**ALPHA BEAMS**\*BT1 helium 4 beams  
RT alpha particles**ALPHA-BEARING WASTES**

INIS: 1979-04-27; ETDE: 1979-05-25

UF transuranium wastes

UF tru wastes

\*BT1 radioactive wastes  
RT low-level radioactive wastes  
RT slagging pyrolysis process  
RT wipp**ALPHA DECAY**\*BT1 nuclear decay  
RT alpha decay radioisotopes  
RT alpha particles  
RT delayed alpha particles  
RT gamow barrier  
RT geiger-nuttall law**ALPHA DECAY RADIOISOTOPES**

1997-06-05

\*BT1 radioisotopes  
NT1 actinium 207  
NT1 actinium 208  
NT1 actinium 209  
NT1 actinium 210  
NT1 actinium 211  
NT1 actinium 212  
NT1 actinium 213  
NT1 actinium 214  
NT1 actinium 215  
NT1 actinium 216  
NT1 actinium 217  
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NT1 americium 232  
NT1 americium 237  
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NT1 astatine 191  
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NT1 bismuth 186  
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NT1 gold 171  
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NT1 gold 178  
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NT1 gold 183  
NT1 gold 184  
NT1 gold 185

NT1	hafnium 156	NT1	mercury 180	NT1	polonium 190
NT1	hafnium 157	NT1	mercury 181	NT1	polonium 192
NT1	hafnium 158	NT1	mercury 182	NT1	polonium 193
NT1	hafnium 159	NT1	mercury 183	NT1	polonium 194
NT1	hafnium 160	NT1	mercury 184	NT1	polonium 195
NT1	hafnium 161	NT1	mercury 185	NT1	polonium 196
NT1	hafnium 162	NT1	mercury 186	NT1	polonium 197
NT1	hafnium 174	NT1	mercury 187	NT1	polonium 198
NT1	hassium 264	NT1	mercury 188	NT1	polonium 199
NT1	hassium 265	NT1	neodymium 144	NT1	polonium 200
NT1	hassium 266	NT1	neptunium 225	NT1	polonium 201
NT1	hassium 267	NT1	neptunium 226	NT1	polonium 202
NT1	hassium 270	NT1	neptunium 227	NT1	polonium 203
NT1	hassium 271	NT1	neptunium 229	NT1	polonium 204
NT1	helium 5	NT1	neptunium 230	NT1	polonium 205
NT1	holmium 151	NT1	neptunium 231	NT1	polonium 206
NT1	holmium 152	NT1	neptunium 233	NT1	polonium 207
NT1	holmium 153	NT1	neptunium 235	NT1	polonium 208
NT1	holmium 154	NT1	neptunium 237	NT1	polonium 209
NT1	holmium 155	NT1	nobelium 251	NT1	polonium 210
NT1	iodine 108	NT1	nobelium 252	NT1	polonium 211
NT1	iodine 111	NT1	nobelium 253	NT1	polonium 212
NT1	iridium 166	NT1	nobelium 254	NT1	polonium 213
NT1	iridium 167	NT1	nobelium 255	NT1	polonium 214
NT1	iridium 168	NT1	nobelium 256	NT1	polonium 215
NT1	iridium 169	NT1	nobelium 257	NT1	polonium 216
NT1	iridium 170	NT1	nobelium 259	NT1	polonium 217
NT1	iridium 171	NT1	nobelium 260	NT1	polonium 218
NT1	iridium 172	NT1	osmium 162	NT1	promethium 145
NT1	iridium 173	NT1	osmium 163	NT1	protactinium 212
NT1	iridium 174	NT1	osmium 164	NT1	protactinium 213
NT1	iridium 175	NT1	osmium 165	NT1	protactinium 214
NT1	iridium 176	NT1	osmium 166	NT1	protactinium 215
NT1	iridium 177	NT1	osmium 167	NT1	protactinium 216
NT1	lawrencium 252	NT1	osmium 168	NT1	protactinium 217
NT1	lawrencium 253	NT1	osmium 169	NT1	protactinium 218
NT1	lawrencium 254	NT1	osmium 170	NT1	protactinium 219
NT1	lawrencium 255	NT1	osmium 171	NT1	protactinium 220
NT1	lawrencium 256	NT1	osmium 172	NT1	protactinium 221
NT1	lawrencium 257	NT1	osmium 173	NT1	protactinium 222
NT1	lawrencium 258	NT1	osmium 174	NT1	protactinium 223
NT1	lawrencium 259	NT1	osmium 186	NT1	protactinium 224
NT1	lawrencium 260	NT1	platinum 168	NT1	protactinium 225
NT1	lead 180	NT1	platinum 169	NT1	protactinium 226
NT1	lead 182	NT1	platinum 170	NT1	protactinium 227
NT1	lead 183	NT1	platinum 171	NT1	protactinium 228
NT1	lead 184	NT1	platinum 172	NT1	protactinium 229
NT1	lead 185	NT1	platinum 173	NT1	protactinium 230
NT1	lead 186	NT1	platinum 174	NT1	protactinium 231
NT1	lead 187	NT1	platinum 175	NT1	radium 205
NT1	lead 188	NT1	platinum 176	NT1	radium 206
NT1	lead 189	NT1	platinum 177	NT1	radium 207
NT1	lead 190	NT1	platinum 178	NT1	radium 208
NT1	lead 191	NT1	platinum 179	NT1	radium 209
NT1	lead 192	NT1	platinum 180	NT1	radium 210
NT1	lead 210	NT1	platinum 181	NT1	radium 211
NT1	lithium 5	NT1	platinum 182	NT1	radium 212
NT1	lutetium 155	NT1	platinum 183	NT1	radium 213
NT1	lutetium 156	NT1	platinum 184	NT1	radium 214
NT1	lutetium 157	NT1	platinum 185	NT1	radium 215
NT1	lutetium 158	NT1	platinum 186	NT1	radium 216
NT1	lutetium 159	NT1	platinum 188	NT1	radium 217
NT1	meitnerium 266	NT1	platinum 190	NT1	radium 218
NT1	meitnerium 268	NT1	plutonium 228	NT1	radium 219
NT1	mendelevium 247	NT1	plutonium 229	NT1	radium 220
NT1	mendelevium 248	NT1	plutonium 230	NT1	radium 221
NT1	mendelevium 249	NT1	plutonium 232	NT1	radium 222
NT1	mendelevium 250	NT1	plutonium 233	NT1	radium 223
NT1	mendelevium 251	NT1	plutonium 234	NT1	radium 224
NT1	mendelevium 255	NT1	plutonium 235	NT1	radium 226
NT1	mendelevium 256	NT1	plutonium 236	NT1	radon 197
NT1	mendelevium 257	NT1	plutonium 237	NT1	radon 199
NT1	mendelevium 258	NT1	plutonium 238	NT1	radon 200
NT1	mendelevium 259	NT1	plutonium 239	NT1	radon 201
NT1	mercury 175	NT1	plutonium 240	NT1	radon 202
NT1	mercury 176	NT1	plutonium 241	NT1	radon 203
NT1	mercury 177	NT1	plutonium 242	NT1	radon 204
NT1	mercury 178	NT1	plutonium 244	NT1	radon 205
NT1	mercury 179	NT1	polonium 188	NT1	radon 206



NT1 radon 207  
 NT1 radon 208  
 NT1 radon 209  
 NT1 radon 210  
 NT1 radon 211  
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 NT1 radon 216  
 NT1 radon 217  
 NT1 radon 218  
 NT1 radon 219  
 NT1 radon 220  
 NT1 radon 221  
 NT1 radon 222  
 NT1 rhenium 161  
 NT1 rhenium 162  
 NT1 rhenium 163  
 NT1 rhenium 164  
 NT1 rhenium 165  
 NT1 rhenium 166  
 NT1 rhenium 167  
 NT1 rhenium 168  
 NT1 rhenium 169  
 NT1 roentgenium 272  
 NT1 roentgenium 279  
 NT1 roentgenium 280  
 NT1 rutherfordium 253  
 NT1 rutherfordium 254  
 NT1 rutherfordium 255  
 NT1 rutherfordium 256  
 NT1 rutherfordium 257  
 NT1 rutherfordium 258  
 NT1 rutherfordium 259  
 NT1 rutherfordium 261  
 NT1 samarium 146  
 NT1 samarium 147  
 NT1 samarium 148  
 NT1 seaborgium 259  
 NT1 seaborgium 260  
 NT1 seaborgium 261  
 NT1 seaborgium 262  
 NT1 seaborgium 263  
 NT1 seaborgium 265  
 NT1 seaborgium 266  
 NT1 tantalum 157  
 NT1 tantalum 158  
 NT1 tantalum 159  
 NT1 tantalum 160  
 NT1 tantalum 161  
 NT1 tantalum 163  
 NT1 tantalum 164  
 NT1 tellurium 106  
 NT1 tellurium 107  
 NT1 tellurium 108  
 NT1 tellurium 109  
 NT1 tellurium 110  
 NT1 terbium 149  
 NT1 terbium 151  
 NT1 thallium 179  
 NT1 thallium 182  
 NT1 thallium 183  
 NT1 thallium 184  
 NT1 thallium 185  
 NT1 thallium 186  
 NT1 thallium 187  
 NT1 thorium 212  
 NT1 thorium 213  
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 NT1 thorium 223

NT1 thorium 224  
 NT1 thorium 225  
 NT1 thorium 226  
 NT1 thorium 227  
 NT1 thorium 228  
 NT1 thorium 229  
 NT1 thorium 230  
 NT1 thorium 232  
 NT1 thulium 153  
 NT1 thulium 154  
 NT1 thulium 155  
 NT1 thulium 156  
 NT1 thulium 157  
 NT1 tungsten 158  
 NT1 tungsten 159  
 NT1 tungsten 160  
 NT1 tungsten 161  
 NT1 tungsten 162  
 NT1 tungsten 163  
 NT1 tungsten 164  
 NT1 tungsten 165  
 NT1 tungsten 166  
 NT1 uranium 218  
 NT1 uranium 219  
 NT1 uranium 222  
 NT1 uranium 223  
 NT1 uranium 224  
 NT1 uranium 225  
 NT1 uranium 226  
 NT1 uranium 227  
 NT1 uranium 228  
 NT1 uranium 229  
 NT1 uranium 230  
 NT1 uranium 231  
 NT1 uranium 232  
 NT1 uranium 233  
 NT1 uranium 234  
 NT1 uranium 235  
 NT1 uranium 236  
 NT1 uranium 238  
 NT1 xenon 110  
 NT1 xenon 111  
 NT1 xenon 112  
 NT1 ytterbium 154  
 NT1 ytterbium 155  
 NT1 ytterbium 156  
 NT1 ytterbium 157  
 NT1 ytterbium 158  
 RT alpha decay

#### ALPHA DETECTION

\*BT1 charged particle detection  
 RT alpha dosimetry  
 RT alpha spectrometers  
 RT alpha spectroscopy

#### alpha device

1996-07-16  
 (Until July 1996 this was a valid descriptor.)  
 USE tlp devices

#### ALPHA DOSIMETRY

BT1 dosimetry  
 RT alpha detection

#### alpha-nitroso-beta-naphthol

USE 1-nitroso-2-naphthol

#### alpha particle model

USE cluster model

#### ALPHA PARTICLES

*Emitted by nuclei.*  
 UF alpha autoradiography  
 BT1 charged particles  
 \*BT1 ionizing radiations  
 NT1 cosmic alpha particles  
 NT1 delayed alpha particles  
 NT1 solar alpha particles  
 RT alpha beams  
 RT alpha decay

RT alpha sources  
 RT alpha spectra  
 RT geiger-nuttall law  
 RT helium ash  
 RT helium ions

#### ALPHA REACTIONS

UF helium 4 reactions  
 \*BT1 charged-particle reactions

#### ALPHA SOURCES

BT1 ion sources  
 \*BT1 particle sources  
 RT alpha particles

#### ALPHA SPECTRA

BT1 spectra  
 RT alpha particles

#### ALPHA SPECTROMETERS

\*BT1 spectrometers  
 RT alpha detection

#### alpha spectrometry

INIS: 1975-10-23; ETDE: 2002-06-07  
 USE alpha spectroscopy

#### ALPHA SPECTROSCOPY

UF alpha spectrometry  
 BT1 spectroscopy  
 RT alpha detection

#### ALPHA-TRANSFER REACTIONS

\*BT1 four-nucleon transfer reactions

#### ALPS

BT1 mountains  
 RT albania  
 RT austria  
 RT croatia  
 RT federal republic of germany  
 RT france  
 RT italy  
 RT slovenia  
 RT switzerland

#### ALRR REACTOR

Ames Laboratory, Iowa State Univ., Ames, Iowa, USA. Shut down in 1977.

UF ames laboratory research reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

#### als storage ring

INIS: 1992-08-17; ETDE: 1992-06-11  
 USE advanced light source

#### ALTAMAHA RIVER

INIS: 2000-04-12; ETDE: 1980-12-08  
 \*BT1 rivers  
 RT georgia  
 RT hydroelectric power plants

#### alternate fuels

INIS: 2000-04-12; ETDE: 1979-03-29  
 See specific fuel headings, e.g., gasoline, hydrogen fuels, etc.  
 SEE fuel substitution  
 SEE synthetic fuels

#### ALTERNATING CURRENT

UF current (alternating)  
 \*BT1 electric currents  
 RT alternators  
 RT parametric instabilities

**alternating current systems**

*INIS: 1991-12-17; ETDE: 2002-06-07*  
USE ac systems

**ALTERNATIVE WORK SCHEDULES**

*INIS: 2000-04-12; ETDE: 1984-05-08*  
UF compressed work week  
UF flexitime  
UF part-time work schedules  
UF shift work  
BT1 administrative procedures  
RT personnel  
RT working days

**ALTERNATORS**

\*BT1 electric generators  
RT alternating current  
RT automotive accessories

**althein**

USE asparagine

**ALTIMETERS**

BT1 measuring instruments

**ALTITUDE**

*INIS: 1996-08-05; ETDE: 1993-08-10*  
(Until July 1996 this concept was indexed to LEVELS.)  
RT height  
RT levels  
RT sun charts

**alto lazio-1 reactor**

*INIS: 1985-03-15; ETDE: 1985-04-09*  
USE montalto di castro-1 reactor

**alto lazio-2 reactor**

*INIS: 1985-03-15; ETDE: 1985-04-09*  
USE montalto di castro-2 reactor

**ALUDUR**

2000-04-12  
\*BT1 aluminium base alloys  
\*BT1 iron additions  
\*BT1 silicon additions

**ALUMEL**

1993-10-03  
\*BT1 alloy-ni94mn3al2

**ALUMINATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*  
BT1 aluminium compounds  
BT1 oxygen compounds  
RT aluminium oxides

**aluminia**

*INIS: 1975-09-01; ETDE: 1979-05-03*  
USE aluminium oxides

**ALUMINIUM**

UF aluminum  
\*BT1 metals  
RT lime-soda sinter process  
RT sintered aluminium powders

**ALUMINIUM 22**

*INIS: 1977-06-13; ETDE: 1977-10-19*  
\*BT1 aluminium isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

**ALUMINIUM 23**

\*BT1 aluminium isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**ALUMINIUM 24**

\*BT1 aluminium isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**ALUMINIUM 25**

\*BT1 aluminium isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**ALUMINIUM 25 TARGET**

*INIS: 1979-04-27; ETDE: 1979-05-25*  
BT1 targets

**ALUMINIUM 26**

\*BT1 aluminium isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 years living radioisotopes

**ALUMINIUM 26 TARGET**

*INIS: 1984-06-21; ETDE: 1982-11-08*  
BT1 targets

**ALUMINIUM 27**

\*BT1 aluminium isotopes  
\*BT1 light nuclei  
\*BT1 odd-even nuclei  
\*BT1 stable isotopes

**ALUMINIUM 27 BEAMS**

*INIS: 1977-01-25; ETDE: 1977-04-13*  
\*BT1 ion beams

**ALUMINIUM 27 REACTIONS**

*INIS: 1978-08-30; ETDE: 1978-10-19*  
\*BT1 heavy ion reactions

**ALUMINIUM 27 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**ALUMINIUM 28**

\*BT1 aluminium isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**ALUMINIUM 28 TARGET**

*INIS: 1979-04-27; ETDE: 1979-05-25*  
BT1 targets

**ALUMINIUM 29**

\*BT1 aluminium isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

**ALUMINIUM 30**

\*BT1 aluminium isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**ALUMINIUM 31**

\*BT1 aluminium isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei

**ALUMINIUM 32**

\*BT1 aluminium isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

**ALUMINIUM 33**

\*BT1 aluminium isotopes  
\*BT1 light nuclei  
\*BT1 odd-even nuclei

**ALUMINIUM 34**

*INIS: 1977-10-17; ETDE: 1977-08-09*  
\*BT1 aluminium isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

**ALUMINIUM 35**

*INIS: 1979-09-18; ETDE: 1979-04-11*  
\*BT1 aluminium isotopes  
\*BT1 light nuclei  
\*BT1 odd-even nuclei

**ALUMINIUM 36**

*INIS: 1980-07-24; ETDE: 1980-02-11*  
\*BT1 aluminium isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 odd-odd nuclei

**ALUMINIUM 37**

*INIS: 1980-07-24; ETDE: 1980-02-11*  
\*BT1 aluminium isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 odd-even nuclei

**ALUMINIUM 38**

*INIS: 1989-09-14; ETDE: 1989-10-16*  
\*BT1 aluminium isotopes  
\*BT1 light nuclei  
\*BT1 odd-odd nuclei

**ALUMINIUM 39**

*INIS: 1989-09-14; ETDE: 1989-10-16*  
\*BT1 aluminium isotopes  
\*BT1 light nuclei  
\*BT1 odd-even nuclei

**ALUMINIUM 40**

2005-01-19  
\*BT1 aluminium isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 nanoseconds living radioisotopes  
\*BT1 odd-odd nuclei

**ALUMINIUM ADDITIONS**

1996-11-13  
*Alloys containing not more than 1% Al are listed here.*  
\*BT1 aluminium alloys  
NT1 alloy-fe44ni33cr21  
NT2 incoloy 800h  
NT1 alloy-fe46ni33cr21  
NT2 incoloy 800  
NT2 incoloy 802  
NT1 alloy-in-102  
NT1 alloy-ni43fe30cr22mo3  
NT2 incoloy 825  
NT1 alloy-ni53cr19fe19nb5mo3  
NT2 inconel 718  
NT1 alloy-ni54cr22co13mo9  
NT2 inconel 617  
NT1 alloy-ni61cr22mo9nb4fe3  
NT2 inconel 625  
NT1 alloy-ni62cr16mo15fe3  
NT2 hastelloy s  
NT1 alloy-ni70mo17cr7fe5

NT2 hastelloy n  
 NT2 inor-8  
 NT1 alloy-ni73cr15fe7ti3  
 NT2 inconel x750  
 NT1 alloy-ni76cr15fe8  
 NT2 inconel 600  
 NT1 alloy-ni77cr20ti2  
 NT1 alloy-ni78cr21  
 NT1 alloy-ni80cr20  
 NT1 discaloy  
 NT1 incoloy 901  
 NT1 steel-cr13al  
 NT2 stainless steel-405  
 NT1 steel-cralnimo  
 NT1 steel-ni26cr15ti2moyalb  
 NT2 alloy-a-286  
 NT1 steel-ni36cr12ti3al-1

**ALUMINIUM-AIR BATTERIES**

INIS: 2000-04-12; ETDE: 1980-03-04

\*BT1 metal-gas batteries

**ALUMINIUM ALLOYS**

1996-11-13

Alloys containing more than 1% Al.

UF alloy-ni78cr16al4  
 UF inconel 702  
 UF sichromal alloys  
 BT1 alloys  
 NT1 alloy-b-1900  
 NT1 alloy-d-979  
 NT1 alloy-in-853  
 NT1 alloy-khn50mbvyu  
 NT1 alloy-m-813  
 NT1 alloy-mar-m246  
 NT1 alloy-mn-21  
 NT1 alloy-ni43fe33cr16mo3  
 NT2 nimonic pe16  
 NT1 alloy-ni46cr23co19ti5al4  
 NT2 alloy-in-939  
 NT1 alloy-ni50co20cr15al5mo5  
 NT2 nimonic 105  
 NT1 alloy-ni53co19cr15mo5al4ti3  
 NT2 udimet 700  
 NT1 alloy-ni55co17cr15mo5al4ti4  
 NT2 astroloy  
 NT1 alloy-ni55cr19co11mo10ti3  
 NT2 rene 41  
 NT1 alloy-ni58cr20co14mo4ti3  
 NT2 waspaloy  
 NT1 alloy-ni59cr20co17ti2  
 NT1 alloy-ni60co15cr10al6ti5mo3  
 NT2 alloy-in-100  
 NT1 alloy-ni61cr16co9al3ti3w3  
 NT2 alloy-in-738  
 NT1 alloy-ni74cr13al6mo4  
 NT2 inconel 713c  
 NT1 alloy-ni75cr12al6mo5  
 NT2 inconel 713lc  
 NT1 alloy-ni76cr20ti2  
 NT2 nimonic 80a  
 NT1 alloy-ni94mn3al2  
 NT2 alumel  
 NT1 alloy-nt25a5  
 NT1 alloy-nx-188  
 NT1 alloy-ti78cr11mo7al3  
 NT1 alloy-ti88mo8al3  
 NT1 alloy-ti89al6mo3  
 NT1 alloy-ti90al6  
 NT1 alloy-ti90al6mo3  
 NT1 alloy-ti90al6v4  
 NT1 alloy-ti90mo7al2  
 NT1 alloy-ti91al4mo3  
 NT1 alloy-ti91al5cr2  
 NT1 alloy-yundk 25ba  
 NT1 alnico alloys  
 NT1 aluminium additions  
 NT2 alloy-fe44ni33cr21  
 NT3 incoloy 800h  
 NT2 alloy-fe46ni33cr21

NT3 incoloy 800  
 NT3 incoloy 802  
 NT2 alloy-in-102  
 NT2 alloy-ni43fe30cr22mo3  
 NT3 incoloy 825  
 NT2 alloy-ni53cr19fe19nb5mo3  
 NT3 inconel 718  
 NT2 alloy-ni54cr22co13mo9  
 NT3 inconel 617  
 NT2 alloy-ni61cr22mo9nb4fe3  
 NT3 inconel 625  
 NT2 alloy-ni62cr16mo15fe3  
 NT3 hastelloy s  
 NT2 alloy-ni70mo17cr7fe5  
 NT3 hastelloy n  
 NT3 inor-8  
 NT2 alloy-ni73cr15fe7ti3  
 NT3 inconel x750  
 NT2 alloy-ni76cr15fe8  
 NT3 inconel 600  
 NT2 alloy-ni77cr20ti2  
 NT2 alloy-ni78cr21  
 NT2 alloy-ni80cr20  
 NT2 discaloy  
 NT2 incoloy 901  
 NT2 steel-cr13al  
 NT3 stainless steel-405  
 NT2 steel-cralnimo  
 NT3 alloy-a-286  
 NT2 steel-ni36cr12ti3al-1  
 NT1 aluminium base alloys  
 NT2 alloy-al95cu4  
 NT3 duralumin  
 NT2 aludur  
 NT2 bondur  
 NT2 duranalium  
 NT2 heddur  
 NT2 lynite  
 NT2 magnalium  
 NT1 duranickel  
 NT1 ge 2541  
 NT1 heusler alloys  
 NT1 hoskins 875  
 NT1 kanthal  
 NT1 magnesium alloy-az31b  
 NT1 nimonic 115  
 NT1 rene-100  
 NT1 rene 80  
 NT1 rene 95  
 NT1 stainless steel-17-7ph  
 NT1 zamak

**ALUMINIUM ARSENIDE SOLAR CELLS**

INIS: 1992-05-28; ETDE: 1981-07-18

\*BT1 solar cells

**ALUMINIUM ARSENIDES**

BT1 aluminium compounds  
 \*BT1 arsenides

**ALUMINIUM BASE ALLOYS**

UF alloy-1915  
 UF alloy-214x  
 SF alloy-vad23  
 \*BT1 aluminium alloys  
 NT1 alloy-al95cu4  
 NT2 duralumin  
 NT1 aludur  
 NT1 bondur  
 NT1 duranalium  
 NT1 heddur  
 NT1 lynite  
 NT1 magnalium

**ALUMINIUM BORIDES**

BT1 aluminium compounds  
 \*BT1 borides

**ALUMINIUM BROMIDES**

BT1 aluminium compounds  
 \*BT1 bromides

**ALUMINIUM CARBIDES**

BT1 aluminium compounds  
 \*BT1 carbides

**ALUMINIUM CHLORIDES**

BT1 aluminium compounds  
 \*BT1 chlorides

**ALUMINIUM COMPLEXES**

BT1 complexes

**ALUMINIUM COMPOUNDS**

NT1 aluminates  
 NT1 aluminium arsenides  
 NT1 aluminium borides  
 NT1 aluminium bromides  
 NT1 aluminium carbides  
 NT1 aluminium chlorides  
 NT1 aluminium fluorides  
 NT1 aluminium hydrides  
 NT1 aluminium hydroxides  
 NT1 aluminium iodides  
 NT1 aluminium nitrates  
 NT1 aluminium nitrides  
 NT1 aluminium oxides  
 NT1 aluminium perchlorates  
 NT1 aluminium phosphates  
 NT1 aluminium phosphides  
 NT1 aluminium selenides  
 NT1 aluminium silicates  
 NT1 aluminium silicides  
 NT1 aluminium sulfates  
 NT1 aluminium sulfides  
 NT1 aluminium tellurides  
 NT1 aluminium tungstates  
 RT dawsonite

**ALUMINIUM FLUORIDES**

BT1 aluminium compounds  
 \*BT1 fluorides

**ALUMINIUM HYDRIDES**

BT1 aluminium compounds  
 \*BT1 hydrides

**ALUMINIUM HYDROXIDES**

BT1 aluminium compounds  
 \*BT1 hydroxides  
 RT bauxite  
 RT gibbsite  
 RT nordstrandite

**ALUMINIUM IODIDES**

BT1 aluminium compounds  
 \*BT1 iodides

**ALUMINIUM IONS**

\*BT1 ions

**ALUMINIUM ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 aluminium 22  
 NT1 aluminium 23  
 NT1 aluminium 24  
 NT1 aluminium 25  
 NT1 aluminium 26  
 NT1 aluminium 27  
 NT1 aluminium 28  
 NT1 aluminium 29  
 NT1 aluminium 30  
 NT1 aluminium 31  
 NT1 aluminium 32  
 NT1 aluminium 33  
 NT1 aluminium 34  
 NT1 aluminium 35  
 NT1 aluminium 36  
 NT1 aluminium 37

- NT1 aluminium 38  
 NT1 aluminium 39  
 NT1 aluminium 40

**ALUMINIUM NITRATES**

- BT1 aluminium compounds  
 \*BT1 nitrates

**ALUMINIUM NITRIDES**

- BT1 aluminium compounds  
 \*BT1 nitrides

**ALUMINIUM ORES**

ETDE: 1975-09-11

- BT1 ores  
 NT1 bauxite

**ALUMINIUM OXIDES**

- UF *alunina*  
 UF *sialon*  
 UF *yttrium aluminium garnets*  
 BT1 aluminium compounds  
 \*BT1 oxides  
 RT aluminates  
 RT chrysoberyl  
 RT corundum  
 RT hollandite  
 RT integrated in-situ process  
 RT oxide minerals  
 RT spinels

**ALUMINIUM PERCHLORATES**

INIS: 1989-02-24; ETDE: 1989-03-20

- BT1 aluminium compounds  
 \*BT1 perchlorates

**ALUMINIUM PHOSPHATES**

1996-06-26

- BT1 aluminium compounds  
 \*BT1 phosphates  
 RT phosphate minerals  
 RT sabugalite

**ALUMINIUM PHOSPHIDES**

INIS: 1983-02-03; ETDE: 1980-02-11

- BT1 aluminium compounds  
 \*BT1 phosphides

**ALUMINIUM SELENIDES**

INIS: 1991-09-16; ETDE: 1978-09-13

- BT1 aluminium compounds  
 \*BT1 selenides

**ALUMINIUM SILICATES**

- BT1 aluminium compounds  
 \*BT1 silicates  
 RT epidotes  
 RT kaolinite  
 RT orthoclase  
 RT petalite  
 RT pollucite  
 RT pyrophyllite  
 RT silicate minerals  
 RT smectite  
 RT tourmaline  
 RT vermiculite

**ALUMINIUM SILICIDES**

INIS: 1977-03-01; ETDE: 1975-10-28

- BT1 aluminium compounds  
 \*BT1 silicides

**ALUMINIUM SULFATES**

- BT1 aluminium compounds  
 \*BT1 sulfates  
 RT alunite  
 RT sulfate minerals

**ALUMINIUM SULFIDES**

- BT1 aluminium compounds  
 \*BT1 sulfides

**ALUMINIUM TELLURIDES**

INIS: 1991-09-16; ETDE: 1975-09-11

- BT1 aluminium compounds  
 \*BT1 tellurides

**ALUMINIUM TUNGSTATES**

INIS: 1979-09-18; ETDE: 1979-10-23

- BT1 aluminium compounds  
 \*BT1 tungstates

**aluminon**

1996-10-22

(Until October 1996 this was a valid descriptor.)

- USE hydroxy acids  
 USE triphenylmethane dyes

**aluminium**

INIS: 2000-04-12; ETDE: 1981-03-16

- USE aluminium

**ALUNITE**

2000-04-12

*A mineral, rhombohedral, usually in white, gray or pink masses in hydrothermally altered feldspathic rock.*

- \*BT1 sulfate minerals  
 RT aluminium sulfates

**alveoli (dental)**

- USE jaw

**alveoli (pulmonary)**

- USE lungs

**ALVITE**

2000-04-12

- \*BT1 silicate minerals  
 RT zirconium silicates

**am-1 reactor**

- USE aps reactor

**amalgams**

- USE mercury alloys

**AMAZON RIVER**

INIS: 1982-06-09; ETDE: 1977-08-09

- \*BT1 rivers  
 RT brazil  
 RT peru

**AMBER**

- \*BT1 other organic compounds

**amberlite**

- USE organic ion exchangers

**AMBIENT TEMPERATURE**

INIS: 1993-07-06; ETDE: 1976-03-22

*The temperature of the environment.*

- UF *atmospheric temperature*  
 UF *environmental temperature*  
 UF *global temperature*  
 UF *temperature (ambient)*  
 UF *temperature (atmospheric)*  
 UF *temperature (global)*  
 RT climate models  
 RT climatic change  
 RT nuclear winter  
 RT outdoors  
 RT temperature control  
 RT temperature dependence  
 RT temperature distribution  
 RT temperature gradients  
 RT temperature measurement  
 RT temperature range

**AMBIPLASMA**

*Containing both matter and antimatter.*

- BT1 plasma  
 RT antimatter  
 RT matter

**AMBIPOLAR DIFFUSION**

- BT1 diffusion  
 RT electron drift  
 RT ion drift  
 RT plasma drift

**AMBROSIA LAKE**

- \*BT1 lakes

**AMCHITKA ISLAND AREA**

- \*BT1 aleutian islands  
 RT alaska

**amdahl computers**

INIS: 2000-04-12; ETDE: 1977-09-19

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE computers

**ameba**

- USE amoeba

**AMENDMENTS**

INIS: 1999-01-28; ETDE: 1979-12-10

- RT laws  
 RT legal aspects  
 RT legislation  
 RT regulations

**amenorrhea**

- USE menstruation disorders

**american blacks**

INIS: 2000-04-12; ETDE: 1981-03-17

- USE black americans

**american hispanics**

INIS: 2000-04-12; ETDE: 1982-01-21

- USE hispanic americans

**AMERICAN INDIANS**

INIS: 1999-04-30; ETDE: 1977-11-29

(From January 1979 to March 1997 INDIAN RESERVATIONS was a valid ETDE descriptor.)

- UF *indians (american)*  
 SF *indian reservations*

- \*BT1 minority groups

**american orientals**

INIS: 2000-04-12; ETDE: 1982-01-21

- USE oriental americans

**AMERICAN SAMOA**

INIS: 1993-10-01; ETDE: 1979-09-26

- BT1 islands  
 \*BT1 usa  
 RT pacific ocean

**AMERICIUM**

- \*BT1 actinides  
 \*BT1 transplutonium elements  
 RT sesame process

**AMERICIUM 232**

- \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 americium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**AMERICIUM 233**

2001-01-30

- \*BT1 actinide nuclei  
 \*BT1 americium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**AMERICIUM 234**

- \*BT1 actinide nuclei  
 \*BT1 americium isotopes

- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**AMERICIUM 235**

*INIS: 1997-06-05; ETDE: 1997-02-10*

- \*BT1 actinide nuclei
- \*BT1 americium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**AMERICIUM 236**

*INIS: 1997-02-07; ETDE: 1977-11-09*

- \*BT1 actinide nuclei
- \*BT1 americium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**AMERICIUM 237**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 americium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes

**AMERICIUM 238**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 americium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**AMERICIUM 239**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 americium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes

**AMERICIUM 240**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 americium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**AMERICIUM 241**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 americium isotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**AMERICIUM 241 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**AMERICIUM 242**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 americium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**AMERICIUM 242 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**AMERICIUM 243**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 americium isotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**AMERICIUM 243 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**AMERICIUM 244**

- \*BT1 actinide nuclei
- \*BT1 americium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**AMERICIUM 245**

- \*BT1 actinide nuclei
- \*BT1 americium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes

**AMERICIUM 246**

- \*BT1 actinide nuclei
- \*BT1 americium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**AMERICIUM 247**

- \*BT1 actinide nuclei
- \*BT1 americium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

***americium additions***

*1996-07-16*

*Alloys containing not more than 1% Am.*

(Until July 1996 this was a valid descriptor.)

SEE americium alloys

SEE americium compounds

**AMERICIUM ALLOYS**

*1996-07-16*

*Alloys containing more than 1% Am.*

UF *americium base alloys*

SF *americium additions*

\*BT1 actinide alloys

***americium arsenides***

*INIS: 1996-07-16; ETDE: 1976-12-16*

(Until July 1996 this was a valid descriptor.)

USE americium compounds

USE arsenides

***americium base alloys***

*1996-07-16*

(Until July 1996 this was a valid descriptor.)

USE americium alloys

***americium bromides***

*1997-01-28*

(Until October 1996 this was a valid descriptor.)

USE americium compounds

USE bromides

***americium carbides***

*1996-07-16*

(Until July 1996 this was a valid descriptor.)

USE americium compounds

USE carbides

**AMERICIUM CARBONATES**

\*BT1 americium compounds

\*BT1 carbonates

**AMERICIUM CHLORIDES**

\*BT1 americium compounds

\*BT1 chlorides

**AMERICIUM COMPLEXES**

\*BT1 actinide complexes

\*BT1 transuranium complexes

**AMERICIUM COMPOUNDS**

*1996-11-13*

(Prior to August 1996 AMERICIUM

ADDITIONS was a valid ETDE descriptor.)

UF *americium arsenides*

UF *americium bromides*

UF *americium carbides*

UF *americium iodides*

UF *americium phosphides*

UF *americium selenides*

UF *americium silicates*

UF *americium silicides*

UF *americium sulfates*

UF *americium sulfides*

UF *americium tellurides*

SF *americium additions*

BT1 actinide compounds

\*BT1 transplutonium compounds

NT1 americium carbonates

NT1 americium chlorides

NT1 americium fluorides

NT1 americium hydrides

NT1 americium hydroxides

NT1 americium nitrates

NT1 americium nitrides

NT1 americium oxides

NT1 americium perchlorates

NT1 americium phosphates

**AMERICIUM FLUORIDES**

\*BT1 americium compounds

\*BT1 fluorides

**AMERICIUM HYDRIDES**

*1984-11-30*

\*BT1 americium compounds

\*BT1 hydrides

**AMERICIUM HYDROXIDES**

\*BT1 americium compounds

\*BT1 hydroxides

***americium iodides***

*1997-01-28*

(Until October 1996 this was a valid descriptor.)

USE americium compounds

USE iodides

**AMERICIUM IONS**

\*BT1 ions

**AMERICIUM ISOTOPES**

*1999-07-16*

BT1 isotopes

NT1 americium 232

NT1 americium 233

NT1 americium 234

NT1 americium 235

NT1 americium 236

NT1 americium 237

NT1 americium 238

NT1 americium 239

NT1 americium 240

NT1 americium 241  
 NT1 americium 242  
 NT1 americium 243  
 NT1 americium 244  
 NT1 americium 245  
 NT1 americium 246  
 NT1 americium 247

**AMERICIUM NITRATES**

\*BT1 americium compounds  
 \*BT1 nitrates

**AMERICIUM NITRIDES**

\*BT1 americium compounds  
 \*BT1 nitrides

**AMERICIUM OXIDES**

\*BT1 americium compounds  
 \*BT1 oxides

**AMERICIUM PERCHLORATES**

INIS: 1978-09-28; ETDE: 1978-10-19

\*BT1 americium compounds  
 \*BT1 perchlorates

**AMERICIUM PHOSPHATES**

INIS: 1978-07-31; ETDE: 1978-09-11

\*BT1 americium compounds  
 \*BT1 phosphates

**americium phosphides**

2000-04-12

(Prior to January 1993 this was a valid ETDE descriptor.)

USE americium compounds  
 USE phosphides

**americium selenides**

INIS: 1996-07-16; ETDE: 1976-01-23

(Until July 1996 this was a valid descriptor.)

USE americium compounds  
 USE selenides

**americium silicates**

INIS: 1997-01-28; ETDE: 1984-09-05

(Until October 1996 this was a valid descriptor.)

USE americium compounds  
 USE silicates

**americium silicides**

INIS: 2000-04-12; ETDE: 1978-12-11

(Prior to March 1997 this was a valid ETDE descriptor.)

USE americium compounds  
 USE silicides

**americium sulfates**

2000-04-12

(Prior to March 1997 this was a valid ETDE descriptor.)

USE americium compounds  
 USE sulfates

**americium sulfides**

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE americium compounds  
 USE sulfides

**americium tellurides**

INIS: 1997-01-28; ETDE: 1976-01-23

(Until October 1996 this was a valid descriptor.)

USE americium compounds  
 USE tellurides

**ames, iowa state university utr-10 reactor**

INIS: 1993-11-03; ETDE: 2002-06-07

USE iowa utr-10 reactor

**AMES LABORATORY**

\*BT1 us aec  
 \*BT1 us doe  
 \*BT1 us erda  
 RT iowa

**ames laboratory research reactor**

2000-04-12

USE alrr reactor

**ames test**

INIS: 2000-04-12; ETDE: 1978-11-14

USE mutagen screening

**ames wet oxidation process**

INIS: 2000-04-12; ETDE: 1980-09-04

This process, similar to the Ledgemont and Pittsburgh processes, uses alkaline leaching solution to improve the extraction of pyritic sulfur, remove some organic sulfur, and be less corrosive.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**amethopterin**

USE methotrexate

**AMEX PROCESS**

\*BT1 reprocessing

RT amines

RT solvent extraction

**AMIDASES**

INIS: 1986-12-03; ETDE: 1981-01-30

Code number 3.5.1.

\*BT1 non-peptide c-n hydrolases

NT1 arginase

NT1 urease

**AMIDES**

1996-10-23

UF hypaque

UF ioglycamic acid

\*BT1 organic nitrogen compounds

NT1 acetamide

NT1 acrylamide

NT1 asparagine

NT1 formamide

NT1 glutamine

NT1 hydroxyurea

NT1 lactams

NT2 pyrrolidones

NT3 pvp

NT1 metrizamide

NT1 nicotinamide

NT1 sulfenamides

NT1 sulfonamides

NT1 thionalide

NT1 urea

RT bph

RT cerebrosides

RT chloramines

RT diamex process

RT guanidines

RT polyamides

RT thioureas

**AMIDINASES**

INIS: 2000-04-12; ETDE: 1981-02-18

Code number 3.5.3.

\*BT1 non-peptide c-n hydrolases

**AMIDINES**

1996-07-08

(Prior to August 1996 STILBAMIDINE was a valid ETDE descriptor.)

UF iminoamides

UF stilbamidine

\*BT1 organic nitrogen compounds

**amidol**

1996-09-06

(Until July 1996 this was a valid descriptor.)

USE amines

USE developers

USE phenols

**AMINATION**

BT1 chemical reactions

RT deamination

**AMINE OXIDASES**

INIS: 1991-07-02; ETDE: 1981-01-12

Code numbers 1.4 and 1.5.

UF histaminase

\*BT1 oxidoreductases

**AMINES**

1996-10-23

UF amidol

UF amino alcohols

UF amino sugars

UF aminoglycides

UF aminopropiophenone-para

UF arsanilic acid

UF bromamines

UF butylamine

UF cephalins

UF congo red

UF cytriphos

UF ndpp

UF neocupferron

UF neutral red

UF papp

UF tna

UF tolylene red

UF trinonylamine

BT1 organic compounds

NT1 acridine orange

NT1 adenines

NT2 kinetin

NT1 aminopterin

NT1 amphetamines

NT2 benzedrine

NT1 aniline

NT1 benzidine

NT1 beta-aminoethyl isothiurea

NT1 bph

NT1 cadaverine

NT1 catecholamines

NT1 chlorambucil

NT1 chloramines

NT1 chlorpromazine

NT1 cupferron

NT1 cystamine

NT1 cystaphos

NT1 cysteamine

NT1 cytosine

NT1 deferoxamine

NT1 dopamine

NT1 ephedrine

NT1 flavines

NT2 acriflavine

NT2 proflavine

NT1 gammaphos

NT1 guanine

NT1 hexosamines

NT2 glucosamine

NT1 histamine

NT1 hydroxamic acids

NT2 benzohydroxamic acid

NT1 hydroxylamine

NT1 imipramine

NT1 luminol

NT1 melamine

NT1 methyl orange

NT1 methyl violet

NT1 methylamine

NT1 methylene blue

NT1 morpholines

**NT1** mucopolysaccharides  
**NT2** chitin  
**NT2** chondroitin  
**NT2** heparin  
**NT2** hyaluronic acid  
**NT1** nitrogen mustard  
**NT1** nitrosamines  
**NT1** oximes  
**NT2** benzoinoxime  
**NT2** dimethylglyoxime  
**NT1** piperidines  
**NT2** dipyridamole  
**NT2** pethidine  
**NT2** triacetoneamine-n-oxyl  
**NT1** polycyclic aromatic amines  
**NT1** primene  
**NT1** putrescine  
**NT1** pyrrolidines  
**NT2** hydroxyproline  
**NT2** nicotine  
**NT2** proline  
**NT1** quaternary compounds  
**NT2** acetylcholine  
**NT2** betaine  
**NT2** choline  
**NT2** pyridinium compounds  
**NT1** rhodamines  
**NT1** spermidine  
**NT1** spermine  
**NT1** sulfanilic acid  
**NT1** taurine  
**NT1** tda  
**NT1** teta  
**NT1** tetryl  
**NT1** thiamine  
**NT1** thionine  
**NT1** toluidines  
**NT1** tridodecylamine  
**NT1** trioctylamine  
**NT1** trypan blue  
**NT1** tryptamines  
**NT2** melatonin  
**NT2** serotonin  
**NT3** bufotenine  
**NT1** tyramine  
**NT1** urotropin  
**RT** amex process  
**RT** eurex process  
**RT** piperazines  
**RT** sialic acid  
**RT** tramex process

**AMINO ACID SEQUENCE**

*INIS: 1993-08-03; ETDE: 1984-01-27*

(Until August 1993, this concept was indexed by PROTEIN STRUCTURE.)

**UF** protein sequencing  
**BT1** molecular structure  
**RT** protein engineering  
**RT** protein structure  
**RT** proteins  
**RT** structural chemical analysis

**AMINO ACIDS**

1996-10-23

*For carboxylic acids only.*

**UF** amino adipic acid  
**UF** aminosalicilic acid-para  
**UF** cpda  
**UF** cyclopentanediaminetetraacetic acid  
**UF** hexamethylenediaminetetraacetic acid  
**UF** hmdta  
**UF** homocystine  
**UF** pas  
**\*BT1** carboxylic acids  
**NT1** alanines  
**NT2** alanine-alpha  
**NT3** alanine-l  
**NT2** alanine-beta

**NT1** aminobutyric acid  
**NT1** aminolevulinic acid  
**NT1** anthranilic acid  
**NT1** arginine  
**NT1** asparagine  
**NT1** aspartic acid  
**NT1** betaine  
**NT1** carnitine  
**NT1** cdta  
**NT1** citrulline  
**NT1** creatine  
**NT1** cysteine  
**NT1** cystine  
**NT1** dcta  
**NT1** diiodotyrosine  
**NT1** dopa  
**NT1** dtpa  
**NT1** eddha  
**NT1** edta  
**NT1** ethionine  
**NT1** folic acid  
**NT1** glutamic acid  
**NT2** pyridoxylidene-glutamate  
**NT1** glutamine  
**NT1** glycine  
**NT1** glycylglycine  
**NT1** hedta  
**NT1** heida  
**NT1** hippuric acid  
**NT1** histidine  
**NT1** homocysteine  
**NT1** hydroxyproline  
**NT1** hydroxytryptophan  
**NT1** kynurenine  
**NT1** leucine  
**NT1** lysine  
**NT1** methionine  
**NT1** methyl red  
**NT1** methyl tyrosine  
**NT1** mimosine  
**NT1** mpg  
**NT1** nta  
**NT1** ornithine  
**NT1** paba  
**NT1** pantothenic acid  
**NT1** penicillamine  
**NT1** phenylalanine  
**NT1** phosphocreatine  
**NT1** proline  
**NT1** sarcosine  
**NT1** serine  
**NT1** tetaha  
**NT1** threonine  
**NT1** thyronine  
**NT1** thyroxine  
**NT1** tryptophan  
**NT1** tyrosine  
**NT1** valine  
**RT** lactams  
**RT** protein structure  
**RT** proteins

**amino alcohols**

**USE** alcohols  
**USE** amines

**amino sugars**

**USE** amines  
**USE** saccharides

**aminoacetic acid**

**USE** glycine

**amino adipic acid**

1996-10-22

(Until October 1996 this was a valid descriptor.)

**USE** amino acids

**aminobenzene**

**USE** aniline

**aminobenzenesulfonic acid-para**

**USE** sulfanilic acid

**aminobenzoic acid-ortho**

**USE** anthranilic acid

**aminobenzoic acid-para**

**USE** paba

**AMINO BUTYRIC ACID**

**\*BT1** amino acids

**\*BT1** neuroregulators

**aminoethanesulfonic acid**

**USE** taurine

**aminoethanethiol**

**USE** cysteamine

**aminoethylisothiuronium bromide**

1984-06-21

**USE** beta-aminoethyl isothioureia

**aminoethylthiopseudourea**

**USE** beta-aminoethyl isothioureia

**aminoglutaric acid-alpha**

**USE** glutamic acid

**aminoglycides**

**USE** amines

**USE** saccharides

**aminohypoxanthine**

**USE** guanine

**aminoisocaproic acid-alpha**

**USE** leucine

**aminoisovaleric acid-alpha**

**USE** valine

**AMINO LEVULINIC ACID**

**\*BT1** amino acids

**AMINOPEPTIDASES**

*INIS: 1986-12-03; ETDE: 1981-01-12*

*Code numbers 3.4.11.*

**\*BT1** peptide hydrolases

**aminophenylacetic acid-alpha**

**USE** phenylalanine

**aminopropionic acid-alpha**

**USE** alanine-alpha

**aminopropionic acid-beta**

**USE** alanine-beta

**aminopropiophenone-para**

1996-07-18

(Prior to March 1997 PAPP was used for this concept in ETDE.)

**USE** amines

**USE** ketones

**AMINOPTERIN**

**\*BT1** amines

**\*BT1** antimetabolites

**\*BT1** antineoplastic drugs

**\*BT1** pteridines

**RT** antimitotic drugs

**aminopyrine**

*INIS: 1984-04-04; ETDE: 2002-06-07*

**USE** antipyretics

**USE** pyrazolines

**aminosalicylic acid-para**

1996-10-23

(Prior to March 1997 PAS was used for this concept in ETDE.)

USE amino acids

**aminosuccinamic acid-alpha**

USE asparagine

**aminosuccinic acid**

USE aspartic acid

**aminotoluenes**

USE toluidines

**AMINOTRANSFERASES**

Code number 2.6.1.

UF transaminases

\*BT1 nitrogen transferases

**amipaque**

INIS: 1981-08-06; ETDE: 1981-09-22

USE metrizamide

**amisol process**

2000-04-12

*Process for complete desulfurization of gases with low carbon dioxide contents.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**AMMETERS**

\*BT1 electric measuring instruments

**AMMINES**

BT1 complexes

RT ammonia

**AMMONIA**

\*BT1 nitrogen hydrides

RT amines

RT ammonolysis

RT phosam process

RT quaternary compounds

RT refrigerants

**AMMONIA-AMMONIUM****BISULFATE PROCESS**

INIS: 2000-04-12; ETDE: 1977-04-12

*Regenerable process to remove sulfur dioxide from flue gas by absorption in an aqueous ammonium sulfite and bisulfite solution.*

\*BT1 desulfurization

RT waste processing

**AMMONIA FUEL CELLS**

1992-05-20

\*BT1 fuel cells

**AMMONIUM CARBONATES**

INIS: 1978-11-24; ETDE: 1978-12-20

BT1 ammonium compounds

\*BT1 carbonates

NT1 auc

**AMMONIUM CHLORIDES**

INIS: 1978-04-21; ETDE: 1975-12-16

\*BT1 ammonium halides

\*BT1 chlorides

**AMMONIUM COMPLEXES**

INIS: 1981-12-23; ETDE: 1982-02-09

BT1 complexes

**AMMONIUM COMPOUNDS**

NT1 ammonium carbonates

NT2 auc

NT1 ammonium halides

NT2 ammonium chlorides

NT2 ammonium fluorides

NT1 ammonium hydroxides

NT1 ammonium nitrates

NT1 ammonium perchlorates

NT1 ammonium phosphates

NT1 ammonium sulfates

NT1 ammonium thiocyanates

NT1 ammonium tungstates

NT1 ammonium uranates

NT2 adu

NT1 quaternary compounds

NT2 acetylcholine

NT2 betaine

NT2 choline

NT2 pyridinium compounds

**ammonium diuranate**

USE adu

**AMMONIUM FLUORIDES**

INIS: 1979-09-18; ETDE: 1979-10-23

\*BT1 ammonium halides

\*BT1 fluorides

**AMMONIUM HALIDES**

INIS: 1984-01-18; ETDE: 1977-03-08

BT1 ammonium compounds

\*BT1 halides

NT1 ammonium chlorides

NT1 ammonium fluorides

**AMMONIUM HYDROXIDES**

BT1 ammonium compounds

\*BT1 hydroxides

**AMMONIUM NITRATES**

INIS: 1975-11-07; ETDE: 1975-12-16

BT1 ammonium compounds

\*BT1 nitrates

**AMMONIUM PERCHLORATES**

INIS: 1989-04-20; ETDE: 1976-08-04

BT1 ammonium compounds

\*BT1 perchlorates

**AMMONIUM PHOSPHATES**

INIS: 1981-02-27; ETDE: 1978-04-28

BT1 ammonium compounds

\*BT1 phosphates

**AMMONIUM SULFATES**

INIS: 1977-03-01; ETDE: 1976-04-19

BT1 ammonium compounds

\*BT1 sulfates

**AMMONIUM THIOCYANATES**

INIS: 1991-09-18; ETDE: 1982-09-10

BT1 ammonium compounds

\*BT1 thiocyanates

**AMMONIUM TUNGSTATES**

INIS: 1978-07-17; ETDE: 1977-06-02

BT1 ammonium compounds

\*BT1 tungstates

**AMMONIUM URANATES**

BT1 ammonium compounds

\*BT1 uranates

NT1 adu

**ammonium uranyl carbonates**

INIS: 1999-03-19; ETDE: 1979-11-23

USE auc

**AMMONOLYSIS**

\*BT1 solvolysis

RT ammonia

**AMMUNITION**

INIS: 1999-03-02; ETDE: 1976-04-19

RT explosives

RT guns

RT military equipment

RT missiles

RT rockets

RT weapons

**amnion**

USE fetal membranes

**amnion cells**

USE embryonic cells

**AMNIOTIC FLUID**

INIS: 1975-10-23; ETDE: 1975-12-16

\*BT1 body fluids

RT embryos

RT fetuses

**amobarbital**

1996-07-16

(Prior to August 1996 AMYTAL was used for this concept in ETDE.)

USE barbiturates

**amoco cba process**

INIS: 2000-04-12; ETDE: 1977-08-09

USE desulfurization

**amoco sulfur recovery process**

INIS: 2000-04-12; ETDE: 1976-01-23

*A process for recovery of elemental sulfur from process streams containing hydrogen sulfide.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**AMOEBA**

UF ameba

\*BT1 sarcodina

RT phagocytosis

**AMOEBA EFFECT**

ETDE: 1975-09-11

*Unidirectional migration and penetration of the fuel kernel through the particle coating, caused by thermal stresses occurring in the course of irradiation.*

UF migration (kernel)

RT coated fuel particles

RT failures

RT physical radiation effects

RT reliability

**AMORPHOUS STATE**

RT crystallization

RT metallic glasses

**AMORTIZATION**

INIS: 1993-07-28; ETDE: 1983-05-21

RT accounting

RT cancellation

RT financing

**AMP**

UF adenosine monophosphate

UF camp

UF cyclic adenosine monophosphate

\*BT1 nucleotides

RT adenines

**AMP BEAM CURRENTS***From 1 to 1000 amp.*

\*BT1 beam currents

**AMPEROMETRY**

\*BT1 titration

**AMPHETAMINES**

INIS: 1985-03-15; ETDE: 1981-04-20

(Prior to April 1981, this concept in ETDE was indexed to BENZEDRINE.)

\*BT1 amines

\*BT1 analeptics

\*BT1 sympathomimetics

NT1 benzedrine

**AMPHIBIANS**

UF tadpoles



BT1 aquatic organisms  
 \*BT1 vertebrates  
 NT1 frogs  
 NT1 salamanders  
 NT2 triturus  
 NT1 toads  
 RT aquatic ecosystems  
 RT larvae

**AMPHIBOLE**

*A group of dark, rock-forming, ferromagnesian silicate minerals closely related in crystal form and composition.*

\*BT1 silicate minerals  
 NT1 hornblende

**AMPHIBOLITES**

INIS: 2000-04-12; ETDE: 1980-08-12  
 \*BT1 metamorphic rocks

**AMPLIFICATION**

INIS: 1985-12-10; ETDE: 1981-08-04

NT1 gain  
 RT amplifiers  
 RT amplitudes  
 RT fluidic devices

**AMPLIFIERS**

1999-07-05

\*BT1 electronic equipment  
 NT1 ac amplifiers  
 NT1 dc amplifiers  
 NT1 dielectric amplifiers  
 NT1 high frequency amplifiers  
 NT1 lock-in amplifiers  
 NT1 magnetic amplifiers  
 NT1 microwave amplifiers  
 NT2 masers  
 NT1 operational amplifiers  
 NT1 parametric amplifiers  
 NT1 power amplifiers  
 NT1 preamplifiers  
 NT1 pulse amplifiers  
 NT1 transistor amplifiers  
 RT amplification  
 RT electronic circuits  
 RT gain

**AMPLITUDES**

NT1 scattering amplitudes  
 NT1 transition amplitudes  
 NT2 decay amplitudes  
 RT amplification  
 RT dimensions  
 RT mechanical vibrations  
 RT oscillations  
 RT wave propagation

**amsco**

1996-10-22

(Until October 1996 this was a valid descriptor.)

USE organic solvents

**amygdalic acid**

USE mandelic acid

**amyl acetate**

INIS: 1984-04-04; ETDE: 2002-06-07  
 USE acetic acid esters

**amyl alcohols**

USE pentanols

**amyl radicals**

USE pentyl radicals

**AMYLASE**

Code numbers 3.2.1.1, 3.2.1.2, and 3.2.1.3.

UF isoamylase  
 \*BT1 o-glycosyl hydrolases  
 RT digestion

RT pancreas  
 RT saliva

**amylum**

USE starch

**amytal**

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE barbiturates

**ANABOLISM**

BT1 metabolism  
 RT androgens  
 RT biosynthesis  
 RT sth

**anaconda uranium mill**

INIS: 1996-07-16; ETDE: 1979-12-17

(Until July 1996 this was a valid descriptor.)

USE feed materials plants

**ANADROMOUS FISHES**

INIS: 1991-08-09; ETDE: 1983-03-07

*Fishes that ascend fresh-water streams from the sea to spawn.*

\*BT1 fishes  
 NT1 salmon  
 NT1 striped bass  
 RT fish passage facilities  
 RT ichthyoplankton

**ANAEROBIC CONDITIONS**

INIS: 1983-02-04; ETDE: 1975-11-28

RT anaerobic digestion  
 RT biodegradation  
 RT decomposition  
 RT dissolved gases  
 RT oxygen enhancement ratio  
 RT zymomonas mobilis

**ANAEROBIC DIGESTION**

INIS: 1997-06-19; ETDE: 1975-07-29

(From October 1978 to February 1997 CELL RECYCLE was a valid ETDE descriptor.)

SF cell recycle  
 SF microbial processes  
 BT1 bioconversion  
 BT1 digestion  
 NT1 biogas process  
 RT anaerobic conditions  
 RT batch culture  
 RT continuous culture  
 RT fermentation  
 RT mesophilic conditions  
 RT microorganisms  
 RT semibatch culture  
 RT sewage sludge  
 RT synthetic fuels  
 RT thermophilic conditions  
 RT waste processing

**analcime**

1984-04-04

*A white or slightly colored zeolite mineral. (Prior to March 1996 this was a valid ETDE descriptor.)*

USE zeolites

**ANALEPTICS**

INIS: 1984-05-24; ETDE: 1981-04-20

UF central nervous system stimulants  
 UF cns stimulants  
 UF stimulants (central nervous system)  
 \*BT1 central nervous system agents  
 NT1 amphetamines  
 NT2 benzedrine  
 NT1 caffeine  
 RT psychotropic drugs

**ANALGESICS**

1996-07-08

UF acetophenetidin  
 UF phenacetin  
 \*BT1 central nervous system depressants  
 NT1 acetylsalicylic acid  
 NT1 antipyrine  
 NT1 codeine  
 NT1 opium  
 NT2 morphine  
 NT3 thebaine  
 NT1 pethidine  
 RT anesthetics  
 RT antipyretics  
 RT hypnotics and sedatives  
 RT narcotics  
 RT pain

**ANALOG COMPUTERS**

BT1 computers

**analog resonances (isobaric)**

USE isobaric analogs  
 USE resonance

**analog resonances (strangeness)**

USE strangeness analog resonances

**analog states**

USE isobaric analogs

**ANALOG SYSTEMS**

NT1 simulators  
 NT2 reactor simulators  
 NT2 solar simulators  
 RT analog-to-digital converters  
 RT biological models  
 RT computers  
 RT digital-to-analog converters  
 RT electronic circuits  
 RT electronic equipment  
 RT functional models  
 RT real time systems

**ANALOG-TO-DIGITAL CONVERTERS**

UF converters (analog-digital)  
 \*BT1 electronic equipment  
 RT analog systems  
 RT digital systems  
 RT digitizers

**analysis (activation)**

USE activation analysis

**analysis (charged-particle activation)**

INIS: 1993-11-03; ETDE: 2002-06-07  
 USE charged-particle activation analysis

**analysis (fourier)**

USE fourier analysis

**analysis (gas)**

USE gas analysis

**analysis (load)**

INIS: 1999-04-22; ETDE: 2002-06-07  
 USE load analysis

**analysis (neutron activation)**

INIS: 1978-11-24; ETDE: 2002-06-07  
 USE neutron activation analysis

**analysis (normal-mode)**

USE normal-mode analysis

**analysis (nuclear reaction)**

INIS: 1986-01-21; ETDE: 2002-06-07  
*Chemical analysis based on detection and analysis of prompt nuclear reaction products.*  
 USE nuclear reaction analysis

**analysis (photon activation)**

INIS: 1978-11-24; ETDE: 2002-06-07  
USE photon activation analysis

**analysis (qualitative chemical)**

USE qualitative chemical analysis

**analysis (quantitative chemical)**

USE quantitative chemical analysis

**analysis (structural chemical)**

USE structural chemical analysis

**analysis (thermal)**

USE thermal analysis

**ANALYTIC FUNCTIONS**

BT1 functions  
RT continued fractions  
RT mathematical evolution  
RT s matrix

**ANALYTICAL SOLUTION**

For the procedure only.

BT1 mathematical solutions  
RT differential equations  
RT galerkin-petrov method

**analyzers (pulse)**

USE pulse analyzers

**analyzing power**

USE polarization-asymmetry ratio

**anaphase**

USE mitosis

**ANAPHYLAXIS**

RT allergy  
RT antigen-antibody reactions  
RT biological shock  
RT immunity

**ANASTREPHA**

INIS: 1999-02-19; ETDE: 1999-11-18  
UF south american fruit fly  
\*BT1 fruit flies

**ANATOMY**

BT1 biology  
RT body  
RT physiology

**anbn**

USE 1-nitroso-2-naphthol

**anchoring**

See also MOORINGS.  
USE fastening

**ANCHORS**

INIS: 1999-03-02; ETDE: 1975-09-11  
(Until March 1999 this concept was indexed by FASTENERS.)  
RT fasteners

**andco-torrax slagging pyrolysis system**

INIS: 1999-09-20; ETDE: 1977-10-20  
(Prior to April 1994, this was a valid ETDE descriptor.)  
SEE slagging pyrolysis process

**andersonite**

1997-01-28  
(Until October 1996 this was a valid descriptor.)  
USE carbonate minerals  
USE uranium minerals

**ANDES**

UF cordillera de los andes  
BT1 mountains

RT argentina  
RT bolivia  
RT chile  
RT colombia  
RT ecuador  
RT peru  
RT venezuela

**ANDESITES**

INIS: 2000-04-12; ETDE: 1975-10-28  
Volcanic rocks composed essentially of andesine and one or more mafic constituents.  
\*BT1 volcanic rocks

**andradite**

1997-01-28  
(Until October 1996 this was a valid descriptor.)  
USE garnets

**androgen antagonists**

INIS: 2000-04-12; ETDE: 1981-04-20  
USE antiandrogens

**ANDROGENS**

1996-10-23  
UF dianabol  
\*BT1 androstanes  
\*BT1 steroid hormones  
NT1 androstenedione  
NT1 androsterone  
NT1 hydroxyandrosterone  
NT1 testosterone  
RT adrenal glands  
RT adrenal hormones  
RT anabolism  
RT antiandrogens  
RT castration  
RT corticosteroids  
RT luteinizing hormone  
RT testes  
RT urinary ketosteroids

**ANDROSTANES**

\*BT1 steroids  
NT1 androgens  
NT2 androstenedione  
NT2 androsterone  
NT2 hydroxyandrosterone  
NT2 testosterone

**ANDROSTENEDIONE**

\*BT1 androgens  
\*BT1 ketones

**ANDROSTERONE**

\*BT1 androgens  
\*BT1 hydroxy compounds  
\*BT1 ketones

**ANEMIAS**

UF aplastic anemia  
UF pernicious anemia  
\*BT1 hemic diseases  
BT1 symptoms  
NT1 ischemia  
NT1 megaloblastic anemia  
NT1 sickle cell anemia  
NT1 thalassemia  
RT erythrocytes  
RT folic acid  
RT hemoglobin  
RT hemolysis  
RT hemorrhage  
RT intrinsic factor  
RT vitamin b-12

**ANEMOMETERS**

BT1 measuring instruments  
NT1 hot wire anemometers  
NT1 laser doppler anemometers  
RT flowmeters

**ANESTHESIA**

RT anesthetics  
RT central nervous system depressants  
RT medicine  
RT pain  
RT surgery

**ANESTHETICS**

\*BT1 central nervous system depressants  
NT1 barbiturates  
NT2 nembutal  
NT2 phenobarbital  
NT1 cocaine  
NT1 procaine  
RT analgesics  
RT anesthesia  
RT chloroform  
RT ethyl ether  
RT hypnotics and sedatives  
RT narcotics  
RT nitrous oxide

**ANEUPLOIDY**

BT1 ploidy  
RT genome mutations  
RT non-disjunction

**ANEX REACTOR**

UF cfg reactor  
\*BT1 enriched uranium reactors  
\*BT1 hydride moderated reactors  
\*BT1 solid homogeneous reactors  
\*BT1 thermal reactors  
\*BT1 zero power reactors

**ANGARA-5 DEVICE**

INIS: 1984-08-24; ETDE: 1989-06-23  
\*BT1 icf devices

**angiography**

USE biomedical radiography  
USE blood vessels

**ANGIOMAS**

UF hemangiomas  
\*BT1 carcinomas  
RT blood vessels  
RT lymph vessels

**angiosperms**

INIS: 2000-04-12; ETDE: 1988-12-21  
USE magnoliophyta

**ANGIOTENSIN**

\*BT1 globulins  
\*BT1 vasoconstrictors

**angle (bond)**

INIS: 2000-04-12; ETDE: 1980-11-08  
USE bond angle

**angle (incidence)**

INIS: 1984-04-04; ETDE: 1980-11-08  
USE incidence angle

**angle of incidence**

INIS: 1984-04-04; ETDE: 1980-01-24  
USE incidence angle

**angle of inclination**

INIS: 2000-04-12; ETDE: 1979-09-26  
USE inclination

**ANGOLA**

BT1 africa  
BT1 developing countries

**ANGRA-1 REACTOR**

Angra Dosreis, Rio de Janeiro, Brazil.  
\*BT1 pwr type reactors

**ANGRA-2 REACTOR**

*INIS: 1977-06-14; ETDE: 1977-10-19*  
*Angra Dosreis, Rio de Janeiro, Brazil.*  
 \*BT1 pwr type reactors

**ANGRA-3 REACTOR**

*INIS: 1977-06-14; ETDE: 1977-10-19*  
*Angra Dosreis, Rio de Janeiro, Brazil.*  
 \*BT1 pwr type reactors

**ANGULAR CORRELATION**

1996-07-16  
 (Prior to August 1996 BIEDENHARN-ROSE THEORY was a valid ETDE descriptor.)  
*UF directional correlation*  
*SF biederharn-rose theory*  
 BT1 correlations  
 NT1 perturbed angular correlation  
 NT2 differential pac  
 NT2 integral pac  
 RT abragam-pound theory  
 RT angular distribution  
 RT decay  
 RT particle kinematics

**ANGULAR DISTRIBUTION**

1999-02-23  
 (Prior to August 1996 BIEDENHARN-ROSE THEORY and MINAMI AMBIGUITY were valid ETDE descriptors; prior to March 1997 HALPERN-STRUTINSKI THEORY was a valid ETDE descriptor.)  
*SF biederharn-rose theory*  
*SF halpern-strutinski theory*  
*SF minami ambiguity*  
 BT1 distribution  
 RT abragam-pound theory  
 RT alder-winter theory  
 RT angular correlation  
 RT backscattering  
 RT blatt-biederharn formalism  
 RT castagnoli formula  
 RT differential cross sections  
 RT emission  
 RT incidence angle  
 RT lambert law  
 RT marshak boundary conditions  
 RT milne problem  
 RT small angle scattering  
 RT space dependence  
 RT spatial distribution  
 RT transverse energy  
 RT yang theorem

**ANGULAR MOMENTUM**

1999-02-23  
 (Prior to March 1997 GYROELECTRIC RATIO was a valid ETDE descriptor.)  
*UF momentum (angular)*  
*SF gyroelectric ratio*  
 NT1 orbital angular momentum  
 NT1 spin  
 RT angular momentum operators  
 RT backbending  
 RT chirality  
 RT clebsch-gordan coefficients  
 RT d waves  
 RT f waves  
 RT gyromagnetic ratio  
 RT helicity  
 RT kinetic energy  
 RT linear momentum  
 RT motion  
 RT p waves  
 RT partial waves  
 RT quantum mechanics  
 RT racah coefficients  
 RT rotation  
 RT s waves  
 RT wigner coefficients

RT yrast states

**ANGULAR MOMENTUM OPERATORS**

\*BT1 quantum operators  
 NT1 orbital momentum operators  
 NT1 pauli spin operators  
 RT angular momentum

**ANGULAR MOMENTUM TRANSFER**

*INIS: 1978-09-28; ETDE: 1978-10-19*  
*UF transfer (angular momentum)*  
 BT1 momentum transfer  
 RT energy transfer

**ANGULAR VELOCITY**

BT1 velocity

**ANHARMONIC CRYSTALS**

BT1 crystals  
 RT coherent scattering  
 RT inelastic scattering  
 RT lattice vibrations

**ANHARMONIC OSCILLATORS**

*INIS: 1981-08-06; ETDE: 1979-09-26*  
 RT equations of motion  
 RT harmonic oscillators  
 RT mathematics  
 RT mechanics

**ANHYDRIDES**

RT bases  
 RT inorganic acids  
 RT organic acids  
 RT water

**ANHYDRITE**

1982-10-29  
*Mineral consisting of an anhydrous calcium sulfate.*  
 \*BT1 sulfate minerals  
 RT calcium sulfates  
 RT gypsum

**ANILINE**

*UF aminobenzene*  
*UF phenylamine*  
 \*BT1 amines  
 \*BT1 aromatics  
 RT benzene  
 RT polycyclic aromatic amines

**ANIMAL BREEDING**

NT1 mass rearing  
 RT agriculture  
 RT domestic animals  
 RT genetics  
 RT nests  
 RT nutrition  
 RT progeny  
 RT radiation induced mutants  
 RT reproduction

**ANIMAL CELLS**

*Includes human cells.*  
*UF cell growth (animal)*  
*UF cells (animal)*  
*UF human cells*  
*UF melanocytes*  
*UF pigment cells*  
 NT1 embryonic cells  
 NT1 hair follicles  
 NT1 hybridomas  
 NT1 somatic cells  
 NT2 cho cells  
 NT2 connective tissue cells  
 NT3 bone cells  
 NT3 bone marrow cells  
 NT3 fat cells  
 NT3 fibroblasts  
 NT3 lymphocytes

NT3 macrophages  
 NT3 mast cells  
 NT3 plasma cells  
 NT2 crypt cells  
 NT2 liver cells  
 NT2 nerve cells  
 NT2 phagocytes  
 NT3 macrophages  
 NT2 respiratory tract cells  
 NT2 spleen cells  
 NT2 stem cells  
 NT2 thymocytes  
 NT2 thymus cells  
 NT2 thyroid cells  
 NT1 tumor cells  
 NT2 ascites tumor cells  
 NT2 hela cells  
 NT1 xp cells  
 RT cell constituents  
 RT cell cultures  
 RT cell flow systems  
 RT clone cells  
 RT colony formation  
 RT cytology  
 RT homogenates  
 RT intracellular digestion

**ANIMAL FEEDS**

*UF fodder*  
 BT1 food  
 NT1 forage  
 RT diet  
 RT distillers dried grains  
 RT food additives  
 RT molasses  
 RT nutrition

**ANIMAL GROWTH**

BT1 growth  
 RT animals  
 RT metamorphosis  
 RT molting  
 RT ontogenesis  
 RT rearing

**ANIMAL SHELTERS**

*INIS: 1992-08-24; ETDE: 1977-06-21*  
 BT1 buildings  
 BT1 shelters

**ANIMAL TISSUES**

*INIS: 1996-03-14; ETDE: 1980-11-24*  
 (Until March 1996 this concept was indexed to TISSUES.)  
*UF human tissues*  
*UF muscular tissue*  
*SF tissues*  
 BT1 body  
 NT1 bone marrow  
 NT1 connective tissue  
 NT2 adipose tissue  
 NT2 bone tissues  
 NT3 antlers  
 NT3 trabecular bone  
 NT2 cartilage  
 NT2 fascia  
 NT2 ligaments  
 NT2 tendons  
 NT1 endothelium  
 NT1 epithelium  
 NT2 epidermis  
 NT1 nerve tissue  
 NT1 perfused tissues  
 NT1 reticuloendothelial system  
 RT biological materials  
 RT biological regeneration  
 RT biology  
 RT biopsy  
 RT capillaries  
 RT histological techniques

*RT* histology  
*RT* homogenates  
*RT* in vivo  
*RT* morphological changes  
*RT* organs  
*RT* plant tissues  
*RT* retention  
*RT* skin  
*RT* tissue cultures  
*RT* tissue distribution  
*RT* tissue-equivalent materials  
*RT* tissue extracts

**ANIMALS**

**NT1** domestic animals  
**NT2** cattle  
**NT3** calves  
**NT3** cows  
**NT2** goats  
**NT2** sheep  
**NT2** swine  
**NT3** miniature swine  
**NT1** germ-free animals  
**NT1** invertebrates  
**NT2** annelids  
**NT2** arthropods  
**NT3** arachnids  
**NT4** mites  
**NT4** scorpions  
**NT4** spiders  
**NT4** ticks  
**NT3** crustaceans  
**NT4** branchiopods  
**NT5** artemia  
**NT5** daphnia  
**NT4** copepods  
**NT4** decapods  
**NT5** crabs  
**NT5** lobsters  
**NT5** prawns  
**NT5** shrimp  
**NT3** insects  
**NT4** coleoptera  
**NT5** beetles  
**NT6** boll weevil  
**NT6** tribolium  
**NT4** dictyoptera  
**NT5** cockroaches  
**NT4** diptera  
**NT5** flies  
**NT6** fruit flies  
**NT7** anastrepha  
**NT7** ceratitis capitata  
**NT7** dacus  
**NT8** dacus oleae  
**NT7** drosophila  
**NT6** glossina  
**NT6** hylemya antiqua  
**NT6** screwworm fly  
**NT5** mosquitoes  
**NT4** ephemeroptera  
**NT4** hemiptera  
**NT5** aphids  
**NT4** hymenoptera  
**NT5** ants  
**NT5** bees  
**NT5** wasps  
**NT4** lepidoptera  
**NT5** moths  
**NT6** bollworm  
**NT6** codling moth  
**NT6** lymantria dispar  
**NT6** rice stem borers  
**NT6** silkworm  
**NT4** orthoptera  
**NT5** grasshoppers  
**NT6** locusts  
**NT2** bryozoa  
**NT2** coelenterata

**NT3** cnidaria  
**NT4** corals  
**NT4** hydra  
**NT2** echinoderms  
**NT3** sea urchins  
**NT2** molluscs  
**NT3** clams  
**NT3** mussels  
**NT3** oysters  
**NT3** snails  
**NT2** nematodes  
**NT3** ascaridae  
**NT4** ascaris  
**NT3** dictyocaulus  
**NT3** hookworm  
**NT3** trichinella  
**NT2** platyhelminths  
**NT3** cestodes  
**NT3** trematodes  
**NT4** fasciola  
**NT4** schistosoma  
**NT3** turbellaria  
**NT4** planaria  
**NT2** protozoa  
**NT3** ciliata  
**NT4** paramecium  
**NT4** tetrahymena  
**NT3** mastigophora  
**NT4** dinoflagellate  
**NT4** euglena  
**NT4** trypanosoma  
**NT3** sarcodina  
**NT4** amoeba  
**NT4** foraminifera  
**NT3** sporozoa  
**NT4** babesidae  
**NT4** plasmodium  
**NT2** rotifera  
**NT1** laboratory animals  
**NT1** neonates  
**NT1** transgenic animals  
**NT2** transgenic mice  
**NT1** vertebrates  
**NT2** amphibians  
**NT3** frogs  
**NT3** salamanders  
**NT4** triturus  
**NT3** toads  
**NT2** birds  
**NT3** fowl  
**NT4** chickens  
**NT4** ducks  
**NT4** geese  
**NT3** pigeons  
**NT2** fishes  
**NT3** anadromous fishes  
**NT4** salmon  
**NT4** striped bass  
**NT3** codfish  
**NT3** eel  
**NT3** fathead minnow  
**NT3** goldfish  
**NT3** plaice  
**NT3** trout  
**NT3** tuna  
**NT2** mammals  
**NT3** bats  
**NT3** bears  
**NT3** burros  
**NT3** cats  
**NT3** cetaceans  
**NT3** coyotes  
**NT3** dogs  
**NT4** beagles  
**NT3** foxes  
**NT3** horses  
**NT3** marsupials  
**NT3** otters  
**NT3** pinnipeds

**NT3** primates  
**NT4** apes  
**NT4** man  
**NT5** children  
**NT6** infants  
**NT5** elderly people  
**NT5** men  
**NT5** women  
**NT4** monkeys  
**NT5** baboons  
**NT5** macacus  
**NT3** rabbits  
**NT3** rodents  
**NT4** gerbils  
**NT4** guinea pigs  
**NT4** hamsters  
**NT4** mice  
**NT5** transgenic mice  
**NT4** prairie dogs  
**NT4** rats  
**NT4** squirrels  
**NT4** voles  
**NT3** ruminants  
**NT4** buffalo  
**NT4** camels  
**NT4** cattle  
**NT5** calves  
**NT5** cows  
**NT4** deer  
**NT4** goats  
**NT4** llamas  
**NT4** sheep  
**NT3** shrews  
**NT3** swine  
**NT4** miniature swine  
**NT3** wolves  
**NT2** reptiles  
**NT3** alligators  
**NT3** lizards  
**NT3** snakes  
**NT3** turtles  
**NT1** wild animals  
*RT* animal growth  
*RT* aquatic organisms  
*RT* biological extinction  
*RT* biological materials  
*RT* biology  
*RT* ecology  
*RT* endangered species  
*RT* females  
*RT* fossils  
*RT* males  
*RT* species diversity  
*RT* symbiosis  
*RT* veterinary medicine

**ANIONS**

(From May 1981 to February 1997  
 CARBANIONS was a valid ETDE  
 descriptor.)

*UF* carbanions  
*UF* hydroxyl ions  
*UF* negative ions  
 \*BT1 ions  
**NT1** heteropolyanions  
**NT1** hydrogen ions 1 minus  
*RT* chemical state  
*RT* electrolysis  
*RT* ion beams  
*RT* ion exchange materials

**ANISOLE**

*UF* methoxybenzene  
*UF* methyl phenyl ether  
*UF* phenyl methyl ether  
 \*BT1 ethers

**ANISOTROPY**

*RT* asymmetry  
*RT* configuration

RT distribution  
 RT isotropy  
 RT mass distribution  
 RT orientation  
 RT sherman tables  
 RT transverse energy

**anisyl radicals**

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE aryl radicals

**ANKERITE**

INIS: 2000-04-12; ETDE: 1975-11-28

*A dolomitic iron-containing mineral.*

SF *pearl spar*

\*BT1 carbonate minerals

RT calcium carbonates

RT iron carbonates

RT magnesium carbonates

RT manganese carbonates

**ankylosing spondylitis**

USE spondylitis

**ANL**

UF *argonne national laboratory*

\*BT1 us aec

\*BT1 us doe

\*BT1 us erda

RT illinois

**anl zero power research reactor-3**

INIS: 1993-11-03; ETDE: 2002-06-07

USE zpr-3 reactor

**anl zero power research reactor-6**

INIS: 1993-11-03; ETDE: 2002-06-07

USE zpr-6 reactor

**anl zero power research reactor-9**

INIS: 1993-11-03; ETDE: 2002-06-07

USE zpr-9 reactor

**anmr**

USE acoustic nmr

**ANNA REACTOR**

*Institute of Nuclear Research, Swierk, Poland.*

UF *swierk anna reactor*

\*BT1 enriched uranium reactors

\*BT1 graphite moderated reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

\*BT1 zero power reactors

**ANNEALING**

BT1 heat treatments

RT recrystallization

RT stress relaxation

**anneau de collisions d'orsay**

2005-01-25

USE orsay storage rings

**ANNELIDS**

UF *earthworms*

UF *worms (segmented)*

\*BT1 invertebrates

**annie event**

INIS: 1994-10-13; ETDE: 1981-07-06

*A test made during the UPSHOT PROJECT.*

(Prior to September 1994, this was a valid

ETDE descriptor.)

USE atmospheric explosions

USE nuclear explosions

**ANNIHILATION**

SF *disintegration (nuclear particles)*

\*BT1 particle interactions

RT electromagnetic interactions

RT gribov-lipatov relation

RT strong interactions

**ANNIHILATION OPERATORS**

UF *coherent states*

\*BT1 quantum operators

RT second quantization

RT vacuum states

**ANNUAL CYCLE ENERGY SYSTEM**

INIS: 2000-04-12; ETDE: 1975-11-11

UF *annual energy storage*

RT air conditioning

RT heating

RT space heating

RT water heaters

**annual energy storage**

INIS: 2000-04-12; ETDE: 1979-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

USE annual cycle energy system

USE energy storage

**ANNUAL LIMIT OF INTAKE**

INIS: 1985-04-23; ETDE: 1984-09-21

*The greatest value of the annual intake of a given radionuclide which corresponds to a whole-body dose commitment of less than or equal to 5 rem and tissue dose commitment of less than or equal to 50 rem.*

UF *ali*

\*BT1 safety standards

RT critical organs

RT intake

RT radiation protection

RT radioactivity

**ANNUAL VARIATIONS**

BT1 variations

**annular core pulse reactor**

USE acpr reactor

**annular core research reactor**

INIS: 2000-04-12; ETDE: 1979-10-23

USE acpr reactor

**ANNULAR FUEL ELEMENTS**

\*BT1 fuel elements

RT fuel washers

**ANNULAR SPACE**

BT1 configuration

BT1 space

NT1 toroidal configuration

RT tori

**ANODES**

BT1 electrodes

NT1 hollow anodes

NT1 photoanodes

RT thermionic collectors

**ANODIZATION**

BT1 corrosion protection

\*BT1 electrochemical coating

\*BT1 electrolysis

**ANOMALONS**

INIS: 1984-10-23; ETDE: 1984-05-08

*Projectile fragments from relativistic heavy ion reactions with anomalously short mean free paths.*

BT1 nuclear fragments

RT heavy ion reactions

RT mean free path

**ANOMALOUS DIMENSION**

UF *non-canonical dimension*

UF *noncanonical dimension*

BT1 scale dimension

**anopheles**

USE mosquitoes

**ANOREXIA**

RT digestive system

RT digestive system diseases

**ANORTHITE**

INIS: 2000-04-12; ETDE: 1981-04-17

*A plagioclase feldspar.*

\*BT1 feldspars

**ANORTHOSITES**

*A group of essentially monomineralic plutonic igneous rocks composed almost entirely of plagioclase feldspar.*

UF *plagioclase*

UF *plagioclasite*

\*BT1 gabbros

RT feldspars

RT lunar materials

RT olivine

**ANOXIA**

UF *hypoxia*

RT biological stress

RT ischemia

RT oxidation

RT oxygen

RT respiration

**ANSTO**

INIS: 1996-01-30; ETDE: 1988-11-01

*Australian Nuclear Science and Technology Organization, created on 27 April 1987 and replacing the AAEC.*

UF *aaec*

UF *australian atomic energy commission*

\*BT1 australian organizations

**ANTARCTIC OCEAN**

INIS: 1992-07-13; ETDE: 1992-06-18

*The southern waters of the Atlantic, Pacific and Indian oceans.*

(Prior to June 1992 SEAS was used for this concept in ETDE.)

\*BT1 seas

NT1 weddell sea

RT antarctic regions

RT antarctica

**ANTARCTIC REGIONS**

\*BT1 polar regions

NT1 antarctica

RT antarctic ocean

RT arctic regions

RT auroral zones

RT climates

RT glaciers

RT ice

RT ice caps

RT polar-cap aurorae

RT snow

**ANTARCTICA**

\*BT1 antarctic regions

RT antarctic ocean

**ANTARES FACILITY**

INIS: 1995-03-28; ETDE: 1978-09-11

*Large CO2 laser facility to be used at Los Alamos for laser fusion.*

RT aurora facility

RT carbon dioxide lasers

RT helios facility

RT lanl

RT laser fusion reactors



**ANTIDEUTERON REACTIONS**

INIS: 1988-11-16; ETDE: 1988-12-02

- \*BT1 deutron reactions
- RT antideuterons

**ANTIDEUTERONS**

- \*BT1 antinuclei
- \*BT1 deuterons
- RT antideutron reactions

**antidiuretic hormone**

USE vasopressin

**ANTIFERROELECTRIC MATERIALS**

- UF materials (antiferroelectric)
- \*BT1 dielectric materials
- RT ferroelectric materials

**ANTIFERROMAGNETIC MATERIALS**

- UF materials (antiferromagnetic)
- \*BT1 magnetic materials
- RT ferromagnetic materials
- RT kondo effect

**ANTIFERROMAGNETISM**

- BT1 magnetism
- NT1 mictomagnetism
- RT ferrimagnetism
- RT ferromagnetism
- RT hubbard model
- RT neel temperature

**ANTIFOULANTS**

INIS: 1985-12-10; ETDE: 1978-12-28

Materials which prevent formation and/or deposition of foulants, e.g., on heat transfer surfaces or equipment.

- RT biological fouling
- RT corrosion
- RT deposits
- RT fouling

**ANTIFREEZE**

INIS: 2000-04-12; ETDE: 1978-03-03

- RT freeze protection
- RT freezing
- RT working fluids

**ANTIGEN-ANTIBODY REACTIONS**

- UF agglutination
- RT anaphylaxis
- RT antibodies
- RT antibody formation
- RT antigens
- RT complement
- RT cpb
- RT enzyme immunoassay
- RT graft-host reaction
- RT immune reactions
- RT immunity
- RT lectins
- RT radioimmunoassay

**ANTIGENS**

- NT1 carcinoembryonic antigen
- NT1 histocompatibility complex
- NT1 toxins
  - NT2 endotoxins
  - NT2 mycotoxins
  - NT3 aflatoxins
- NT1 tuberculin
- RT antibodies
- RT antigen-antibody reactions
- RT enzyme immunoassay
- RT freunds adjuvant
- RT immunity
- RT lectins
- RT membrane proteins
- RT radioimmunoassay

RT vaccines

**ANTIGUA AND BARBUDA**

1997-03-07

- \*BT1 lesser antilles

**antihistamines**

INIS: 2000-04-12; ETDE: 1981-04-20

USE antihistaminics

**ANTIHISTAMINICS**

- UF antihistamines
- UF promethazine
- BT1 drugs
- RT allergy
- RT histamine

**ANTIHYPEROONS**

- \*BT1 antibaryons
- \*BT1 hyperons
- NT1 antilambda particles
- NT1 antiomega particles
- NT1 antisigma particles
- NT1 antixi particles

**ANTIHYPERTENSIVE AGENTS**

INIS: 1996-10-23; ETDE: 1981-04-20

- \*BT1 cardiovascular agents
- NT1 reserpine
- RT blood pressure
- RT diuretics
- RT hypertension

**ANTIKAONS**

- \*BT1 antiparticles
- \*BT1 kaons
- NT1 antikaons neutral

**ANTIKAONS NEUTRAL**

- \*BT1 antikaons
- \*BT1 kaons neutral

**ANTIKNOCK RATINGS**

INIS: 2000-04-12; ETDE: 1993-08-10

(Prior to December 1991 this was a valid ETDE descriptor. From December 1991 to August 1993 KNOCK CONTROL was used for this concept.)

- UF cetane number
- UF cetene number
- UF octane number
- RT ignition quality
- RT knock control

**ANTILAMBDA PARTICLES**

- \*BT1 antihyperons
- \*BT1 lambda particles

**ANTILEPTON-NEUTRON INTERACTIONS**

INIS: 1977-01-25; ETDE: 1977-04-13

- \*BT1 lepton-neutron interactions
- NT1 antineutrino-neutron interactions

**ANTILEPTON-PROTON INTERACTIONS**

ETDE: 1975-09-11

- \*BT1 lepton-proton interactions
- NT1 antineutrino-proton interactions

**ANTILEPTONS**

- \*BT1 antiparticles
- \*BT1 leptons
- NT1 antineutrinos
  - NT2 electron antineutrinos
  - NT2 muon antineutrinos
- NT1 muons plus
- NT1 positrons
- NT2 cosmic positrons

**ANTIMATTER**

- BT1 matter
- NT1 antinuclei

NT2 antideuterons

- NT2 antiprotons
- NT2 antitritons
- NT1 antiparticles
- NT2 antibaryons
  - NT3 antihyperons
  - NT4 antilambda particles
  - NT4 antiomega particles
  - NT4 antisigma particles
  - NT4 antixi particles
- NT3 antinucleons
  - NT4 antineutrons
  - NT4 antiprotons
- NT2 antikaons
  - NT3 antikaons neutral
- NT2 antileptons
  - NT3 antineutrinos
    - NT4 electron antineutrinos
    - NT4 muon antineutrinos
  - NT3 muons plus
  - NT3 positrons
    - NT4 cosmic positrons
- NT2 antimesons
  - NT3 pseudoscalar antimesons
  - NT4 anti-b neutral mesons
  - NT4 anti-d neutral mesons
- RT ambiplasma

**ANTIMESONS**

1999-03-05

Use more specific meson type as appropriate.

- \*BT1 antiparticles
- \*BT1 mesons
- NT1 pseudoscalar antimesons
- NT2 anti-b neutral mesons
- NT2 anti-d neutral mesons

**ANTIMETABOLITES**

- UF azaguanine
- BT1 drugs
- NT1 adenines
  - NT2 kinetin
- NT1 aminopterin
- NT1 bromouracils
  - NT2 budr
- NT1 deoxyuridine
- NT1 ethionine
- NT1 fluorodeoxyglucose
- NT1 fluorouracils
  - NT2 fudr
- NT1 iodouracils
  - NT2 iododeoxyuridine
- NT1 mercaptopurine
- NT1 methotrexate
- NT1 thiouracil
  - RT alkylating agents
  - RT antimitotic drugs
  - RT chemosterilants
  - RT metabolites
  - RT synchronization
  - RT synchronous cultures

**ANTIMICROBIAL AGENTS**

INIS: 1996-10-23; ETDE: 1981-04-20

(Prior to February 1992, this concept was indexed to ANTIBIOTICS.)

- UF methenamine
- \*BT1 anti-infective agents
- NT1 fudr
- NT1 isoniazid
- NT1 methylene blue
- NT1 quinine
- NT1 sulfonamides

**ANTIMITOTIC DRUGS**

- UF cytostatics
- UF cytotoxins
- BT1 drugs
- NT1 actinomycin
- NT1 bleomycin

**NT1** colchicine  
**NT1** mitomycin  
**NT1** nem  
**NT1** oncovin  
**NT1** vinblastine  
*RT* alkylating agents  
*RT* aminopterin  
*RT* anti-infective agents  
*RT* antibiotics  
*RT* antimetabolites  
*RT* antineoplastic drugs  
*RT* chemotherapy  
*RT* immunosuppression  
*RT* mitosis  
*RT* mutagens  
*RT* neocarcinostatin  
*RT* neoplasms  
*RT* radiomimetic drugs  
*RT* radiosensitizers

**ANTIMONATES**

*INIS: 1979-09-18; ETDE: 1979-10-23*  
*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

**BT1** antimony compounds  
**BT1** oxygen compounds  
*RT* antimony oxides

**ANTIMONIDES**

*INIS: 1978-08-30; ETDE: 1988-09-21*  
*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

**BT1** antimony compounds  
**BT1** pnictides  
**NT1** gallium antimonides  
**NT1** indium antimonides  
*RT* antimony additions  
*RT* antimony alloys  
*RT* intermetallic compounds

**ANTIMONY**

\***BT1** metals

**ANTIMONY 104**

*INIS: 1996-06-17; ETDE: 1996-05-31*  
 \***BT1** antimony isotopes  
 \***BT1** beta-plus decay radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** milliseconds living radioisotopes  
 \***BT1** odd-odd nuclei

**ANTIMONY 105**

*INIS: 1996-06-17; ETDE: 1996-05-31*  
 \***BT1** antimony isotopes  
 \***BT1** beta-plus decay radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** odd-even nuclei  
 \***BT1** seconds living radioisotopes

**ANTIMONY 106**

*INIS: 1981-07-13; ETDE: 1980-10-28*  
 \***BT1** antimony isotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** odd-odd nuclei  
 \***BT1** seconds living radioisotopes

**ANTIMONY 107**

*2004-12-15*  
 \***BT1** antimony isotopes  
 \***BT1** electron capture radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** odd-even nuclei  
 \***BT1** seconds living radioisotopes

**ANTIMONY 108**

*INIS: 1977-06-14; ETDE: 1977-10-19*  
 \***BT1** antimony isotopes  
 \***BT1** beta-plus decay radioisotopes

\***BT1** intermediate mass nuclei  
 \***BT1** odd-odd nuclei  
 \***BT1** seconds living radioisotopes

**ANTIMONY 109**

\***BT1** antimony isotopes  
 \***BT1** electron capture radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** odd-even nuclei  
 \***BT1** seconds living radioisotopes

**ANTIMONY 110**

\***BT1** antimony isotopes  
 \***BT1** beta-plus decay radioisotopes  
 \***BT1** electron capture radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** odd-odd nuclei  
 \***BT1** seconds living radioisotopes

**ANTIMONY 111**

\***BT1** antimony isotopes  
 \***BT1** beta-plus decay radioisotopes  
 \***BT1** electron capture radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** minutes living radioisotopes  
 \***BT1** odd-even nuclei

**ANTIMONY 112**

\***BT1** antimony isotopes  
 \***BT1** beta-plus decay radioisotopes  
 \***BT1** electron capture radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** odd-odd nuclei  
 \***BT1** seconds living radioisotopes

**ANTIMONY 113**

\***BT1** antimony isotopes  
 \***BT1** beta-plus decay radioisotopes  
 \***BT1** electron capture radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** isomeric transition isotopes  
 \***BT1** minutes living radioisotopes  
 \***BT1** nanoseconds living radioisotopes  
 \***BT1** odd-even nuclei

**ANTIMONY 114**

\***BT1** antimony isotopes  
 \***BT1** beta-plus decay radioisotopes  
 \***BT1** electron capture radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** minutes living radioisotopes  
 \***BT1** odd-odd nuclei

**ANTIMONY 115**

\***BT1** antimony isotopes  
 \***BT1** beta-plus decay radioisotopes  
 \***BT1** electron capture radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** minutes living radioisotopes  
 \***BT1** odd-even nuclei

**ANTIMONY 116**

\***BT1** antimony isotopes  
 \***BT1** beta-plus decay radioisotopes  
 \***BT1** electron capture radioisotopes  
 \***BT1** hours living radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** minutes living radioisotopes  
 \***BT1** odd-odd nuclei

**ANTIMONY 117**

\***BT1** antimony isotopes  
 \***BT1** beta-plus decay radioisotopes  
 \***BT1** electron capture radioisotopes  
 \***BT1** hours living radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** isomeric transition isotopes  
 \***BT1** nanoseconds living radioisotopes  
 \***BT1** odd-even nuclei

**ANTIMONY 118**

\***BT1** antimony isotopes

\***BT1** beta-plus decay radioisotopes  
 \***BT1** electron capture radioisotopes  
 \***BT1** hours living radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** minutes living radioisotopes  
 \***BT1** odd-odd nuclei

**ANTIMONY 118 TARGET**

*INIS: 1992-09-22; ETDE: 1982-03-29*  
**BT1** targets

**ANTIMONY 119**

\***BT1** antimony isotopes  
 \***BT1** days living radioisotopes  
 \***BT1** electron capture radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** internal conversion radioisotopes  
 \***BT1** odd-even nuclei

**ANTIMONY 120**

\***BT1** antimony isotopes  
 \***BT1** beta-plus decay radioisotopes  
 \***BT1** days living radioisotopes  
 \***BT1** electron capture radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** minutes living radioisotopes  
 \***BT1** odd-odd nuclei

**ANTIMONY 120 TARGET**

*ETDE: 1976-07-09*  
**BT1** targets

**ANTIMONY 121**

\***BT1** antimony isotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** odd-even nuclei  
 \***BT1** stable isotopes

**ANTIMONY 121 TARGET**

*ETDE: 1976-07-09*  
**BT1** targets

**ANTIMONY 122**

\***BT1** antimony isotopes  
 \***BT1** beta-minus decay radioisotopes  
 \***BT1** beta-plus decay radioisotopes  
 \***BT1** days living radioisotopes  
 \***BT1** electron capture radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** internal conversion radioisotopes  
 \***BT1** isomeric transition isotopes  
 \***BT1** minutes living radioisotopes  
 \***BT1** odd-odd nuclei

**ANTIMONY 123**

\***BT1** antimony isotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** odd-even nuclei  
 \***BT1** stable isotopes

**ANTIMONY 123 TARGET**

*ETDE: 1976-07-09*  
**BT1** targets

**ANTIMONY 124**

\***BT1** antimony isotopes  
 \***BT1** beta-minus decay radioisotopes  
 \***BT1** days living radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** internal conversion radioisotopes  
 \***BT1** isomeric transition isotopes  
 \***BT1** minutes living radioisotopes  
 \***BT1** odd-odd nuclei

**ANTIMONY 125**

\***BT1** antimony isotopes  
 \***BT1** beta-minus decay radioisotopes  
 \***BT1** intermediate mass nuclei  
 \***BT1** odd-even nuclei  
 \***BT1** years living radioisotopes

**ANTIMONY 126**

\***BT1** antimony isotopes



\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**ANTIMONY 127**

\*BT1 antimony isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

**ANTIMONY 127 TARGET**

*INIS: 1979-01-18; ETDE: 1978-10-23*  
 BT1 targets

**ANTIMONY 128**

\*BT1 antimony isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**ANTIMONY 129**

\*BT1 antimony isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**ANTIMONY 130**

\*BT1 antimony isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**ANTIMONY 131**

\*BT1 antimony isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**ANTIMONY 132**

\*BT1 antimony isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**ANTIMONY 133**

\*BT1 antimony isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**ANTIMONY 134**

\*BT1 antimony isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**ANTIMONY 135**

\*BT1 antimony isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**ANTIMONY 136**

*INIS: 1976-07-30; ETDE: 1975-10-28*  
 \*BT1 antimony isotopes

\*BT1 beta-minus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**ANTIMONY ADDITIONS**

*Alloys containing not more than 1% Sb are listed here.*

\*BT1 antimony alloys  
 RT antimonides

**ANTIMONY ALLOYS**

*Alloys containing more than 1% Sb.*

BT1 alloys  
 NT1 antimony additions  
 NT1 antimony base alloys  
 NT1 terre-metal  
 RT antimonides

**ANTIMONY BASE ALLOYS**

\*BT1 antimony alloys

**ANTIMONY BROMIDES**

BT1 antimony compounds  
 \*BT1 bromides

**ANTIMONY CHLORIDES**

BT1 antimony compounds  
 \*BT1 chlorides

**ANTIMONY COMPLEXES**

BT1 complexes

**ANTIMONY COMPOUNDS**

*1997-06-17*

NT1 antimonates  
 NT1 antimonides  
 NT2 gallium antimonides  
 NT2 indium antimonides  
 NT1 antimony bromides  
 NT1 antimony chlorides  
 NT1 antimony fluorides  
 NT1 antimony hydrides  
 NT1 antimony hydroxides  
 NT1 antimony iodides  
 NT1 antimony oxides  
 NT1 antimony selenides  
 NT1 antimony sulfates  
 NT1 antimony sulfides  
 NT1 antimony tellurides

**ANTIMONY FLUORIDES**

BT1 antimony compounds  
 \*BT1 fluorides

**ANTIMONY HYDRIDES**

BT1 antimony compounds  
 \*BT1 hydrides

**ANTIMONY HYDROXIDES**

BT1 antimony compounds  
 \*BT1 hydroxides

**ANTIMONY IODIDES**

BT1 antimony compounds  
 \*BT1 iodides

**ANTIMONY IONS**

\*BT1 ions

**ANTIMONY ISOTOPES**

*1999-07-16*

BT1 isotopes  
 NT1 antimony 104  
 NT1 antimony 105  
 NT1 antimony 106  
 NT1 antimony 107  
 NT1 antimony 108  
 NT1 antimony 109  
 NT1 antimony 110  
 NT1 antimony 111  
 NT1 antimony 112  
 NT1 antimony 113

NT1 antimony 114  
 NT1 antimony 115  
 NT1 antimony 116  
 NT1 antimony 117  
 NT1 antimony 118  
 NT1 antimony 119  
 NT1 antimony 120  
 NT1 antimony 121  
 NT1 antimony 122  
 NT1 antimony 123  
 NT1 antimony 124  
 NT1 antimony 125  
 NT1 antimony 126  
 NT1 antimony 127  
 NT1 antimony 128  
 NT1 antimony 129  
 NT1 antimony 130  
 NT1 antimony 131  
 NT1 antimony 132  
 NT1 antimony 133  
 NT1 antimony 134  
 NT1 antimony 135  
 NT1 antimony 136

**ANTIMONY OXIDES**

BT1 antimony compounds  
 \*BT1 oxides  
 RT antimonates

**ANTIMONY SELENIDES**

*INIS: 1979-11-02; ETDE: 1976-01-07*

BT1 antimony compounds  
 \*BT1 selenides

**ANTIMONY SULFATES**

*2000-04-12*

BT1 antimony compounds  
 \*BT1 sulfates

**ANTIMONY SULFIDES**

BT1 antimony compounds  
 \*BT1 sulfides

**ANTIMONY TELLURIDES**

*1979-02-21*

BT1 antimony compounds  
 \*BT1 tellurides

**antimuons**

USE muons plus

**antimycin**

*INIS: 1996-10-22; ETDE: 1981-06-13*

(Until October 1996 this was a valid descriptor.)

USE antibiotics

**ANTINEOPLASTIC DRUGS**

BT1 drugs  
 NT1 actinomycin  
 NT1 aminopterin  
 NT1 bleomycin  
 NT1 chlorambucil  
 NT1 doxorubicin  
 NT1 metronidazole  
 NT1 misonidazole  
 NT1 mitomycin  
 NT1 neocarcinostatin  
 NT1 puromycin  
 NT1 streptozocin  
 RT alkylating agents  
 RT antibiotics  
 RT antimetabolic drugs  
 RT chemotherapy  
 RT combined therapy  
 RT neoplasms

**ANTINEUTRINO BEAMS**

\*BT1 antiparticle beams  
 \*BT1 neutrino beams  
 RT antineutrinos

**ANTINEUTRINO-ELECTRON INTERACTIONS**

\*BT1 neutrino-electron interactions

**ANTINEUTRINO-NEUTRON INTERACTIONS**

INIS: 1977-01-25; ETDE: 1977-04-13

\*BT1 antilepton-neutron interactions  
\*BT1 antineutrino-nucleon interactions  
\*BT1 neutrino-neutron interactions

**ANTINEUTRINO-NUCLEON INTERACTIONS**

\*BT1 neutrino-nucleon interactions  
NT1 antineutrino-neutron interactions  
NT1 antineutrino-proton interactions

**ANTINEUTRINO-PROTON INTERACTIONS**

INIS: 1975-12-17; ETDE: 1976-01-26

\*BT1 antilepton-proton interactions  
\*BT1 antineutrino-nucleon interactions  
\*BT1 neutrino-proton interactions

**ANTINEUTRINO REACTIONS**

INIS: 1989-11-24; ETDE: 1989-12-08

BT1 nuclear reactions

**ANTINEUTRINOS**

\*BT1 antileptons  
\*BT1 neutrinos  
NT1 electron antineutrinos  
NT1 muon antineutrinos  
RT antineutrino beams

***antineutron-deuteron interactions***

2000-04-12

(Prior to February 1995 this was a valid ETDE descriptor. From February 1995 till May 1996 ANTINEUTRON REACTIONS and DEUTERIUM TARGET were used for this concept in ETDE.)

USE neutron-antineutron interactions  
USE proton-antineutron interactions

**ANTINEUTRON REACTIONS**

\*BT1 antinucleon reactions

**ANTINEUTRONS**

\*BT1 antinucleons  
\*BT1 neutrons  
RT neutron oscillation

***antinuclear groups***

INIS: 1982-12-03; ETDE: 2002-06-07

USE interest groups

**ANTINUCLEI**

\*BT1 antimatter  
BT1 nuclei  
NT1 antideuterons  
NT1 antiprotons  
NT1 antitritons

**ANTINUCLEON BEAMS**

\*BT1 antiparticle beams  
NT1 antiproton beams  
RT antinucleons

**ANTINUCLEON REACTIONS**

\*BT1 nucleon reactions  
NT1 antineutron reactions  
NT1 antiproton reactions

**ANTINUCLEONS**

\*BT1 antibaryons  
\*BT1 nucleons  
NT1 antineutrons  
NT1 antiprotons  
RT antinucleon beams

**ANTIOMEGA PARTICLES**

\*BT1 antihyperons

\*BT1 omega particles

**ANTIOXIDANTS**

RT oxidation  
RT oxidizers

**ANTIPARTICLE BEAMS**

BT1 beams  
NT1 antineutrino beams  
NT1 antinucleon beams  
NT2 antiproton beams  
RT pomeranchuk theorem

**ANTIPARTICLES**

\*BT1 antimatter  
BT1 elementary particles  
NT1 antibaryons  
NT2 antihyperons  
NT3 antilambda particles  
NT3 antiomega particles  
NT3 antisigma particles  
NT3 antixi particles  
NT2 antinucleons  
NT3 antineutrons  
NT3 antiprotons  
NT1 antikaons  
NT2 antikaons neutral  
NT1 antileptons  
NT2 antineutrinos  
NT3 electron antineutrinos  
NT3 muon antineutrinos  
NT2 muons plus  
NT2 positrons  
NT3 cosmic positrons  
NT1 antimesons  
NT2 pseudoscalar antimesons  
NT3 anti-b neutral mesons  
NT3 anti-d neutral mesons

**ANTIPROTON BEAMS**

\*BT1 antinucleon beams

***antiproton-deuteron interactions***

(Prior to May 1996 this was a valid ETDE descriptor.)

USE antiproton-neutron interactions  
USE proton-antiproton interactions

**ANTIPROTON-NEUTRON INTERACTIONS**

(From January 1975 till May 1996

ANTIPROTON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

UF *antiproton-deuteron interactions*  
\*BT1 nucleon-antinucleon interactions

***antiproton-proton interactions***

ETDE: 2002-06-07

USE proton-antiproton interactions

**ANTIPROTON REACTIONS**

\*BT1 antinucleon reactions

**ANTIPROTON SOURCES**

INIS: 1985-12-10; ETDE: 1986-01-16

\*BT1 particle sources  
RT antiprotons

***antiprotonic atoms***

USE hadronic atoms

**ANTIPROTONS**

\*BT1 antinuclei  
\*BT1 antinucleons  
\*BT1 protons  
RT antiproton sources  
RT protonium

**ANTIPTYRETICS**

1996-07-18

UF *acetophenetidin*

UF *aminopyrine*  
UF *anti-inflammatory agents*  
UF *phenacetin*

\*BT1 central nervous system depressants  
NT1 acetylsalicylic acid  
NT1 antipyrene  
NT1 colchicine  
NT1 quinine  
RT analgesics  
RT fever  
RT inflammation

**ANTIPTYRENE**

\*BT1 analgesics  
\*BT1 antipyretics  
\*BT1 pyrazolines

**ANTIREFLECTION COATINGS**

1976-10-07

BT1 coatings  
RT optical equipment  
RT optical systems  
RT reflective coatings  
RT solar absorbers

**ANTISEPTICS**

INIS: 2000-04-12; ETDE: 1976-01-23

*Disinfectants mild enough for use on living tissue.*

BT1 germicides  
RT disinfectants  
RT drugs

***antiserum***

USE immune serums

**ANTISIGMA PARTICLES**

\*BT1 antihyperons  
\*BT1 sigma particles

**ANTITHYROID DRUGS**

UF *thyroid antagonists*  
BT1 drugs  
NT1 thiocyanates  
NT2 ammonium thiocyanates  
NT1 thiouracil  
NT1 thiourea  
RT hyperthyroidism  
RT hypothyroidism  
RT thyroid

**ANTITOXINS**

BT1 antibodies  
RT toxins

**ANTITRITONS**

\*BT1 antinuclei  
\*BT1 tritons

**ANTITRUST LAWS**

1992-08-17

(From February to August 1992 this concept in ETDE was indexed to US ANTITRUST LAWS.)

UF *us antitrust laws*  
BT1 laws  
RT business  
RT competition  
RT conflicts of interest  
RT marketing  
RT monopolies

**ANTITRUST REVIEW**

1999-07-20

*A review to establish whether a situation would be created or maintained which would be inconsistent with antitrust laws.*

BT1 legal aspects  
RT reactor licensing

**ANTIXI PARTICLES**

\*BT1 antihyperons  
\*BT1 xi particles

**ANTLERS**

- \*BT1 bone tissues
- RT deer

**antrim shales**

- INIS: 1992-07-22; ETDE: 1980-10-27
- USE black shales

**ANTS**

- INIS: 1993-07-12; ETDE: 1981-06-16
- \*BT1 hymenoptera

**ANU SUPERCONDUCTING LINAC**

- INIS: 1996-08-06; ETDE: 1998-07-07
- Linear Accelerator at the Australian National University, Department of Nuclear Physics.
- \*BT1 linear accelerators

**ANVIL POINTS RESEARCH FACILITY**

- 2000-04-12
- \*BT1 oil shale processing plants
- RT oil shales

**ANVIL PROJECT**

- INIS: 1999-03-05; ETDE: 1977-06-21
- UF banon event
- UF billet event
- UF cheshire event
- UF chiberta event
- UF colby event
- UF esrom event
- UF estuary event
- UF fontina event
- UF husky pup event
- UF inlet event
- UF kasseri event
- UF keelson event
- UF leyden event
- UF marsh event
- UF muenster event
- UF pool event
- UF project anvil
- UF strait event
- \*BT1 nuclear explosions
- RT contained explosions
- RT underground explosions

**ANYONS**

- 1992-03-18
- BT1 quasi particles
- RT quantum field theory
- RT statistical mechanics
- RT superconductivity

**AO-PHAL-1 REACTOR**

- INIS: 1985-03-15; ETDE: 1985-04-09
- UF sriracha reactor
- \*BT1 power reactors

**AORTA**

- \*BT1 arteries
- RT heart
- RT mediastinum

**apa**

- INIS: 2000-04-12; ETDE: 1980-03-29
- USE alaska power administration

**apache**

- 1996-07-16
- Accelerator for Physics And Chemistry of Heavy Elements.
- (Until July 1996 this was a valid descriptor.)
- USE isochronous cyclotrons

**APARTMENT BUILDINGS**

- 1985-07-22
- \*BT1 residential buildings
- RT commercial buildings
- RT households

**APATITES**

- UF calcium hydroxyapatite
- \*BT1 phosphate minerals
- RT kimberlites

**APERTURES**

- BT1 openings
- RT orifices

**APES**

- \*BT1 primates
- RT monkeys

**APFA-3 REACTOR**

- Accelerator Pulsed Fast Critical Assembly. General Atomic Co., San Diego, California, USA. Shut down in 1973.
- UF accelerator pulsed fast assembly
- \*BT1 zero power reactors

**APHIDS**

- \*BT1 hemiptera

**API GRAVITY**

- INIS: 1993-09-01; ETDE: 1976-03-11
- Scale adopted by American Petroleum Institute to express the specific gravity of oils.
- \*BT1 density

**apis mellifera**

- INIS: 2000-04-12; ETDE: 1981-04-17
- USE bees

**aplastic anemia**

- USE anemias

**APLITES**

- UF alaskites
- \*BT1 granites
- RT feldspars
- RT quartz

**APOLIPOPROTEINS**

- INIS: 1992-09-18; ETDE: 1978-08-07
- \*BT1 lipoproteins
- RT coenzymes

**APOLLO PROJECT**

- UF project apollo
- RT lunar materials
- RT moon
- RT space flight

**APOPTOSIS**

- INIS: 1999-04-19; ETDE: 1999-05-03
- RT cell differentiation
- RT cell killing
- RT ontogenesis

**appalachia**

- 2000-04-12
- The mountainous region, including valleys and plateaus extending through the eastern USA from New England to Georgia and Alabama.

(Prior to August 1992 this was a valid descriptor.)

- USE appalachian mountains

**APPALACHIAN BASIN**

- INIS: 1992-08-18; ETDE: 1989-09-08
- \*BT1 sedimentary basins
- NT1 chattanooga formation

**APPALACHIAN MOUNTAINS**

- UF appalachia
- BT1 mountains
- NT1 adirondack mountains
- RT canada
- RT usa

**appalachian orogeny**

- INIS: 2000-04-12; ETDE: 1977-10-20
- SEE permian period

**apparatus**

- 1982-12-06
- USE equipment

**APPARENT MOLAL VOLUME**

- INIS: 2000-04-12; ETDE: 1975-09-11
- Apparent molal volume is equal to the total volume of the solution minus the volume of the solvent divided by the number of moles of the solute.
- RT thermodynamic properties

**APPEALS**

- INIS: 1995-04-10; ETDE: 1979-12-10
- BT1 administrative procedures

**appendix (vermiform)**

- USE large intestine
- USE lymphatic system

**APPENNINES**

- INIS: 1976-10-07; ETDE: 1976-11-01
- \*BT1 italy
- BT1 mountains

**APPLE COMPUTERS**

- INIS: 1992-08-18; ETDE: 1981-12-21
- BT1 computers

**APPLES**

- \*BT1 fruits
- RT codling moth
- RT fruit trees
- RT rosaceae

**APPLIANCES**

- 1993-01-22
- BT1 equipment
- NT1 clothes dryers
- NT1 clothes washers
- NT1 coal burning appliances
- NT1 dishwashers
- NT1 electric appliances
- NT2 microwave ovens
- NT1 freezers
- NT1 gas appliances
- NT1 ovens
- NT2 microwave ovens
- NT1 space heaters
- NT2 convectors
- NT1 stoves
- NT1 water coolers
- NT1 water heaters
- NT2 solar water heaters
- NT3 passive solar water heaters
- NT4 thermic diode solar panels
- NT1 wood burning appliances
- NT2 wood burning furnaces
- RT air conditioners

**applications**

- USE uses

**applicators (radiotherapy)**

- USE radiation sources

**appraisal**

- INIS: 2000-04-12; ETDE: 1980-05-06
- (Prior to August 1992 this was a valid ETDE descriptor.)
- USE cost estimation

**APPROPRIATE TECHNOLOGY**

- INIS: 1999-06-23; ETDE: 1993-08-31
- A technology anywhere between the simplest and the most sophisticated that is appropriate for accomplishing a particular task.
- UF intermediate technology

SF nanotechnology  
 RT renewable energy sources  
 RT technology assessment  
 RT technology impacts  
 RT technology utilization

**approximation (bohr)**

INIS: 1976-03-17; ETDE: 1976-05-17  
 USE nilsson-mottelson model

**approximation (distorted-wave)**

ETDE: 2002-06-07  
 USE dwba

**approximation (fixed scattering centres)**

ETDE: 2002-06-07  
 USE fsc approximation

**APPROXIMATIONS**

INIS: 2006-02-06; ETDE: 2006-01-31  
 Use of a more specific term from this word block is recommended.

BT1 calculation methods  
 NT1 adiabatic approximation  
 NT1 born approximation  
 NT2 coupled channel born approximation  
 NT2 dwba  
 NT1 born-oppenheimer approximation  
 NT1 brinkman-kramers approximation  
 NT1 broken-pair approximation  
 NT1 diabatic approximation  
 NT1 dirac approximation  
 NT1 eikonal approximation  
 NT1 equivalent-photon approximation  
 NT1 fsc approximation  
 NT1 guiding-center approximation  
 NT1 hartree-fock method  
 NT1 impulse approximation  
 NT1 ladder approximation  
 NT1 pade approximation  
 NT1 random phase approximation  
 NT1 rosseland approximation  
 NT1 semiclassical approximation  
 NT1 spherical harmonics method  
 NT2 p1-approximation  
 NT2 p2-approximation  
 NT2 p3-approximation  
 NT1 straight-line path approximation  
 NT1 sudden approximation  
 NT1 tomonaga approximation  
 NT1 unitary pole approximation  
 NT1 wkb approximation  
 NT1 zero-range approximation

**apra reactor**

USE aprf reactor

**APRF REACTOR**

Aberdeen Proving Ground, Aberdeen, Maryland, USA.  
 UF aberdeen maryland reactor  
 UF apra reactor  
 UF army pulsed reactor assembly  
 \*BT1 fast reactors  
 \*BT1 pulsed reactors  
 \*BT1 research reactors

**APRICOTS**

1993-07-12  
 \*BT1 fruits  
 RT fruit trees  
 RT rosaceae

**APS REACTOR**

Obninsk, Kaluga, Russian Federation.  
 UF am-1 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 lwgr type reactors

\*BT1 power reactors  
 \*BT1 thermal reactors

**aps storage ring**

INIS: 1992-08-17; ETDE: 1992-06-11  
 USE advanced photon source

**APSARA REACTOR**

Bhabha Atomic Research Center, Trombay, Maharashtra, India.  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**AQUA REGIA**

RT hydrochloric acid  
 RT nitric acid

**acquaclus process**

INIS: 2000-04-12; ETDE: 1977-12-22  
 Sulfur dioxide is removed from Claus plant tail gas or other gaseous waste using phosphate base adsorbent solution.  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

**AQUACULTURE**

INIS: 1991-09-18; ETDE: 1975-11-11  
 Cultivation of natural faunal and/or floral resources of water.  
 UF aquiculture  
 UF mariculture  
 RT fisheries  
 RT fishes  
 RT hydroponic culture  
 RT waste heat utilization

**AQUATIC ECOSYSTEMS**

UF brackish water ecosystems  
 UF estuarine ecosystems  
 UF fresh water ecosystems  
 UF marine ecosystems  
 BT1 ecosystems  
 NT1 wetlands  
 NT2 marshes  
 NT2 swamps  
 RT amphibians  
 RT aquatic organisms  
 RT benthos  
 RT biochemical oxygen demand  
 RT cattails  
 RT chemical oxygen demand  
 RT eutrophication  
 RT hydrosphere  
 RT limnology  
 RT otters  
 RT rotifera

**AQUATIC ORGANISMS**

1997-06-17  
 Unspecified biota characteristic of aquatic ecosystems.  
 UF azolla  
 UF manatees  
 NT1 amphibians  
 NT2 frogs  
 NT2 salamanders  
 NT3 triturus  
 NT2 toads  
 NT1 aufwuchs  
 NT1 benthos  
 NT2 echinoderms  
 NT3 sea urchins  
 NT1 bryozoa  
 NT1 cetaceans  
 NT1 crustaceans  
 NT2 branchiopods

NT3 artemia  
 NT3 daphnia  
 NT2 copepods  
 NT2 decapods  
 NT3 crabs  
 NT3 lobsters  
 NT3 prawns  
 NT3 shrimp  
 NT1 fishes  
 NT2 anadromous fishes  
 NT3 salmon  
 NT3 striped bass  
 NT2 codfish  
 NT2 eel  
 NT2 fathead minnow  
 NT2 goldfish  
 NT2 plaice  
 NT2 trout  
 NT2 tuna  
 NT1 molluscs  
 NT2 clams  
 NT2 mussels  
 NT2 oysters  
 NT2 snails  
 NT1 pinnipeds  
 NT1 plankton  
 NT2 ichthyoplankton  
 NT2 phytoplankton  
 NT2 zooplankton  
 NT1 rotifera  
 NT1 seaweeds  
 NT2 fucus  
 NT2 laminaria  
 NT1 water hyacinths  
 RT algae  
 RT animals  
 RT aquatic ecosystems  
 RT ephemeroptera  
 RT otters  
 RT plants

**aqueous carbonate process**

INIS: 2000-04-12; ETDE: 1977-06-24  
 USE desulfurization

**AQUEOUS HOMOGENEOUS REACTORS**

\*BT1 liquid homogeneous reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors  
 NT1 ai-1-77 reactor  
 NT1 argus reactor  
 NT1 ber-2 reactor  
 NT1 byu 1-77 reactor  
 NT1 cesnef reactor  
 NT1 dr-1 reactor  
 NT1 fir reactor  
 NT1 gidra reactor  
 NT1 hre-2 reactor  
 NT1 jrr-1 reactor  
 NT1 kewb reactor  
 NT1 kstr reactor  
 NT1 ncsr-1 reactor  
 NT1 nevada university reactor  
 NT1 prnc-1-77 reactor  
 NT1 supo reactor  
 NT1 wrrr reactor

**aqueous humor**

USE body fluids  
 USE eyes

**AQUEOUS SOLUTIONS**

UF water solutions  
 \*BT1 solutions  
 RT water

**AQUICLUDES**

1992-06-05

Bodies of relatively impermeable rock that are capable of absorbing water slowly but function as upper or lower boundaries of aquifers and do not transmit ground water rapidly enough to supply a well or spring.

RT ground water  
RT rocks  
RT water reservoirs

**aquiculture**

INIS: 1991-09-18; ETDE: 1975-11-11

USE aquaculture

**AQUIFERS**

A stratum of permeable rock, sand, or gravel that will yield a significant quantity of water.

UF ground-water reserves  
RT artesian basins  
RT ground water  
RT hydrology  
RT reservoir pressure  
RT rocks  
RT sand  
RT underground  
RT water influx  
RT water tables

**AQUILON REACTOR**

\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 natural uranium reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors  
\*BT1 zero power reactors

**ARAB ATOMIC ENERGY AGENCY**

INIS: 1992-03-24; ETDE: 1992-04-09

BT1 international organizations

**ARAB COUNTRIES**

INIS: 1997-01-06; ETDE: 1992-08-05

NT1 algeria  
NT1 bahrain  
NT1 djibouti  
NT1 egyptian arab republic  
NT1 iraq  
NT1 jordan  
NT1 kuwait  
NT1 lebanon  
NT1 libyan arab jamahiriya  
NT1 mauritania  
NT1 morocco  
NT1 oman  
NT1 qatar  
NT1 saudi arabia  
NT1 somalia  
NT1 sudan  
NT1 syria  
NT1 tunisia  
NT1 united arab emirates  
NT1 yemen  
RT africa  
RT asia  
RT middle east

**arab republic of egypt**

USE egyptian arab republic

**ARABIAN SEA**

\*BT1 indian ocean  
NT1 persian gulf  
NT2 strait of hormuz

**ARABIDOPSIS**

\*BT1 magnoliopsida

**ARABINOSE**

\*BT1 aldehydes  
\*BT1 pentoses

RT gum acacia

**arachidic acid**

USE eicosanoic acid

**ARACHIDONIC ACID**

\*BT1 monocarboxylic acids

**ARACHNIDS**

\*BT1 arthropods  
NT1 mites  
NT1 scorpions  
NT1 spiders  
NT1 ticks

**ARAGONITE**

A white, yellowish, or gray orthorhombic mineral.

\*BT1 carbonate minerals  
RT calcium carbonates

**ARAL SEA**

INIS: 1998-12-30; ETDE: 1999-01-28

\*BT1 lakes  
\*BT1 seas  
RT kazakhstan  
RT uzbekistan

**ARALDITE**

\*BT1 epoxides  
\*BT1 organic polymers  
RT homalite  
RT resins

**aralex process**

INIS: 2000-04-12; ETDE: 1979-11-07

2-ethyl-1-hexanol is used to extract tbp degradation products from acidified sodium carbonate scrub waste leaving actinides in the aqueous phase.

(Prior to April 1994, this was a valid ETDE descriptor.)

USE radioactive waste processing

**ARAMIDS**

INIS: 1996-08-05; ETDE: 1978-07-06

(Until July 1996 this concept was indexed to POLYAMIDES.)

UF kevlar  
\*BT1 plastics  
RT fibers

**arbeitsgemeinschaft versuchsreaktor**

INIS: 1993-11-03; ETDE: 2002-06-07

USE avr reactor

**ARBI REACTOR**

Bilbao, Vizcaya, Spain.

UF argonaut bilbao reactor  
UF bilbao argonaut reactor  
\*BT1 argonaut type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**ARBITRATION**

INIS: 1976-12-08; ETDE: 1977-06-24

(From March 1981 till March 1997

MEDIATION was a valid ETDE descriptor.)

SF mediation  
RT dispute settlements  
RT hearings  
RT lawsuits

**ARBOR PROJECT**

2000-04-12

\*BT1 nuclear explosions  
\*BT1 underground explosions  
RT nevada test site

**ARBUS REACTOR**

UF ast-1 reactor  
UF mekess-arbus reactor

\*BT1 enriched uranium reactors  
\*BT1 experimental reactors  
\*BT1 omr type reactors  
\*BT1 power reactors  
\*BT1 test reactors  
\*BT1 thermal reactors

**ARC COAL PROCESS**

2000-04-12

Avco Corp. process for production of acetylene and recovery of carbon black, hcn, char, low-btu fuel gas, and sulfur.

\*BT1 coal gasification

**ARC FURNACES**

\*BT1 electric furnaces  
RT plasma furnaces  
RT vacuum furnaces

**ARC WELDING**

UF flux cored arc welding  
\*BT1 welding  
NT1 gas metal-arc welding  
NT2 gas tungsten-arc welding  
NT1 plasma arc welding  
NT1 shielded metal-arc welding  
NT1 submerged arc welding  
RT electroslag welding  
RT sputtering

**ARCHAEOLOGICAL SITES**

INIS: 1985-12-10; ETDE: 1978-07-06

RT archaeological specimens  
RT archaeology  
RT cultural objects  
RT site selection

**ARCHAEOLOGICAL SPECIMENS**

RT archaeological sites  
RT archaeology  
RT cultural objects  
RT cultural resources  
RT fossils

**ARCHAEOLOGY**

RT age estimation  
RT archaeological sites  
RT archaeological specimens  
RT historical aspects

**ARCHITECTS**

INIS: 1992-08-06; ETDE: 1980-01-15

SF professional personnel  
BT1 personnel  
RT architecture  
RT builders  
RT buildings  
RT construction industry  
RT solar architecture

**ARCHITECTURE**

1992-03-10

NT1 solar architecture  
NT1 vernacular architecture  
RT aesthetics  
RT architects  
RT buildings  
RT cultural resources  
RT thermal comfort

**arco process**

2000-03-24

(Prior to February 1995, this was a valid ETDE descriptor.)

SEE reprocessing  
SEE solvent extraction

**ARCTIC GAS PIPELINES**

INIS: 2000-04-12; ETDE: 1976-07-07

BT1 pipelines  
RT natural gas  
RT transport

**arctic haze**

INIS: 2000-04-12; ETDE: 1987-04-08

Abundance of tropospheric carbonaceous aerosols north of 60 deg n, present during winter and spring, but almost absent during summer. Use AEROSOLS, AIR POLLUTION, or other pertinent term and the descriptor below.

(Prior to February 1997 this was a valid ETDE descriptor.)

USE arctic regions

**ARCTIC OCEAN**

1977-09-06

\*BT1 seas

NT1 beaufort sea

NT2 prudhoe bay

NT1 chukchi sea

RT arctic regions

RT greenland

**ARCTIC REGIONS**

1995-11-22

(From April 1987 till February 1997 ARCTIC HAZE was a valid ETDE descriptor.)

UF arctic haze

\*BT1 polar regions

RT antarctic regions

RT arctic ocean

RT auroral zones

RT chukchi sea

RT climates

RT eskimos

RT glaciers

RT greenland

RT ice

RT ice caps

RT lapps

RT natural gas hydrate deposits

RT novaya zemlya

RT permafrost

RT polar-cap aurorae

RT snow

RT tundra

**ARDENNES B-1 REACTOR**

INIS: 1984-07-23; ETDE: 1984-09-05

Electricite de France, Chooz, France.

UF chooz b-1 reactor

\*BT1 pwr type reactors

**ARDENNES B-2 REACTOR**

2004-05-11

Electricite de France, Chooz, France.

UF chooz b-2 reactor

\*BT1 pwr type reactors

**ARDENNES REACTOR**

Chooz, Ardennes, France.

UF chooz reactor

UF sena reactor

\*BT1 pwr type reactors

**are-rr-1 reactor**

2000-04-12

USE wwr-s-cairo reactor

**area pollution sources**

INIS: 1992-03-09; ETDE: 1980-01-15

USE pollution sources

**ARGAND DIAGRAMS**

1999-09-16

The real part of a scattering amplitude plotted versus the imaginary one.

\*BT1 scatterplots

RT phase shift

RT scattering amplitudes

**ARGENTINA**

BT1 developing countries

\*BT1 south america

NT1 mendoza

RT andes

**argentina-brasil agencia contabil controle mater nuclear**

INIS: 1999-06-22; ETDE: 2002-06-07

USE abacc

**ARGENTINE ARN**

2000-07-11

Argentine Autoridad Regulatoria Nuclear.

\*BT1 argentine organizations

**ARGENTINE CNEA**

INIS: 1993-10-01; ETDE: 1993-11-08

Comision Nacional de Energia Atomica de la Republica Argentina.

UF cnea (argentina)

\*BT1 argentine organizations

**ARGENTINE INVAP**

2003-03-18

Argentine Investigacion Aplicada SE

(INVAP), San Carlos de Bariloche, Argentina.

UF argentine invap sociedad del estado

UF invap (argentina)

\*BT1 argentine organizations

**argentine invap sociedad del estado**

2003-03-18

USE argentine invap

**ARGENTINE ORGANIZATIONS**

INIS: 1986-07-09; ETDE: 1986-12-18

BT1 national organizations

NT1 argentine arn

NT1 argentine cnea

NT1 argentine invap

**argentine reactor ra-0**

USE ra-0 reactor

**argentine reactor ra-1**

USE ra-1 reactor

**argentine reactor ra-2**

USE ra-2 reactor

**argentine reactor ra-3**

USE ra-3 reactor

**argentine reactor ra-4**

INIS: 2002-08-13; ETDE: 2002-06-16

USE ra-4 reactor

**argentine reactor ra-5**

INIS: 1984-06-21; ETDE: 2002-06-07

USE ra-5 reactor

**argentine reactor ra-6**

2001-03-01

USE ra-6 reactor

**argentine reactor ra-8**

2002-11-20

USE ra-8 reactor

**ARGILLITE**

INIS: 1984-04-04; ETDE: 1979-07-18

\*BT1 shales

**ARGINASE**

1999-01-28

Code numbers 3.5.3.1 and 3.5.3.10.

\*BT1 amidases

RT arginine

**ARGININE**

UF guanidylaminovaleric acid

\*BT1 amino acids

RT arginase

**ARGON**

\*BT1 rare gases

**ARGON 31**

INIS: 1986-08-19; ETDE: 1986-09-05

\*BT1 argon isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

**ARGON 32**

\*BT1 argon isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

**ARGON 33**

\*BT1 argon isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

**ARGON 34**

\*BT1 argon isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

**ARGON 35**

\*BT1 argon isotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 seconds living radioisotopes

**ARGON 36**

\*BT1 argon isotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 stable isotopes

**ARGON 36 REACTIONS**

INIS: 1980-07-24; ETDE: 1980-08-12

\*BT1 heavy ion reactions

**ARGON 36 TARGET**

ETDE: 1976-07-09

BT1 targets

**ARGON 37**

\*BT1 argon isotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

**ARGON 37 TARGET**

INIS: 1979-02-21; ETDE: 1979-03-28

BT1 targets

**ARGON 38**

\*BT1 argon isotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 stable isotopes

**ARGON 38 BEAMS**

INIS: 1986-12-09; ETDE: 1987-02-24

\*BT1 ion beams

**ARGON 38 TARGET**

ETDE: 1976-07-09

BT1 targets

**ARGON 39**

\*BT1 argon isotopes

\*BT1 beta-minus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 years living radioisotopes

### ARGON 39 BEAMS

INIS: 1986-12-09; ETDE: 1987-02-24

\*BT1 radioactive ion beams

### ARGON 40

\*BT1 argon isotopes  
\*BT1 even-even nuclei  
\*BT1 light nuclei  
\*BT1 stable isotopes  
RT argon 40 beams

### ARGON 40 BEAMS

\*BT1 ion beams  
RT argon 40

### ARGON 40 REACTIONS

\*BT1 heavy ion reactions

### ARGON 40 TARGET

ETDE: 1976-07-09

BT1 targets

### ARGON 41

\*BT1 argon isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei

### ARGON 42

\*BT1 argon isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 years living radioisotopes

### ARGON 43

\*BT1 argon isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes

### ARGON 44

\*BT1 argon isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes

### ARGON 45

\*BT1 argon isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes

### ARGON 46

\*BT1 argon isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes

### ARGON 47

INIS: 1986-08-19; ETDE: 1986-09-05

\*BT1 argon isotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei

### ARGON 49

INIS: 1989-09-14; ETDE: 1989-10-16

\*BT1 argon isotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei

### ARGON 50

INIS: 1989-09-14; ETDE: 1989-10-16

\*BT1 argon isotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei

### ARGON 51

INIS: 1989-09-14; ETDE: 1989-10-16

\*BT1 argon isotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei

### ARGON CHLORIDES

\*BT1 argon compounds  
\*BT1 chlorides

### ARGON COMPLEXES

BT1 complexes

### ARGON COMPOUNDS

1996-01-24

BT1 rare gas compounds  
NT1 argon chlorides  
NT1 argon fluorides  
NT1 argon hydrides  
NT1 argon iodides  
NT1 argon nitrides  
NT1 argon oxides

### ARGON FLUORIDES

\*BT1 argon compounds  
\*BT1 fluorides

### ARGON HYDRIDES

\*BT1 argon compounds  
\*BT1 hydrides

### ARGON IODIDES

\*BT1 argon compounds  
\*BT1 iodides

### ARGON IONS

\*BT1 ions

### ARGON ISOTOPES

1999-07-16

BT1 isotopes  
NT1 argon 31  
NT1 argon 32  
NT1 argon 33  
NT1 argon 34  
NT1 argon 35  
NT1 argon 36  
NT1 argon 37  
NT1 argon 38  
NT1 argon 39  
NT1 argon 40  
NT1 argon 41  
NT1 argon 42  
NT1 argon 43  
NT1 argon 44  
NT1 argon 45  
NT1 argon 46  
NT1 argon 47  
NT1 argon 49  
NT1 argon 50  
NT1 argon 51

### argon method

USE isotope dating

### ARGON NITRIDES

\*BT1 argon compounds  
\*BT1 nitrides

### ARGON OXIDES

INIS: 1981-11-25; ETDE: 1981-06-13

\*BT1 argon compounds  
\*BT1 oxides

### argonaut barcelona reactor

USE argos reactor

### argonaut bilbao reactor

USE arbi reactor

### argonaut eindhoven reactor

2000-04-12

USE athene reactor

### argonaut lemont reactor

USE argonaut reactor

### ARGONAUT REACTOR

ANL, Argonne, Illinois, USA. Shut down in 1979.

UF argonaut lemont reactor

UF cp-11 reactor

\*BT1 argonaut type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

### ARGONAUT TYPE REACTORS

\*BT1 enriched uranium reactors  
\*BT1 research and test reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors  
NT1 aeg-pr-10 reactor  
NT1 arbi reactor  
NT1 argonaut reactor  
NT1 argos reactor  
NT1 athene reactor  
NT1 jason reactor  
NT1 lfr reactor  
NT1 moata reactor  
NT1 nestor reactor  
NT1 queen mary college utr-b reactor  
NT1 ra-1 reactor  
NT1 rb-2 reactor  
NT1 rien-1 reactor  
NT1 srcc-utr-100 reactor  
NT1 stark reactor  
NT1 strasbourg-cronenbourg reactor  
NT1 ufr reactor  
NT1 ulyse reactor  
NT1 urr reactor  
NT1 utr-10-kinki reactor  
NT1 vpi-utr-10 reactor

### argonauta rien-1 reactor

USE rien-1 reactor

### argonauta rio reactor

USE rien-1 reactor

### argonne advanced research reactor

2000-04-12

USE cp-6 reactor

### argonne fast source reactor

USE afsr reactor

### argonne heavy water modified reactor

2000-04-12

USE cp-3m reactor

### argonne heavy water reactor

USE cp-3 reactor

### argonne high flux reactor

2000-04-12

USE cp-6 reactor

### argonne national laboratory

USE anl

### argonne research reactor

USE cp-5 reactor

### argonne superconducting linac

INIS: 1985-11-18; ETDE: 1985-04-24

USE atlas superconducting linac

### argonne tandem/linear accelerator

INIS: 1993-11-03; ETDE: 2002-06-07

USE atlas superconducting linac

**argonne tank research and test reactor-aarr**

2000-04-12

USE aarr reactor

**argonne thermal source reactor**

2000-04-12

USE atsr reactor

**argonne zgs**

USE zgs

**argonox process**

INIS: 2000-04-12; ETDE: 1989-05-31

(Prior to September 1994, this was a valid ETDE descriptor.)

USE combined soxnox processes

**ARGOS REACTOR**

Barcelona, Spain.

UF argonaut barcelona reactor

UF barcelona argonaut reactor

\*BT1 argonaut type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**argus event**

1994-10-13

(Prior to September 1994, this was a valid ETDE descriptor.)

USE atmospheric explosions

USE nuclear explosions

**ARGUS REACTOR**

2004-09-09

Russian Research Center, Kurchatov Institute, Moscow, Russian Federation.

\*BT1 aqueous homogeneous reactors

\*BT1 enriched uranium reactors

\*BT1 research reactors

\*BT1 thermal reactors

**ARID LANDS**

INIS: 1992-01-09; ETDE: 1977-03-04

NT1 deserts

RT buffalo gourd

RT droughts

RT jojoba

RT land use

RT savannas

RT terrestrial ecosystems

**ARIEL SATELLITES**

BT1 satellites

**ARIZONA**

\*BT1 usa

RT great basin

**ARKANSAS**

\*BT1 usa

RT chattanooga formation

RT mississippi river

RT white river basin

**ARKANSAS-1 REACTOR**

Entergy Operations, Inc., Russellville, Arkansas, USA.

UF arkansas power-light-1 reactor

UF russellville-1 arkansas reactor

\*BT1 pwr type reactors

**ARKANSAS-2 REACTOR**

Entergy Operations, Inc., Russellville, Arkansas, USA.

UF arkansas power-light-2 reactor

UF russellville-2 arkansas reactor

\*BT1 pwr type reactors

**arkansas power-light-1 reactor**

USE arkansas-1 reactor

**arkansas power-light-2 reactor**

USE arkansas-2 reactor

**ARKANSAS RIVER**

INIS: 2000-04-12; ETDE: 1977-09-19

\*BT1 rivers

**arktika (nuclear ship)**

INIS: 1984-08-27; ETDE: 1994-08-10

USE ns leonid brezhnev

**arktika reactor**

INIS: 1984-08-27; ETDE: 1994-09-12

(Prior to the name change in November 1982 this was a valid descriptor, and older material is so indexed.)

USE leonid brezhnev reactor

**ARMATURES**

INIS: 1984-04-04; ETDE: 1976-09-14

\*BT1 electrical equipment

RT electric generators

RT electric motors

RT rotors

RT stators

**ARMENIA**

INIS: 1997-08-20; ETDE: 1993-04-08

(Until January 1993, this was indexed by USSR.)

SF soviet union

SF union of soviet socialist republics

SF ussr

BT1 asia

RT caucasus

**ARMENIAN-1 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

UF oktemberian-1 reactor

\*BT1 wwer type reactors

**ARMENIAN-2 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

UF oktemberian-2 reactor

\*BT1 wwer type reactors

**ARMENIAN ORGANIZATIONS**

1999-07-12

BT1 national organizations

**ARMF-1 REACTOR**

INEEL, Idaho Falls, Idaho, USA. Shut down in 1977.

UF advanced reactivity measurement facility-1

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**ARMOR**

INIS: 1999-02-23; ETDE: 1976-09-28

RT guns

RT projectiles

**ARMS**

INIS: 1976-02-11; ETDE: 1976-04-19

\*BT1 limbs

NT1 hands

NT2 fingers

**ARMS CONTROL**

INIS: 1998-06-10; ETDE: 1985-08-09

SF disarmament

RT bangkok treaty

RT ctb

RT ctbto

RT non-proliferation policy

RT non-proliferation treaty

RT nuclear disarmament

RT nuclear freeze

RT nuclear weapons dismantlement

RT pelindaba treaty

RT rarotonga treaty

RT salt talks

RT tlattelolco treaty

RT unidir

RT us acda

RT verification

RT weapons

**army personnel**

USE military personnel

**army pulsed reactor assembly**

USE aprf reactor

**aromatic acids**

USE carboxylic acids

**aromatic compounds**

USE aromatics

**aromatic hydrocarbons**

ETDE: 2002-06-07

USE aromatics

**AROMATICS**

1996-10-23

UF aromatic compounds

UF aromatic hydrocarbons

UF ndpp

SF syntans

BT1 organic compounds

NT1 acetophenone

NT1 alkylated aromatics

NT2 mesitylene

NT2 methylnaphthalenes

NT2 styrene

NT2 toluene

NT2 xylenes

NT3 xylene-para

NT1 aniline

NT1 azaarenes

NT2 acridines

NT3 acridine orange

NT3 flavines

NT4 acriflavine

NT4 proflavine

NT2 carbazoles

NT2 indoles

NT3 indigo

NT3 indocyanine green

NT3 lysergic acid

NT3 reserpine

NT3 strychnine

NT3 tryptamines

NT4 melatonin

NT4 serotonin

NT5 bufotenine

NT3 tryptophan

NT3 vinblastine

NT2 phenanthrolines

NT3 ferroin

NT3 phenanthroline-ortho

NT2 pteridines

NT3 aminopterin

NT3 folic acid

NT2 purines

NT3 adenines

NT4 kinetin

NT3 guanine

NT3 guanosine

NT3 hypoxanthine

NT3 inosine

NT3 mercaptopurine

NT3 xanthenes

NT4 caffeine

NT4 theobromine

NT4 theophylline

NT4 uric acid

NT2 quinolines



NT3 ferron  
 NT3 oxine  
 NT3 quinaldine  
 NT1 benzene  
 NT1 benzidine  
 NT1 benzyl alcohol  
 NT1 bibenzyl  
 NT1 biphenyl  
 NT1 condensed aromatics  
 NT2 3-methylcholanthrene  
 NT2 acenaphthene  
 NT2 anthracene  
 NT2 benzanthracene  
 NT2 benzopyrene  
 NT2 calixarenes  
 NT2 cholanthrene  
 NT2 chrysene  
 NT2 dimethylbenzanthracene  
 NT2 fluorene  
 NT2 indene  
 NT2 indocyanine green  
 NT2 methylnaphthalenes  
 NT2 naphthalene  
 NT2 pentacene  
 NT2 perylene  
 NT2 phenanthrene  
 NT2 pyrene  
 NT2 tetracene  
 NT2 triphenylene  
 NT1 cumene  
 NT1 cymene  
 NT1 ddt  
 NT1 divinylbenzene  
 NT1 durene  
 NT1 halogenated aromatic hydrocarbons  
 NT2 brominated aromatic hydrocarbons  
 NT2 chlorinated aromatic hydrocarbons  
 NT3 aldrin  
 NT3 polychlorinated biphenyls  
 NT2 fluorinated aromatic hydrocarbons  
 NT2 iodinated aromatic hydrocarbons  
 NT1 indan  
 NT1 methyl tyrosine  
 NT1 mibg  
 NT1 oligophenylenes  
 NT1 pethidine  
 NT1 phenols  
 NT2 cresols  
 NT2 dinitrophenol  
 NT2 eriochrome dyes  
 NT2 hydroxypropiophenone  
 NT2 naphthols  
 NT3 1-nitroso-2-naphthol  
 NT3 nitroso-r salt  
 NT3 pyridylazonaphthol  
 NT3 thorin  
 NT3 trypan blue  
 NT2 nitrophenol  
 NT2 phenol  
 NT2 phenolphthalein  
 NT2 picric acid  
 NT2 polyphenols  
 NT3 arsenazo  
 NT3 bromosulfophthalein  
 NT3 catecholamines  
 NT3 curcumin  
 NT3 dopamine  
 NT3 fluorescein  
 NT4 erythrosine  
 NT3 hematoxylin  
 NT3 morin  
 NT3 pyridylazoresorcinol  
 NT3 pyrocatechol  
 NT3 pyrogallol  
 NT3 quercetin  
 NT3 resorcinol  
 NT3 stilbestrol  
 NT3 tannic acid  
 NT3 tiron

NT2 thymol  
 NT2 tyramine  
 NT2 xylenols  
 NT1 phenylalanine  
 NT1 polycyclic aromatic hydrocarbons  
 NT2 3-methylcholanthrene  
 NT1 polyphenyls  
 NT2 terphenyls  
 NT3 terphenyl-ortho  
 NT3 terphenyl-para  
 NT1 quaterphenyls  
 NT1 quinones  
 NT2 anthraquinones  
 NT3 alizarin  
 NT3 carminic acid  
 NT3 quinizarin  
 NT2 benzoquinones  
 NT3 chloranil  
 NT3 chloranilic acid  
 NT3 plastoquinone  
 NT3 ubiquinone  
 NT2 rhodizonic acid  
 NT2 vitamin k  
 NT1 stilbene  
 NT1 tetralin  
 NT1 tolan  
 RT aromatization  
 RT cyanine dyes  
 RT hydroaromatics  
 RT hydrocarbons  
 RT oleoresins  
 RT organic coolants  
 RT organic moderators  
 RT solvesso  
 RT squarylium dyes

## AROMATIZATION

1986-05-26

*Conversion of any nonaromatic hydrocarbon structure to aromatic hydrocarbon.*

BT1 chemical reactions  
 RT aromatics

## ARRAY PROCESSORS

INIS: 1997-06-17; ETDE: 1979-08-08

*Multiprocessors composed of sets of identical CPUs, each set acting synchronously under the control of a common unit.*

UF multiprocessors  
 \*BT1 digital computers  
 RT cedar computers  
 RT computer architecture  
 RT data processing  
 RT digital filters  
 RT hypercube computers  
 RT microprocessors  
 RT task scheduling

## ARRHENIUS EQUATION

BT1 equations  
 RT activation energy  
 RT chemical reaction kinetics  
 RT partition  
 RT reaction kinetics

## arsanilic acid

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE amines  
 USE arsonic acids

## ARSENATES

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

BT1 arsenic compounds  
 BT1 oxygen compounds  
 RT arsenic oxides

## ARSENAZO

\*BT1 arsonic acids  
 \*BT1 azo compounds  
 \*BT1 polyphenols  
 BT1 reagents  
 \*BT1 sulfonic acids

## ARSENIC

\*BT1 semimetals

## ARSENIC 64

INIS: 2003-01-03; ETDE: 2002-12-26

\*BT1 arsenic isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 proton decay radioisotopes

## ARSENIC 65

INIS: 1990-12-05; ETDE: 1991-01-14

\*BT1 arsenic isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

## ARSENIC 66

INIS: 1979-09-18; ETDE: 1979-03-29

\*BT1 arsenic isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

## ARSENIC 67

INIS: 1978-07-03; ETDE: 1978-04-06

\*BT1 arsenic isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

## ARSENIC 68

\*BT1 arsenic isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

## ARSENIC 69

\*BT1 arsenic isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

## ARSENIC 70

\*BT1 arsenic isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

## ARSENIC 71

\*BT1 arsenic isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

## ARSENIC 72

\*BT1 arsenic isotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei

## ARSENIC 73

\*BT1 arsenic isotopes  
 \*BT1 days living radioisotopes

- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**ARSENIC 74**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**ARSENIC 75**

- \*BT1 arsenic isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**ARSENIC 75 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**ARSENIC 76**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**ARSENIC 77**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**ARSENIC 78**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**ARSENIC 79**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ARSENIC 80**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ARSENIC 81**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**ARSENIC 82**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ARSENIC 83**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**ARSENIC 84**

- \*BT1 arsenic isotopes

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ARSENIC 85**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**ARSENIC 86**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**ARSENIC 87**

- \*BT1 arsenic isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**ARSENIC ADDITIONS**

- \*BT1 arsenic alloys

**ARSENIC ALLOYS**

*Alloys containing more than 1% As.*

- BT1 alloys
- NT1 arsenic additions
- RT arsenides

**ARSENIC BROMIDES**

- BT1 arsenic compounds
- \*BT1 bromides

**ARSENIC CHLORIDES**

- BT1 arsenic compounds
- \*BT1 chlorides

**ARSENIC COMPLEXES**

- BT1 complexes

**ARSENIC COMPOUNDS**

*1996-06-26*

- UF *arsonium compounds*
- UF *cacodylic acid*
- NT1 arsenates
- NT1 arsenic bromides
- NT1 arsenic chlorides
- NT1 arsenic fluorides
- NT1 arsenic hydrides
- NT1 arsenic iodides
- NT1 arsenic oxides
- NT1 arsenic selenides
- NT1 arsenic sulfides
- NT1 arsenic tellurides
- NT1 arsenides

- NT2 aluminium arsenides
- NT2 boron arsenides
- NT2 cadmium arsenides
- NT2 cerium arsenides
- NT2 cobalt arsenides
- NT2 copper arsenides
- NT2 europium arsenides
- NT2 gadolinium arsenides
- NT2 gallium arsenides
- NT2 germanium arsenides
- NT2 hafnium arsenides
- NT2 indium arsenides
- NT2 iron arsenides
- NT2 lithium arsenides
- NT2 magnesium arsenides
- NT2 manganese arsenides
- NT2 molybdenum arsenides
- NT2 neptunium arsenides
- NT2 nickel arsenides
- NT2 niobium arsenides

- NT2 palladium arsenides
- NT2 platinum arsenides
- NT2 plutonium arsenides
- NT2 praseodymium arsenides
- NT2 ruthenium arsenides
- NT2 samarium arsenides
- NT2 silicon arsenides
- NT2 silver arsenides
- NT2 tellurium arsenides
- NT2 thorium arsenides
- NT2 tin arsenides
- NT2 uranium arsenides
- NT2 zinc arsenides
- NT1 thoria
- RT organic arsenic compounds

**ARSENIC FLUORIDES**

- BT1 arsenic compounds
- \*BT1 fluorides

**ARSENIC HYDRIDES**

- BT1 arsenic compounds
- \*BT1 hydrides

**ARSENIC IODIDES**

- BT1 arsenic compounds
- \*BT1 iodides

**ARSENIC IONS**

- \*BT1 ions

**ARSENIC ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 arsenic 64
- NT1 arsenic 65
- NT1 arsenic 66
- NT1 arsenic 67
- NT1 arsenic 68
- NT1 arsenic 69
- NT1 arsenic 70
- NT1 arsenic 71
- NT1 arsenic 72
- NT1 arsenic 73
- NT1 arsenic 74
- NT1 arsenic 75
- NT1 arsenic 76
- NT1 arsenic 77
- NT1 arsenic 78
- NT1 arsenic 79
- NT1 arsenic 80
- NT1 arsenic 81
- NT1 arsenic 82
- NT1 arsenic 83
- NT1 arsenic 84
- NT1 arsenic 85
- NT1 arsenic 86
- NT1 arsenic 87

**ARSENIC OXIDES**

*1996-07-08*

- BT1 arsenic compounds
- \*BT1 oxides
- RT arsenates
- RT hallimondite
- RT heinrichite
- RT kahlerite
- RT kirchheimerite
- RT novacekite
- RT oxide minerals

**ARSENIC SELENIDES**

*INIS: 1978-02-23; ETDE: 1975-08-19*

- BT1 arsenic compounds
- \*BT1 selenides

**ARSENIC SULFIDES**

- BT1 arsenic compounds
- \*BT1 sulfides

**ARSENIC TELLURIDES**

INIS: 1977-03-01; ETDE: 1975-08-19

- BT1 arsenic compounds
- \*BT1 tellurides

**ARSENIDES**

1997-06-19

- UF *americium arsenides*
- UF *berkelium arsenides*
- UF *californium arsenides*
- UF *curium arsenides*
- UF *terbium arsenides*
- UF *thulium arsenides*
- UF *titanium arsenides*
- UF *vanadium arsenides*
- UF *yttrium arsenides*
- UF *zirconium arsenides*
- BT1 arsenic compounds
- BT1 pnictides
- NT1 aluminium arsenides
- NT1 boron arsenides
- NT1 cadmium arsenides
- NT1 cerium arsenides
- NT1 cobalt arsenides
- NT1 copper arsenides
- NT1 europium arsenides
- NT1 gadolinium arsenides
- NT1 gallium arsenides
- NT1 germanium arsenides
- NT1 hafnium arsenides
- NT1 indium arsenides
- NT1 iron arsenides
- NT1 lithium arsenides
- NT1 magnesium arsenides
- NT1 manganese arsenides
- NT1 molybdenum arsenides
- NT1 neptunium arsenides
- NT1 nickel arsenides
- NT1 niobium arsenides
- NT1 palladium arsenides
- NT1 platinum arsenides
- NT1 plutonium arsenides
- NT1 praseodymium arsenides
- NT1 ruthenium arsenides
- NT1 samarium arsenides
- NT1 silicon arsenides
- NT1 silver arsenides
- NT1 tellurium arsenides
- NT1 thorium arsenides
- NT1 tin arsenides
- NT1 uranium arsenides
- NT1 zinc arsenides
- RT arsenic alloys
- RT intermetallic compounds

**arsi reactor**

- USE avogadro rs-1 reactor

**arsonates**

INIS: 1984-04-04; ETDE: 2002-06-07

- USE organic arsenic compounds

**ARSONIC ACIDS**

1996-07-16

- UF *arsanilic acid*
- UF *beryllon*
- UF *dsnadns*
- \*BT1 organic acids
- \*BT1 organic arsenic compounds
- NT1 arsenazo

**arsonium compounds**

- USE arsenic compounds

**art objects**

INIS: 1981-12-23; ETDE: 1982-02-09

- USE cultural objects

**ARTEMIA**

- UF *brine shrimp*
- \*BT1 branchiopods

**ARTEMIS DEVICE**

INIS: 1998-11-12; ETDE: 1998-12-18

- \*BT1 reversed-field pinch devices
- RT reverse-field pinch

**ARTERIES**

- \*BT1 blood vessels
- NT1 aorta
- NT1 carotid arteries
- NT1 cerebral arteries
- NT1 coronaries
- RT arteriosclerosis
- RT blood pressure

**ARTERIOSCLEROSIS**

- UF *atherosclerosis*
- \*BT1 cardiovascular diseases
- \*BT1 vascular diseases
- RT arteries

**ARTESIAN BASINS**

2000-04-12

*Terranes, often but not necessarily basin shaped, including an artesian aquifer whose potentiometric surface typically is above the land surface in the topographically lower portion of the terrane.*

- RT aquifers
- RT ground water

**arthritis**

- USE rheumatic diseases

**ARTHROPODS**

- \*BT1 invertebrates
- NT1 arachnids
  - NT2 mites
  - NT2 scorpions
  - NT2 spiders
  - NT2 ticks
- NT1 crustaceans
  - NT2 branchiopods
    - NT3 artemia
    - NT3 daphnia
  - NT2 copepods
  - NT2 decapods
    - NT3 crabs
    - NT3 lobsters
    - NT3 prawns
    - NT3 shrimp
- NT1 insects
  - NT2 coleoptera
    - NT3 beetles
      - NT4 boll weevil
      - NT4 tribolium
  - NT2 dictyoptera
    - NT3 cockroaches
  - NT2 diptera
    - NT3 flies
      - NT4 fruit flies
        - NT5 anastrepha
        - NT5 ceratitis capitata
        - NT5 dacus
          - NT6 dacus oleae
        - NT5 drosophila
          - NT4 glossina
        - NT4 hylemya antiqua
          - NT4 screwworm fly
      - NT3 mosquitoes
    - NT2 ephemeroptera
      - NT3 hemiptera
        - NT3 aphids
      - NT2 hymenoptera
        - NT3 ants
          - NT3 bees
          - NT3 wasps
      - NT2 lepidoptera
        - NT3 moths
          - NT4 bollworm
          - NT4 codling moth

- NT4 lymantria dispar
- NT4 rice stem borers
- NT4 silkworm
- NT2 orthoptera
  - NT3 grasshoppers
  - NT4 locusts

**arthur d little coal liquefaction process**

INIS: 2000-04-12; ETDE: 1978-05-01

- USE coal liquefaction

**ARTIFICIAL INTELLIGENCE**

INIS: 1986-12-09; ETDE: 1984-02-10

*A subfield of computer science concerned with the concepts and methods of symbolic inference by a computer and the symbolic representation of the knowledge to be used in making inferences.*

- RT computers
- RT expert systems
- RT knowledge base
- RT lisp
- RT neural networks
- RT programming

**ARTIFICIAL LIFTS**

INIS: 1992-05-28; ETDE: 1977-05-07

*Any method of lifting oil out of underground reservoirs, usually by injecting gas or foam into a rock or sand formation to force fluids from wells.*

- NT1 gas lifts
- RT oil wells

**ARTIFICIAL ORGANS**

1995-11-15

(From June 1977 until March 1996

MECHANICAL KIDNEY was a valid ETDE descriptor.)

- UF *mechanical kidney*
- NT1 mechanical heart
- RT biotechnology
- RT cardiac pacemakers
- RT organs
- RT prostheses

**ARTIFICIAL RADIATION BELTS**

- BT1 radiation belts
- RT nuclear explosions

**artisans**

INIS: 1993-04-28; ETDE: 2002-06-07

- USE craftsmen

**ARYL 4-MONOXYGENASE**

INIS: 2000-04-12; ETDE: 1981-06-13

- UF *aryl hydrocarbon monooxygenase*
- \*BT1 oxidoreductases
- RT mixed-function oxidases

**aryl hydrocarbon monooxygenase**

INIS: 2000-04-12; ETDE: 1981-06-13

- USE aryl 4-monooxygenase

**ARYL RADICALS**

1996-07-16

(Prior to August 1996 ANISYL RADICALS was a valid ETDE descriptor.)

- UF *anisyl radicals*
- BT1 radicals
  - NT1 benzyl radicals
  - NT1 mesityl radicals
  - NT1 naphthyl radicals
  - NT1 phenethyl radicals
  - NT1 phenyl radicals
  - NT1 tolyl radicals
- RT arylation

**ARYLATION**

*INIS: 2000-04-12; ETDE: 1985-02-22*  
*The introduction, by substitution or addition, of an aryl group into a chemical compound.*  
 BT1 chemical reactions  
 RT aryl radicals

**arylmagnesium compounds**

USE grignard reagents

**as low as reasonably achievable**

*INIS: 1993-11-03; ETDE: 2002-06-07*  
 USE alara

**as recycling process**

*INIS: 2000-04-12; ETDE: 1979-01-30*  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

**ASBESTOS**

RT refractories

**ASCARIDAE**

\*BT1 nematodes  
 BT1 parasites  
 NT1 ascaris  
 RT chickens  
 RT intestines

**ASCARIS**

\*BT1 ascaridae  
 RT small intestine

**aschelminthes**

*INIS: 2000-04-12; ETDE: 1981-06-17*  
 (Prior to September 2005 this was a valid descriptor.)  
 SEE nematodes

**ASCITES**

BT1 pathological changes  
 BT1 symptoms  
 RT ascites tumor cells  
 RT ehrlich ascites tumor  
 RT neoplasms  
 RT peritoneum

**ASCITES TUMOR CELLS**

\*BT1 tumor cells  
 RT ascites  
 RT ehrlich ascites tumor  
 RT neoplasms

**ASCO-1 REACTOR**

*INIS: 1977-04-07; ETDE: 1977-06-02*  
*Asco, Tarragona, Spain.*  
 \*BT1 pwr type reactors

**ASCO-2 REACTOR**

*INIS: 1977-04-07; ETDE: 1977-06-02*  
*Asco, Tarragona, Spain.*  
 \*BT1 pwr type reactors

**ASCOLOY**

*2000-04-12*  
 \*BT1 carbon additions  
 \*BT1 chromium alloys  
 \*BT1 iron base alloys  
 \*BT1 manganese additions  
 \*BT1 nickel alloys  
 \*BT1 silicon additions

**ASCORBIC ACID**

UF vitamin c  
 BT1 vitamins  
 RT redox process

**ASDEX TOKAMAK**

*INIS: 1977-03-01; ETDE: 1977-04-12*  
 \*BT1 tokamak devices

**ASH CONTENT**

*INIS: 1992-03-18; ETDE: 1984-05-08*  
 RT ashes  
 RT chemical composition  
 RT coal

**ash separators**

*INIS: 2000-04-12; ETDE: 1976-03-22*  
 USE inertial separators

**ASHES**

*1976-02-11*  
 BT1 combustion products  
 BT1 residues  
 NT1 fly ash  
 RT ash content  
 RT deashing  
 RT particulates  
 RT solid wastes

**ashing (dry)**

USE dry ashing

**ashing (wet)**

USE wet ashing

**asi**

*ETDE: 1978-03-08*  
 USE adiabatic surface ionization

**ASIA**

NT1 afghanistan  
 NT1 armenia  
 NT1 azerbaijan  
 NT1 bahrain  
 NT1 bangladesh  
 NT1 bhutan  
 NT1 brunei  
 NT1 cambodia  
 NT1 china  
 NT2 hong kong  
 NT2 taiwan  
 NT2 tibet  
 NT1 india  
 NT1 indonesia  
 NT1 iran  
 NT1 iraq  
 NT1 israel  
 NT1 japan  
 NT2 hachimantai  
 NT2 hirosima  
 NT2 nagasaki  
 NT1 jordan  
 NT1 kazakhstan  
 NT1 kuwait  
 NT1 kyrgyzstan  
 NT1 laos  
 NT1 lebanon  
 NT1 macao  
 NT1 malaysia  
 NT1 mongolian peoples republic  
 NT1 myanmar  
 NT1 nepal  
 NT1 north korea  
 NT1 oman  
 NT1 pakistan  
 NT1 philippines  
 NT1 qatar  
 NT1 republic of georgia  
 NT1 republic of korea  
 NT1 saudi arabia  
 NT1 siberia  
 NT1 singapore  
 NT1 sri lanka  
 NT1 syria  
 NT1 tajikistan  
 NT1 thailand  
 NT1 turkey  
 NT1 turkmenistan  
 NT1 united arab emirates

NT1 uzbekistan  
 NT1 viet nam  
 NT1 yemen  
 RT arab countries

**asparagic acid**

USE aspartic acid

**ASPARAGINE**

UF agedoite  
 UF althein  
 UF aminosuccinamic acid-alpha  
 UF asparagine-beta  
 UF asparamide  
 \*BT1 amides  
 \*BT1 amino acids  
 RT aspartic acid

**asparagine-beta**

USE asparagine

**asparaginic acid**

USE aspartic acid

**asparamide**

USE asparagine

**ASPARTIC ACID**

UF aminosuccinic acid  
 UF asparagic acid  
 UF asparaginic acid  
 \*BT1 amino acids  
 RT asparagine  
 RT succinic acid

**ASPECT RATIO**

BT1 dimensionless numbers  
 RT closed plasma devices  
 RT plasma  
 RT tori

**ASPENS**

*INIS: 1992-01-10; ETDE: 1976-08-04*  
 \*BT1 poplars  
 RT cottonwoods

**ASPERGILLUS**

\*BT1 eumycota  
 RT aflatoxins

**ASPHALT RIDGE DEPOSIT**

*INIS: 2000-04-12; ETDE: 1977-05-07*  
 \*BT1 oil sand deposits  
 RT oil sands  
 RT utah

**ASPHALTENES**

*1984-04-04*  
*Dark, solid constituents of crude oils and other bitumens which are soluble in carbon disulfide but insoluble in paraffin naphthas; they hold most of the organic constituents of bitumens.*  
 RT asphalts

**ASPHALTITE**

\*BT1 other organic compounds  
 RT bitumens

**ASPHALTS**

\*BT1 bitumens  
 RT asphaltenes  
 RT pavements  
 RT road oils

**aspirin**

*INIS: 1975-11-27; ETDE: 1976-03-22*  
 USE acetylsalicylic acid

**assaying (qualitative)**

*1975-08-20*  
 USE qualitative chemical analysis

**assaying (quantitative)**

*INIS: 1975-08-20; ETDE: 2002-01-18*  
USE quantitative chemical analysis

**ASSE SALT MINE**

*INIS: 1988-05-13; ETDE: 1987-08-14*  
*Underground test facility in the Federal Republic of Germany for research and development in the field of radioactive waste storage and disposal.*  
\*BT1 mines  
\*BT1 radioactive waste facilities  
RT federal republic of germany  
RT salt deposits  
RT underground disposal

**assessments**

USE charges

**assets**

*INIS: 2000-04-12; ETDE: 1979-12-10*  
USE financial data

**assignments**

1985-12-10  
USE allocations

**assistance in nuclear****accident/radiological emergency conv.**

*INIS: 1989-02-24; ETDE: 2002-11-14*  
USE canare

**ASSOCIATED GAS**

*INIS: 1992-09-15; ETDE: 1978-03-09*  
*Gaseous hydrocarbons occurring as a free-gas phase under original reservoir conditions of pressure and temperature.*  
\*BT1 gases  
RT oil fields  
RT petroleum deposits

**ast-1 reactor**

*INIS: 1986-06-10; ETDE: 2002-06-07*  
USE arbus reactor

**ASTAR 811C**

2000-04-12  
\*BT1 hafnium additions  
\*BT1 tantalum base alloys  
\*BT1 tungsten alloys

**ASTATINATION**

1983-09-06  
\*BT1 halogenation

**ASTATINE**

\*BT1 halogens

**ASTATINE 191**

2003-11-13  
\*BT1 alpha decay radioisotopes  
\*BT1 astatine isotopes  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei

**ASTATINE 193**

2003-11-13  
\*BT1 alpha decay radioisotopes  
\*BT1 astatine isotopes  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei

**ASTATINE 194**

*INIS: 1985-11-16; ETDE: 1984-05-08*  
\*BT1 alpha decay radioisotopes  
\*BT1 astatine isotopes  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

**ASTATINE 195**

\*BT1 astatine isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei

**ASTATINE 196**

\*BT1 alpha decay radioisotopes  
\*BT1 astatine isotopes  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

**ASTATINE 197**

\*BT1 alpha decay radioisotopes  
\*BT1 astatine isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei

**ASTATINE 198**

\*BT1 alpha decay radioisotopes  
\*BT1 astatine isotopes  
\*BT1 heavy nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**ASTATINE 199**

\*BT1 alpha decay radioisotopes  
\*BT1 astatine isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**ASTATINE 200**

\*BT1 alpha decay radioisotopes  
\*BT1 astatine isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**ASTATINE 201**

\*BT1 alpha decay radioisotopes  
\*BT1 astatine isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

**ASTATINE 202**

\*BT1 alpha decay radioisotopes  
\*BT1 astatine isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**ASTATINE 203**

\*BT1 alpha decay radioisotopes  
\*BT1 astatine isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

**ASTATINE 204**

\*BT1 alpha decay radioisotopes  
\*BT1 astatine isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**ASTATINE 205**

\*BT1 alpha decay radioisotopes  
\*BT1 astatine isotopes

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

**ASTATINE 206**

\*BT1 alpha decay radioisotopes  
\*BT1 astatine isotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**ASTATINE 207**

\*BT1 alpha decay radioisotopes  
\*BT1 astatine isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 odd-even nuclei

**ASTATINE 208**

\*BT1 alpha decay radioisotopes  
\*BT1 astatine isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 odd-odd nuclei

**ASTATINE 209**

\*BT1 alpha decay radioisotopes  
\*BT1 astatine isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 odd-even nuclei

**ASTATINE 210**

\*BT1 alpha decay radioisotopes  
\*BT1 astatine isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 odd-odd nuclei

**ASTATINE 211**

\*BT1 alpha decay radioisotopes  
\*BT1 astatine isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 odd-even nuclei

**ASTATINE 212**

\*BT1 alpha decay radioisotopes  
\*BT1 astatine isotopes  
\*BT1 heavy nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

**ASTATINE 212 TARGET**

*INIS: 1992-09-22; ETDE: 1977-11-10*  
BT1 targets

**ASTATINE 213**

\*BT1 alpha decay radioisotopes  
\*BT1 astatine isotopes  
\*BT1 heavy nuclei  
\*BT1 nanoseconds living radioisotopes  
\*BT1 odd-even nuclei

**ASTATINE 214**

\*BT1 alpha decay radioisotopes  
\*BT1 astatine isotopes  
\*BT1 heavy nuclei  
\*BT1 nanoseconds living radioisotopes  
\*BT1 odd-odd nuclei

**ASTATINE 215**

\*BT1 alpha decay radioisotopes

- \*BT1 astatine isotopes
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 216**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-odd nuclei

**ASTATINE 217**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 218**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ASTATINE 219**

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**ASTATINE 220**

*INIS: 1989-04-20; ETDE: 1989-05-11*

- \*BT1 alpha decay radioisotopes
- \*BT1 astatine isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**ASTATINE 221**

*INIS: 1989-05-29; ETDE: 1989-06-21*

- \*BT1 astatine isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**ASTATINE 222**

*INIS: 1989-05-29; ETDE: 1989-06-21*

- \*BT1 astatine isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**ASTATINE 223**

*INIS: 1989-05-29; ETDE: 1989-06-21*

- \*BT1 astatine isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**astatine additions**

2000-04-12

(Prior to August 1993 this was a valid ETDE descriptor.)

USE alloys

**astatine bromides**

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE astatine compounds  
USE bromides

**ASTATINE CHLORIDES**

- \*BT1 astatine compounds
- \*BT1 chlorides

**ASTATINE COMPLEXES**

BT1 complexes

**ASTATINE COMPOUNDS**

1996-07-16

- UF astatine bromides
- UF astatine iodides
- BT1 halogen compounds
- NT1 astatine chlorides

**astatine iodides**

1996-07-16

(Until July 1996 this was a valid descriptor.)

- USE astatine compounds
- USE iodides

**ASTATINE IONS**

- \*BT1 ions

**ASTATINE ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 astatine 191
- NT1 astatine 193
- NT1 astatine 194
- NT1 astatine 195
- NT1 astatine 196
- NT1 astatine 197
- NT1 astatine 198
- NT1 astatine 199
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- NT1 astatine 223

**ASTEROIDS**

- RT planets
- RT solar system

**ASTHMA**

*INIS: 1978-02-23; ETDE: 1976-10-13*

- \*BT1 respiratory system diseases
- RT immune system diseases

**ASTR REACTOR**

2000-04-12

*General Dynamics Corp., Fort Worth, Texas, USA. Shut down in 1971.*

- UF aerospace system test reactor
- UF aircraft shield test reactor
- UF fort worth astr reactor
- \*BT1 test reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**ASTRA REACTOR**

*Austrian Research Centres, Seibersdorf, Austria. Shut down, being dismantled.*

UF adapted swimming pool reactor austria

UF austrian research reactor

UF swimming pool tank reactor austria

- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 test reactors
- \*BT1 thermal reactors
- RT seibersdorf research centre

**ASTRID STORAGE RING**

*INIS: 1992-05-26; ETDE: 1994-08-10*

*Aarhus University, Denmark.*

BT1 storage rings

**ASTROCYTOMAS**

*INIS: 1992-09-22; ETDE: 1981-01-12*

(Until September 1992, this concept was indexed by NEOPLASMS.)

- \*BT1 gliomas

**ASTROLOY**

1993-10-03

- \*BT1 alloy-ni55co17cr15mo5al4ti4
- \*BT1 carbon additions

**ASTRON**

- \*BT1 closed plasma devices

**ASTRON SATELLITES**

*INIS: 1985-06-10; ETDE: 1985-07-19*

BT1 satellites

**ASTRONAUTS**

- BT1 personnel
- RT aviation personnel

**ASTRONOMY**

- NT1 gamma astronomy
- NT1 radioastronomy
- RT astrophysics
- RT eclipse
- RT stars

**ASTROPHYSICS**

2000-01-26

- BT1 physics
- RT astronomy
- RT chandrasekhar theory
- RT cosmology
- RT force-free magnetic fields
- RT galactic evolution
- RT red shift

**ASYMMETRY**

1996-03-04

- UF skewness
- NT1 east-west asymmetry
- NT1 north-south asymmetry
- RT anisotropy
- RT asymmetry coefficients
- RT configuration
- RT distribution
- RT orientation
- RT symmetry

**ASYMMETRY COEFFICIENTS**

RT asymmetry

**asymptotic conditions**

USE boundary conditions

**ASYMPTOTIC SOLUTIONS**

- BT1 mathematical solutions
- RT boundary conditions
- RT limiting fragmentation
- RT mathematical evolution

**ATC DEVICES**

- UF *adiabatic toroidal compressors*  
 \*BT1 tokamak devices

**atf-1 torsatron**

- INIS: 1984-04-04; ETDE: 2002-06-07  
 USE atf torsatron

**ATF TORSATRON**

- INIS: 1984-04-04; ETDE: 1983-07-07  
 UF *advanced toroidal facility torsatron*  
 UF *atf-1 torsatron*  
 \*BT1 torsatron stellarators

**atgas process**

- 1994-04-12  
*Applied technology corporation process for producing intermediate- or high-btu gas using molten iron gasification technique to gasify all types of coal with steam and oxygen at 5 psia pressure and 2600 degrees F. The process can be adapted to make low-btu gas by using air instead of oxygen.*  
 (Prior to April 1994, this was a valid ETDE descriptor.)  
 USE coal gasification

**ATHABASCA DEPOSIT**

- 1992-06-04  
 \*BT1 oil sand deposits  
 RT alberta  
 RT canada  
 RT oil sands

**ATHABASCA LAKE**

- \*BT1 lakes  
 RT alberta  
 RT saskatchewan

**ATHENE REACTOR**

- 2000-04-12  
 UF *argonaut eindhoven reactor*  
 UF *atoomreactor technische hogeschool eindhoven nederland*  
 UF *eindhoven argonaut reactor*  
 \*BT1 argonaut type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**atherosclerosis**

- USE arteriosclerosis

**ATLANTA**

- INIS: 1992-06-04; ETDE: 1977-10-20  
 \*BT1 georgia  
 BT1 urban areas

**ATLANTIC-1 REACTOR**

- Public Service Electric and Gas Co., USA.*  
*Canceled in 1978.*  
 \*BT1 pwr type reactors  
 RT offshore nuclear power plants

**ATLANTIC-2 REACTOR**

- Public Service Electric and Gas Co., USA.*  
*Canceled in 1978.*  
 \*BT1 pwr type reactors  
 RT offshore nuclear power plants

**ATLANTIC OCEAN**

- 1997-06-19  
 \*BT1 seas  
 NT1 baltimore canyon  
 NT1 bay of biscay  
 NT1 bay of fundy  
 NT1 biscayne bay  
 NT1 caribbean sea  
 NT2 gulf of mexico  
 NT3 galveston bay  
 NT3 san antonio bay  
 NT1 chesapeake bay

- NT1 delaware bay  
 NT1 gulf of maine  
 NT1 irish sea  
 NT1 long island sound  
 NT1 mid-atlantic bight  
 NT2 new york bight  
 NT1 north sea  
 NT2 wadden sea  
 NT1 onslow bay  
 NT1 sargasso sea  
 NT1 south atlantic bight  
 NT1 weddell sea  
 RT bahama islands  
 RT bermuda  
 RT cape verde islands  
 RT faeroe islands  
 RT georges bank  
 RT gulf stream  
 RT iceland  
 RT mid-atlantic ridge  
 RT newfoundland  
 RT prince edward island  
 RT us east coast

**atlas computers**

- 1997-01-28  
 (Until October 1996 this was a valid descriptor.)  
 USE computers

**atlas rockets**

- 2000-04-12  
 (Prior to August 1996 this was a valid ETDE descriptor.)  
 USE rockets

**ATLAS SUPERCONDUCTING LINAC**

- INIS: 1985-11-18; ETDE: 1985-04-24  
*Argonne Tandem/Linear Accelerator.*  
 UF *argonne superconducting linac*  
 UF *argonne tandem/linear accelerator*  
 \*BT1 hilacs

**ATMOSPHERES**

*Not for concepts covered by EARTH ATMOSPHERE.*

- NT1 controlled atmospheres  
 NT2 inert atmosphere  
 NT3 cover gas  
 NT1 planetary atmospheres  
 NT2 planetary ionospheres  
 NT2 planetary magnetospheres  
 NT1 satellite atmospheres  
 NT2 lunar atmosphere  
 NT1 stellar atmospheres  
 NT2 solar atmosphere  
 NT3 chromosphere  
 NT3 heliosphere  
 NT3 photosphere  
 NT3 solar corona  
 NT2 stellar chromospheres  
 NT2 stellar coronae  
 NT3 solar corona  
 NT2 stellar magnetospheres

**ATMOSPHERIC CHEMISTRY**

INIS: 1981-05-11; ETDE: 1979-06-06  
*Study of the production, transport, modification, and removal of atmospheric constituents in the troposphere and stratosphere.*

- BT1 chemistry  
 RT air pollution  
 RT greenhouse gases  
 RT ozone  
 RT photochemical reactions  
 RT photochemistry  
 RT smog

**ATMOSPHERIC CIRCULATION**

INIS: 1991-09-19; ETDE: 1982-08-24  
*Global or hemispheric air movements which can be treated by equations of motion, in contrast to atmospheric diffusion which is small random movement not amenable to treatment by these equations.*

- RT air flow  
 RT box models  
 RT climate models  
 RT climates  
 RT currents  
 RT earth atmosphere  
 RT general circulation models  
 RT meteorology  
 RT southern oscillation  
 RT wind

**ATMOSPHERIC EXPLOSIONS**

1996-06-26

- UF *annie event*  
 UF *argus event*  
 UF *boltzmann event*  
 UF *harry event*  
 UF *orange event*  
 UF *romeo event*  
 UF *smoky event*  
 UF *starfish event*  
 UF *teak event*  
 UF *tewa event*  
 UF *yankee event*  
 BT1 explosions  
 NT1 ranger project  
 NT1 trinity event  
 RT castle project  
 RT crossroads project  
 RT dominic project  
 RT earth atmosphere  
 RT little boy  
 RT nuclear explosion detection  
 RT nuclear explosions  
 RT redwing project

**atmospheric exposure chambers**

INIS: 1978-09-28; ETDE: 1977-10-20  
 USE exposure chambers

**atmospheric inversion**

INIS: 2000-04-12; ETDE: 1980-09-04  
 USE temperature inversions

**ATMOSPHERIC PRECIPITATIONS**

- UF *precipitations (atmospheric)*  
 NT1 hail  
 NT1 rain  
 NT2 acid rain  
 NT1 snow  
 RT aitken nuclei  
 RT climates  
 RT clouds  
 RT droplets  
 RT droughts  
 RT earth atmosphere  
 RT environmental materials  
 RT fallout  
 RT fog  
 RT ground water  
 RT hydrosphere  
 RT interception  
 RT meteorology  
 RT rain water  
 RT runoff  
 RT seasons  
 RT storms  
 RT surface waters  
 RT throughfall  
 RT washout  
 RT weather

**ATMOSPHERIC PRESSURE**

INIS: 1992-06-30; ETDE: 1979-07-18

- RT earth atmosphere  
RT pressure measurement  
RT southern oscillation

**atmospheric temperature**

INIS: 1993-07-06; ETDE: 2002-06-07

- USE ambient temperature

**ATMOSPHERICS**

- UF *sferics*  
\*BT1 radio noise  
RT whistlers

**ATOM-ATOM COLLISIONS**

- \*BT1 atom collisions  
RT electron exchange

**ATOM COLLISIONS**

- BT1 collisions  
NT1 atom-atom collisions  
NT1 atom-molecule collisions  
NT1 electron-atom collisions  
NT1 ion-atom collisions  
NT1 muon-atom collisions  
NT1 photon-atom collisions  
NT1 positron-atom collisions  
RT atomic physics

**ATOM-MOLECULE COLLISIONS**

- \*BT1 atom collisions  
\*BT1 molecule collisions  
RT electron exchange

**ATOM TRANSPORT**

1975-09-09

- UF *transport (atoms)*  
\*BT1 neutral-particle transport  
RT atoms  
RT diffusion  
RT mass transfer  
RT transport theory

**atomic absorption spectroscopy**

- USE absorption spectroscopy

**ATOMIC BEAM DIFFRACTION**

INIS: 1975-09-26; ETDE: 1975-10-28

- \*BT1 diffraction  
RT crystallography

**ATOMIC BEAM SOURCES**

INIS: 1977-09-15; ETDE: 1977-11-10

- BT1 neutral beam sources  
RT atomic beams  
RT beam injection heating  
RT ion sources  
RT neutral atom beam injection

**ATOMIC BEAMS**

- UF *abmr method*  
BT1 beams  
RT atomic beam sources  
RT beam strippers

**atomic bombs**

- USE nuclear weapons

**ATOMIC CLOCKS**

- RT electronic equipment  
RT time interval analyzers  
RT time measurement

**atomic clouds**

- USE radioactive clouds

**ATOMIC CLUSTERS**

INIS: 1992-10-19; ETDE: 1992-11-04

- RT cluster beams  
RT fullerenes  
RT ion pairs

**ATOMIC DISPLACEMENTS**

INIS: 1982-11-29; ETDE: 1983-02-09  
(From September 1979 till February 1997  
DISPLACEMENT RATES was a valid ETDE  
descriptor.)

- UF *displacements (atomic)*  
UF *dpa*  
SF *displacement rates*  
\*BT1 physical radiation effects

**atomic energy**

INIS: 1980-04-02; ETDE: 1980-05-06  
USE nuclear energy

**ATOMIC ENERGY ACT**

INIS: 2000-04-12; ETDE: 1980-04-14  
\*BT1 atomic energy laws

**ATOMIC ENERGY AGREEMENTS**

- \*BT1 international agreements

**ATOMIC ENERGY CONTROL**

- BT1 control  
NT1 international control  
NT1 national control  
RT atomic energy laws  
RT legal aspects  
RT safeguards

**atomic energy control board (canada)**

INIS: 1993-11-03; ETDE: 2002-06-07  
*Atomic Energy Control Board of Canada.*  
USE canadian aecb

**atomic energy law**

INIS: 1990-12-15; ETDE: 2002-06-07  
USE atomic energy laws

**ATOMIC ENERGY LAWS**

1990-12-15

(Prior to December 1990, in INIS this was  
spelled ATOMIC ENERGY LAW.)

- UF *atomic energy law*  
BT1 laws  
NT1 atomic energy act  
NT1 nuclear waste policy acts  
RT atomic energy control  
RT secrecy protection

**ATOMIC ENERGY OF CANADA LTD**

INIS: 1977-09-06; ETDE: 1977-11-09

- UF *aecb*  
\*BT1 canadian organizations  
NT1 chalk river nuclear labs  
NT1 wnre

**atomic energy research establishment**

- USE aere

**atomic explosions**

- USE nuclear explosions

**atomic fluorescence spectroscopy**

2000-04-12

- USE fluorescence spectroscopy

**ATOMIC FORCE MICROSCOPY**

INIS: 1999-07-26; ETDE: 1999-09-09  
*Technique used to study surface properties of  
materials from atomic to micron level. A sharp  
tip, on a cantilever spring, is scanned over a  
surface; a detector measures the cantilever  
deflection.*

- UF *afm*  
UF *magnetic force microscopy*  
BT1 microscopy  
RT scanning tunneling microscopy

**ATOMIC IONS**

INIS: 1975-11-11; ETDE: 1975-12-16  
*Coordinate the above descriptor with a  
descriptor for the appropriate specific ion.*

- UF *ions (atomic)*  
\*BT1 ions

**ATOMIC MODELS**

1999-03-17

- UF *models (atomic)*  
UF *molecular orbital model*  
BT1 mathematical models  
NT1 thomas-fermi model  
RT atomic physics  
RT atomic radii  
RT bohr theory  
RT configuration interaction  
RT electron correlation  
RT electronic structure  
RT harmonic oscillator models  
RT hartree-fock method  
RT optical models  
RT self-consistent field  
RT single-particle model

**ATOMIC NUMBER**

- UF *nuclear charge*  
RT periodic system  
RT stopping power

**ATOMIC PHYSICS**

INIS: 1983-06-30; ETDE: 1982-08-11  
*Use only for indexing articles of very broad  
coverage, such as annual reviews, text books,  
etc.*

- BT1 physics  
RT atom collisions  
RT atomic models

**atomic power company main yankee**

1993-11-03

- USE maine yankee reactor

**ATOMIC RADII**

- RT atomic models  
RT electronic structure

**atomic shells**

- USE electronic structure

**atomic shells (k)**

INIS: 1976-07-06; ETDE: 1976-08-24  
USE k shell

**atomic shells (l)**

INIS: 1976-07-06; ETDE: 1976-08-24  
USE l shell

**atomic shells (m)**

INIS: 1976-07-06; ETDE: 1976-08-24  
USE m shell

**atomic shells (n)**

INIS: 1979-11-02; ETDE: 1978-10-23  
USE n shell

**atomic weapons**

- USE nuclear weapons

**atomic weight**

INIS: 2000-04-12; ETDE: 1982-10-05  
SEE mass number

**atomics international aqueous carbonate process**

INIS: 2000-04-12; ETDE: 1977-05-07  
USE desulfurization

**ATOMICS INTERNATIONAL CANOGA PARK PLANT**

INIS: 1996-07-16; ETDE: 1976-11-17  
\*BT1 us doe



\*BT1 us erda  
RT california

**atomics international l-77 reactor**  
1993-11-03  
USE ai-l-77 reactor

**atomics international molten salt process**  
INIS: 2000-04-12; ETDE: 1975-10-01  
USE molten salt coal gasification process

**atomics international prototype fast reactor**  
1993-11-03  
USE aipfr reactor

**atomics international reduction oxidation dry reprocessing**  
INIS: 2000-04-12; ETDE: 1979-09-26  
USE airox process

**ATOMIZATION**  
RT aerosols  
RT droplets  
RT fuel injection systems  
RT sprays

**ATOMKI**  
1986-04-03  
UF *mita atommagkutato intezete*  
\*BT1 hungarian organizations

**atomki cyclotron**  
INIS: 1985-05-15; ETDE: 1985-07-18  
USE debrecen cyclotron

**atomkraftwerk muehleberg**  
USE muehleberg reactor

**atomkraftwerk rheinsberg akw1 reaktor**  
INIS: 1993-11-03; ETDE: 2002-06-07  
USE rheinsberg akw1 reactor

**ATOMS**  
NT1 hadronic atoms  
NT2 mesic atoms  
NT3 kaonic atoms  
NT3 pionic atoms  
NT2 protonium  
NT1 isoelectronic atoms  
NT1 muonic atoms  
RT atom transport  
RT aufbau principle  
RT fundamental constants  
RT kihara potential  
RT matrix isolation  
RT muonium  
RT positronium  
RT superradiance

**atoomreactor technische hogeschool eindhoven nederland**  
2000-04-12  
USE athene reactor

**ATP**  
UF *adenosine triphosphate*  
\*BT1 nucleotides  
RT adenines  
RT adenosine  
RT atp-ase

**ATP-ASE**  
Code numbers 3.6.1.3 and 3.6.1.8.  
UF *adenosine triphosphatase*  
\*BT1 phosphohydrolases  
RT atp

**ATPR REACTOR**  
2000-04-12  
UF *triga-mk-f prototype reactor*  
SF *triga-mk-3 reactor*  
\*BT1 isotope production reactors  
\*BT1 pulsed reactors  
\*BT1 research reactors  
\*BT1 test reactors  
\*BT1 thermal reactors  
\*BT1 training reactors  
\*BT1 triga type reactors

**ATR REACTOR**  
INEEL, Idaho Falls, Idaho, USA.  
UF *advanced test idaho reactor*  
UF *idaho advanced test reactor*  
\*BT1 enriched uranium reactors  
\*BT1 materials testing reactors  
\*BT1 tank type reactors  
\*BT1 test reactors  
\*BT1 thermal reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**ATRC REACTOR**  
INEEL, Idaho Falls, Idaho, USA.  
UF *advanced test reactor critical facility*  
\*BT1 enriched uranium reactors  
\*BT1 experimental reactors  
\*BT1 pool type reactors  
\*BT1 thermal reactors

**ATRIA**  
INIS: 1992-08-25; ETDE: 1981-11-10  
RT buildings  
RT high rooms

**atropa belladonna**  
1997-01-28  
(Until October 1996 this was a valid descriptor.)  
USE magnoliopsida  
USE medicinal plants

**ATROPHY**  
BT1 pathological changes

**ATROPINE**  
1996-11-13  
\*BT1 alkaloids  
\*BT1 parasympholytics

**ATS SATELLITES**  
BT1 satellites

**ATSR REACTOR**  
2000-04-12  
ANL, Argonne, Illinois, USA. Shut down in 1988.  
UF *argonne thermal source reactor*  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**ATTACHED GREENHOUSES**  
INIS: 1992-08-25; ETDE: 1979-02-27  
\*BT1 greenhouses  
RT passive solar heating systems

**ATTAPULGITE**  
INIS: 1980-05-14; ETDE: 1979-07-18  
\*BT1 clays  
RT fullers earth

**ATTENUATION**  
In classical physics only. For reducing the intensity of waves and submolecular particles when passing through matter employing classical physics use the above descriptor, when employing quantum physics use

*ABSORPTION. For attenuation cross sections, see also TOTAL CROSS SECTIONS.*  
RT acoustic esr  
RT acoustic nmr  
RT damping  
RT energy losses  
RT opacity  
RT transmission

**ATTICS**  
INIS: 2000-04-12; ETDE: 1979-03-27  
The parts of buildings immediately below the roof and entirely or partly within the roof framing.  
RT buildings

**attitude control**  
INIS: 2000-04-12; ETDE: 1975-07-29  
(Prior to February 1997 this was a valid ETDE descriptor.)  
USE control  
USE orientation

**ATTITUDES**  
INIS: 1985-12-10; ETDE: 1980-04-14  
NT1 safety culture  
RT behavior  
RT human factors  
RT learning  
RT public anxiety  
RT public opinion

**attitudes of the public**  
INIS: 2000-04-12; ETDE: 1978-03-03  
USE public opinion

**ATTRACTORS**  
INIS: 1987-02-26; ETDE: 1990-11-14  
NT1 limit cycle  
RT phase space  
RT randomness  
RT turbulence

**atucha-1 reactor**  
INIS: 1980-02-26; ETDE: 1980-03-29  
USE atucha reactor

**ATUCHA-2 REACTOR**  
INIS: 1980-02-26; ETDE: 1980-03-29  
Lima, Buenos Aires, Argentina.  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors  
\*BT1 pressure tube reactors  
\*BT1 thermal reactors

**ATUCHA REACTOR**  
Lima, Buenos Aires, Argentina.  
UF *atucha-1 reactor*  
UF *central nuclear en atucha reactor*  
UF *cna reactor*  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors  
\*BT1 pressure tube reactors  
\*BT1 thermal reactors

**ATWS**  
1975-09-01  
Anticipated Transients Without Scram.  
\*BT1 design basis accidents  
RT scram  
RT transients

**AU SABLE RIVER**  
INIS: 2000-04-12; ETDE: 1980-12-08  
\*BT1 rivers  
RT hydroelectric power plants  
RT michigan

**AUBE PLANT**  
INIS: 1993-04-19; ETDE: 1992-11-20  
UF *soulaines plant*  
\*BT1 radioactive waste facilities

**AUC**

1979-11-02

UF ammonium uranyl carbonates

\*BT1 ammonium carbonates

\*BT1 uranyl compounds

**audible alarm**

INIS: 1984-04-04; ETDE: 2002-06-07

USE alarm systems

**AUDITORY ORGANS**

UF ears

UF labyrinth

\*BT1 sense organs

RT vestibular apparatus

**AUDITS**

INIS: 1985-12-10; ETDE: 1979-11-23

Documented activities undertaken to determine the adequacy of or the adherence to established procedures, instructions, specifications, codes, standards, etc., and the effectiveness of implementation.

NT1 compliance audits

NT1 energy audits

RT accounting

RT debt collection

RT evaluation

RT inspection

RT licensing

RT management

RT quality assurance

RT us doe inspector general

RT verification

**AUFBAU PRINCIPLE**

UF aufbauprinzip

RT atoms

RT electronic structure

**aufbauprinzip**

USE aufbau principle

**AUFWUCHS**

INIS: 1993-07-12; ETDE: 1977-04-12

Organisms attached to or moving upon a submerged substrate.

UF periphyton

BT1 aquatic organisms

**AUGER EFFECT**

Includes all particles, processes, and spectra associated with the auger effect.

NT1 coster-kronig transitions

RT auger electron spectroscopy

RT autoionization

RT electron emission

RT energy-level transitions

RT inner-shell ionization

**AUGER ELECTRON SPECTROSCOPY**

\*BT1 electron spectroscopy

RT auger effect

**AUGER MINING**

INIS: 2000-04-12; ETDE: 1977-03-08

BT1 mining

RT hydraulic mining

RT mining engineering

RT mining equipment

RT surface mining

**AUGMENTATION**

INIS: 1985-12-10; ETDE: 1979-07-18

Increasing or making more numerous, larger, or more intense, e.g., augmentation of heat transfer.

UF increasing

RT expansion

RT growth

RT minimization

RT optimization

RT shrinkage

**aurabon process**

INIS: 2000-04-12; ETDE: 1982-05-12

Process for the catalytic conversion of heavy crudes and tars containing large quantities of asphaltenes and metals.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE refining

**aurates**

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE gold compounds

USE oxygen compounds

**aurin**

INIS: 2000-04-12; ETDE: 1996-02-27

(Prior to February 1996 this was a valid ETDE descriptor.)

USE polyphenols

USE triphenylmethane dyes

**aurintricarboxylic acid**

1996-10-22

(Prior to March 1997 ALUMINON was used for this concept in ETDE.)

USE hydroxy acids

USE triphenylmethane dyes

**AURORA FACILITY**

INIS: 1986-01-21; ETDE: 1985-09-24

Large KrF laser facility at Los Alamos.

RT antares facility

RT icf devices

RT inertial confinement

RT krypton fluoride lasers

RT lanl

RT laser fusion reactors

**AURORAE**

NT1 midday aurorae

NT1 polar-cap aurorae

RT airglow

RT auroral oval

RT auroral zones

RT charged-particle precipitation

RT electron precipitation

RT harang discontinuity

RT night sky

RT proton precipitation

RT trapped protons

**auroral electrojets**

USE electrojets

**AURORAL HISS**

\*BT1 electromagnetic radiation

RT ionosphere

RT whistlers

**AURORAL OVAL**

NT1 harang discontinuity

RT aurorae

RT auroral zones

RT charged-particle precipitation

RT electron precipitation

RT ionosphere

RT midday aurorae

RT polar-cap aurorae

RT polar cusp

RT proton precipitation

**auroral substorms**

USE magnetic bays

**AURORAL ZONES**

UF zones (auroral)

RT antarctic regions

RT arctic regions

RT aurorae

RT auroral oval

RT ionosphere

RT midday aurorae

RT polar-cap aurorae

**AUSTENITE**

A solid solution of carbon in gamma-iron.

\*BT1 carbon additions

\*BT1 iron alloys

RT austenitic steels

RT decarburization

RT iron-gamma

RT martensite

RT solid solutions

**AUSTENITIC STEELS**

INIS: 1996-11-13; ETDE: 1978-02-14

Steels having at room temperature a microstructure consisting, at least predominantly, of austenite. Their austenitic microstructure is attained above all by alloying conditions, e.g., Mn for Ni. (Prior to February, 1978 STEELS and AUSTENITE were used to index this concept in ETDE.)

UF stainless steel-330

UF steel-13cr6nimo

UF steel-40kh13n8g8

UF steel-cr13mn8ni8

UF steel-cr13ni6mo-1

UF steel-ni17cr14moti-1

UF steel-ni36cr18

\*BT1 steels

NT1 steel-cr15ni15motib

NT1 steel-cr16ni13monbv

NT1 steel-cr16ni15mo3nb

NT1 steel-cr16ni16monb

NT1 steel-cr16ni8mo2

NT2 stainless steel-16-8-2

NT1 steel-cr17ni12mo3

NT2 stainless steel-316

NT1 steel-cr17ni12mo3-1

NT2 stainless steel-316l

NT2 stainless steel-znd17-13

NT1 steel-cr17ni12monb

NT1 steel-cr17ni13

NT1 steel-cr17ni13mo2ti

NT1 steel-cr17ni13mo3ti

NT1 steel-cr17ni7

NT2 stainless steel-301

NT1 steel-cr18ni10

NT2 stainless steel-18-10

NT1 steel-cr18ni10-l

NT1 steel-cr18ni10ti

NT2 stainless steel-321

NT1 steel-cr18ni11

NT2 steel-x6crni1811

NT1 steel-cr18ni11nb

NT2 stainless steel-347

NT1 steel-cr18ni11nbco

NT2 stainless steel-348

NT1 steel-cr18ni12

NT2 stainless steel-305

NT1 steel-cr18ni12ti

NT1 steel-cr18ni8

NT2 stainless steel-18-8

NT1 steel-cr18ni9

NT2 stainless steel-302

NT1 steel-cr18ni9ti

NT1 steel-cr19ni10

NT2 stainless steel-304

NT1 steel-cr19ni10-l

NT2 stainless steel-304l

NT1 steel-cr20ni11

NT2 stainless steel-308

NT1 steel-cr20ni11-l

NT2 stainless steel-308l

NT1 steel-cr21mn9ni6

NT2 stainless steel-21-6-9

**NT1** steel-cr23ni14  
**NT2** stainless steel-309  
**NT2** stainless steel-309s  
**NT1** steel-cr23ni18  
**NT1** steel-cr25ni20  
**NT2** alloy-hk-40  
**NT2** stainless steel-310  
**NT1** steel-ni25cr20  
**NT2** stainless steel-20-25  
**NT1** steel-ni26cr15ti2movallb  
**NT2** alloy-a-286  
*RT* austenite  
*RT* corrosion resistant alloys  
*RT* heat resisting alloys

**AUSTRALASIA**

**NT1** australia  
**NT2** new south wales  
**NT2** northern territory  
**NT2** queensland  
**NT2** south australia  
**NT2** tasmania  
**NT2** victoria  
**NT2** western australia  
**NT1** new guinea  
**NT2** papua new guinea  
**NT1** new zealand

**AUSTRALIA**

1997-06-19  
*UF* bass strait  
**BT1** australasia  
**BT1** developed countries  
**NT1** new south wales  
**NT1** northern territory  
**NT1** queensland  
**NT1** south australia  
**NT1** tasmania  
**NT1** victoria  
**NT1** western australia  
*RT* mary kathleen mines  
*RT* new guinea  
*RT* oceania  
*RT* oecd  
*RT* rum jungle mine  
*RT* tasman sea  
*RT* timor sea

**australian atomic energy commission**

*INIS: 1996-01-30; ETDE: 1978-04-28*  
 USE ansto

**australian moata reactor**

USE moata reactor

**AUSTRALIAN ORGANIZATIONS**

*INIS: 1978-02-23; ETDE: 1977-05-07*  
**BT1** national organizations  
**NT1** ansto

**australian replacement research reactor**

2005-07-22  
 USE opal reactor

**australites**

USE tektites

**AUSTRIA**

1998-06-10  
**BT1** developed countries  
**\*BT1** western europe  
*RT* alps  
*RT* ctbto  
*RT* danube river  
*RT* iaea  
*RT* oecd  
*RT* rhine river  
*RT* unido

**AUSTRIAN ORGANIZATIONS**

*INIS: 1980-12-01; ETDE: 1981-01-09*  
**BT1** national organizations  
**NT1** seibersdorf research centre

**austrian research center seibersdorf**

*INIS: 1993-11-04; ETDE: 2002-06-07*  
 USE seibersdorf research centre

**austrian research reactor**

USE astra reactor

**austrian triga-mark-ii reactor**

2000-04-12  
 USE triga-2-vienna reactor

**austrian triga-mk-2 reactor**

*INIS: 1984-06-21; ETDE: 2002-06-07*  
 USE triga-2-vienna reactor

**AUTOCLAVES**

*RT* laboratory equipment  
*RT* pressure vessels

**AUTOHYDROLYSIS**

*INIS: 2000-04-12; ETDE: 1984-10-10*  
*The use of heat or steam in the pretreatment of biomass to enhance subsequent conversion processes.*

*UF* steam explosion process  
**BT1** heat treatments  
**\*BT1** hydrolysis  
*RT* biomass

**AUTOIONIZATION**

**BT1** ionization  
*RT* auger effect  
*RT* inner-shell ionization

**AUTOLYSIS**

**\*BT1** decomposition  
**NT1** autoradiolysis  
*RT* enzymes

**AUTOMATION**

*RT* computer-aided manufacturing  
*RT* distance  
*RT* dna sequencers  
*RT* man-machine systems  
*RT* reactor control systems  
*RT* remote handling  
*RT* work

**automobile efficiency standards**

*INIS: 2000-04-12; ETDE: 1979-03-28*  
 USE automobiles  
 USE efficiency  
 USE standards

**automobile exhaust reactors**

*INIS: 2000-04-12; ETDE: 1975-11-11*  
 USE afterburners

**automobile industry**

*INIS: 1992-03-25; ETDE: 1977-06-21*  
 USE automotive industry

**AUTOMOBILES**

1997-06-19  
*UF* automobile efficiency standards  
*UF* cars  
**BT1** vehicles  
*RT* afterburners  
*RT* automotive accessories  
*RT* carpooling  
*RT* catalytic converters  
*RT* exhaust gases  
*RT* exhaust recirculation systems  
*RT* ignition systems  
*RT* mechanical transmissions  
*RT* motor vehicle operators  
*RT* occupants

*RT* pcv systems  
*RT* rankine cycle engines  
*RT* road tests  
*RT* spark ignition engines  
*RT* stratified charge engines  
*RT* taxicabs  
*RT* vans

**AUTOMOTIVE ACCESSORIES**

*INIS: 2000-04-12; ETDE: 1981-09-22*  
*RT* air conditioning  
*RT* alternators  
*RT* automobiles  
*RT* blowers  
*RT* pumps

**AUTOMOTIVE FUELS**

1997-06-17  
**BT1** fuels  
*RT* alcohol fuels  
*RT* ethanol fuels  
*RT* fuel consumption  
*RT* gasohol  
*RT* gasoline  
*RT* gasoline service stations  
*RT* hydrogen fuels  
*RT* kerosene  
*RT* knock control  
*RT* liquid fuels  
*RT* methanol fuels

**AUTOMOTIVE INDUSTRY**

*INIS: 1992-03-25; ETDE: 1980-05-06*  
*UF* automobile industry  
**BT1** industry  
*RT* aaps

**AUTONOMIC NERVOUS SYSTEM**

*UF* parasympathetic nervous system  
*UF* sympathectomy  
*UF* sympathetic nervous system  
**BT1** nervous system  
**NT1** vagus  
*RT* autonomic nervous system agents  
*RT* ganglions  
*RT* hypothalamus  
*RT* parasympatholytics  
*RT* parasympathomimetics  
*RT* radiation syndrome  
*RT* sympatholytics  
*RT* sympathomimetics

**AUTONOMIC NERVOUS SYSTEM AGENTS**

*INIS: 1984-05-24; ETDE: 1981-04-20*  
**BT1** drugs  
**NT1** neuroregulators  
**NT2** acetylcholine  
**NT2** adrenaline  
**NT2** aminobutyric acid  
**NT2** dopa  
**NT2** dopamine  
**NT2** endorphins  
**NT3** enkephalins  
**NT2** noradrenaline  
**NT2** serotonin  
**NT3** bufotenine  
**NT1** parasympatholytics  
**NT2** atropine  
**NT2** nicotine  
**NT1** parasympathomimetics  
**NT2** acetylcholine  
**NT2** eserine  
**NT2** nicotine  
**NT2** pilocarpine  
**NT1** spiperone  
**NT1** sympatholytics  
**NT2** ergotamine  
**NT2** reserpine  
**NT1** sympathomimetics  
**NT2** adrenaline

NT2 amphetamines  
 NT3 benzedrine  
 NT2 dopamine  
 NT2 ephedrine  
 NT2 noradrenaline  
 NT2 serotonin  
 NT3 bufotenine  
 NT2 tyramine  
 RT autonomic nervous system

**AUTOPSY**

BT1 diagnostic techniques  
 RT biopsy  
 RT pathology

**autoradiographs**

USE images

**AUTORADIOGRAPHY**

UF alpha autoradiography  
 UF radioautography  
 UF radiography (auto)  
 RT ceramography  
 RT diagnostic techniques  
 RT industrial radiography  
 RT labelled compounds  
 RT nondestructive testing  
 RT nuclear emulsions  
 RT tracer techniques

**AUTORADIOLYSIS**

\*BT1 autolysis  
 \*BT1 radiolysis  
 RT labelled compounds  
 RT self-irradiation

**AUTOTHERMAL REFORMER PROCESSES**

INIS: 2000-04-12; ETDE: 1981-03-17  
*Air, steam, and hydrocarbon fuel are fed into a furnace and partial oxidation of the hydrocarbon provides the heat for steam reforming of the hydrocarbon.*  
 UF adiabatic reformer processes  
 \*BT1 reformer processes  
 RT hydrogen production  
 RT partial oxidation processes

**AUTOTROPHS**

INIS: 2000-04-12; ETDE: 1979-03-27  
*Organisms capable of synthesizing organic nutrients directly from simple inorganic substances such as carbon dioxide and inorganic nitrogen.*  
 RT microorganisms  
 RT single cell protein  
 RT synthetic fuels

**AUTUNITE**

\*BT1 phosphate minerals  
 \*BT1 uranium minerals

**AUXILIARY HEATING**

INIS: 1999-10-11; ETDE: 1975-10-01  
 \*BT1 space heating  
 RT auxiliary systems

**AUXILIARY SYSTEMS**

1985-12-10  
*May be used in any field.*  
 NT1 auxiliary water systems  
 NT2 condenser cooling systems  
 RT auxiliary heating  
 RT remote handling equipment

**AUXILIARY WATER SYSTEMS**

1976-04-03  
*For service water systems or other water systems not intended to be part of the cooling or moderating water system of a reactor.*  
 UF component cooling systems  
 UF refueling water systems

UF service water systems  
 BT1 auxiliary systems  
 NT1 condenser cooling systems  
 RT coolant loops  
 RT discharge canals  
 RT drinking water  
 RT feedwater  
 RT intake canals  
 RT reactor cooling systems

**AUXINS**

BT1 plant growth regulators  
 RT abscisic acid  
 RT gibberellic acid

**AVAILABILITY**

1999-03-19  
 UF supply  
 RT allocations  
 RT demand  
 RT domestic supplies  
 RT economics  
 RT energy sources  
 RT geologic deposits  
 RT inventories  
 RT ore composition  
 RT outages  
 RT production  
 RT shortages

**avalanche multiplication**

INIS: 1982-07-22; ETDE: 1982-08-06  
 USE townsend discharge

**AVALANCHE QUENCHING**

1978-07-03  
 UF quenching (avalanche)  
 RT geiger-mueller counters  
 RT ionization chambers  
 RT proportional counters  
 RT townsend discharge

**avena**

USE oats

**average magnetic well**

USE minimum average-b configurations

**avg process**

2000-04-12  
 USE coal gasification

**aviation fuels**

2000-04-12  
 SEE gasoline  
 SEE jet engine fuels

**AVIATION PERSONNEL**

BT1 personnel  
 RT astronauts  
 RT military personnel

**AVIDIN**

INIS: 2002-04-22; ETDE: 2002-05-01  
 \*BT1 glycoproteins

**avlis**

2001-03-06  
*Atomic Vapor Laser Isotope Separation.*  
 USE laser isotope separation

**AVOCADOS**

1983-06-30  
 \*BT1 fruits  
 RT fruit trees

**AVOGADRO RS-1 REACTOR**

Saluggia, Italy.  
 UF arsi reactor  
 UF rsi avogadro reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors

\*BT1 thermal reactors

**AVOIDANCE**

*Limited to living systems.*  
 BT1 behavior  
 RT conditioned reflexes

**AVR REACTOR**

Juelich, Federal Republic of Germany.  
 UF arbeitsgemeinschaft versuchsreaktor  
 \*BT1 enriched uranium reactors  
 \*BT1 helium cooled reactors  
 \*BT1 htgr type reactors  
 \*BT1 pebble bed reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors  
 \*BT1 thorium reactors

**AWARDS**

INIS: 2000-04-12; ETDE: 1981-01-27  
*Recognition of outstanding achievement or performance.*  
 UF enrico fermi award  
 UF ernest orlando lawrence award

**AWAY-FROM-REACTOR STORAGE**

INIS: 1980-04-02; ETDE: 1979-05-02  
 UF afr storage  
 \*BT1 spent fuel storage  
 RT after-heat  
 RT dry storage  
 RT fuel storage pools  
 RT waste transportation

**axerophthol**

USE vitamin a

**AXIAL RATIO**

BT1 dimensionless numbers  
 RT crystal structure

**AXIAL SYMMETRY**

BT1 symmetry  
 RT kerr field  
 RT rotational invariance

**AXIAL-VECTOR CURRENTS**

\*BT1 algebraic currents  
 RT pcac theory  
 RT v-a theory  
 RT vector currents

**AXIAL VECTOR MESONS**

INIS: 1995-08-07; ETDE: 1988-01-25  
*Mesons with spin and parity 1+.*  
 UF pseudovector mesons  
 \*BT1 mesons  
 NT1 a1-1260 mesons  
 NT1 b1-1235 mesons  
 NT1 chi b1-9890 mesons  
 NT1 chi1-3510 mesons  
 NT1 d s-2536 mesons  
 NT1 d1-2420 mesons  
 NT1 f1-1285 mesons  
 NT1 f1-1420 mesons  
 NT1 f1-1510 mesons  
 NT1 h1-1170 mesons  
 NT1 k1-1270 mesons  
 NT1 k1-1400 mesons

**AXIOMATIC FIELD THEORY**

INIS: 1977-11-21; ETDE: 1978-03-08  
 UF axiomatic s-matrix theory  
 UF general quantum field theory  
 UF non lagrangian quantum field theory  
 \*BT1 quantum field theory  
 NT1 algebraic field theory  
 NT1 lsz theory  
 NT1 wightman field theory

**axiomatic s-matrix theory**

INIS: 1977-11-21; ETDE: 1978-03-08  
USE axiomatic field theory

**AXIONS**

INIS: 1978-08-14; ETDE: 1978-10-19  
\*BT1 goldstone bosons

**axolotl**

1997-01-28  
(Until October 1996 this was a valid descriptor.)  
USE salamanders

**axons**

USE nerve cells

**AZAARENES**

INIS: 1994-06-27; ETDE: 1983-02-09  
UF polycyclic nitrogen heterocycles  
\*BT1 aromatics  
\*BT1 heterocyclic compounds  
\*BT1 organic nitrogen compounds  
NT1 acridines  
NT2 acridine orange  
NT2 flavines  
NT3 acriflavine  
NT3 proflavine  
NT1 carbazoles  
NT1 indoles  
NT2 indigo  
NT2 indocyanine green  
NT2 lysergic acid  
NT2 reserpine  
NT2 strychnine  
NT2 tryptamines  
NT3 melatonin  
NT3 serotonin  
NT4 bufotenine  
NT2 tryptophan  
NT2 vinblastine  
NT1 phenanthrolines  
NT2 ferroin  
NT2 phenanthroline-ortho  
NT1 pteridines  
NT2 aminopterin  
NT2 folic acid  
NT1 purines  
NT2 adenines  
NT3 kinetin  
NT2 guanine  
NT2 guanosine  
NT2 hypoxanthine  
NT2 inosine  
NT2 mercaptopurine  
NT2 xanthines  
NT3 caffeine  
NT3 theobromine  
NT3 theophylline  
NT3 uric acid  
NT1 quinolines  
NT2 ferron  
NT2 oxine  
NT2 quinaldine  
RT polycyclic aromatic hydrocarbons

**azaguanine**

ETDE: 1981-04-20  
(Prior to April 1994, this was a valid ETDE descriptor.)  
USE antimetabolites

**AZBEL-KANER RESONANCE**

A type of cyclotron resonance in high-purity metals at liquid helium temperature.  
\*BT1 cyclotron resonance  
RT metals

**AZEOTROPE**

RT boiling points  
RT distillation

**AZERBAIJAN**

INIS: 1997-08-20; ETDE: 1993-04-08  
(Until January 1993, this was indexed by USSR.)

SF soviet union  
SF union of soviet socialist republics  
SF ussr  
BT1 asia  
RT caspian sea  
RT caucasus

**AZGIR TEST SITE**

1999-01-25  
BT1 nuclear test sites  
RT nuclear explosions  
RT nuclear weapons

**AZIDES**

For inorganic compounds only. For organic azides, use AZIDO COMPOUNDS.

BT1 nitrogen compounds  
RT azido compounds  
RT hydrazoic acid

**AZIDO COMPOUNDS**

\*BT1 organic nitrogen compounds  
RT azides

**azimuth**

INIS: 2000-04-12; ETDE: 1975-12-16  
(Prior to February 1997 this was a valid ETDE descriptor.)  
SEE coordinates  
SEE orientation  
SEE space dependence

**azimuthal pinch devices (linear)**

USE linear theta pinch devices

**AZINES**

Compounds that contain a six-membered heterocyclic ring containing one or more nitrogen atoms.

\*BT1 heterocyclic compounds  
\*BT1 organic nitrogen compounds  
NT1 phenothiazines  
NT2 chlorpromazine  
NT2 methylene blue  
NT1 pyrazines  
NT2 phenazine  
NT2 piperazines  
NT1 pyridazines  
NT2 phthalazines  
NT3 luminol  
NT1 pyridines  
NT2 acridines  
NT3 acridine orange  
NT3 flavines  
NT4 acriflavine  
NT4 proflavine  
NT2 bipyridines  
NT2 nicotinamide  
NT2 nicotine  
NT2 nicotinic acid  
NT2 picolines  
NT3 picolinic acid  
NT2 piperidines  
NT3 dipyridamole  
NT3 pethidine  
NT3 triacetoneamine-n-oxyl  
NT2 pyridine  
NT2 pyridinium compounds  
NT2 pyridoxal  
NT2 pyridoxine  
NT2 pyridoxylideneglutamate  
NT2 pyridylazonaphthol  
NT2 pyridylazoresorcinol  
NT2 quinolines  
NT3 ferron  
NT3 oxine

NT3 quinaldine  
NT1 pyrimidines  
NT2 alloxan  
NT2 barbiturates  
NT3 nembutal  
NT3 phenobarbital  
NT2 cytidine  
NT2 cytosine  
NT2 deoxycytidine  
NT2 thiamine  
NT2 thymidine  
NT2 uracils  
NT3 bromouracils  
NT4 budr  
NT3 chlorouracils  
NT3 deoxyuridine  
NT3 fluorouracils  
NT4 fudr  
NT3 iodouracils  
NT4 iododeoxyuridine  
NT3 orotic acid  
NT3 thiouracil  
NT3 thymine  
NT3 uridine  
NT1 triazines  
NT2 cyanurates  
NT2 melamine

**AZO COMPOUNDS**

UF cycasin  
\*BT1 organic nitrogen compounds  
NT1 arsenazo  
NT1 azo dyes  
NT2 eriochrome dyes  
NT2 evans blue  
NT2 methyl orange  
NT2 methyl red  
NT2 toluidine blue  
NT2 trypan blue

**AZO DYES**

1996-10-22  
UF acid chrome dyes  
UF beryllon  
UF congo red  
UF dsnadns  
UF erioglaucine  
\*BT1 azo compounds  
BT1 dyes  
NT1 eriochrome dyes  
NT1 evans blue  
NT1 methyl orange  
NT1 methyl red  
NT1 toluidine blue  
NT1 trypan blue  
RT diazo compounds

**AZOLES**

Compounds that contain a five-membered heterocyclic ring containing one or more nitrogen atoms.

\*BT1 heterocyclic compounds  
\*BT1 organic nitrogen compounds  
NT1 carbazoles  
NT1 imidazoles  
NT2 allantoin  
NT2 benzimidazoles  
NT2 biotin  
NT2 creatinine  
NT2 histamine  
NT2 histidine  
NT2 hydantoins  
NT2 metronidazole  
NT2 misonidazole  
NT2 urocanic acid  
NT1 oxadiazoles  
NT1 oxazoles  
NT2 benzoxazoles  
NT2 popop  
NT1 pyrazoles

**NT2** indazoles  
**NT2** pyrazolines  
**NT3** antipyrine  
**NT1** pyrroles  
**NT2** bilirubin  
**NT2** indoles  
**NT3** indigo  
**NT3** indocyanine green  
**NT3** lysergic acid  
**NT3** reserpine  
**NT3** strychnine  
**NT3** tryptamines  
**NT4** melatonin  
**NT4** serotonin  
**NT5** bufotenine  
**NT3** tryptophan  
**NT3** vinblastine  
**NT2** pyrrolidines  
**NT3** hydroxyproline  
**NT3** nicotine  
**NT3** proline  
**NT2** pyrrolidones  
**NT3** pvp  
**NT1** tetrazoles  
**NT2** tetrazolium  
**NT1** thiadiazoles  
**NT1** thiazoles  
**NT2** benzothiazoles  
**NT2** saccharin  
**NT2** thiamine  
**NT1** triazoles

**azolla**

*INIS: 1993-05-28; ETDE: 2002-06-07*  
 USE aquatic organisms  
 USE ferns

**azomide**

*INIS: 1988-06-22; ETDE: 1988-07-15*  
 USE hydrazoic acid

**AZORES ISLANDS**

2000-04-12  
 BT1 islands  
 \*BT1 portugal

**AZOTOBACTER**

\*BT1 bacteria

**AZULENE**

\*BT1 hydrocarbons

**b-1235 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE b1-1235 mesons

**B C MESONS**

1998-12-15  
 \*BT1 beauty mesons  
 \*BT1 charmed mesons  
 \*BT1 pseudoscalar mesons  
 RT quarkonium

**b centers**

2000-04-12  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE color centers

**B CODES**

BT1 computer codes

**B MESONS**

*INIS: 1995-08-07; ETDE: 1984-06-29*  
 The 'Bottom' or 'Beauty' meson with mass approx. 5270 MeV.  
 \*BT1 beauty mesons  
 \*BT1 pseudoscalar mesons  
**NT1** b minus mesons  
**NT1** b neutral mesons

**NT2** anti-b neutral mesons  
**NT1** b plus mesons

**B MINUS MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 \*BT1 b mesons

**B NEUTRAL MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 \*BT1 b mesons  
**NT1** anti-b neutral mesons

**B PLUS MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 \*BT1 b mesons

**B QUARKS**

*INIS: 1995-09-08; ETDE: 1995-10-03*  
 \*BT1 beauty particles  
 \*BT1 quarks  
 RT bottomonium

**B S MESONS**

1995-07-17  
 \*BT1 beauty mesons  
 \*BT1 pseudoscalar mesons  
 \*BT1 strange mesons

**B\*-5325 MESONS**

*INIS: 1995-08-07; ETDE: 1988-02-02*  
 \*BT1 beauty mesons  
 \*BT1 vector mesons

**B1-1235 MESONS**

*INIS: 1987-12-21; ETDE: 1988-01-28*  
 (Prior to December 1987 this concept was indexed by B-1235RESONANCES.)  
 UF b-1235 resonances  
 \*BT1 axial vector mesons

**BABCOCK AND WILCOX-DUPONT PROCESS**

*INIS: 2000-04-12; ETDE: 1977-05-07*  
 Entrained oxygen-blown coal gasification system, utilizing a design to remove bulk of slag from ash and to cool remainder by passage through a water-wall chamber above the coal feed point, is capable of operation at elevated pressures and designed to tolerate molten coal ash.  
 \*BT1 coal gasification  
 RT entrainment

**babcock and wilcox lpr reactor**

2000-04-12  
 USE lpr reactor

**babcock and wilcox standard reactor**

1993-11-04  
 USE bw standard reactor

**babcock and wilcox test reactor**

1993-11-04  
 USE bawtr reactor

**BABESIDAE**

\*BT1 sporozoa  
 RT erythrocytes

**BABOONS**

1985-12-11  
 (Prior to 1986 APES was used for this concept.)  
 \*BT1 monkeys

**BACA GEOTHERMAL FIELD**

*INIS: 2000-04-12; ETDE: 1981-01-09*  
**BT1** geothermal fields  
 RT geothermal hot-water systems  
 RT new mexico

**bach-tamaid theory**

1996-06-26  
 (Until June 1996 this was a valid descriptor.)  
 SEE particle structure

**BACILLUS**

UF *ferrobacillus ferrooxidans*  
 \*BT1 bacteria  
**NT1** bacillus cereus  
**NT1** bacillus licheniformis  
**NT1** bacillus megaterium  
**NT1** bacillus subtilis  
**NT1** thiobacillus ferrooxidans  
**NT1** thiobacillus oxidans

**BACILLUS CEREUS**

\*BT1 bacillus

**BACILLUS LICHENIFORMIS**

*INIS: 1993-07-13; ETDE: 1986-01-14*  
 \*BT1 bacillus  
 RT microbial eor

**BACILLUS MEGATERIUM**

1975-12-19  
 \*BT1 bacillus

**BACILLUS SUBTILIS**

\*BT1 bacillus

**BACK CONTACT SOLAR CELLS**

*INIS: 1992-05-28; ETDE: 1980-06-06*  
 \*BT1 solar cells

**BACKBENDING**

*INIS: 1977-03-01; ETDE: 1977-04-12*  
 The sudden increase of the moment of inertia of deformed nuclei at a critical angular momentum.

RT angular momentum  
 RT coriolis force  
 RT deformed nuclei  
 RT high spin states  
 RT moment of inertia  
 RT nuclear structure  
 RT rotation  
 RT rotational states  
 RT vmi model  
 RT yrast states

**BACKFILLING**

*INIS: 1983-10-14; ETDE: 1976-02-19*  
 RT coal mines  
 RT land reclamation  
 RT mines  
 RT radioactive waste disposal  
 RT radionuclide migration  
 RT stowing  
 RT underground disposal  
 RT waste-rock interactions

**backfitting**

*INIS: 1979-04-27; ETDE: 2002-06-13*  
 USE retrofitting

**BACKGROUND NOISE**

BT1 noise  
 RT radio noise

**BACKGROUND RADIATION**

UF *terrestrial background*  
 BT1 radiations  
 RT cosmic radiation  
 RT natural radioactivity  
 RT relic radiation

**backlund transformation**

*INIS: 1984-04-04; ETDE: 2002-06-13*  
 USE baeklund transformation

**BACKSCATTERING**

BT1 scattering  
 RT albedo-neutron dosimeters

RT angular distribution  
 RT reflection  
 RT rutherford backscattering spectroscopy

**BACKWARD WAVE TUBES**

\*BT1 microwave tubes

**bacon**

USE meat

**BACTERIA**

1997-06-17

UF cells (bacterial)  
 BT1 microorganisms  
 NT1 actinomyces  
 NT2 frankia  
 NT1 aerobacter  
 NT1 aeromonas  
 NT1 azotobacter  
 NT1 bacillus  
 NT2 bacillus cereus  
 NT2 bacillus licheniformis  
 NT2 bacillus megaterium  
 NT2 bacillus subtilis  
 NT2 thiobacillus ferrooxidans  
 NT2 thiobacillus oxidans  
 NT1 brucella  
 NT1 clostridium  
 NT2 clostridium acetobutylicum  
 NT2 clostridium botulinum  
 NT2 clostridium butyricum  
 NT2 clostridium perfringens  
 NT2 clostridium thermocellum  
 NT2 clostridium thermosaccharolyticum  
 NT1 coliforms  
 NT1 corynebacterium fascians  
 NT1 corynebacterium parvum  
 NT1 escherichia coli  
 NT1 haemophilus  
 NT1 klebsiella  
 NT1 lactobacillus  
 NT1 legionella anisa  
 NT1 legionella pneumophila  
 NT1 meningococcus  
 NT1 methanogenic bacteria  
 NT2 clostridium acetobutylicum  
 NT1 methanotrophic bacteria  
 NT1 micrococcus  
 NT2 micrococcus luteus  
 NT2 micrococcus lysodeicticus  
 NT2 micrococcus radiodurans  
 NT1 mycobacterium  
 NT2 mycobacterium tuberculosis  
 NT1 nocardia  
 NT1 photosynthetic bacteria  
 NT2 rhodospseudomonas  
 NT2 rhodospirillum  
 NT1 pneumococcus  
 NT1 proteus  
 NT1 pseudomonas  
 NT1 rhizobium  
 NT1 salmonella  
 NT2 salmonella typhimurium  
 NT1 serratia  
 NT1 shigella  
 NT1 spirochaetes  
 NT1 staphylococcus  
 NT1 streptococcus  
 NT1 streptomyces  
 NT1 sulfate-reducing bacteria  
 NT2 desulfovibrio  
 NT1 sulfur-oxidizing bacteria  
 NT2 rhodococcus  
 NT2 thiobacillus ferrooxidans  
 NT2 thiobacillus oxidans  
 NT1 thermoactinomyces  
 NT1 zymomonas mobilis  
 RT bacterial diseases  
 RT bacterial spores

RT bacteriophages  
 RT disinfectants  
 RT endotoxins  
 RT germ-free animals  
 RT germicides  
 RT host-cell reactivation  
 RT infectivity  
 RT mycoplasma  
 RT nitrogen fixation  
 RT plankton  
 RT toxins  
 RT vaccines

**BACTERIAL DISEASES**

INIS: 1996-07-18; ETDE: 1981-01-12

UF paratyphoid  
 \*BT1 infectious diseases  
 NT1 cholera  
 NT1 diphtheria  
 NT1 gonorrhea  
 NT1 leprosy  
 NT1 syphilis  
 NT1 tetanus  
 NT1 tuberculosis  
 NT1 typhoid  
 RT antibiotics  
 RT bacteria  
 RT legionella anisa  
 RT legionella pneumophila

**BACTERIAL SPORES**

BT1 spores  
 RT bacteria  
 RT preservation  
 RT sterilization

**bactericides**

INIS: 2000-04-12; ETDE: 1980-03-04

USE germicides

**BACTERIOPHAGES**

1997-06-17

UF phages  
 \*BT1 viruses  
 RT bacteria  
 RT cosmids  
 RT host-cell reactivation  
 RT plaque formation

**BADDELEYITE**

\*BT1 oxide minerals  
 \*BT1 radioactive minerals  
 RT caldasite  
 RT hafnium oxides  
 RT zirconium oxides

**BAECKLUND TRANSFORMATION**

1980-05-14

UF backlund transformation  
 BT1 transformations  
 RT nonlinear problems  
 RT solitons

**baer walls**

INIS: 2000-04-12; ETDE: 1979-02-27

USE drum walls

**BAFFLED TUBES**

BT1 tubes  
 RT baffles

**BAFFLES**

INIS: 1985-12-10; ETDE: 1976-11-17

Plates that regulate the flow of a fluid, e.g. in heat exchangers.

\*BT1 flow regulators  
 RT baffled tubes  
 RT diffusers  
 RT fluid flow

**BAG MODEL**

INIS: 1976-03-02; ETDE: 1975-11-28

A relativistic particle model in which some hadronic fields are confined within a finite region of space by the action of a uniform phenomenological external pressure.

UF quark confinement  
 \*BT1 extended particle model  
 \*BT1 quark model  
 RT quantum chromodynamics

**BAGASSE**

INIS: 1999-07-07; ETDE: 1976-01-23

\*BT1 agricultural wastes  
 RT cellulose

**baghdad wwr-s reactor**

INIS: 1984-06-21; ETDE: 2002-06-13

USE irt-baghdad reactor

**BAGHOUSES**

INIS: 1991-09-19; ETDE: 1978-03-03

A structure for holding bag filters for removing suspended dusts and fumes from airstreams.

\*BT1 pollution control equipment  
 RT air pollution control  
 RT fabric filters

**BAHAMA ISLANDS**

BT1 developing countries  
 \*BT1 west indies  
 RT atlantic ocean

**BAHRAIN**

INIS: 1982-12-03; ETDE: 1976-10-13

BT1 arab countries  
 BT1 asia  
 BT1 developing countries  
 BT1 islands  
 BT1 middle east  
 RT oapec

**baille process**

INIS: 2000-04-12; ETDE: 1976-07-07

Fluidized-bed pyrolysis process using air for conversion of municipal solid waste into intermediate btu gas.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE waste processing

**BAILLY-1 REACTOR**

Northern Indiana Public Service Co., Baillytown, Indiana, USA. Canceled in 1981 before construction began.

\*BT1 bwr type reactors

**BAINITE**

RT martensite  
 RT steels

**BAKELITE**

\*BT1 plastics  
 RT formaldehyde  
 RT phenols  
 RT resins

**BAKING**

BT1 heating

**baking (food)**

INIS: 1984-04-04; ETDE: 2002-06-13

USE food processing

**bal (british anti-lewisite)**

ETDE: 2005-02-01

(Prior to January 2005 BAL was a valid descriptor.)

USE dimercaprol

**BALAKOVO-1 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

\*BT1 wwer type reactors

**BALAKOVO-2 REACTOR**

INIS: 1986-12-09; ETDE: 1987-02-24

\*BT1 wwer type reactors

**BALAKOVO-3 REACTOR**

1998-10-21

\*BT1 wwer type reactors

**BALAKOVO-4 REACTOR**

2002-08-13

\*BT1 wwer type reactors

**balance (energy)**

USE energy balance

**balance (mass)**

USE mass balance

**balance of power**

INIS: 2000-04-12; ETDE: 1986-02-03

(Prior to February 1997 this was a valid ETDE descriptor.)

USE international relations

**BALANCES**

\*BT1 weight indicators

NT1 microbalances

**balances (magnetic)**

USE magnetic balances

**balescu theory**

USE prigogine theorem

**BALL BEARINGS**

BT1 bearings

**BALL LIGHTNING**

\*BT1 lightning

**BALLASTS**

INIS: 2000-04-12; ETDE: 1979-02-23

Devices that limit the current of fluorescent or mercury lamps to the required value for proper operation.

RT fluorescent lamps

RT lighting systems

**BALLISTIC MISSILE DEFENSE**

INIS: 1994-09-08; ETDE: 1984-11-29

UF strategic defense initiative

BT1 national defense

RT directed-energy weapons

RT national security

RT nuclear weapons

RT space weapons

**BALLOONING INSTABILITY**

INIS: 1979-05-28; ETDE: 1979-08-07

\*BT1 plasma macroinstabilities

**BALLOONS**

1999-01-25

BT1 aircraft

**BALMER LINES**

Includes all aspects of the transitions associated with balmer lines.

UF balmer spectra

UF h-alpha line

UF h-beta line

UF h-gamma line

RT hydrogen

RT rydberg correction

RT spectra

**balmer spectra**

USE balmer lines

**BALNEOLOGY**

The science of the healing qualities of baths, esp. with natural mineral waters.

BT1 medicine

RT therapy

RT water

**BALTIC SEA**

\*BT1 seas

**BALTIMORE CANYON**

INIS: 2000-04-12; ETDE: 1978-12-11

Depression off Middle Atlantic States.

\*BT1 atlantic ocean

**bamag process**

INIS: 2000-04-12; ETDE: 1977-04-12

German process uses a proprietary catalyst to reduce sulfur dioxide to elemental sulfur using a medium btu town gas derived from a coking process and consisting of hydrogen, methane and carbon monoxide.

(Prior to September 1994, this was a valid

ETDE descriptor.)

USE waste processing

**BAMBOO**

INIS: 1991-12-16; ETDE: 1985-11-19

\*BT1 gramineae

**bambp**

1996-06-26

Butyl-alpha-methylbenzylphenol.

(Until June 1996 this was a valid descriptor.)

USE phenols

**BANACH SPACE**

\*BT1 mathematical space

NT1 hilbert space

RT vectors

**BANANA PLANTS**

INIS: 1975-12-09; ETDE: 1976-01-26

\*BT1 liliopsida

RT bananas

RT fruit trees

**BANANA REGIME**

A specific mechanism of particle trapping in toroidal devices.

BT1 trapping

RT neoclassical transport theory

RT stellarators

RT tokamak devices

RT toroidal pinch devices

RT trapped-particle instability

**BANANAS**

\*BT1 fruits

RT banana plants

RT fruit trees

**BAND THEORY**

RT brillouin zones

RT electronic structure

RT energy gap

RT energy-level transitions

RT fermi level

RT graded band gaps

RT hubbard model

RT wigner-seitz method

**BANDING TECHNIQUES**

INIS: 1978-04-21; ETDE: 1978-07-06

Techniques for making chromosomal aberrations visible.

BT1 cytological techniques

RT biological localization

RT chromosomal aberrations

RT chromosomes

RT genetic mapping

RT human chromosomes

RT stains

**baneberry event**

1994-10-13

A test made during OPERATION EMERY.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**BANGKOK TREATY**

1999-01-26

Treaty for the prohibition of nuclear weapons in South-East Asia.

BT1 treaties

RT arms control

RT nuclear weapons

**BANGLADESH**

UF east pakistan

UF pakistan (east)

BT1 asia

BT1 developing countries

RT ganga river

**BANGLADESH ORGANIZATIONS**

INIS: 1983-07-15; ETDE: 1983-09-15

BT1 national organizations

**bank accounts**

INIS: 2000-04-12; ETDE: 1983-05-21

SEE financing

**banks**

INIS: 2000-04-12; ETDE: 1981-01-09

USE commercial buildings

**banon event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**BARBADOS**

INIS: 1992-06-12; ETDE: 1979-12-10

\*BT1 lesser antilles

**BARBITURATES**

1996-10-23

(Prior to August 1996 AMYTAL was a valid ETDE descriptor.)

UF amobarbital

UF amytal

UF barbituric acid

UF pentothal

UF thiopental

\*BT1 anesthetics

\*BT1 hypnotics and sedatives

\*BT1 organic oxygen compounds

\*BT1 pyrimidines

NT1 nembutal

NT1 phenobarbital

**barbituric acid**

USE barbiturates

**BARC**

UF bhabha atomic research center

\*BT1 indian organizations

**barcelona argonaut reactor**

USE argos reactor

**bardeen-cooper-schrieffer theory**

USE bcs theory

**BARGES**

INIS: 1992-05-08; ETDE: 1977-01-10

RT navigation

RT ships

RT transport



**BARITE**

*A white, yellow, or colorless orthorhombic mineral.*

- \*BT1 sulfate minerals
- RT barium sulfates

**BARIUM**

- \*BT1 alkaline earth metals

**BARIUM 114**

*1995-06-29*

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 carbon 12 decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**BARIUM 115**

*1995-06-29*

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**BARIUM 116**

*1995-06-29*

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**BARIUM 117**

*INIS: 1977-06-14; ETDE: 1976-01-07*

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**BARIUM 118**

*1995-06-29*

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**BARIUM 119**

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**BARIUM 120**

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**BARIUM 121**

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**BARIUM 122**

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**BARIUM 123**

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**BARIUM 124**

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**BARIUM 125**

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

**BARIUM 126**

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei

**BARIUM 127**

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 seconds living radioisotopes

**BARIUM 127 TARGET**

*INIS: 1992-09-22; ETDE: 1977-05-07*

- BT1 targets

**BARIUM 128**

- \*BT1 barium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei

**BARIUM 129**

- \*BT1 barium isotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei

**BARIUM 130**

- \*BT1 barium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**BARIUM 130 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**BARIUM 131**

- \*BT1 barium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes

**BARIUM 132**

- \*BT1 barium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**BARIUM 133**

- \*BT1 barium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 years living radioisotopes

**BARIUM 134**

- \*BT1 barium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**BARIUM 134 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**BARIUM 135**

- \*BT1 barium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes

**BARIUM 135 TARGET**

*INIS: 1977-04-07; ETDE: 1977-03-04*

- BT1 targets

**BARIUM 136**

- \*BT1 barium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 stable isotopes

**BARIUM 136 TARGET**

*INIS: 1976-02-11; ETDE: 1976-07-12*

- BT1 targets

**BARIUM 137**

- \*BT1 barium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 stable isotopes

**BARIUM 137 TARGET**

*INIS: 1977-04-07; ETDE: 1977-06-02*

- BT1 targets

**BARIUM 138**

- \*BT1 barium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 stable isotopes

**BARIUM 138 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**BARIUM 139**

- \*BT1 barium isotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei

**BARIUM 139 TARGET***INIS: 1975-10-23; ETDE: 1976-07-09*

BT1 targets

**BARIUM 140**

\*BT1 barium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei

**BARIUM 141**

\*BT1 barium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

**BARIUM 142**

\*BT1 barium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

**BARIUM 143**

\*BT1 barium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

**BARIUM 144**

\*BT1 barium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

**BARIUM 145**

\*BT1 barium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

**BARIUM 146**

\*BT1 barium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

**BARIUM 147***INIS: 1977-06-13; ETDE: 1977-10-19*

\*BT1 barium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

**BARIUM 148***INIS: 1977-06-13; ETDE: 1976-03-25*

\*BT1 barium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

**BARIUM 149***1986-01-21*

\*BT1 barium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

**BARIUM ADDITIONS***Alloys containing not more than 1% Ba are listed here.*

\*BT1 barium alloys

**BARIUM ALLOYS***Alloys containing more than 1% Ba.*

BT1 alloys  
 NT1 barium additions  
 NT1 barium base alloys

**BARIUM BASE ALLOYS**

\*BT1 barium alloys

**BARIUM BORIDES**

\*BT1 barium compounds  
 \*BT1 borides

**BARIUM BROMIDES**

\*BT1 barium compounds  
 \*BT1 bromides

**BARIUM CARBIDES**

\*BT1 barium compounds  
 \*BT1 carbides

**BARIUM CARBONATES**

\*BT1 barium compounds  
 \*BT1 carbonates

**BARIUM CHLORIDES**

\*BT1 barium compounds  
 \*BT1 chlorides

**BARIUM COMPLEXES**

\*BT1 alkaline earth metal complexes

**BARIUM COMPOUNDS**

BT1 alkaline earth metal compounds  
 NT1 barium borides  
 NT1 barium bromides  
 NT1 barium carbides  
 NT1 barium carbonates  
 NT1 barium chlorides  
 NT1 barium fluorides  
 NT1 barium hydrides  
 NT1 barium hydroxides  
 NT1 barium iodides  
 NT1 barium nitrates  
 NT1 barium nitrides  
 NT1 barium oxides  
 NT1 barium perchlorates  
 NT1 barium phosphates  
 NT1 barium silicates  
 NT1 barium sulfates  
 NT1 barium sulfides  
 NT1 barium tungstates

**BARIUM FLUORIDES**

\*BT1 barium compounds  
 \*BT1 fluorides

**BARIUM HYDRIDES**

\*BT1 barium compounds  
 \*BT1 hydrides

**BARIUM HYDROXIDES**

\*BT1 barium compounds  
 \*BT1 hydroxides

**BARIUM IODIDES**

\*BT1 barium compounds  
 \*BT1 iodides

**BARIUM IONS**

\*BT1 ions

**BARIUM ISOTOPES***1999-02-01*

\*BT1 alkaline earth isotopes  
 NT1 barium 114  
 NT1 barium 115  
 NT1 barium 116  
 NT1 barium 117  
 NT1 barium 118  
 NT1 barium 119  
 NT1 barium 120  
 NT1 barium 121

NT1 barium 122

NT1 barium 123

NT1 barium 124

NT1 barium 125

NT1 barium 126

NT1 barium 127

NT1 barium 128

NT1 barium 129

NT1 barium 130

NT1 barium 131

NT1 barium 132

NT1 barium 133

NT1 barium 134

NT1 barium 135

NT1 barium 136

NT1 barium 137

NT1 barium 138

NT1 barium 139

NT1 barium 140

NT1 barium 141

NT1 barium 142

NT1 barium 143

NT1 barium 144

NT1 barium 145

NT1 barium 146

NT1 barium 147

NT1 barium 148

NT1 barium 149

**BARIUM NITRATES**

\*BT1 barium compounds  
 \*BT1 nitrates

**BARIUM NITRIDES**

\*BT1 barium compounds  
 \*BT1 nitrides

**BARIUM OXIDES**

\*BT1 barium compounds  
 \*BT1 oxides  
*RT* billietite  
*RT* heinrichite  
*RT* hollandite  
*RT* oxide minerals

**BARIUM PERCHLORATES***INIS: 1983-10-14; ETDE: 1975-11-11*

\*BT1 barium compounds  
 \*BT1 perchlorates

**BARIUM PHOSPHATES**

\*BT1 barium compounds  
 \*BT1 phosphates  
*RT* phosphate minerals

**BARIUM SILICATES**

\*BT1 barium compounds  
 \*BT1 silicates

**BARIUM SULFATES***1996-11-13*

\*BT1 barium compounds  
 \*BT1 sulfates  
*RT* barite  
*RT* sulfate minerals

**BARIUM SULFIDES**

\*BT1 barium compounds  
 \*BT1 sulfides

**BARIUM TUNGSTATES***INIS: 1978-02-23; ETDE: 1976-03-11*

\*BT1 barium compounds  
 \*BT1 tungstates

**BARK***INIS: 1986-07-09; ETDE: 1985-12-11*

BT1 plant tissues  
*RT* cork  
*RT* lignin  
*RT* plant stems  
*RT* solid fuels

*RT* trees  
*RT* wood wastes

**BARLEY**  
*UF* *hordeum*  
 \*BT1 cereals

**BARN REACTOR**  
*Institute for Atomic Sciences in Agriculture, Wageningen, Netherlands.*  
*UF* *wageningen barn reactor*  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors

**BARNWELL FUEL PROCESSING PLANT**  
 \*BT1 fuel reprocessing plants

**BAROMETERS**  
 \*BT1 pressure gages

**barrier layer**  
*INIS: 2000-04-12; ETDE: 1980-03-04*  
 SEE depletion layer

**barriers**  
*1996-04-18*  
 SEE diffusion barriers  
 SEE ventilation barriers

**BARSEBAECK-1 REACTOR**  
*Barsebaeck, Malmo, Sweden.*  
*UF* *sydsvenska kraft ab reactor 1*  
 \*BT1 bwr type reactors

**BARSEBAECK-2 REACTOR**  
*INIS: 1978-04-21; ETDE: 1978-07-06*  
*Barsebaeck, Malmo, Sweden.*  
*UF* *sydsvenska kraft ab reactor 2*  
 \*BT1 bwr type reactors

**BARSTOW SOLAR PILOT PLANT**  
*INIS: 2000-04-12; ETDE: 1980-01-24*  
*10-mw solar central receiver pilot plant at Barstow, California.*  
*UF* *solar one power plant*  
 \*BT1 pilot plants  
 \*BT1 tower focus power plants

**BARTLESVILLE ENERGY TECHNOLOGY CENTER**  
*INIS: 2000-04-12; ETDE: 1978-10-23*  
 \*BT1 us doe

**BARTON-1 REACTOR**  
*Alabama Power and Light, USA. Canceled in 1977 before construction began.*  
 \*BT1 bwr type reactors

**BARTON-2 REACTOR**  
*Alabama Power and Light, USA. Canceled in 1977 before construction began.*  
 \*BT1 bwr type reactors

**BARTON-3 REACTOR**  
*Alabama Power and Light, USA. Canceled in 1975 before construction began.*  
 \*BT1 bwr type reactors

**BARTON-4 REACTOR**  
*Alabama Power and Light, USA. Canceled in 1975 before construction began.*  
 \*BT1 bwr type reactors

**BARYON-BARYON INTERACTIONS**  
 (From January 1975 till May 1996 NUCLEON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)  
*UF* *nucleon-deuteron interactions*  
 \*BT1 hadron-hadron interactions  
 NT1 hyperon-hyperon interactions  
 NT1 nucleon-antinucleon interactions

NT2 antiproton-neutron interactions  
 NT2 neutron-antineutron interactions  
 NT2 proton-antineutron interactions  
 NT2 proton-antiproton interactions  
 NT1 nucleon-hyperon interactions  
 NT1 nucleon-nucleon interactions  
 NT2 neutron-neutron interactions  
 NT2 proton-nucleon interactions  
 NT3 proton-neutron interactions  
 NT3 proton-proton interactions

**BARYON DECUPLETS**

\*BT1 particle multiplets

**BARYON-EXCHANGE MODELS**

\*BT1 peripheral models

**BARYON NUMBER**

*RT* baryons  
*RT* gauge invariance  
*RT* neutron oscillation

**baryon number 2 resonances**

*INIS: 2000-04-12; ETDE: 1979-02-27*  
 USE dibaryons

**BARYON OCTETS**

\*BT1 particle multiplets  
*RT* octet model

**BARYON REACTIONS**

\*BT1 hadron reactions  
 NT1 hyperon reactions  
 NT1 nucleon reactions  
 NT2 antinucleon reactions  
 NT3 antineutron reactions  
 NT3 antiproton reactions  
 NT2 neutron reactions  
 NT3 fast fission  
 NT3 thermal fission  
 NT2 proton reactions

**baryon resonances**

*1988-03-08*  
 (Prior to December 1987 this was a valid descriptor.)  
 USE baryons

**BARYON SPECTROSCOPY**

*INIS: 1979-01-18; ETDE: 1979-02-23*  
 BT1 spectroscopy

**BARYONIUM**

*INIS: 1978-08-14; ETDE: 1978-04-06*  
*Baryonium states, narrow resonances near  $p$ -anti  $p$  threshold, are mesons that have quantum numbers of a 2 quark-2 antiquark system and couple predominantly to baryon-antibaryon systems.*

\*BT1 mesons  
*RT* baryons  
*RT* protonium  
*RT* quarkonium

**BARYONS**

*UF* *baryon resonances*  
*UF* *d\* plus resonances*  
*UF* *d\* zero resonances*  
*UF* *d\* resonances*  
*UF* *y\* resonances*  
*SF* *d\* effect*  
*SF* *d\* phenomenon*  
 BT1 fermions  
 \*BT1 hadrons  
 NT1 antibaryons  
 NT2 antihyperons  
 NT3 antilambda particles  
 NT3 antiomega particles  
 NT3 antisyigma particles  
 NT3 antixi particles  
 NT2 antinucleons  
 NT3 antineutrons

NT3 antiprotons  
 NT1 beauty baryons  
 NT2 lambda b neutral baryons  
 NT1 charmed baryons  
 NT2 lambda c-2625 baryons  
 NT2 lambda c plus baryons  
 NT2 omega c neutral baryons  
 NT2 sigma c-2455 baryons  
 NT2 xi c neutral baryons  
 NT2 xi c plus baryons  
 NT1 dibaryons  
 NT2 dineutrons  
 NT2 diprotons  
 NT2 lambda-n-2130 dibaryons  
 NT2 nn-2170 dibaryons  
 NT2 nn-2250 dibaryons  
 NT1 hyperons  
 NT2 antihyperons  
 NT3 antilambda particles  
 NT3 antiomega particles  
 NT3 antisyigma particles  
 NT3 antixi particles  
 NT2 lambda baryons  
 NT3 lambda-1405 baryons  
 NT3 lambda-1520 baryons  
 NT3 lambda-1600 baryons  
 NT3 lambda-1670 baryons  
 NT3 lambda-1690 baryons  
 NT3 lambda-1800 baryons  
 NT3 lambda-1810 baryons  
 NT3 lambda-1820 baryons  
 NT3 lambda-1830 baryons  
 NT3 lambda-1890 baryons  
 NT3 lambda-2100 baryons  
 NT3 lambda-2110 baryons  
 NT3 lambda particles  
 NT4 antilambda particles  
 NT2 lambda-n-2130 dibaryons  
 NT2 omega baryons  
 NT3 omega-2250 baryons  
 NT3 omega particles  
 NT4 antiomega particles  
 NT4 omega minus particles  
 NT2 sigma baryons  
 NT3 sigma-1385 baryons  
 NT3 sigma-1660 baryons  
 NT3 sigma-1670 baryons  
 NT3 sigma-1750 baryons  
 NT3 sigma-1770 baryons  
 NT3 sigma-1775 baryons  
 NT3 sigma-1915 baryons  
 NT3 sigma-1940 baryons  
 NT3 sigma-2030 baryons  
 NT3 sigma-2455 baryons  
 NT3 sigma particles  
 NT4 antisyigma particles  
 NT4 sigma minus particles  
 NT4 sigma neutral particles  
 NT4 sigma plus particles  
 NT2 xi baryons  
 NT3 xi-1530 baryons  
 NT3 xi-1690 baryons  
 NT3 xi-1820 baryons  
 NT3 xi-1950 baryons  
 NT3 xi-2030 baryons  
 NT3 xi-2250 baryons  
 NT3 xi-2500 baryons  
 NT3 xi particles  
 NT4 antixi particles  
 NT4 xi minus particles  
 NT4 xi neutral particles  
 NT2 z\*baryons  
 NT1 n\*baryons  
 NT2 delta baryons  
 NT3 delta-1232 baryons  
 NT3 delta-1600 baryons  
 NT3 delta-1620 baryons  
 NT3 delta-1700 baryons  
 NT3 delta-1900 baryons

NT3 delta-1905 baryons  
 NT3 delta-1910 baryons  
 NT3 delta-1920 baryons  
 NT3 delta-1930 baryons  
 NT3 delta-1950 baryons  
 NT3 delta-2000 baryons  
 NT3 delta-2150 baryons  
 NT3 delta-2200 baryons  
 NT3 delta-2400 baryons  
 NT3 delta-2420 baryons  
 NT3 delta-3000 baryons  
 NT2 n baryons  
 NT3 n-1440 baryons  
 NT3 n-1520 baryons  
 NT3 n-1535 baryons  
 NT3 n-1650 baryons  
 NT3 n-1675 baryons  
 NT3 n-1680 baryons  
 NT3 n-1700 baryons  
 NT3 n-1710 baryons  
 NT3 n-1720 baryons  
 NT3 n-1960 baryons  
 NT3 n-1990 baryons  
 NT3 n-2000 baryons  
 NT3 n-2080 baryons  
 NT3 n-2100 baryons  
 NT3 n-2190 baryons  
 NT3 n-2250 baryons  
 NT3 n-3000 baryons  
 NT1 nucleons  
 NT2 antinucleons  
 NT3 antineutrons  
 NT3 antiprotons  
 NT2 neutrons  
 NT3 antineutrons  
 NT3 beta-delayed neutrons  
 NT3 cold neutrons  
 NT4 ultracold neutrons  
 NT3 cosmic neutrons  
 NT3 epithermal neutrons  
 NT3 fast neutrons  
 NT3 fission neutrons  
 NT4 delayed neutrons  
 NT4 prompt neutrons  
 NT3 intermediate neutrons  
 NT3 photoneutrons  
 NT3 pile neutrons  
 NT3 polyneutrons  
 NT4 dineutrons  
 NT4 tetraneutrons  
 NT4 trineutrons  
 NT3 resonance neutrons  
 NT3 slow neutrons  
 NT3 solar neutrons  
 NT3 thermal neutrons  
 NT2 photonucleons  
 NT3 photoneutrons  
 NT3 photoprotons  
 NT2 protons  
 NT3 antiprotons  
 NT3 cosmic protons  
 NT3 delayed protons  
 NT3 diprotons  
 NT3 photoprotons  
 NT3 prompt protons  
 NT3 solar protons  
 NT3 trapped protons  
 RT baryon number  
 RT baryonium

**BASAL METABOLISM**

BT1 metabolism

**BASALT**

\*BT1 volcanic rocks  
 NT1 diabases  
 RT feldspars  
 RT nepheline basalts  
 RT olivine

**BASEBALL DEVICES**

\*BT1 open plasma devices

**BASEBALL SEAM CONFIGURATIONS**

\*BT1 open configurations

**BASEBOARD HEATING**

INIS: 2000-04-12; ETDE: 1977-09-19

\*BT1 space heating  
RT electric heating

**basedow's disease**

USE hyperthyroidism

**BASILINE ECOLOGY**

INIS: 1982-12-03; ETDE: 1977-04-12

*The ecological situation or studies of that situation which exists at a site or geographical region before some development is made in the area; it provides a basis for evaluating impact of the development.*

BT1 ecology  
RT geographic information systems  
RT site characterization  
RT species diversity

**BASEMENT ROCK**

INIS: 2000-01-21; ETDE: 1981-03-16

*Metamorphic or igneous rock underlying the sedimentary sequence.*

\*BT1 geologic strata  
RT igneous rocks  
RT metamorphic rocks  
RT rocks

**BASEMENTS**

INIS: 1992-08-25; ETDE: 1984-07-20

*The part of a building that is wholly or partly below ground level.*

UF cellars  
RT buildings  
RT floors  
RT foundations

**BASES**

NT1 coal tar bases  
NT1 lewis bases  
NT1 shale tar bases  
RT acid neutralizing capacity  
RT anhydrides  
RT hydroxides  
RT ph value

**BASF-1 REACTOR**

UF *basf-industriekernkraftwerk reaktor 1*

\*BT1 pwr type reactors

**BASF-2 REACTOR**

UF *basf-industriekernkraftwerk reaktor 2*

\*BT1 pwr type reactors

**basf-industriekernkraftwerk reaktor 1**

1999-03-23

USE basf-1 reactor

**basf-industriekernkraftwerk reaktor 2**

1993-11-04

USE basf-2 reactor

**BASIC**

INIS: 1979-01-18; ETDE: 1975-09-11

BT1 programming languages

**BASIC INTERACTIONS**

1999-03-23

BT1 interactions  
NT1 electromagnetic interactions  
NT2 compton effect  
NT2 coulomb scattering  
NT2 electroproduction  
NT2 photon-hadron interactions  
NT3 photon-baryon interactions

NT4 photon-hyperon interactions

NT4 photon-nucleon interactions

NT5 photon-neutron interactions

NT5 photon-proton interactions

NT3 photon-meson interactions

NT2 photon-photon interactions

NT2 photoproduction

NT3 primakoff effect

NT2 umklapp processes

NT1 gravitational interactions

NT1 strong interactions

NT2 charge-exchange interactions

NT2 peripheral collisions

NT1 weak interactions

NT2 fermi interactions

NT2 leptonic decay

RT charged-current interactions

RT conservation laws

RT invariance principles

RT neutral-current interactions

RT potentials

RT unified-field theories

**basins (sedimentary)**

INIS: 1984-04-04; ETDE: 2002-06-13

USE sedimentary basins

**BASOPHILS**

\*BT1 leukocytes

**basophils (connective tissue)**

USE mast cells

**bass strait**

INIS: 2000-04-12; ETDE: 1977-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

USE australia

USE seas

**BASSETITE**

2000-04-12

\*BT1 uranium minerals

**BASTNAESITE**

\*BT1 oxide minerals

\*BT1 thorium minerals

RT thorium oxides

**bataan philippine power plant**

INIS: 1983-12-01; ETDE: 1984-01-27

USE pnp-1 reactor

**BATCH CULTURE**

INIS: 1997-06-19; ETDE: 1978-06-14

RT aerobic digestion

RT anaerobic digestion

RT continuous culture

RT culture media

RT fermentation

RT semibatch culture

**BATCH LOADING**

BT1 reactor fueling

**bates linac mit**

INIS: 1977-11-21; ETDE: 1978-03-08

USE mit bates linac

**BATHYMETRY**

INIS: 1992-06-05; ETDE: 1978-07-06

*The measurement of ocean depths and the charting of the topography of the ocean floor.*

RT geophysics

RT oceanography

RT seas

**BATS**

1993-04-29

\*BT1 mammals

**battelle coal-cleaning process**

INIS: 2000-04-12; ETDE: 1975-09-11  
 USE battelle hydrothermal coal process

**BATTELLE COLUMBUS****LABORATORY**

INIS: 1977-09-06; ETDE: 1976-11-17  
 \*BT1 us erda  
 RT ohio

**BATTELLE HYDROTHERMAL COAL PROCESS**

INIS: 2000-04-12; ETDE: 1975-09-11  
 A closed-loop leaching process for removal of up to 99% pyritics and 70% organics to produce solid fuel.  
 UF battelle coal-cleaning process  
 \*BT1 desulfurization

**BATTELLE PACIFIC NORTHWEST LABORATORIES**

INIS: 1976-10-07; ETDE: 1976-07-07  
 UF pacific northwest laboratories  
 UF pnl  
 \*BT1 us doe  
 \*BT1 us erda  
 RT hanford reservation  
 RT hapo

**battelle research reactor**

USE brr reactor

**batteries (electric)**

USE electric batteries

**batteries (isotopic)**

USE radioisotope batteries

**BATTERY CHARGE STATE**

1993-02-04  
 (Prior to February 1993, this concept in ETDE was indexed to CHARGE STATE.)  
 UF charge state (batteries)  
 RT charged particles  
 RT electric batteries  
 RT electric charges  
 RT ions

**BATTERY CHARGERS**

1992-07-23  
 \*BT1 electrical equipment  
 NT1 solar battery chargers  
 RT battery charging

**BATTERY CHARGING**

1999-08-19  
 RT battery chargers

**BATTERY PASTE**

INIS: 2000-04-12; ETDE: 1976-08-04  
 RT electric batteries  
 RT electrodes  
 RT grids

**BATTERY SEPARATORS**

2000-04-12  
 RT electric batteries

**batyl alcohol**

1996-06-26  
 Also known as octadecyl glyceryl ether- $\alpha$ .  
 (Until June 1996 this was a valid descriptor.)  
 USE alcohols  
 USE ethers

**BAUXITE**

A ferruginous aluminium hydroxide.  
 \*BT1 aluminium ores  
 RT aluminium hydroxides

**BAWTR REACTOR**

Babcock and Wilcox, Lynchburg Research Center, Lynchburg, Virginia, USA. Shut down in 1971.

UF babcock and wilcox test reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

**BAY OF BISCAY**

INIS: 1985-07-23; ETDE: 1981-11-10  
 UF biscay bay (france, spain)  
 \*BT1 atlantic ocean  
 \*BT1 bays  
 RT france  
 RT spain

**BAY OF FUNDY**

1991-09-19  
 This bay is presently being considered as the site of a sizeable tidal power plant.  
 \*BT1 atlantic ocean  
 \*BT1 bays  
 RT canada

**BAYARD-ALPERT GAGES**

\*BT1 ionization gages

**bayleyite**

1996-06-26  
 (Until June 1996 this was a valid descriptor.)  
 USE carbonate minerals  
 USE uranium minerals

**BAYS**

1997-06-17  
 \*BT1 coastal waters  
 NT1 bay of biscay  
 NT1 bay of fundy  
 NT1 biscayne bay  
 NT1 chesapeake bay  
 NT1 delaware bay  
 NT1 galveston bay  
 NT1 matagorda bay  
 NT1 onslow bay  
 NT1 prudhoe bay  
 NT1 sequim bay

**bays (magnetic)**

INIS: 1984-04-04; ETDE: 2002-06-13  
 USE magnetic bays

**BBGKY EQUATION**

UF bbgky hierarchy  
 UF bbgky theory  
 UF bogolyubov theory  
 UF born-bogolyubov-green-kirkwood-yvon  
 \*BT1 differential equations  
 RT statistical mechanics

**bbgky hierarchy**

USE bbgky equation

**bbgky theory**

USE bbgky equation

**BCC LATTICES**

UF body centered cubic  
 \*BT1 cubic lattices

**BCL PROCESS**

INIS: 2000-04-12; ETDE: 1985-10-10  
 A two-stage hydrogenation process in which the primary hydrogenation and the secondary hydrogenation processes are combined with the new slurry dewatering and the deashing and preasphaltene removal processes.  
 UF brown coal liquefaction process  
 \*BT1 coal liquefaction

**BCOCLMCNM**

Brussels Convention on Civil Liability for Maritime Carriage of Nuclear Materials.  
 UF brussels conv liability for maritime carriage nuc mater 1971  
 UF liability conv maritime carriage nuclear materials  
 UF marit car liab conv bruss 1971  
 UF maritime carriage liability conv brussels 1971  
 \*BT1 international agreements  
 RT civil liability

**BCOLONS**

Brussels Convention on Liability for Operation of Nuclear Ships.  
 UF brussels conv liability for operation of nuclear ships  
 UF liability convention on operation of nuclear ships  
 UF nuclear ship operation liability convention, brussels  
 \*BT1 international agreements  
 RT civil liability  
 RT liabilities  
 RT nuclear ship visits  
 RT nuclear ships

**bcr process**

INIS: 2000-04-12; ETDE: 1977-04-12  
 USE coal gasification

**BCS THEORY**

UF bardeen-cooper-schrieffer theory  
 RT superconductivity

**BCSTPC**

Brussels Convention - supplement to Paris Convention on Third Party Liability.  
 UF brussels conv-suppl to paris conv on third party liability  
 UF liability conv on third party, brussels  
 UF third party liability convention, brussels  
 \*BT1 international agreements  
 RT civil liability  
 RT pcotpl

**BEACON PROCESS**

INIS: 2000-04-12; ETDE: 1981-04-17  
 The beacon process converts low to medium btu gas to a methane-rich high btu gas by two main reactions. In the presence of a catalyst, carbon is deposited by shifting carbon monoxide to carbon dioxide. The deposited carbon and catalyst are active for hydrogenation to methane.  
 \*BT1 coal gasification  
 RT methanation  
 RT synthesis gas

**BEAD WALLS**

INIS: 2000-04-12; ETDE: 1979-02-27  
 \*BT1 passive solar cooling systems  
 \*BT1 passive solar heating systems  
 BT1 walls  
 RT thermal insulation  
 RT windows

**BEAGLES**

\*BT1 dogs

**BEAM ACCEPTANCE**

UF acceptance (beam)  
 RT beam optics

**BEAM ANALYZERS**

For momentum analysis of charged particle beams.  
 NT1 electrostatic analyzers  
 NT1 magnetic analyzers  
 RT beam monitors

RT monochromators

## BEAM-BEAM INTERACTIONS

INIS: 1999-03-23; ETDE: 1979-05-25

RT beam dynamics  
RT beam stacking  
RT colliding beams

## BEAM BENDING MAGNETS

\*BT1 magnets  
RT beam optics  
RT magnetic analyzers

## beam blowup

INIS: 1984-04-04; ETDE: 2002-06-13

USE beam dynamics

## BEAM BUNCHERS

RT beam bunching

## BEAM BUNCHING

UF bunching (beam)  
\*BT1 beam dynamics  
RT beam bunchers  
RT beam optics  
RT beam shaping

## beam choppers

1975-08-26

USE beam pulsers

## BEAM COOLING

INIS: 1982-04-13; ETDE: 1979-05-03

For improving the quality of particle beams.

NT1 electron cooling  
NT1 stochastic cooling  
NT2 momentum cooling  
RT beam dynamics

## BEAM CURRENTS

UF currents (beam)  
BT1 currents  
NT1 amp beam currents  
NT1 kilo amp beam currents  
NT1 mega amp beam currents  
NT1 micro amp beam currents  
NT1 milli amp beam currents  
NT1 nano amp beam currents  
NT1 pico amp beam currents  
RT beam monitoring  
RT beam monitors  
RT current density  
RT faraday cups

## BEAM DUMPS

Mass of shielding material to absorb an accelerator beam after experimental use.

RT accelerator facilities  
RT accelerators

## BEAM DYNAMICS

Particle beam motion inside an accelerator.

UF beam blowup  
UF blowup (particle beams)  
UF dynamics (beam)  
\*BT1 dynamics  
NT1 beam bunching  
NT1 betatron oscillations  
NT1 phase oscillations  
NT1 synchrotron oscillations  
RT accelerators  
RT beam-beam interactions  
RT beam cooling  
RT beam optics  
RT beam stacking  
RT negative mass effect  
RT orbit stability  
RT orbits  
RT phase stability  
RT trajectories

## BEAM EMITTANCE

UF beam perveance  
UF emittance (beam)  
RT beam optics  
RT brightness

## BEAM EXTRACTION

UF extraction (beam)  
RT beam optics  
RT kicker magnets  
RT septum magnets

## BEAM FOCUSING MAGNETS

\*BT1 magnets  
RT beam optics  
RT quadrupoles

## beam-foil spectroscopy

USE ion spectroscopy

## beam-gas spectroscopy

USE ion spectroscopy

## BEAM HOLES

Hole through a reactor for the passage of a beam of radiation for experiments outside the reactor.

\*BT1 reactor channels  
\*BT1 reactor experimental facilities

## BEAM INJECTION

UF injection (beams)  
NT1 cluster beam injection  
NT1 electron beam injection  
NT1 ion beam injection  
NT2 molecular ion beam injection  
NT1 neutral atom beam injection  
NT1 plasma beam injection  
NT1 relativistic beam injection  
RT beam injection heating  
RT beam optics  
RT beam production  
RT particle boosters  
RT thermonuclear devices

## BEAM INJECTION HEATING

\*BT1 plasma heating  
RT atomic beam sources  
RT beam injection

## BEAM LUMINOSITY

Colliding beam interaction rate.

RT colliding beams  
RT electron cooling  
RT interactions

## BEAM MONITORING

UF monitoring (beam)  
BT1 monitoring  
RT beam currents  
RT beam monitors  
RT beam position  
RT beam profiles  
RT magnetoinduction sensors

## BEAM MONITORS

UF monitors (beam)  
\*BT1 monitors  
NT1 beam scanners  
NT1 faraday cups  
NT1 magnetoinduction sensors  
RT accelerator facilities  
RT beam analyzers  
RT beam currents  
RT beam monitoring  
RT beam position  
RT beam profiles

## BEAM NEUTRALIZATION

UF neutralization (beam)  
RT charge exchange  
RT ionization

RT particle beams

## BEAM OPTICS

RT alignment  
RT beam acceptance  
RT beam bending magnets  
RT beam bunching  
RT beam dynamics  
RT beam emittance  
RT beam extraction  
RT beam focusing magnets  
RT beam injection  
RT beam shaping  
RT beam splitting  
RT beam transport  
RT chromatic aberrations  
RT collimators  
RT electrostatic lenses  
RT electrostatic mirrors  
RT electrostatic septa  
RT focusing  
RT geometrical aberrations  
RT kicker magnets  
RT monochromators  
RT optical systems  
RT optics  
RT septum magnets

## beam perveance

INIS: 2000-04-12; ETDE: 1981-07-06

USE beam emittance  
USE space charge

## BEAM-PLASMA SYSTEMS

RT beams  
RT pierce instability  
RT plasma  
RT whistler instability

## BEAM POSITION

RT beam monitoring  
RT beam monitors  
RT beam scanners

## BEAM PRODUCTION

UF production (beam)  
RT beam injection

## BEAM PROFILES

UF beam widths  
RT beam monitoring  
RT beam monitors  
RT beam scanners  
RT beam shaping

## BEAM PULSERS

1975-09-25

UF beam choppers  
UF choppers (beam)  
UF pulsed beam deflectors  
NT1 neutron choppers  
RT beam shaping  
RT beams  
RT pulsed irradiation  
RT pulses

## BEAM SCANNERS

UF scanners (beam)  
\*BT1 beam monitors  
RT beam position  
RT beam profiles

## BEAM SEPARATORS

For velocity separation of secondary beams.

RT accelerators

## BEAM SHAPING

1975-08-22

RT beam bunching  
RT beam optics  
RT beam profiles  
RT beam pulsers

RT focusing

## BEAM SPLITTING

1975-10-09

RT beam optics

## BEAM STACKING

RT beam-beam interactions

RT beam dynamics

## BEAM STRIPPERS

UF stripper foils

UF strippers

RT atomic beams

RT charge exchange

RT charge states

RT electron loss

RT ion beams

## BEAM TRANSPORT

UF laser guidance

UF transport (beam)

RT beam optics

## beam widths

USE beam profiles

## BEAMS

NT1 antiparticle beams  
NT2 antineutrino beams  
NT2 antinucleon beams  
NT3 antiproton beams

NT1 atomic beams

NT1 cluster beams

NT1 colliding beams

NT1 ion beams

NT2 aluminium 27 beams

NT2 argon 38 beams

NT2 argon 40 beams

NT2 beryllium 9 beams

NT2 bismuth 209 beams

NT2 boron 10 beams

NT2 boron 11 beams

NT2 bromine 79 beams

NT2 calcium 40 beams

NT2 calcium 48 beams

NT2 carbon 12 beams

NT2 carbon 13 beams

NT2 chlorine 35 beams

NT2 chlorine 37 beams

NT2 copper 63 beams

NT2 deuteron beams

NT2 fluorine 19 beams

NT2 gadolinium 155 beams

NT2 germanium 74 beams

NT2 germanium 76 beams

NT2 gold 197 beams

NT2 helium 3 beams

NT2 helium 4 beams

NT3 alpha beams

NT2 hydrogen 1 minus beams

NT2 iodine 127 beams

NT2 iron 56 beams

NT2 iron 58 beams

NT2 krypton 84 beams

NT2 krypton 86 beams

NT2 lanthanum 139 beams

NT2 lead 208 beams

NT2 lithium 6 beams

NT2 lithium 7 beams

NT2 magnesium 24 beams

NT2 magnesium 25 beams

NT2 neon 20 beams

NT2 neon 22 beams

NT2 nickel 58 beams

NT2 nickel 60 beams

NT2 nitrogen 14 beams

NT2 nitrogen 15 beams

NT2 oxygen 16 beams

NT2 oxygen 18 beams

NT2 phosphorus 31 beams

NT2 potassium 39 beams

NT2 potassium 41 beams

NT2 radioactive ion beams

NT3 argon 39 beams

NT3 beryllium 7 beams

NT3 carbon 10 beams

NT3 carbon 11 beams

NT3 carbon 14 beams

NT3 chlorine 39 beams

NT3 helium 8 beams

NT3 neon 19 beams

NT3 nitrogen 13 beams

NT3 sulfur 38 beams

NT3 triton beams

NT3 uranium 238 beams

NT2 silicon 28 beams

NT2 silicon 29 beams

NT2 silver 107 beams

NT2 sodium 23 beams

NT2 sulfur 32 beams

NT2 tin 120 beams

NT2 titanium 48 beams

NT2 titanium 50 beams

NT2 tungsten 184 beams

NT2 xenon 129 beams

NT2 xenon 131 beams

NT2 xenon 132 beams

NT2 xenon 136 beams

NT1 molecular beams

NT1 particle beams

NT2 hyperon beams

NT3 lambda particle beams

NT3 sigma particle beams

NT2 lepton beams

NT3 electron beams

NT3 muon beams

NT3 neutrino beams

NT4 antineutrino beams

NT3 positron beams

NT2 meson beams

NT3 eta meson beams

NT3 kaon beams

NT3 pion beams

NT2 nucleon beams

NT3 neutron beams

NT3 proton beams

NT1 photon beams

NT1 polarized beams

NT1 secondary beams

NT2 carbon 11 beams

NT2 helium 8 beams

RT beam-plasma systems

RT beam pulsers

RT stern-gerlach experiment

## beams (structural)

INIS: 1983-09-06; ETDE: 1977-08-24

USE structural beams

## bean plant

USE phaseolus

## BEANS

\*BT1 vegetables

NT1 mungbeans

RT phaseolus

RT seeds

## BEARINGS

NT1 ball bearings

NT1 gas bearings

NT1 hydrostatic bearings

NT1 journal bearings

NT1 magnetic bearings

NT1 roller bearings

RT bushings

RT lubrication

RT tribology

RT wear

## BEARS

INIS: 1993-04-29; ETDE: 1986-07-08

Ursidae.

\*BT1 mammals

## BEAT WAVE ACCELERATORS

INIS: 1988-02-02; ETDE: 1987-09-03

Laser-driven accelerators using the concept in which two laser beams are superimposed in a plasma, the difference of their frequency being the natural frequency of oscillation of the plasma.

\*BT1 linear accelerators

RT laser radiation

RT plasma waves

## BEAUFORT SEA

INIS: 1991-09-19; ETDE: 1977-04-12

\*BT1 arctic ocean

NT1 prudhoe bay

## BEAUTY BARYONS

INIS: 1987-12-21; ETDE: 1988-02-19

UF bottom baryons

\*BT1 baryons

\*BT1 beauty particles

NT1 lambda b neutral baryons

## BEAUTY MESONS

INIS: 1995-08-07; ETDE: 1988-02-02

UF bottom mesons

\*BT1 beauty particles

\*BT1 mesons

NT1 b c mesons

NT1 b mesons

NT2 b minus mesons

NT2 b neutral mesons

NT3 anti-b neutral mesons

NT2 b plus mesons

NT1 b s mesons

NT1 b\*-5325 mesons

## beauty model

INIS: 1984-04-04; ETDE: 1979-11-07

(Prior to January 1995, this was a valid ETDE descriptor.)

USE flavor model

## BEAUTY PARTICLES

INIS: 1995-10-04; ETDE: 1979-04-11

UF bottom particles

BT1 elementary particles

NT1 b quarks

NT1 beauty baryons

NT2 lambda b neutral baryons

NT1 beauty mesons

NT2 b c mesons

NT2 b mesons

NT3 b minus mesons

NT3 b neutral mesons

NT4 anti-b neutral mesons

NT3 b plus mesons

NT2 b s mesons

NT2 b\*-5325 mesons

RT bottomonium

RT flavor model

RT quark model

RT top particles

## BEAVER VALLEY-1 REACTOR

FirstEnergy Nuclear Operating Co.,  
Shippingport Pennsylvania, USA.

\*BT1 pwr type reactors

## BEAVER VALLEY-2 REACTOR

FirstEnergy Nuclear Operating Co.,  
Shippingport Pennsylvania, USA.

\*BT1 pwr type reactors

**beaverlodge**

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE saskatchewan

**BEAVERLODGE MINE**

INIS: 1975-10-23; ETDE: 1975-12-16

Saskatchewan, Canada.

\*BT1 uranium mines

RT saskatchewan

**BEAVON PROCESS**

2000-04-12

Process for sulfur removal for purification of claus unit tail gas to well below 250 ppm of sulfur dioxide; process combines hydrogenation, cooling, and wet oxidative extraction and yields sulfur by-product.

\*BT1 desulfurization

**beck cycle**

INIS: 2000-04-12; ETDE: 1980-08-12

SEE lift cycles

SEE mist-lift cycles

**BECQUERELITE**

\*BT1 oxide minerals

\*BT1 uranium minerals

RT calcium oxides

RT uranium oxides

**BEDROCK PROJECT**

INIS: 1999-03-23; ETDE: 1976-07-07

UF hushed echo event

UF project bedrock

UF stilton-hushed echo event

\*BT1 nuclear explosions

RT contained explosions

RT underground explosions

**BEDT-TTF**

INIS: 1993-04-13; ETDE: 1985-11-19

UF bisethylenedithiolotetrathiafulvalene

\*BT1 heterocyclic compounds

\*BT1 organic sulfur compounds

\*BT1 organic superconductors

**BEECH TREES**

INIS: 1991-12-16; ETDE: 1978-09-11

\*BT1 magnoliopsida

\*BT1 trees

**beef**

USE meat

**beehive coke**

INIS: 2000-04-12; ETDE: 1979-09-27

(Prior to September 1994, this was a valid ETDE descriptor.)

USE coke

**BEES**

INIS: 1993-07-12; ETDE: 1981-04-17

UF apis mellifera

\*BT1 hymenoptera

**BETTER**

UF weevils

\*BT1 coleoptera

NT1 boll weevil

NT1 tribolium

**BEETS**

\*BT1 magnoliopsida

\*BT1 vegetables

NT1 sugar beets

**BEHAVIOR**

Limited to living systems.

SF life styles

SF psychology

SF way of life

NT1 avoidance

RT attitudes  
 RT biological adaptation  
 RT central nervous system  
 RT central nervous system agents  
 RT central nervous system depressants  
 RT cerebral cortex  
 RT competition  
 RT human factors  
 RT insect dispersal  
 RT learning  
 RT leisure time activities  
 RT mating  
 RT mental disorders  
 RT physiology  
 RT predator-prey interactions  
 RT public anxiety  
 RT reflexes  
 RT safety culture

**BEIJING ELECTRON-POSITRON COLLIDER**

INIS: 1992-10-19; ETDE: 1992-11-04

\*BT1 linear accelerators

BT1 storage rings

**beijing miniature neutron source reactor**

2004-03-15

USE mnsr-ciae reactor

**BEIJING PROTON LINAC**

INIS: 1992-10-19; ETDE: 1992-11-04

\*BT1 linear accelerators

**BELARUS**

INIS: 1997-08-20; ETDE: 1993-03-15

(Until January 1993, this was indexed by BYELORUSSIAN SSR.)

UF byelorussian ssr

SF soviet union

SF union of soviet socialist republics

SF ussr

\*BT1 eastern europe

**BELGIAN ORGANIZATIONS**

INIS: 1980-09-12; ETDE: 1980-10-07

BT1 national organizations

**belgian reactor 02**

USE br-02 reactor

**belgian reactor 1**

USE br-1 reactor

**belgian reactor 2**

USE br-2 reactor

**belgian reactor 3**

USE br-3 reactor

**belgian reactor-3/vulcain**

USE br-3-vn reactor

**BELGIUM**

1995-04-03

BT1 developed countries

\*BT1 western europe

RT oecd

**BELIZE**

INIS: 1997-04-29; ETDE: 1979-12-10

\*BT1 central america

BT1 developing countries

**bell inequality**

INIS: 1977-10-17; ETDE: 1976-11-17

USE bell theorem

**BELL REACTOR**

New York State Electric and Gas, Lake Cayuga, New York, USA. Canceled in 1972 before construction began.

\*BT1 bwr type reactors

**BELL THEOREM**

INIS: 1977-10-17; ETDE: 1976-11-17

A theorem proving certain quantum mechanical predictions are inconsistent with the entire family of local hidden variable theories.

UF bell inequality

RT hidden variables

RT quantum mechanics

**BELLEFONTE-1 REACTOR**

TVA, Scottsboro, Alabama, USA. Indefinitely deferred.

\*BT1 pwr type reactors

**BELLEFONTE-2 REACTOR**

TVA, Scottsboro, Alabama, USA. Indefinitely deferred.

\*BT1 pwr type reactors

**BELLEVILLE SUR LOIRE-1 REACTOR**

INIS: 1984-07-20; ETDE: 1984-09-05

\*BT1 pwr type reactors

**BELLEVILLE SUR LOIRE-2 REACTOR**

INIS: 1984-07-20; ETDE: 1984-09-05

\*BT1 pwr type reactors

**BELLOWS**

Use only for the expandable structure.

Coordinate with descriptors for the device of which the bellows is a component, e.g.,

VALVES or BLOWERS.

RT blowers

RT expansion joints

RT pressure gages

RT pumps

RT valves

**BELOYARSK-1 REACTOR**

Zarechnyy, Sverdlovsk, Russian Federation.

UF bnps-1 reactor

SF urals atomic power station

\*BT1 enriched uranium reactors

\*BT1 lwgr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**BELOYARSK-2 REACTOR**

Zarechnyy, Sverdlovsk, Russian Federation.

UF bnps-2 reactor

SF urals atomic power station

\*BT1 enriched uranium reactors

\*BT1 lwgr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**BELOYARSK-3 REACTOR**

Zarechnyy, Sverdlovsk, Russian Federation.

UF bn-600 reactor

SF urals atomic power station

\*BT1 lmfbr type reactors

\*BT1 power reactors

\*BT1 sodium cooled reactors

RT enriched uranium reactors

RT plutonium reactors

**BELOYARSK-4 REACTOR**

INIS: 1990-01-29; ETDE: 1990-02-13

Zarechnyy, Sverdlovsk, Russian Federation.

\*BT1 lmfbr type reactors

\*BT1 power reactors

\*BT1 sodium cooled reactors



**BELT CONVEYORS**

INIS: 1992-07-22; ETDE: 1980-08-12

- \*BT1 conveyors
- RT coal mining
- RT mining

**BELT PINCH**

- \*BT1 longitudinal pinch

**BELYAEV THEORY**

- RT nuclear structure
- RT superconductivity

**BENCH-SCALE EXPERIMENTS**

1981-05-11

- UF laboratory scale experiments
- RT demonstration plants
- RT feasibility studies
- RT field tests
- RT laboratory equipment
- RT process development units
- RT testing

**benchmark experiments**

INIS: 1979-05-28; ETDE: 2002-06-13

- USE benchmarks

**BENCHMARKS**

INIS: 1979-05-28; ETDE: 1978-09-11

- UF benchmark experiments
- RT experimental data
- RT standardization
- RT standards

**BENDING**

- BT1 deformation
- RT flexural strength

**BENFIELD PROCESS**

2000-04-12

Process for removal of carbon dioxide, hydrogen sulfide, and COS from sour natural gas and raw gases produced during manufacture of substitute natural gas by partial oxidation of coal or oil or by naphtha reforming.

- \*BT1 desulfurization

**benham event**

1994-10-13

A test made during OPERATION BOWLINE. (Prior to September 1994, this was a valid ETDE descriptor.)

- USE nuclear explosions
- USE underground explosions

**beni oil**

- USE sesame oil

**BENIN**

INIS: 1992-06-04; ETDE: 1981-07-18

- UF dahomey
- BT1 africa
- RT niger river

**benioff zone**

INIS: 2000-04-12; ETDE: 1985-06-04

A plane dipping beneath the continents along which earthquake foci cluster. It corresponds to the upper surface of a descending plate. (Prior to February 1995, this was a valid ETDE descriptor.)

- USE earthquakes
- USE subduction zones

**benne oil**

- USE sesame oil

**BENTHOS**

INIS: 1999-03-05; ETDE: 1976-07-07

Aquatic bottom dwelling organisms.

- BT1 aquatic organisms

NT1 echinoderms

- NT2 sea urchins
- RT aquatic ecosystems
- RT molluscs

**BENTONITE**

A soft, plastic, porous, light-colored rock consisting largely of colloidal silica and composed essentially of clay minerals (chiefly of the montmorillonite group).

- \*BT1 clays
- \*BT1 inorganic ion exchangers
- RT montmorillonite

**BENZALDEHYDE**

UF benzoic aldehyde

- \*BT1 aldehydes

**BENZANTHRACENE**

\*BT1 condensed aromatics

- \*BT1 hydrocarbons

**BENZEDRINE**

UF phenylisopropylamine

- \*BT1 amphetamines

**BENZENE**

\*BT1 aromatics

\*BT1 hydrocarbons

RT aniline

RT nitrobenzene

**benzenedicarboxylic acid-ortho**

USE phthalic acid

**benzenedicarboxylic acid-para**

USE terephthalic acid

**BENZHYDROL**

UF benzohydrol

UF diphenylcarbinol

UF diphenylmethanol

- \*BT1 alcohols

**BENZIDINE**

1996-10-22

UF biphenyldiamine

UF diaminobiphenyl

\*BT1 amines

\*BT1 aromatics

RT biphenyl

**BENZILIC ACID**

UF diphenylglycolic acid

UF hydroxydiphenylacetic acid

- \*BT1 hydroxy acids

**BENZIMIDAZOLES**

- \*BT1 imidazoles

**benzine**

INIS: 2000-04-12; ETDE: 1975-12-17

USE ligroin

**BENZOFURANS**

\*BT1 furans

RT organic polymers

RT psoralen

**benzohydrol**

USE benzhydrol

**BENZOHYDROXAMIC ACID**

\*BT1 hydroxamic acids

RT benzoic acid

**BENZOIC ACID**

1996-10-23

\*BT1 monocarboxylic acids

RT benzohydroxamic acid

RT benzoyl peroxide

**benzoic aldehyde**

USE benzaldehyde

**BENZOINOXIME**

- \*BT1 oximes

**BENZOPHENONE**

UF diphenyl ketone

- \*BT1 ketones

**benzopinacol**

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor; it was used for the concept TETRAPHENYLETHYLENE GLYCOL.)

USE glycols

**BENZOPYRENE**

\*BT1 condensed aromatics

\*BT1 hydrocarbons

**benzopyrroles**

USE indoles

**BENZOQUINONES**

1996-10-23

(Prior to March 1997 QUINHYDRONE was a valid ETDE descriptor.)

UF chinone

UF quinhydrone

UF quinone

\*BT1 quinones

NT1 chloranil

NT1 chloranilic acid

NT1 plastoquinone

NT1 ubiquinone

**BENZOTHAZOLES**

- \*BT1 thiazoles

**benzothiophenes**

USE thionaphthenes

**BENZOXAZOLES**

- \*BT1 oxazoles

**BENZOYL PEROXIDE**

\*BT1 organic oxygen compounds

\*BT1 peroxides

RT benzoic acid

**BENZOYL RADICALS**

BT1 radicals

**benzoylaminoacetic acid**

USE hippuric acid

**BENZOYLATION**

- \*BT1 acylation

**benzoylglycine**

USE hippuric acid

**benzoylglycocol**

USE hippuric acid

**benzoylphenylhydroxylamine**

USE bph

**BENZYL ALCOHOL**

1982-02-10

UF phenylcarbinol

\*BT1 alcohols

\*BT1 aromatics

**BENZYL RADICALS**

\*BT1 aryl radicals

**BEPO REACTOR**

UF british experimental pile operation

\*BT1 air cooled reactors

\*BT1 graphite moderated reactors

\*BT1 isotope production reactors

\*BT1 natural uranium reactors

\*BT1 research reactors

\*BT1 thermal reactors

**BEPPU GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1977-09-19

BT1 geothermal fields  
RT japan

**BER-2 REACTOR**

Hahn-Meitner-Institute fuer Kernforschung GmbH, Berlin, Federal Republic of Germany.

UF berlin-2 research reactor

UF forschungreaktor berlin-2

\*BT1 aqueous homogeneous reactors  
\*BT1 isotope production reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**bergbauforschung-foster wheeler process**

INIS: 2000-04-12; ETDE: 1977-04-12

Dry process using a moving bed of char to adsorb sulfur dioxide, nitrogen oxides, and particulates from flue gas and produce elemental sulfur. Unique features include lowered, moving bed adsorber, hot inert sand for thermal regeneration of char, and utilizing coal to reduce sulfur dioxide to sulfur.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE desulfurization

**BERGBAUFORSCHUNG PROCESS**

INIS: 2000-04-12; ETDE: 1977-09-19

Sulfur dioxide removal at 120 to 150 degrees C by adsorption on activated cokes with sulfur recovery.

\*BT1 desulfurization  
RT waste processing

**BERGIUS PROCESS**

2000-04-12

Catalytic conversion of coal to synthetic crude oil by treatment with hydrogen at elevated pressures and temperatures.

\*BT1 coal liquefaction

**BERING SEA**

\*BT1 pacific ocean  
RT aleutian islands

**berkeley bevalac**

INIS: 1976-01-28; ETDE: 1979-05-03

USE bevalac

**berkeley escar storage ring**

INIS: 1976-02-11; ETDE: 1979-05-09

USE escar storage ring

**berkeley nuclear laboratory reactor**

2000-04-12

SEE graphite moderated reactors  
SEE research reactors  
SEE zero power reactors

**BERKELEY REACTOR**

Berkeley, Gloucestershire, United Kingdom.

\*BT1 carbon dioxide cooled reactors  
\*BT1 magnox type reactors  
\*BT1 thermal reactors

**berkeley research reactor**

2005-05-20

Univ. of California, Berkeley, California, USA.

USE ucbr reactor

**berkeley superhilac**

USE superhilac

**BERKELEY SYNCHROCYCLOTRON**

\*BT1 synchrocyclotrons

**berkeley triga reactor**

USE ucbr reactor

**BERKELIUM**

\*BT1 actinides  
\*BT1 transplutonium elements

**BERKELIUM 240**

\*BT1 actinide nuclei  
\*BT1 berkelium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**BERKELIUM 241**

\*BT1 actinide nuclei  
\*BT1 berkelium isotopes  
\*BT1 odd-even nuclei

**BERKELIUM 242**

\*BT1 actinide nuclei  
\*BT1 berkelium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 spontaneous fission radioisotopes

**BERKELIUM 243**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 berkelium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 internal conversion radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 spontaneous fission radioisotopes

**BERKELIUM 244**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 berkelium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 spontaneous fission radioisotopes

**BERKELIUM 245**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 berkelium isotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 spontaneous fission radioisotopes

**BERKELIUM 246**

\*BT1 actinide nuclei  
\*BT1 berkelium isotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 odd-odd nuclei

**BERKELIUM 247**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 berkelium isotopes  
\*BT1 odd-even nuclei  
\*BT1 years living radioisotopes

**BERKELIUM 248**

\*BT1 actinide nuclei  
\*BT1 berkelium isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 odd-odd nuclei

**BERKELIUM 249**

\*BT1 actinide nuclei  
\*BT1 alpha decay radioisotopes  
\*BT1 berkelium isotopes  
\*BT1 beta-minus decay radioisotopes

\*BT1 days living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 spontaneous fission radioisotopes

**BERKELIUM 249 TARGET**

INIS: 1976-10-07; ETDE: 1976-11-01

BT1 targets

**BERKELIUM 250**

\*BT1 actinide nuclei  
\*BT1 berkelium isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 odd-odd nuclei

**BERKELIUM 251**

\*BT1 actinide nuclei  
\*BT1 berkelium isotopes  
\*BT1 beta-minus decay radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

**berkelium additions**

2000-04-12

(Prior to August 1993 this was a valid ETDE descriptor.)

USE alloys

**BERKELIUM ALLOYS**

INIS: 1979-04-27; ETDE: 1978-10-23

Alloys containing more than 1% Bk.

\*BT1 actinide alloys

**berkelium arsenides**

INIS: 1996-07-16; ETDE: 1978-10-23

(Until July 1996 this was a valid descriptor.)

USE arsenides

USE berkelium compounds

**berkelium bromides**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE berkelium compounds

USE bromides

**BERKELIUM CHLORIDES**

\*BT1 berkelium compounds  
\*BT1 chlorides

**BERKELIUM COMPLEXES**

\*BT1 actinide complexes  
\*BT1 transuranium complexes

**BERKELIUM COMPOUNDS**

1996-11-13

UF berkelium arsenides

UF berkelium bromides

UF berkelium hydrides

UF berkelium nitrides

UF berkelium phosphates

UF berkelium phosphides

UF berkelium selenides

UF berkelium sulfates

UF berkelium sulfides

UF berkelium tellurides

BT1 actinide compounds

\*BT1 transplutonium compounds

NT1 berkelium chlorides

NT1 berkelium fluorides

NT1 berkelium nitrates

NT1 berkelium oxides

**BERKELIUM FLUORIDES**

\*BT1 berkelium compounds  
\*BT1 fluorides

**berkelium hydrides**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE berkelium compounds

USE hydrides

## BERKELIUM IONS

\*BT1 ions

## BERKELIUM ISOTOPES

1999-07-16

BT1 isotopes  
 NT1 berkelium 240  
 NT1 berkelium 241  
 NT1 berkelium 242  
 NT1 berkelium 243  
 NT1 berkelium 244  
 NT1 berkelium 245  
 NT1 berkelium 246  
 NT1 berkelium 247  
 NT1 berkelium 248  
 NT1 berkelium 249  
 NT1 berkelium 250  
 NT1 berkelium 251

## BERKELIUM NITRATES

\*BT1 berkelium compounds  
 \*BT1 nitrates

## berkelium nitrides

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE berkelium compounds  
 USE nitrides

## BERKELIUM OXIDES

\*BT1 berkelium compounds  
 \*BT1 oxides

## berkelium phosphates

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE berkelium compounds  
 USE phosphates

## berkelium phosphides

INIS: 1996-07-16; ETDE: 1978-10-23

(Until July 1996 this was a valid descriptor.)

USE berkelium compounds  
 USE phosphides

## berkelium selenides

INIS: 1996-07-16; ETDE: 1978-10-23

(Until July 1996 this was a valid descriptor.)

USE berkelium compounds  
 USE selenides

## berkelium sulfates

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE berkelium compounds  
 USE sulfates

## berkelium sulfides

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE berkelium compounds  
 USE sulfides

## berkelium tellurides

INIS: 1996-07-16; ETDE: 1978-10-23

(Until July 1996 this was a valid descriptor.)

USE berkelium compounds  
 USE tellurides

## berl saddles

USE column packing

## berlin-2 research reactor

USE ber-2 reactor

## berms

INIS: 2000-04-12; ETDE: 1979-09-26

USE earth berms

## BERMUDA

INIS: 1984-02-22; ETDE: 1980-06-06

BT1 islands  
 RT atlantic ocean  
 RT united kingdom

## BERNOULLI LAW

RT fluid flow

## BERNSTEIN MODE

BT1 oscillation modes  
 RT cyclotron harmonics  
 RT ion wave instability  
 RT ion waves  
 RT plasma heating

## BERRIES

\*BT1 fruits  
 NT1 blueberries  
 NT1 raspberries  
 NT1 strawberries

## BERYL

\*BT1 silicate minerals  
 RT beryllium silicates

## beryllia

INIS: 1975-09-01; ETDE: 1979-05-03

USE beryllium oxides

## BERYLLIOSIS

\*BT1 pneumoconioses  
 RT beryllium compounds

## BERYLLIUM

1996-07-16

(Prior to August 1996 BERYLLIUM-ALPHA and BERYLLIUM-BETA were valid ETDE descriptors.)

UF *beryllium-alpha*  
 UF *beryllium-beta*  
 UF *beryllium moderators*  
 \*BT1 alkaline earth metals  
 RT moderators

## BERYLLIUM 10

\*BT1 beryllium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 years living radioisotopes

## BERYLLIUM 10 TARGET

ETDE: 1976-07-09

BT1 targets

## BERYLLIUM 11

\*BT1 beryllium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 seconds living radioisotopes

## BERYLLIUM 11 REACTIONS

1995-03-28

\*BT1 heavy ion reactions

## BERYLLIUM 11 TARGET

INIS: 1979-09-18; ETDE: 1979-10-23

BT1 targets

## BERYLLIUM 12

\*BT1 beryllium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes

## BERYLLIUM 13

\*BT1 beryllium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei

## BERYLLIUM 14

\*BT1 beryllium isotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes

## BERYLLIUM 5

\*BT1 beryllium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei

## BERYLLIUM 6

\*BT1 beryllium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei

## BERYLLIUM 6 TARGET

INIS: 1992-09-22; ETDE: 1977-05-07

BT1 targets

## BERYLLIUM 7

\*BT1 beryllium isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 RT beryllium 7 beams  
 RT beryllium 7 reactions

## BERYLLIUM 7 BEAMS

\*BT1 radioactive ion beams  
 RT beryllium 7

## BERYLLIUM 7 REACTIONS

INIS: 1984-01-18; ETDE: 1985-10-25

\*BT1 heavy ion reactions  
 RT beryllium 7

## BERYLLIUM 7 TARGET

INIS: 1976-11-08; ETDE: 1976-12-16

BT1 targets

## BERYLLIUM 8

\*BT1 alpha decay radioisotopes  
 \*BT1 beryllium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei

## BERYLLIUM 8 REACTIONS

INIS: 1983-09-05; ETDE: 1981-01-30

\*BT1 heavy ion reactions

## BERYLLIUM 8 TARGET

INIS: 1979-02-21; ETDE: 1979-03-28

BT1 targets

## BERYLLIUM 9

\*BT1 beryllium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 stable isotopes  
 RT beryllium 9 beams

## BERYLLIUM 9 BEAMS

\*BT1 ion beams  
 RT beryllium 9

## BERYLLIUM 9 REACTIONS

\*BT1 heavy ion reactions

## BERYLLIUM 9 TARGET

ETDE: 1976-07-09

BT1 targets

## BERYLLIUM ADDITIONS

*Alloys containing not more than 1% Be are listed here.*

\*BT1 beryllium alloys

## BERYLLIUM ALLOYS

*Alloys containing more than 1% Be.*

BT1 alloys  
 NT1 beryllium additions

NT1 beryllium base alloys  
RT moderators

**beryllium-alpha**

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE beryllium

**BERYLLIUM BASE ALLOYS**

\*BT1 beryllium alloys

**beryllium-beta**

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE beryllium

**BERYLLIUM BORIDES**\*BT1 beryllium compounds  
\*BT1 borides**BERYLLIUM BROMIDES**\*BT1 beryllium compounds  
\*BT1 bromides**BERYLLIUM CARBIDES**\*BT1 beryllium compounds  
\*BT1 carbides**BERYLLIUM CARBONATES**\*BT1 beryllium compounds  
\*BT1 carbonates**BERYLLIUM CHLORIDES**\*BT1 beryllium compounds  
\*BT1 chlorides**BERYLLIUM COMPLEXES**

\*BT1 alkaline earth metal complexes

**BERYLLIUM COMPOUNDS**

1997-06-17

UF beryllium iodides

UF beryllium phosphides

UF beryllium sulfides

SF gadolinite

BT1 alkaline earth metal compounds

NT1 beryllium borides

NT1 beryllium bromides

NT1 beryllium carbides

NT1 beryllium carbonates

NT1 beryllium chlorides

NT1 beryllium fluorides

NT1 beryllium hydrides

NT1 beryllium hydroxides

NT1 beryllium nitrates

NT1 beryllium nitrides

NT1 beryllium oxides

NT1 beryllium phosphates

NT1 beryllium selenides

NT1 beryllium silicates

NT1 beryllium sulfates

NT1 beryllium tellurides

RT berylliosis

RT moderators

**BERYLLIUM FLUORIDES**\*BT1 beryllium compounds  
\*BT1 fluorides  
RT flibe**BERYLLIUM HYDRIDES**\*BT1 beryllium compounds  
\*BT1 hydrides**BERYLLIUM HYDROXIDES**\*BT1 beryllium compounds  
\*BT1 hydroxides**beryllium iodides**

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE beryllium compounds

USE iodides

**BERYLLIUM IONS**

\*BT1 ions

**BERYLLIUM ISOTOPES**

1999-02-01

\*BT1 alkaline earth isotopes

NT1 beryllium 10

NT1 beryllium 11

NT1 beryllium 12

NT1 beryllium 13

NT1 beryllium 14

NT1 beryllium 5

NT1 beryllium 6

NT1 beryllium 7

NT1 beryllium 8

NT1 beryllium 9

**BERYLLIUM MODERATED REACTORS**

UF in-core thermionic reactor

UF itr reactor

\*BT1 metal moderated reactors

NT1 agata reactor

NT1 br-02 reactor

NT1 ebora reactor

NT1 ewg-1 reactor

NT1 maria reactor

NT1 nuclear furnace reactor

**beryllium moderators**

USE beryllium

**BERYLLIUM NITRATES**\*BT1 beryllium compounds  
\*BT1 nitrates**BERYLLIUM NITRIDES**\*BT1 beryllium compounds  
\*BT1 nitrides**BERYLLIUM OXIDES**

UF beryllia

\*BT1 beryllium compounds

\*BT1 oxides

RT chrysoberyl

RT moderators

**BERYLLIUM PHOSPHATES**\*BT1 beryllium compounds  
\*BT1 phosphates**beryllium phosphides**

INIS: 1996-07-16; ETDE: 1977-06-02

(Until July 1996 this was a valid descriptor.)

USE beryllium compounds

USE phosphides

**BERYLLIUM SELENIDES**

INIS: 2000-04-12; ETDE: 1977-05-07

\*BT1 beryllium compounds

\*BT1 selenides

**BERYLLIUM SILICATES**\*BT1 beryllium compounds  
\*BT1 silicates  
RT beryl  
RT helvite  
RT silicate minerals**BERYLLIUM SULFATES**\*BT1 beryllium compounds  
\*BT1 sulfates**beryllium sulfides**

1996-07-16

(Until July 1996 this was a valid descriptor.)

USE beryllium compounds

USE sulfides

**BERYLLIUM TELLURIDES**

INIS: 1991-09-16; ETDE: 1977-05-07

\*BT1 beryllium compounds

\*BT1 tellurides

**beryllon**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE arsonic acids

USE azo dyes

USE dicarboxylic acids

USE naphthols

USE sulfonic acids

**BESM COMPUTERS**

BT1 computers

**bessel differential equation**

USE fokker-planck equation

**BESSEL FUNCTIONS**

UF hankel functions

UF neumann functions

BT1 functions

RT neumann series

**BESSY STORAGE RING**

INIS: 1985-04-22; ETDE: 1985-05-07

Berliner Elektronenspeicherring-Gesellschaft fuer Synchrotronstrahlung.

BT1 storage rings

**BETA-AMINOETHYL****ISOTHIUREA**

INIS: 2005-01-31; ETDE: 2005-02-01

(Prior to January 2005 AET was used for this concept.)

UF aet (aminoethylthiopseudourea)

UF aminoethylisothiuronium bromide

UF aminoethylthiopseudourea

\*BT1 amines

\*BT1 radioprotective substances

\*BT1 thioureas

**beta backscattering gages**

USE radiometric gages

**beta beams (electrons)**

USE electron beams

**beta beams (positrons)**

USE positron beams

**BETA DECAY**

1996-07-08

Neutron and nuclear beta decay.

SF way-wigner formula

\*BT1 nuclear decay

NT1 beta-minus decay

NT2 double beta decay

NT1 beta-plus decay

NT1 electron capture decay

NT2 k capture

NT2 l capture

NT2 m capture

RT beta decay radioisotopes

RT beta particles

RT beta spectra

RT fermi plot

RT feynman-gell-mann theory

RT fierz interference

RT ft value

RT gamow-teller rules

RT internal ionization

RT knipp-uhlenbeck theory

RT lee-yang theory

RT semileptonic decay

RT two-component neutrino theory

**BETA DECAY RADIOISOTOPES**

1997-02-07

\*BT1 radioisotopes

NT1 beta-minus decay radioisotopes

NT2 actinium 226

NT2 actinium 227

NT2 actinium 228

NT2 actinium 229  
 NT2 actinium 230  
 NT2 actinium 231  
 NT2 actinium 232  
 NT2 actinium 233  
 NT2 actinium 234  
 NT2 aluminium 28  
 NT2 aluminium 29  
 NT2 aluminium 30  
 NT2 aluminium 31  
 NT2 aluminium 32  
 NT2 aluminium 34  
 NT2 aluminium 36  
 NT2 aluminium 37  
 NT2 aluminium 40  
 NT2 americium 242  
 NT2 americium 244  
 NT2 americium 245  
 NT2 americium 246  
 NT2 americium 247  
 NT2 antimony 122  
 NT2 antimony 124  
 NT2 antimony 125  
 NT2 antimony 126  
 NT2 antimony 127  
 NT2 antimony 128  
 NT2 antimony 129  
 NT2 antimony 130  
 NT2 antimony 131  
 NT2 antimony 132  
 NT2 antimony 133  
 NT2 antimony 134  
 NT2 antimony 135  
 NT2 antimony 136  
 NT2 argon 39  
 NT2 argon 41  
 NT2 argon 42  
 NT2 argon 43  
 NT2 argon 44  
 NT2 argon 45  
 NT2 argon 46  
 NT2 arsenic 74  
 NT2 arsenic 76  
 NT2 arsenic 77  
 NT2 arsenic 78  
 NT2 arsenic 79  
 NT2 arsenic 80  
 NT2 arsenic 81  
 NT2 arsenic 82  
 NT2 arsenic 83  
 NT2 arsenic 84  
 NT2 arsenic 85  
 NT2 arsenic 86  
 NT2 arsenic 87  
 NT2 astatine 217  
 NT2 astatine 218  
 NT2 astatine 219  
 NT2 astatine 220  
 NT2 astatine 221  
 NT2 astatine 222  
 NT2 astatine 223  
 NT2 barium 139  
 NT2 barium 140  
 NT2 barium 141  
 NT2 barium 142  
 NT2 barium 143  
 NT2 barium 144  
 NT2 barium 145  
 NT2 barium 146  
 NT2 barium 147  
 NT2 barium 148  
 NT2 barium 149  
 NT2 berkelium 248  
 NT2 berkelium 249  
 NT2 berkelium 250  
 NT2 berkelium 251  
 NT2 beryllium 10  
 NT2 beryllium 11  
 NT2 beryllium 12

NT2 beryllium 14  
 NT2 bismuth 210  
 NT2 bismuth 211  
 NT2 bismuth 212  
 NT2 bismuth 213  
 NT2 bismuth 214  
 NT2 bismuth 215  
 NT2 bismuth 216  
 NT2 boron 12  
 NT2 boron 13  
 NT2 boron 14  
 NT2 boron 15  
 NT2 boron 16  
 NT2 boron 17  
 NT2 boron 19  
 NT2 bromine 80  
 NT2 bromine 82  
 NT2 bromine 83  
 NT2 bromine 84  
 NT2 bromine 85  
 NT2 bromine 86  
 NT2 bromine 87  
 NT2 bromine 88  
 NT2 bromine 89  
 NT2 bromine 90  
 NT2 bromine 91  
 NT2 bromine 92  
 NT2 bromine 93  
 NT2 cadmium 113  
 NT2 cadmium 115  
 NT2 cadmium 117  
 NT2 cadmium 118  
 NT2 cadmium 119  
 NT2 cadmium 120  
 NT2 cadmium 121  
 NT2 cadmium 122  
 NT2 cadmium 123  
 NT2 cadmium 124  
 NT2 cadmium 125  
 NT2 cadmium 126  
 NT2 cadmium 127  
 NT2 cadmium 128  
 NT2 cadmium 130  
 NT2 calcium 45  
 NT2 calcium 47  
 NT2 calcium 49  
 NT2 calcium 50  
 NT2 calcium 51  
 NT2 calcium 52  
 NT2 calcium 53  
 NT2 californium 253  
 NT2 californium 255  
 NT2 carbon 14  
 NT2 carbon 15  
 NT2 carbon 16  
 NT2 carbon 17  
 NT2 carbon 18  
 NT2 cerium 141  
 NT2 cerium 143  
 NT2 cerium 144  
 NT2 cerium 145  
 NT2 cerium 146  
 NT2 cerium 147  
 NT2 cerium 148  
 NT2 cerium 149  
 NT2 cerium 150  
 NT2 cerium 151  
 NT2 cerium 152  
 NT2 cesium 130  
 NT2 cesium 132  
 NT2 cesium 134  
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 NT2 cesium 137  
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 NT2 cesium 141  
 NT2 cesium 142

NT2 cesium 143  
 NT2 cesium 144  
 NT2 cesium 145  
 NT2 cesium 146  
 NT2 cesium 147  
 NT2 cesium 148  
 NT2 cesium 149  
 NT2 cesium 150  
 NT2 chlorine 36  
 NT2 chlorine 38  
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 NT2 chlorine 40  
 NT2 chlorine 41  
 NT2 chromium 55  
 NT2 chromium 56  
 NT2 chromium 57  
 NT2 chromium 58  
 NT2 chromium 59  
 NT2 chromium 60  
 NT2 chromium 62  
 NT2 chromium 63  
 NT2 chromium 64  
 NT2 chromium 65  
 NT2 chromium 66  
 NT2 cobalt 60  
 NT2 cobalt 61  
 NT2 cobalt 62  
 NT2 cobalt 63  
 NT2 cobalt 64  
 NT2 cobalt 65  
 NT2 cobalt 66  
 NT2 cobalt 67  
 NT2 copper 64  
 NT2 copper 66  
 NT2 copper 67  
 NT2 copper 68  
 NT2 copper 69  
 NT2 copper 70  
 NT2 copper 71  
 NT2 copper 72  
 NT2 copper 73  
 NT2 copper 74  
 NT2 copper 75  
 NT2 copper 76  
 NT2 copper 77  
 NT2 copper 78  
 NT2 copper 79  
 NT2 curium 249  
 NT2 curium 250  
 NT2 curium 251  
 NT2 dysprosium 165  
 NT2 dysprosium 166  
 NT2 dysprosium 167  
 NT2 dysprosium 168  
 NT2 dysprosium 169  
 NT2 einsteinium 254  
 NT2 einsteinium 255  
 NT2 einsteinium 256  
 NT2 erbium 169  
 NT2 erbium 171  
 NT2 erbium 172  
 NT2 erbium 173  
 NT2 erbium 174  
 NT2 erbium 175  
 NT2 europium 150  
 NT2 europium 152  
 NT2 europium 154  
 NT2 europium 155  
 NT2 europium 156  
 NT2 europium 157  
 NT2 europium 158  
 NT2 europium 159  
 NT2 europium 160  
 NT2 europium 161  
 NT2 europium 162  
 NT2 fluorine 20  
 NT2 fluorine 21  
 NT2 fluorine 22  
 NT2 fluorine 23

NT2	fluorine 24	NT2	indium 123	NT2	lutetium 180
NT2	fluorine 25	NT2	indium 124	NT2	lutetium 181
NT2	fluorine 26	NT2	indium 125	NT2	lutetium 182
NT2	fluorine 27	NT2	indium 126	NT2	lutetium 183
NT2	francium 220	NT2	indium 127	NT2	lutetium 184
NT2	francium 222	NT2	indium 128	NT2	lutetium 187
NT2	francium 223	NT2	indium 129	NT2	magnesium 27
NT2	francium 224	NT2	indium 130	NT2	magnesium 28
NT2	francium 225	NT2	indium 131	NT2	magnesium 29
NT2	francium 226	NT2	indium 132	NT2	magnesium 30
NT2	francium 227	NT2	indium 133	NT2	magnesium 31
NT2	francium 228	NT2	indium 134	NT2	magnesium 32
NT2	francium 229	NT2	indium 135	NT2	magnesium 33
NT2	francium 230	NT2	iodine 126	NT2	magnesium 34
NT2	francium 231	NT2	iodine 128	NT2	magnesium 40
NT2	gadolinium 159	NT2	iodine 129	NT2	manganese 56
NT2	gadolinium 161	NT2	iodine 130	NT2	manganese 57
NT2	gadolinium 162	NT2	iodine 131	NT2	manganese 58
NT2	gadolinium 163	NT2	iodine 132	NT2	manganese 59
NT2	gadolinium 164	NT2	iodine 133	NT2	manganese 60
NT2	gadolinium 165	NT2	iodine 134	NT2	manganese 61
NT2	gallium 70	NT2	iodine 135	NT2	manganese 62
NT2	gallium 72	NT2	iodine 136	NT2	manganese 63
NT2	gallium 73	NT2	iodine 137	NT2	mercury 203
NT2	gallium 74	NT2	iodine 138	NT2	mercury 205
NT2	gallium 75	NT2	iodine 139	NT2	mercury 206
NT2	gallium 76	NT2	iodine 140	NT2	molybdenum 101
NT2	gallium 77	NT2	iodine 141	NT2	molybdenum 102
NT2	gallium 78	NT2	iodine 142	NT2	molybdenum 103
NT2	gallium 79	NT2	iridium 192	NT2	molybdenum 104
NT2	gallium 80	NT2	iridium 194	NT2	molybdenum 105
NT2	gallium 81	NT2	iridium 195	NT2	molybdenum 106
NT2	gallium 82	NT2	iridium 196	NT2	molybdenum 107
NT2	gallium 83	NT2	iridium 197	NT2	molybdenum 108
NT2	gallium 84	NT2	iridium 198	NT2	molybdenum 109
NT2	germanium 75	NT2	iridium 199	NT2	molybdenum 110
NT2	germanium 77	NT2	iron 59	NT2	molybdenum 99
NT2	germanium 78	NT2	iron 60	NT2	neodymium 147
NT2	germanium 79	NT2	iron 61	NT2	neodymium 149
NT2	germanium 80	NT2	iron 62	NT2	neodymium 151
NT2	germanium 81	NT2	iron 63	NT2	neodymium 152
NT2	germanium 82	NT2	iron 64	NT2	neodymium 153
NT2	germanium 83	NT2	krypton 85	NT2	neodymium 154
NT2	germanium 84	NT2	krypton 87	NT2	neodymium 155
NT2	germanium 85	NT2	krypton 88	NT2	neodymium 156
NT2	gold 196	NT2	krypton 89	NT2	neon 23
NT2	gold 198	NT2	krypton 90	NT2	neon 24
NT2	gold 199	NT2	krypton 91	NT2	neon 25
NT2	gold 200	NT2	krypton 92	NT2	neon 26
NT2	gold 201	NT2	krypton 93	NT2	neon 27
NT2	gold 202	NT2	krypton 94	NT2	neon 29
NT2	gold 203	NT2	krypton 95	NT2	neon 30
NT2	gold 204	NT2	krypton 97	NT2	neptunium 236
NT2	gold 205	NT2	lanthanum 138	NT2	neptunium 238
NT2	hafnium 181	NT2	lanthanum 140	NT2	neptunium 239
NT2	hafnium 182	NT2	lanthanum 141	NT2	neptunium 240
NT2	hafnium 183	NT2	lanthanum 142	NT2	neptunium 241
NT2	hafnium 184	NT2	lanthanum 143	NT2	neptunium 242
NT2	helium 6	NT2	lanthanum 144	NT2	neptunium 243
NT2	helium 7	NT2	lanthanum 145	NT2	neptunium 244
NT2	helium 8	NT2	lanthanum 146	NT2	neutron-rich isotopes
NT2	holmium 164	NT2	lanthanum 147	NT2	nickel 63
NT2	holmium 166	NT2	lanthanum 148	NT2	nickel 65
NT2	holmium 167	NT2	lanthanum 149	NT2	nickel 66
NT2	holmium 168	NT2	lanthanum 150	NT2	nickel 67
NT2	holmium 169	NT2	lead 209	NT2	nickel 69
NT2	holmium 170	NT2	lead 210	NT2	nickel 70
NT2	holmium 171	NT2	lead 211	NT2	nickel 71
NT2	holmium 172	NT2	lead 212	NT2	nickel 72
NT2	indium 112	NT2	lead 213	NT2	nickel 73
NT2	indium 114	NT2	lead 214	NT2	nickel 74
NT2	indium 115	NT2	lithium 11	NT2	niobium 100
NT2	indium 116	NT2	lithium 13	NT2	niobium 101
NT2	indium 117	NT2	lithium 8	NT2	niobium 102
NT2	indium 118	NT2	lithium 9	NT2	niobium 103
NT2	indium 119	NT2	lutetium 176	NT2	niobium 104
NT2	indium 120	NT2	lutetium 177	NT2	niobium 105
NT2	indium 121	NT2	lutetium 178	NT2	niobium 106
NT2	indium 122	NT2	lutetium 179	NT2	niobium 108

NT2 niobium 94  
NT2 niobium 95  
NT2 niobium 96  
NT2 niobium 97  
NT2 niobium 98  
NT2 niobium 99  
NT2 nitrogen 16  
NT2 nitrogen 17  
NT2 nitrogen 18  
NT2 nitrogen 19  
NT2 nitrogen 20  
NT2 nitrogen 22  
NT2 nitrogen 23  
NT2 osmium 191  
NT2 osmium 193  
NT2 osmium 194  
NT2 osmium 195  
NT2 osmium 196  
NT2 oxygen 19  
NT2 oxygen 20  
NT2 oxygen 21  
NT2 oxygen 22  
NT2 oxygen 23  
NT2 oxygen 24  
NT2 palladium 107  
NT2 palladium 109  
NT2 palladium 111  
NT2 palladium 112  
NT2 palladium 113  
NT2 palladium 114  
NT2 palladium 115  
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NT2 palladium 117  
NT2 palladium 118  
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NT2 palladium 120  
NT2 phosphorus 32  
NT2 phosphorus 33  
NT2 phosphorus 34  
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NT2 phosphorus 36  
NT2 phosphorus 37  
NT2 phosphorus 38  
NT2 phosphorus 40  
NT2 phosphorus 41  
NT2 phosphorus 42  
NT2 platinum 197  
NT2 platinum 199  
NT2 platinum 200  
NT2 platinum 201  
NT2 plutonium 241  
NT2 plutonium 243  
NT2 plutonium 245  
NT2 plutonium 246  
NT2 polonium 215  
NT2 polonium 218  
NT2 potassium 40  
NT2 potassium 42  
NT2 potassium 43  
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NT2 potassium 47  
NT2 potassium 48  
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NT2 potassium 51  
NT2 potassium 52  
NT2 potassium 53  
NT2 potassium 54  
NT2 praseodymium 142  
NT2 praseodymium 143  
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NT2 praseodymium 145  
NT2 praseodymium 146  
NT2 praseodymium 147  
NT2 praseodymium 148  
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NT2 praseodymium 150

NT2 praseodymium 151  
NT2 praseodymium 152  
NT2 praseodymium 153  
NT2 praseodymium 154  
NT2 promethium 146  
NT2 promethium 147  
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NT2 promethium 151  
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NT2 radium 225  
NT2 radium 227  
NT2 radium 228  
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NT2 radium 230  
NT2 radium 231  
NT2 radium 232  
NT2 radon 221  
NT2 radon 223  
NT2 radon 224  
NT2 radon 225  
NT2 radon 226  
NT2 radon 227  
NT2 radon 228  
NT2 rhenium 186  
NT2 rhenium 187  
NT2 rhenium 188  
NT2 rhenium 189  
NT2 rhenium 190  
NT2 rhenium 191  
NT2 rhenium 192  
NT2 rhodium 102  
NT2 rhodium 104  
NT2 rhodium 105  
NT2 rhodium 106  
NT2 rhodium 107  
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NT2 rhodium 109  
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NT2 rubidium 86  
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NT2 rubidium 90  
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NT2 rubidium 92  
NT2 rubidium 93  
NT2 rubidium 94  
NT2 rubidium 95  
NT2 rubidium 96  
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NT2 rubidium 98  
NT2 rubidium 99

NT2 ruthenium 103  
NT2 ruthenium 105  
NT2 ruthenium 106  
NT2 ruthenium 107  
NT2 ruthenium 108  
NT2 ruthenium 109  
NT2 ruthenium 110  
NT2 ruthenium 111  
NT2 ruthenium 112  
NT2 ruthenium 113  
NT2 ruthenium 114  
NT2 samarium 151  
NT2 samarium 153  
NT2 samarium 155  
NT2 samarium 156  
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NT2 samarium 158  
NT2 samarium 159  
NT2 samarium 160  
NT2 scandium 46  
NT2 scandium 47  
NT2 scandium 48  
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NT2 scandium 50  
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NT2 scandium 52  
NT2 scandium 53  
NT2 scandium 57  
NT2 scandium 58  
NT2 selenium 79  
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NT2 silicon 36  
NT2 silicon 37  
NT2 silicon 38  
NT2 silicon 39  
NT2 silver 108  
NT2 silver 110  
NT2 silver 111  
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NT2 silver 113  
NT2 silver 114  
NT2 silver 115  
NT2 silver 116  
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NT2 silver 120  
NT2 silver 121  
NT2 silver 122  
NT2 silver 123  
NT2 sodium 24  
NT2 sodium 25  
NT2 sodium 26  
NT2 sodium 27  
NT2 sodium 28  
NT2 sodium 29  
NT2 sodium 30  
NT2 sodium 31  
NT2 sodium 32  
NT2 sodium 33  
NT2 sodium 34  
NT2 sodium 35  
NT2 strontium 100  
NT2 strontium 101  
NT2 strontium 102  
NT2 strontium 89

NT2	strontium 90	NT2	tin 123	NT2	zinc 76
NT2	strontium 91	NT2	tin 125	NT2	zinc 77
NT2	strontium 92	NT2	tin 126	NT2	zinc 78
NT2	strontium 93	NT2	tin 127	NT2	zinc 79
NT2	strontium 94	NT2	tin 128	NT2	zinc 80
NT2	strontium 95	NT2	tin 129	NT2	zinc 81
NT2	strontium 96	NT2	tin 130	NT2	zirconium 100
NT2	strontium 97	NT2	tin 131	NT2	zirconium 101
NT2	strontium 98	NT2	tin 132	NT2	zirconium 102
NT2	strontium 99	NT2	tin 133	NT2	zirconium 103
NT2	sulfur 35	NT2	tin 134	NT2	zirconium 104
NT2	sulfur 37	NT2	tin 135	NT2	zirconium 105
NT2	sulfur 38	NT2	tin 137	NT2	zirconium 109
NT2	sulfur 39	NT2	titanium 51	NT2	zirconium 93
NT2	sulfur 40	NT2	titanium 52	NT2	zirconium 95
NT2	sulfur 43	NT2	titanium 53	NT2	zirconium 97
NT2	tantalum 180	NT2	titanium 54	NT2	zirconium 98
NT2	tantalum 182	NT2	titanium 55	NT2	zirconium 99
NT2	tantalum 183	NT2	titanium 56	NT1	beta-plus decay radioisotopes
NT2	tantalum 184	NT2	titanium 58	NT2	aluminium 22
NT2	tantalum 185	NT2	titanium 59	NT2	aluminium 23
NT2	tantalum 186	NT2	titanium 60	NT2	aluminium 24
NT2	technetium 100	NT2	tritium	NT2	aluminium 25
NT2	technetium 101	NT2	tungsten 185	NT2	aluminium 26
NT2	technetium 102	NT2	tungsten 187	NT2	americium 235
NT2	technetium 103	NT2	tungsten 188	NT2	americium 236
NT2	technetium 104	NT2	tungsten 189	NT2	antimony 104
NT2	technetium 105	NT2	uranium 237	NT2	antimony 105
NT2	technetium 106	NT2	uranium 239	NT2	antimony 108
NT2	technetium 107	NT2	uranium 240	NT2	antimony 110
NT2	technetium 108	NT2	uranium 241	NT2	antimony 111
NT2	technetium 109	NT2	uranium 242	NT2	antimony 112
NT2	technetium 110	NT2	vanadium 50	NT2	antimony 113
NT2	technetium 111	NT2	vanadium 52	NT2	antimony 114
NT2	technetium 112	NT2	vanadium 53	NT2	antimony 115
NT2	technetium 113	NT2	vanadium 54	NT2	antimony 116
NT2	technetium 98	NT2	vanadium 55	NT2	antimony 117
NT2	technetium 99	NT2	vanadium 56	NT2	antimony 118
NT2	tellurium 127	NT2	vanadium 57	NT2	antimony 120
NT2	tellurium 129	NT2	vanadium 58	NT2	antimony 122
NT2	tellurium 131	NT2	vanadium 61	NT2	argon 31
NT2	tellurium 132	NT2	vanadium 62	NT2	argon 32
NT2	tellurium 133	NT2	vanadium 63	NT2	argon 33
NT2	tellurium 134	NT2	xenon 133	NT2	argon 34
NT2	tellurium 135	NT2	xenon 135	NT2	argon 35
NT2	tellurium 136	NT2	xenon 137	NT2	arsenic 66
NT2	tellurium 137	NT2	xenon 138	NT2	arsenic 67
NT2	tellurium 138	NT2	xenon 139	NT2	arsenic 68
NT2	terbium 156	NT2	xenon 140	NT2	arsenic 69
NT2	terbium 158	NT2	xenon 141	NT2	arsenic 70
NT2	terbium 160	NT2	xenon 142	NT2	arsenic 71
NT2	terbium 161	NT2	xenon 143	NT2	arsenic 72
NT2	terbium 162	NT2	xenon 144	NT2	arsenic 74
NT2	terbium 163	NT2	xenon 145	NT2	astatine 205
NT2	terbium 164	NT2	ytterbium 175	NT2	astatine 206
NT2	terbium 165	NT2	ytterbium 177	NT2	barium 114
NT2	terbium 166	NT2	ytterbium 178	NT2	barium 115
NT2	thallium 204	NT2	ytterbium 179	NT2	barium 116
NT2	thallium 206	NT2	ytterbium 180	NT2	barium 117
NT2	thallium 207	NT2	yttrium 100	NT2	barium 118
NT2	thallium 208	NT2	yttrium 101	NT2	barium 119
NT2	thallium 209	NT2	yttrium 102	NT2	barium 120
NT2	thallium 210	NT2	yttrium 103	NT2	barium 121
NT2	thorium 231	NT2	yttrium 90	NT2	barium 122
NT2	thorium 233	NT2	yttrium 91	NT2	barium 123
NT2	thorium 234	NT2	yttrium 92	NT2	barium 124
NT2	thorium 235	NT2	yttrium 93	NT2	barium 125
NT2	thorium 236	NT2	yttrium 94	NT2	barium 126
NT2	thorium 237	NT2	yttrium 95	NT2	barium 127
NT2	thulium 168	NT2	yttrium 96	NT2	barium 129
NT2	thulium 170	NT2	yttrium 97	NT2	bismuth 194
NT2	thulium 171	NT2	yttrium 98	NT2	bismuth 197
NT2	thulium 172	NT2	yttrium 99	NT2	bismuth 200
NT2	thulium 173	NT2	zinc 69	NT2	bismuth 202
NT2	thulium 174	NT2	zinc 71	NT2	bismuth 203
NT2	thulium 175	NT2	zinc 72	NT2	bismuth 205
NT2	thulium 176	NT2	zinc 73	NT2	bismuth 206
NT2	thulium 177	NT2	zinc 74	NT2	bismuth 207
NT2	tin 121	NT2	zinc 75	NT2	boron 8



NT2 bromine 69  
NT2 bromine 70  
NT2 bromine 71  
NT2 bromine 72  
NT2 bromine 73  
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NT2 bromine 75  
NT2 bromine 76  
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NT2 cobalt 58  
NT2 copper 56  
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NT2 copper 60  
NT2 copper 61

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NT2 copper 64  
NT2 curium 232  
NT2 dysprosium 140  
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NT2 fluorine 17  
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NT2 gadolinium 135  
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NT2 gallium 60  
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NT2 gallium 66  
NT2 gallium 68  
NT2 germanium 61  
NT2 germanium 64  
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NT2 germanium 67  
NT2 germanium 69  
NT2 gold 182  
NT2 gold 184  
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NT2 gold 188  
NT2 gold 189

NT2 gold 190  
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NT2 gold 194  
NT2 gold 196  
NT2 hafnium 154  
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NT2 hafnium 162  
NT2 hafnium 163  
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NT2 hafnium 167  
NT2 hafnium 168  
NT2 hafnium 169  
NT2 holmium 145  
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NT2 iodine 128  
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NT2 iridium 188  
NT2 iridium 190  
NT2 iron 45  
NT2 iron 46  
NT2 iron 49  
NT2 iron 51  
NT2 iron 52  
NT2 iron 53  
NT2 krypton 69  
NT2 krypton 71  
NT2 krypton 72  
NT2 krypton 73  
NT2 krypton 74  
NT2 krypton 75  
NT2 krypton 77

NT2	krypton 79	NT2	neon 18	NT2	promethium 133
NT2	lanthanum 121	NT2	neon 19	NT2	promethium 134
NT2	lanthanum 125	NT2	neptunium 234	NT2	promethium 135
NT2	lanthanum 126	NT2	nickel 49	NT2	promethium 136
NT2	lanthanum 127	NT2	nickel 50	NT2	promethium 137
NT2	lanthanum 128	NT2	nickel 52	NT2	promethium 138
NT2	lanthanum 129	NT2	nickel 53	NT2	promethium 139
NT2	lanthanum 130	NT2	nickel 55	NT2	promethium 140
NT2	lanthanum 131	NT2	nickel 56	NT2	promethium 141
NT2	lanthanum 132	NT2	nickel 57	NT2	promethium 142
NT2	lanthanum 133	NT2	niobium 83	NT2	protactinium 230
NT2	lanthanum 134	NT2	niobium 84	NT2	radon 207
NT2	lanthanum 135	NT2	niobium 85	NT2	radon 209
NT2	lanthanum 136	NT2	niobium 87	NT2	rhenium 165
NT2	lead 187	NT2	niobium 88	NT2	rhenium 170
NT2	lead 188	NT2	niobium 89	NT2	rhenium 171
NT2	lead 189	NT2	niobium 90	NT2	rhenium 172
NT2	lead 190	NT2	niobium 92	NT2	rhenium 174
NT2	lead 191	NT2	nitrogen 12	NT2	rhenium 175
NT2	lead 192	NT2	nitrogen 13	NT2	rhenium 176
NT2	lead 193	NT2	osmium 172	NT2	rhenium 177
NT2	lead 194	NT2	osmium 173	NT2	rhenium 178
NT2	lead 195	NT2	osmium 174	NT2	rhenium 179
NT2	lead 199	NT2	osmium 175	NT2	rhenium 180
NT2	lead 201	NT2	osmium 176	NT2	rhenium 182
NT2	lutetium 153	NT2	osmium 177	NT2	rhodium 100
NT2	lutetium 161	NT2	osmium 178	NT2	rhodium 102
NT2	lutetium 162	NT2	osmium 179	NT2	rhodium 91
NT2	lutetium 163	NT2	osmium 181	NT2	rhodium 92
NT2	lutetium 164	NT2	osmium 183	NT2	rhodium 93
NT2	lutetium 165	NT2	oxygen 13	NT2	rhodium 94
NT2	lutetium 166	NT2	oxygen 14	NT2	rhodium 95
NT2	lutetium 167	NT2	oxygen 15	NT2	rhodium 96
NT2	lutetium 168	NT2	palladium 101	NT2	rhodium 97
NT2	lutetium 169	NT2	palladium 93	NT2	rhodium 98
NT2	lutetium 170	NT2	palladium 94	NT2	rhodium 99
NT2	lutetium 171	NT2	palladium 95	NT2	rubidium 73
NT2	lutetium 174	NT2	palladium 97	NT2	rubidium 74
NT2	magnesium 20	NT2	palladium 98	NT2	rubidium 75
NT2	magnesium 21	NT2	palladium 99	NT2	rubidium 76
NT2	magnesium 22	NT2	phosphorus 26	NT2	rubidium 77
NT2	magnesium 23	NT2	phosphorus 28	NT2	rubidium 78
NT2	manganese 48	NT2	phosphorus 29	NT2	rubidium 79
NT2	manganese 49	NT2	phosphorus 30	NT2	rubidium 80
NT2	manganese 50	NT2	platinum 174	NT2	rubidium 81
NT2	manganese 51	NT2	platinum 182	NT2	rubidium 82
NT2	manganese 52	NT2	platinum 183	NT2	rubidium 84
NT2	mercury 179	NT2	platinum 184	NT2	ruthenium 88
NT2	mercury 181	NT2	platinum 185	NT2	ruthenium 89
NT2	mercury 182	NT2	platinum 187	NT2	ruthenium 92
NT2	mercury 183	NT2	platinum 189	NT2	ruthenium 93
NT2	mercury 184	NT2	polonium 198	NT2	ruthenium 95
NT2	mercury 185	NT2	polonium 199	NT2	samarium 133
NT2	mercury 186	NT2	polonium 200	NT2	samarium 134
NT2	mercury 187	NT2	polonium 201	NT2	samarium 135
NT2	mercury 188	NT2	polonium 202	NT2	samarium 136
NT2	mercury 191	NT2	polonium 203	NT2	samarium 137
NT2	mercury 193	NT2	polonium 205	NT2	samarium 138
NT2	molybdenum 86	NT2	polonium 207	NT2	samarium 139
NT2	molybdenum 87	NT2	potassium 35	NT2	samarium 140
NT2	molybdenum 88	NT2	potassium 36	NT2	samarium 141
NT2	molybdenum 89	NT2	potassium 37	NT2	samarium 142
NT2	molybdenum 90	NT2	potassium 38	NT2	samarium 143
NT2	molybdenum 91	NT2	potassium 40	NT2	scandium 40
NT2	neodymium 127	NT2	praseodymium 126	NT2	scandium 41
NT2	neodymium 128	NT2	praseodymium 127	NT2	scandium 42
NT2	neodymium 129	NT2	praseodymium 129	NT2	scandium 43
NT2	neodymium 130	NT2	praseodymium 130	NT2	scandium 44
NT2	neodymium 131	NT2	praseodymium 131	NT2	selenium 65
NT2	neodymium 132	NT2	praseodymium 132	NT2	selenium 67
NT2	neodymium 133	NT2	praseodymium 133	NT2	selenium 68
NT2	neodymium 134	NT2	praseodymium 134	NT2	selenium 69
NT2	neodymium 135	NT2	praseodymium 135	NT2	selenium 70
NT2	neodymium 136	NT2	praseodymium 136	NT2	selenium 71
NT2	neodymium 137	NT2	praseodymium 137	NT2	selenium 73
NT2	neodymium 138	NT2	praseodymium 138	NT2	silicon 24
NT2	neodymium 139	NT2	praseodymium 139	NT2	silicon 25
NT2	neodymium 141	NT2	praseodymium 140	NT2	silicon 26
NT2	neon 17	NT2	promethium 132	NT2	silicon 27

NT2	silver 100	NT2	terbium 156	NT2	ytterbium 163
NT2	silver 101	NT2	thallium 182	NT2	ytterbium 165
NT2	silver 102	NT2	thallium 184	NT2	ytterbium 167
NT2	silver 103	NT2	thallium 186	NT2	yttrium 79
NT2	silver 104	NT2	thallium 188	NT2	yttrium 80
NT2	silver 105	NT2	thallium 189	NT2	yttrium 81
NT2	silver 106	NT2	thallium 190	NT2	yttrium 82
NT2	silver 108	NT2	thallium 191	NT2	yttrium 83
NT2	silver 94	NT2	thallium 192	NT2	yttrium 84
NT2	silver 96	NT2	thallium 193	NT2	yttrium 85
NT2	silver 98	NT2	thallium 194	NT2	yttrium 86
NT2	silver 99	NT2	thallium 195	NT2	yttrium 87
NT2	sodium 19	NT2	thallium 196	NT2	yttrium 88
NT2	sodium 20	NT2	thallium 197	NT2	zinc 57
NT2	sodium 21	NT2	thallium 198	NT2	zinc 59
NT2	sodium 22	NT2	thallium 200	NT2	zinc 60
NT2	strontium 75	NT2	thulium 148	NT2	zinc 61
NT2	strontium 76	NT2	thulium 156	NT2	zinc 62
NT2	strontium 77	NT2	thulium 157	NT2	zinc 63
NT2	strontium 78	NT2	thulium 158	NT2	zinc 65
NT2	strontium 79	NT2	thulium 159	NT2	zirconium 81
NT2	strontium 80	NT2	thulium 160	NT2	zirconium 82
NT2	strontium 81	NT2	thulium 161	NT2	zirconium 83
NT2	strontium 83	NT2	thulium 162	NT2	zirconium 84
NT2	sulfur 28	NT2	thulium 163	NT2	zirconium 85
NT2	sulfur 29	NT2	thulium 164	NT2	zirconium 87
NT2	sulfur 30	NT2	thulium 165	NT2	zirconium 89
NT2	sulfur 31	NT2	thulium 166	NT1	electron capture radioisotopes
NT2	tantalum 165	NT2	tin 100	NT2	actinium 214
NT2	tantalum 166	NT2	tin 102	NT2	actinium 215
NT2	tantalum 167	NT2	tin 103	NT2	actinium 222
NT2	tantalum 168	NT2	tin 105	NT2	actinium 223
NT2	tantalum 169	NT2	tin 106	NT2	actinium 224
NT2	tantalum 170	NT2	tin 107	NT2	actinium 226
NT2	tantalum 171	NT2	tin 108	NT2	americium 232
NT2	tantalum 172	NT2	tin 109	NT2	americium 233
NT2	tantalum 173	NT2	tin 111	NT2	americium 234
NT2	tantalum 174	NT2	titanium 39	NT2	americium 235
NT2	tantalum 175	NT2	titanium 40	NT2	americium 236
NT2	tantalum 176	NT2	titanium 41	NT2	americium 237
NT2	tantalum 177	NT2	titanium 42	NT2	americium 238
NT2	tantalum 178	NT2	titanium 43	NT2	americium 239
NT2	technetium 88	NT2	titanium 45	NT2	americium 240
NT2	technetium 89	NT2	tungsten 168	NT2	americium 242
NT2	technetium 90	NT2	tungsten 169	NT2	americium 244
NT2	technetium 91	NT2	tungsten 170	NT2	antimony 107
NT2	technetium 92	NT2	tungsten 171	NT2	antimony 109
NT2	technetium 93	NT2	tungsten 172	NT2	antimony 110
NT2	technetium 94	NT2	tungsten 173	NT2	antimony 111
NT2	technetium 95	NT2	tungsten 175	NT2	antimony 112
NT2	technetium 96	NT2	tungsten 177	NT2	antimony 113
NT2	tellurium 107	NT2	tungsten 190	NT2	antimony 114
NT2	tellurium 108	NT2	vanadium 42	NT2	antimony 115
NT2	tellurium 109	NT2	vanadium 43	NT2	antimony 116
NT2	tellurium 110	NT2	vanadium 44	NT2	antimony 117
NT2	tellurium 111	NT2	vanadium 45	NT2	antimony 118
NT2	tellurium 112	NT2	vanadium 46	NT2	antimony 119
NT2	tellurium 113	NT2	vanadium 47	NT2	antimony 120
NT2	tellurium 114	NT2	vanadium 48	NT2	antimony 122
NT2	tellurium 115	NT2	xenon 110	NT2	argon 37
NT2	tellurium 116	NT2	xenon 111	NT2	arsenic 67
NT2	tellurium 117	NT2	xenon 112	NT2	arsenic 70
NT2	tellurium 118	NT2	xenon 113	NT2	arsenic 71
NT2	tellurium 119	NT2	xenon 114	NT2	arsenic 72
NT2	tellurium 121	NT2	xenon 115	NT2	arsenic 73
NT2	terbium 139	NT2	xenon 116	NT2	arsenic 74
NT2	terbium 141	NT2	xenon 117	NT2	astatine 195
NT2	terbium 143	NT2	xenon 118	NT2	astatine 197
NT2	terbium 144	NT2	xenon 119	NT2	astatine 199
NT2	terbium 145	NT2	xenon 120	NT2	astatine 200
NT2	terbium 146	NT2	xenon 121	NT2	astatine 201
NT2	terbium 147	NT2	xenon 122	NT2	astatine 202
NT2	terbium 148	NT2	xenon 123	NT2	astatine 203
NT2	terbium 149	NT2	xenon 125	NT2	astatine 204
NT2	terbium 150	NT2	ytterbium 153	NT2	astatine 205
NT2	terbium 151	NT2	ytterbium 158	NT2	astatine 206
NT2	terbium 152	NT2	ytterbium 160	NT2	astatine 207
NT2	terbium 153	NT2	ytterbium 161	NT2	astatine 208
NT2	terbium 154	NT2	ytterbium 162	NT2	astatine 209

NT2	astatine 210	NT2	cerium 139	NT2	erbium 163
NT2	astatine 211	NT2	cesium 114	NT2	erbium 165
NT2	barium 117	NT2	cesium 115	NT2	europium 139
NT2	barium 119	NT2	cesium 116	NT2	europium 140
NT2	barium 120	NT2	cesium 117	NT2	europium 141
NT2	barium 121	NT2	cesium 118	NT2	europium 142
NT2	barium 122	NT2	cesium 119	NT2	europium 143
NT2	barium 123	NT2	cesium 120	NT2	europium 144
NT2	barium 124	NT2	cesium 121	NT2	europium 145
NT2	barium 125	NT2	cesium 122	NT2	europium 146
NT2	barium 126	NT2	cesium 123	NT2	europium 147
NT2	barium 127	NT2	cesium 124	NT2	europium 148
NT2	barium 128	NT2	cesium 125	NT2	europium 149
NT2	barium 129	NT2	cesium 126	NT2	europium 150
NT2	barium 131	NT2	cesium 127	NT2	europium 152
NT2	barium 133	NT2	cesium 128	NT2	europium 154
NT2	berkelium 240	NT2	cesium 129	NT2	fermium 247
NT2	berkelium 242	NT2	cesium 130	NT2	fermium 249
NT2	berkelium 243	NT2	cesium 131	NT2	fermium 251
NT2	berkelium 244	NT2	cesium 132	NT2	fermium 253
NT2	berkelium 245	NT2	cesium 134	NT2	francium 204
NT2	berkelium 246	NT2	chlorine 36	NT2	francium 206
NT2	berkelium 248	NT2	chromium 48	NT2	francium 207
NT2	beryllium 7	NT2	chromium 49	NT2	francium 208
NT2	bismuth 190	NT2	chromium 51	NT2	francium 209
NT2	bismuth 191	NT2	cobalt 55	NT2	francium 210
NT2	bismuth 192	NT2	cobalt 56	NT2	francium 211
NT2	bismuth 193	NT2	cobalt 57	NT2	francium 212
NT2	bismuth 194	NT2	cobalt 58	NT2	francium 213
NT2	bismuth 195	NT2	copper 58	NT2	gadolinium 135
NT2	bismuth 196	NT2	copper 60	NT2	gadolinium 141
NT2	bismuth 197	NT2	copper 61	NT2	gadolinium 143
NT2	bismuth 198	NT2	copper 62	NT2	gadolinium 144
NT2	bismuth 199	NT2	copper 64	NT2	gadolinium 145
NT2	bismuth 200	NT2	curium 232	NT2	gadolinium 146
NT2	bismuth 201	NT2	curium 238	NT2	gadolinium 147
NT2	bismuth 202	NT2	curium 239	NT2	gadolinium 149
NT2	bismuth 203	NT2	curium 241	NT2	gadolinium 151
NT2	bismuth 204	NT2	dubnium 258	NT2	gadolinium 153
NT2	bismuth 205	NT2	dysprosium 140	NT2	gallium 62
NT2	bismuth 206	NT2	dysprosium 141	NT2	gallium 63
NT2	bismuth 207	NT2	dysprosium 143	NT2	gallium 64
NT2	bismuth 208	NT2	dysprosium 144	NT2	gallium 65
NT2	bromine 71	NT2	dysprosium 145	NT2	gallium 66
NT2	bromine 73	NT2	dysprosium 147	NT2	gallium 67
NT2	bromine 74	NT2	dysprosium 148	NT2	gallium 68
NT2	bromine 75	NT2	dysprosium 149	NT2	gallium 70
NT2	bromine 76	NT2	dysprosium 150	NT2	germanium 64
NT2	bromine 77	NT2	dysprosium 151	NT2	germanium 65
NT2	bromine 78	NT2	dysprosium 152	NT2	germanium 66
NT2	bromine 80	NT2	dysprosium 153	NT2	germanium 67
NT2	cadmium 100	NT2	dysprosium 155	NT2	germanium 68
NT2	cadmium 101	NT2	dysprosium 157	NT2	germanium 69
NT2	cadmium 102	NT2	dysprosium 159	NT2	germanium 71
NT2	cadmium 103	NT2	einsteinium 244	NT2	gold 180
NT2	cadmium 104	NT2	einsteinium 245	NT2	gold 181
NT2	cadmium 105	NT2	einsteinium 246	NT2	gold 182
NT2	cadmium 107	NT2	einsteinium 247	NT2	gold 183
NT2	cadmium 109	NT2	einsteinium 248	NT2	gold 184
NT2	cadmium 96	NT2	einsteinium 249	NT2	gold 185
NT2	cadmium 97	NT2	einsteinium 250	NT2	gold 186
NT2	calcium 41	NT2	einsteinium 251	NT2	gold 187
NT2	californium 241	NT2	einsteinium 252	NT2	gold 188
NT2	californium 243	NT2	einsteinium 254	NT2	gold 189
NT2	californium 245	NT2	erbium 146	NT2	gold 190
NT2	californium 247	NT2	erbium 147	NT2	gold 191
NT2	cerium 121	NT2	erbium 149	NT2	gold 192
NT2	cerium 123	NT2	erbium 150	NT2	gold 193
NT2	cerium 126	NT2	erbium 151	NT2	gold 194
NT2	cerium 127	NT2	erbium 152	NT2	gold 195
NT2	cerium 128	NT2	erbium 153	NT2	gold 196
NT2	cerium 129	NT2	erbium 154	NT2	hafnium 154
NT2	cerium 130	NT2	erbium 155	NT2	hafnium 155
NT2	cerium 131	NT2	erbium 156	NT2	hafnium 157
NT2	cerium 132	NT2	erbium 157	NT2	hafnium 158
NT2	cerium 133	NT2	erbium 158	NT2	hafnium 159
NT2	cerium 134	NT2	erbium 159	NT2	hafnium 160
NT2	cerium 135	NT2	erbium 160	NT2	hafnium 162
NT2	cerium 137	NT2	erbium 161	NT2	hafnium 163

NT2 hafnium 166	NT2 krypton 73	NT2 mendelevium 253
NT2 hafnium 167	NT2 krypton 74	NT2 mendelevium 254
NT2 hafnium 168	NT2 krypton 75	NT2 mendelevium 255
NT2 hafnium 169	NT2 krypton 76	NT2 mendelevium 256
NT2 hafnium 170	NT2 krypton 77	NT2 mendelevium 257
NT2 hafnium 171	NT2 krypton 79	NT2 mendelevium 258
NT2 hafnium 172	NT2 krypton 81	NT2 mercury 177
NT2 hafnium 173	NT2 lanthanum 120	NT2 mercury 178
NT2 hafnium 175	NT2 lanthanum 121	NT2 mercury 179
NT2 holmium 143	NT2 lanthanum 122	NT2 mercury 180
NT2 holmium 145	NT2 lanthanum 123	NT2 mercury 181
NT2 holmium 147	NT2 lanthanum 124	NT2 mercury 182
NT2 holmium 149	NT2 lanthanum 125	NT2 mercury 183
NT2 holmium 150	NT2 lanthanum 126	NT2 mercury 184
NT2 holmium 151	NT2 lanthanum 127	NT2 mercury 185
NT2 holmium 152	NT2 lanthanum 128	NT2 mercury 186
NT2 holmium 153	NT2 lanthanum 129	NT2 mercury 187
NT2 holmium 154	NT2 lanthanum 130	NT2 mercury 188
NT2 holmium 155	NT2 lanthanum 131	NT2 mercury 189
NT2 holmium 156	NT2 lanthanum 132	NT2 mercury 190
NT2 holmium 157	NT2 lanthanum 133	NT2 mercury 191
NT2 holmium 158	NT2 lanthanum 134	NT2 mercury 192
NT2 holmium 159	NT2 lanthanum 135	NT2 mercury 193
NT2 holmium 160	NT2 lanthanum 136	NT2 mercury 194
NT2 holmium 161	NT2 lanthanum 137	NT2 mercury 195
NT2 holmium 162	NT2 lanthanum 138	NT2 mercury 197
NT2 holmium 163	NT2 lawrencium 254	NT2 molybdenum 87
NT2 holmium 164	NT2 lawrencium 255	NT2 molybdenum 88
NT2 indium 102	NT2 lawrencium 256	NT2 molybdenum 89
NT2 indium 103	NT2 lead 186	NT2 molybdenum 90
NT2 indium 104	NT2 lead 187	NT2 molybdenum 91
NT2 indium 105	NT2 lead 188	NT2 molybdenum 93
NT2 indium 106	NT2 lead 189	NT2 neodymium 125
NT2 indium 107	NT2 lead 190	NT2 neodymium 129
NT2 indium 108	NT2 lead 191	NT2 neodymium 130
NT2 indium 109	NT2 lead 192	NT2 neodymium 132
NT2 indium 110	NT2 lead 193	NT2 neodymium 133
NT2 indium 111	NT2 lead 194	NT2 neodymium 134
NT2 indium 112	NT2 lead 195	NT2 neodymium 135
NT2 indium 114	NT2 lead 196	NT2 neodymium 136
NT2 iodine 110	NT2 lead 197	NT2 neodymium 137
NT2 iodine 111	NT2 lead 198	NT2 neodymium 138
NT2 iodine 112	NT2 lead 199	NT2 neodymium 139
NT2 iodine 113	NT2 lead 200	NT2 neodymium 140
NT2 iodine 114	NT2 lead 201	NT2 neodymium 141
NT2 iodine 115	NT2 lead 202	NT2 neptunium 230
NT2 iodine 116	NT2 lead 203	NT2 neptunium 231
NT2 iodine 117	NT2 lead 205	NT2 neptunium 232
NT2 iodine 118	NT2 lutetium 153	NT2 neptunium 233
NT2 iodine 119	NT2 lutetium 154	NT2 neptunium 234
NT2 iodine 120	NT2 lutetium 155	NT2 neptunium 235
NT2 iodine 121	NT2 lutetium 156	NT2 neptunium 236
NT2 iodine 122	NT2 lutetium 157	NT2 nickel 56
NT2 iodine 123	NT2 lutetium 158	NT2 nickel 57
NT2 iodine 124	NT2 lutetium 159	NT2 nickel 59
NT2 iodine 125	NT2 lutetium 160	NT2 niobium 84
NT2 iodine 126	NT2 lutetium 161	NT2 niobium 85
NT2 iodine 128	NT2 lutetium 162	NT2 niobium 86
NT2 iridium 178	NT2 lutetium 163	NT2 niobium 87
NT2 iridium 179	NT2 lutetium 164	NT2 niobium 88
NT2 iridium 180	NT2 lutetium 165	NT2 niobium 90
NT2 iridium 181	NT2 lutetium 166	NT2 niobium 91
NT2 iridium 182	NT2 lutetium 167	NT2 niobium 92
NT2 iridium 183	NT2 lutetium 168	NT2 nitrogen 13
NT2 iridium 184	NT2 lutetium 169	NT2 nobelium 253
NT2 iridium 185	NT2 lutetium 170	NT2 nobelium 254
NT2 iridium 186	NT2 lutetium 171	NT2 nobelium 255
NT2 iridium 187	NT2 lutetium 172	NT2 nobelium 259
NT2 iridium 188	NT2 lutetium 173	NT2 osmium 166
NT2 iridium 189	NT2 lutetium 174	NT2 osmium 167
NT2 iridium 190	NT2 manganese 51	NT2 osmium 168
NT2 iridium 192	NT2 manganese 52	NT2 osmium 169
NT2 iron 45	NT2 manganese 53	NT2 osmium 170
NT2 iron 52	NT2 manganese 54	NT2 osmium 171
NT2 iron 53	NT2 mendelevium 248	NT2 osmium 172
NT2 iron 55	NT2 mendelevium 249	NT2 osmium 173
NT2 krypton 69	NT2 mendelevium 250	NT2 osmium 174
NT2 krypton 71	NT2 mendelevium 251	NT2 osmium 175
NT2 krypton 72	NT2 mendelevium 252	NT2 osmium 176

NT2	osmium 177	NT2	promethium 137	NT2	samarium 134
NT2	osmium 178	NT2	promethium 138	NT2	samarium 135
NT2	osmium 179	NT2	promethium 139	NT2	samarium 136
NT2	osmium 180	NT2	promethium 140	NT2	samarium 137
NT2	osmium 181	NT2	promethium 141	NT2	samarium 138
NT2	osmium 182	NT2	promethium 142	NT2	samarium 139
NT2	osmium 183	NT2	promethium 143	NT2	samarium 140
NT2	osmium 185	NT2	promethium 144	NT2	samarium 141
NT2	palladium 100	NT2	promethium 145	NT2	samarium 142
NT2	palladium 101	NT2	promethium 146	NT2	samarium 143
NT2	palladium 103	NT2	protactinium 226	NT2	samarium 145
NT2	palladium 94	NT2	protactinium 227	NT2	scandium 44
NT2	palladium 95	NT2	protactinium 228	NT2	selenium 69
NT2	palladium 96	NT2	protactinium 229	NT2	selenium 70
NT2	palladium 97	NT2	protactinium 230	NT2	selenium 71
NT2	palladium 98	NT2	radium 213	NT2	selenium 72
NT2	palladium 99	NT2	radium 214	NT2	selenium 73
NT2	platinum 173	NT2	radon 200	NT2	selenium 75
NT2	platinum 174	NT2	radon 201	NT2	silver 100
NT2	platinum 175	NT2	radon 202	NT2	silver 101
NT2	platinum 176	NT2	radon 203	NT2	silver 102
NT2	platinum 177	NT2	radon 204	NT2	silver 103
NT2	platinum 178	NT2	radon 205	NT2	silver 104
NT2	platinum 179	NT2	radon 206	NT2	silver 105
NT2	platinum 180	NT2	radon 207	NT2	silver 106
NT2	platinum 181	NT2	radon 208	NT2	silver 108
NT2	platinum 182	NT2	radon 209	NT2	silver 110
NT2	platinum 183	NT2	radon 210	NT2	silver 95
NT2	platinum 184	NT2	radon 211	NT2	silver 96
NT2	platinum 185	NT2	rhenium 163	NT2	silver 97
NT2	platinum 186	NT2	rhenium 164	NT2	silver 98
NT2	platinum 187	NT2	rhenium 165	NT2	silver 99
NT2	platinum 188	NT2	rhenium 168	NT2	strontium 76
NT2	platinum 189	NT2	rhenium 170	NT2	strontium 78
NT2	platinum 191	NT2	rhenium 171	NT2	strontium 79
NT2	platinum 193	NT2	rhenium 172	NT2	strontium 80
NT2	plutonium 232	NT2	rhenium 173	NT2	strontium 81
NT2	plutonium 233	NT2	rhenium 174	NT2	strontium 82
NT2	plutonium 234	NT2	rhenium 175	NT2	strontium 83
NT2	plutonium 235	NT2	rhenium 176	NT2	strontium 85
NT2	plutonium 237	NT2	rhenium 177	NT2	strontium 87
NT2	polonium 196	NT2	rhenium 178	NT2	tantalum 158
NT2	polonium 197	NT2	rhenium 179	NT2	tantalum 159
NT2	polonium 198	NT2	rhenium 180	NT2	tantalum 160
NT2	polonium 199	NT2	rhenium 181	NT2	tantalum 165
NT2	polonium 200	NT2	rhenium 182	NT2	tantalum 166
NT2	polonium 201	NT2	rhenium 183	NT2	tantalum 167
NT2	polonium 202	NT2	rhenium 184	NT2	tantalum 168
NT2	polonium 203	NT2	rhenium 186	NT2	tantalum 169
NT2	polonium 204	NT2	rhodium 100	NT2	tantalum 170
NT2	polonium 205	NT2	rhodium 101	NT2	tantalum 171
NT2	polonium 206	NT2	rhodium 102	NT2	tantalum 172
NT2	polonium 207	NT2	rhodium 104	NT2	tantalum 173
NT2	polonium 208	NT2	rhodium 90	NT2	tantalum 174
NT2	polonium 209	NT2	rhodium 91	NT2	tantalum 175
NT2	potassium 40	NT2	rhodium 92	NT2	tantalum 176
NT2	praseodymium 125	NT2	rhodium 93	NT2	tantalum 177
NT2	praseodymium 127	NT2	rhodium 95	NT2	tantalum 178
NT2	praseodymium 128	NT2	rhodium 96	NT2	tantalum 179
NT2	praseodymium 129	NT2	rhodium 97	NT2	tantalum 180
NT2	praseodymium 130	NT2	rhodium 98	NT2	technetium 90
NT2	praseodymium 132	NT2	rhodium 99	NT2	technetium 91
NT2	praseodymium 133	NT2	rubidium 76	NT2	technetium 92
NT2	praseodymium 134	NT2	rubidium 77	NT2	technetium 93
NT2	praseodymium 135	NT2	rubidium 78	NT2	technetium 94
NT2	praseodymium 136	NT2	rubidium 79	NT2	technetium 95
NT2	praseodymium 137	NT2	rubidium 81	NT2	technetium 96
NT2	praseodymium 138	NT2	rubidium 82	NT2	technetium 97
NT2	praseodymium 139	NT2	rubidium 83	NT2	tellurium 107
NT2	praseodymium 140	NT2	rubidium 84	NT2	tellurium 108
NT2	praseodymium 142	NT2	rubidium 86	NT2	tellurium 109
NT2	promethium 129	NT2	ruthenium 90	NT2	tellurium 110
NT2	promethium 130	NT2	ruthenium 91	NT2	tellurium 111
NT2	promethium 131	NT2	ruthenium 92	NT2	tellurium 112
NT2	promethium 132	NT2	ruthenium 93	NT2	tellurium 113
NT2	promethium 133	NT2	ruthenium 94	NT2	tellurium 114
NT2	promethium 134	NT2	ruthenium 95	NT2	tellurium 115
NT2	promethium 135	NT2	ruthenium 97	NT2	tellurium 116
NT2	promethium 136	NT2	samarium 133	NT2	tellurium 117

NT2 tellurium 118  
 NT2 tellurium 119  
 NT2 tellurium 121  
 NT2 tellurium 123  
 NT2 terbium 139  
 NT2 terbium 141  
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 NT2 thallium 184  
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 NT2 thorium 225  
 NT2 thulium 148  
 NT2 thulium 152  
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 NT2 thulium 170  
 NT2 tin 100  
 NT2 tin 102  
 NT2 tin 106  
 NT2 tin 107  
 NT2 tin 108  
 NT2 tin 109  
 NT2 tin 110  
 NT2 tin 111  
 NT2 tin 113  
 NT2 titanium 44  
 NT2 titanium 45  
 NT2 tungsten 161  
 NT2 tungsten 162  
 NT2 tungsten 163  
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 NT2 tungsten 166  
 NT2 tungsten 168  
 NT2 tungsten 169

NT2 tungsten 170  
 NT2 tungsten 171  
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 NT2 tungsten 176  
 NT2 tungsten 177  
 NT2 tungsten 178  
 NT2 tungsten 179  
 NT2 tungsten 181  
 NT2 uranium 228  
 NT2 uranium 229  
 NT2 uranium 231  
 NT2 vanadium 42  
 NT2 vanadium 45  
 NT2 vanadium 47  
 NT2 vanadium 48  
 NT2 vanadium 49  
 NT2 vanadium 50  
 NT2 xenon 110  
 NT2 xenon 111  
 NT2 xenon 112  
 NT2 xenon 113  
 NT2 xenon 114  
 NT2 xenon 115  
 NT2 xenon 116  
 NT2 xenon 117  
 NT2 xenon 118  
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 NT2 xenon 125  
 NT2 xenon 127  
 NT2 ytterbium 153  
 NT2 ytterbium 155  
 NT2 ytterbium 156  
 NT2 ytterbium 157  
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 NT2 ytterbium 167  
 NT2 ytterbium 169  
 NT2 yttrium 79  
 NT2 yttrium 80  
 NT2 yttrium 81  
 NT2 yttrium 83  
 NT2 yttrium 84  
 NT2 yttrium 85  
 NT2 yttrium 86  
 NT2 yttrium 87  
 NT2 yttrium 88  
 NT2 zinc 60  
 NT2 zinc 61  
 NT2 zinc 62  
 NT2 zinc 63  
 NT2 zinc 65  
 NT2 zirconium 84  
 NT2 zirconium 85  
 NT2 zirconium 86  
 NT2 zirconium 87  
 NT2 zirconium 88  
 NT2 zirconium 89  
 RT beta decay

#### BETA-DELAYED NEUTRONS

*INIS: 1985-01-17; ETDE: 1988-10-12*

\*BT1 neutrons  
 RT beta-minus decay  
 RT delayed neutron precursors  
 RT neutron-rich isotopes

#### beta-delayed protons

*INIS: 1985-01-17; ETDE: 2002-06-13*

USE delayed protons

#### BETA DETECTION

\*BT1 charged particle detection  
 RT beta dosimetry  
 RT beta particles  
 RT beta spectrometers  
 RT beta spectroscopy  
 RT electron detection  
 RT positron detection

#### BETA DOSIMETRY

BT1 dosimetry  
 RT beta detection

#### BETA II DEVICES

*INIS: 1981-10-15; ETDE: 1979-03-28*

*This device was formerly known as 2XIIB.*

\*BT1 magnetic mirrors

#### BETA-MINUS DECAY

\*BT1 beta decay  
 NT1 double beta decay  
 RT beta-delayed neutrons  
 RT beta-minus decay radioisotopes

#### BETA-MINUS DECAY RADIOISOTOPES

*1998-01-27*

\*BT1 beta decay radioisotopes

NT1 actinium 226  
 NT1 actinium 227  
 NT1 actinium 228  
 NT1 actinium 229  
 NT1 actinium 230  
 NT1 actinium 231  
 NT1 actinium 232  
 NT1 actinium 233  
 NT1 actinium 234  
 NT1 aluminium 28  
 NT1 aluminium 29  
 NT1 aluminium 30  
 NT1 aluminium 31  
 NT1 aluminium 32  
 NT1 aluminium 34  
 NT1 aluminium 36  
 NT1 aluminium 37  
 NT1 aluminium 40  
 NT1 americium 242  
 NT1 americium 244  
 NT1 americium 245  
 NT1 americium 246  
 NT1 americium 247  
 NT1 antimony 122  
 NT1 antimony 124  
 NT1 antimony 125  
 NT1 antimony 126  
 NT1 antimony 127  
 NT1 antimony 128  
 NT1 antimony 129  
 NT1 antimony 130  
 NT1 antimony 131  
 NT1 antimony 132  
 NT1 antimony 133  
 NT1 antimony 134  
 NT1 antimony 135  
 NT1 antimony 136  
 NT1 argon 39  
 NT1 argon 41  
 NT1 argon 42  
 NT1 argon 43  
 NT1 argon 44  
 NT1 argon 45  
 NT1 argon 46  
 NT1 arsenic 74  
 NT1 arsenic 76  
 NT1 arsenic 77  
 NT1 arsenic 78

NTI arsenic 79	NTI calcium 49	NTI copper 78
NTI arsenic 80	NTI calcium 50	NTI copper 79
NTI arsenic 81	NTI calcium 51	NTI curium 249
NTI arsenic 82	NTI calcium 52	NTI curium 250
NTI arsenic 83	NTI calcium 53	NTI curium 251
NTI arsenic 84	NTI californium 253	NTI dysprosium 165
NTI arsenic 85	NTI californium 255	NTI dysprosium 166
NTI arsenic 86	NTI carbon 14	NTI dysprosium 167
NTI arsenic 87	NTI carbon 15	NTI dysprosium 168
NTI astatine 217	NTI carbon 16	NTI dysprosium 169
NTI astatine 218	NTI carbon 17	NTI einsteinium 254
NTI astatine 219	NTI carbon 18	NTI einsteinium 255
NTI astatine 220	NTI cerium 141	NTI einsteinium 256
NTI astatine 221	NTI cerium 143	NTI erbium 169
NTI astatine 222	NTI cerium 144	NTI erbium 171
NTI astatine 223	NTI cerium 145	NTI erbium 172
NTI barium 139	NTI cerium 146	NTI erbium 173
NTI barium 140	NTI cerium 147	NTI erbium 174
NTI barium 141	NTI cerium 148	NTI erbium 175
NTI barium 142	NTI cerium 149	NTI europium 150
NTI barium 143	NTI cerium 150	NTI europium 152
NTI barium 144	NTI cerium 151	NTI europium 154
NTI barium 145	NTI cerium 152	NTI europium 155
NTI barium 146	NTI cesium 130	NTI europium 156
NTI barium 147	NTI cesium 132	NTI europium 157
NTI barium 148	NTI cesium 134	NTI europium 158
NTI barium 149	NTI cesium 135	NTI europium 159
NTI berkelium 248	NTI cesium 136	NTI europium 160
NTI berkelium 249	NTI cesium 137	NTI europium 161
NTI berkelium 250	NTI cesium 138	NTI europium 162
NTI berkelium 251	NTI cesium 139	NTI fluorine 20
NTI beryllium 10	NTI cesium 140	NTI fluorine 21
NTI beryllium 11	NTI cesium 141	NTI fluorine 22
NTI beryllium 12	NTI cesium 142	NTI fluorine 23
NTI beryllium 14	NTI cesium 143	NTI fluorine 24
NTI bismuth 210	NTI cesium 144	NTI fluorine 25
NTI bismuth 211	NTI cesium 145	NTI fluorine 26
NTI bismuth 212	NTI cesium 146	NTI fluorine 27
NTI bismuth 213	NTI cesium 147	NTI francium 220
NTI bismuth 214	NTI cesium 148	NTI francium 222
NTI bismuth 215	NTI cesium 149	NTI francium 223
NTI bismuth 216	NTI cesium 150	NTI francium 224
NTI boron 12	NTI chlorine 36	NTI francium 225
NTI boron 13	NTI chlorine 38	NTI francium 226
NTI boron 14	NTI chlorine 39	NTI francium 227
NTI boron 15	NTI chlorine 40	NTI francium 228
NTI boron 16	NTI chlorine 41	NTI francium 229
NTI boron 17	NTI chromium 55	NTI francium 230
NTI boron 19	NTI chromium 56	NTI francium 231
NTI bromine 80	NTI chromium 57	NTI gadolinium 159
NTI bromine 82	NTI chromium 58	NTI gadolinium 161
NTI bromine 83	NTI chromium 59	NTI gadolinium 162
NTI bromine 84	NTI chromium 60	NTI gadolinium 163
NTI bromine 85	NTI chromium 62	NTI gadolinium 164
NTI bromine 86	NTI chromium 63	NTI gadolinium 165
NTI bromine 87	NTI chromium 64	NTI gallium 70
NTI bromine 88	NTI chromium 65	NTI gallium 72
NTI bromine 89	NTI chromium 66	NTI gallium 73
NTI bromine 90	NTI cobalt 60	NTI gallium 74
NTI bromine 91	NTI cobalt 61	NTI gallium 75
NTI bromine 92	NTI cobalt 62	NTI gallium 76
NTI bromine 93	NTI cobalt 63	NTI gallium 77
NTI cadmium 113	NTI cobalt 64	NTI gallium 78
NTI cadmium 115	NTI cobalt 65	NTI gallium 79
NTI cadmium 117	NTI cobalt 66	NTI gallium 80
NTI cadmium 118	NTI cobalt 67	NTI gallium 81
NTI cadmium 119	NTI copper 64	NTI gallium 82
NTI cadmium 120	NTI copper 66	NTI gallium 83
NTI cadmium 121	NTI copper 67	NTI gallium 84
NTI cadmium 122	NTI copper 68	NTI germanium 75
NTI cadmium 123	NTI copper 69	NTI germanium 77
NTI cadmium 124	NTI copper 70	NTI germanium 78
NTI cadmium 125	NTI copper 71	NTI germanium 79
NTI cadmium 126	NTI copper 72	NTI germanium 80
NTI cadmium 127	NTI copper 73	NTI germanium 81
NTI cadmium 128	NTI copper 74	NTI germanium 82
NTI cadmium 130	NTI copper 75	NTI germanium 83
NTI calcium 45	NTI copper 76	NTI germanium 84
NTI calcium 47	NTI copper 77	NTI germanium 85



NT1	gold 196	NT1	krypton 89	NT1	neon 23
NT1	gold 198	NT1	krypton 90	NT1	neon 24
NT1	gold 199	NT1	krypton 91	NT1	neon 25
NT1	gold 200	NT1	krypton 92	NT1	neon 26
NT1	gold 201	NT1	krypton 93	NT1	neon 27
NT1	gold 202	NT1	krypton 94	NT1	neon 29
NT1	gold 203	NT1	krypton 95	NT1	neon 30
NT1	gold 204	NT1	krypton 97	NT1	neptunium 236
NT1	gold 205	NT1	lanthanum 138	NT1	neptunium 238
NT1	hafnium 181	NT1	lanthanum 140	NT1	neptunium 239
NT1	hafnium 182	NT1	lanthanum 141	NT1	neptunium 240
NT1	hafnium 183	NT1	lanthanum 142	NT1	neptunium 241
NT1	hafnium 184	NT1	lanthanum 143	NT1	neptunium 242
NT1	helium 6	NT1	lanthanum 144	NT1	neptunium 243
NT1	helium 7	NT1	lanthanum 145	NT1	neptunium 244
NT1	helium 8	NT1	lanthanum 146	NT1	neutron-rich isotopes
NT1	holmium 164	NT1	lanthanum 147	NT1	nickel 63
NT1	holmium 166	NT1	lanthanum 148	NT1	nickel 65
NT1	holmium 167	NT1	lanthanum 149	NT1	nickel 66
NT1	holmium 168	NT1	lanthanum 150	NT1	nickel 67
NT1	holmium 169	NT1	lead 209	NT1	nickel 69
NT1	holmium 170	NT1	lead 210	NT1	nickel 70
NT1	holmium 171	NT1	lead 211	NT1	nickel 71
NT1	holmium 172	NT1	lead 212	NT1	nickel 72
NT1	indium 112	NT1	lead 213	NT1	nickel 73
NT1	indium 114	NT1	lead 214	NT1	nickel 74
NT1	indium 115	NT1	lithium 11	NT1	niobium 100
NT1	indium 116	NT1	lithium 13	NT1	niobium 101
NT1	indium 117	NT1	lithium 8	NT1	niobium 102
NT1	indium 118	NT1	lithium 9	NT1	niobium 103
NT1	indium 119	NT1	lutetium 176	NT1	niobium 104
NT1	indium 120	NT1	lutetium 177	NT1	niobium 105
NT1	indium 121	NT1	lutetium 178	NT1	niobium 106
NT1	indium 122	NT1	lutetium 179	NT1	niobium 108
NT1	indium 123	NT1	lutetium 180	NT1	niobium 94
NT1	indium 124	NT1	lutetium 181	NT1	niobium 95
NT1	indium 125	NT1	lutetium 182	NT1	niobium 96
NT1	indium 126	NT1	lutetium 183	NT1	niobium 97
NT1	indium 127	NT1	lutetium 184	NT1	niobium 98
NT1	indium 128	NT1	lutetium 187	NT1	niobium 99
NT1	indium 129	NT1	magnesium 27	NT1	nitrogen 16
NT1	indium 130	NT1	magnesium 28	NT1	nitrogen 17
NT1	indium 131	NT1	magnesium 29	NT1	nitrogen 18
NT1	indium 132	NT1	magnesium 30	NT1	nitrogen 19
NT1	indium 133	NT1	magnesium 31	NT1	nitrogen 20
NT1	indium 134	NT1	magnesium 32	NT1	nitrogen 22
NT1	indium 135	NT1	magnesium 33	NT1	nitrogen 23
NT1	iodine 126	NT1	magnesium 34	NT1	osmium 191
NT1	iodine 128	NT1	magnesium 40	NT1	osmium 193
NT1	iodine 129	NT1	manganese 56	NT1	osmium 194
NT1	iodine 130	NT1	manganese 57	NT1	osmium 195
NT1	iodine 131	NT1	manganese 58	NT1	osmium 196
NT1	iodine 132	NT1	manganese 59	NT1	oxygen 19
NT1	iodine 133	NT1	manganese 60	NT1	oxygen 20
NT1	iodine 134	NT1	manganese 61	NT1	oxygen 21
NT1	iodine 135	NT1	manganese 62	NT1	oxygen 22
NT1	iodine 136	NT1	manganese 63	NT1	oxygen 23
NT1	iodine 137	NT1	mercury 203	NT1	oxygen 24
NT1	iodine 138	NT1	mercury 205	NT1	palladium 107
NT1	iodine 139	NT1	mercury 206	NT1	palladium 109
NT1	iodine 140	NT1	molybdenum 101	NT1	palladium 111
NT1	iodine 141	NT1	molybdenum 102	NT1	palladium 112
NT1	iodine 142	NT1	molybdenum 103	NT1	palladium 113
NT1	iridium 192	NT1	molybdenum 104	NT1	palladium 114
NT1	iridium 194	NT1	molybdenum 105	NT1	palladium 115
NT1	iridium 195	NT1	molybdenum 106	NT1	palladium 116
NT1	iridium 196	NT1	molybdenum 107	NT1	palladium 117
NT1	iridium 197	NT1	molybdenum 108	NT1	palladium 118
NT1	iridium 198	NT1	molybdenum 109	NT1	palladium 119
NT1	iridium 199	NT1	molybdenum 110	NT1	palladium 120
NT1	iron 59	NT1	molybdenum 99	NT1	phosphorus 32
NT1	iron 60	NT1	neodymium 147	NT1	phosphorus 33
NT1	iron 61	NT1	neodymium 149	NT1	phosphorus 34
NT1	iron 62	NT1	neodymium 151	NT1	phosphorus 35
NT1	iron 63	NT1	neodymium 152	NT1	phosphorus 36
NT1	iron 64	NT1	neodymium 153	NT1	phosphorus 37
NT1	krypton 85	NT1	neodymium 154	NT1	phosphorus 38
NT1	krypton 87	NT1	neodymium 155	NT1	phosphorus 40
NT1	krypton 88	NT1	neodymium 156	NT1	phosphorus 41

NTI phosphorus 42	NTI rhenium 191	NTI silicon 37
NTI platinum 197	NTI rhenium 192	NTI silicon 38
NTI platinum 199	NTI rhodium 102	NTI silicon 39
NTI platinum 200	NTI rhodium 104	NTI silver 108
NTI platinum 201	NTI rhodium 105	NTI silver 110
NTI plutonium 241	NTI rhodium 106	NTI silver 111
NTI plutonium 243	NTI rhodium 107	NTI silver 112
NTI plutonium 245	NTI rhodium 108	NTI silver 113
NTI plutonium 246	NTI rhodium 109	NTI silver 114
NTI polonium 215	NTI rhodium 110	NTI silver 115
NTI polonium 218	NTI rhodium 111	NTI silver 116
NTI potassium 40	NTI rhodium 112	NTI silver 117
NTI potassium 42	NTI rhodium 113	NTI silver 118
NTI potassium 43	NTI rhodium 114	NTI silver 119
NTI potassium 44	NTI rhodium 115	NTI silver 120
NTI potassium 45	NTI rhodium 116	NTI silver 121
NTI potassium 46	NTI rhodium 117	NTI silver 122
NTI potassium 47	NTI rhodium 118	NTI silver 123
NTI potassium 48	NTI rubidium 100	NTI sodium 24
NTI potassium 49	NTI rubidium 84	NTI sodium 25
NTI potassium 50	NTI rubidium 86	NTI sodium 26
NTI potassium 51	NTI rubidium 87	NTI sodium 27
NTI potassium 52	NTI rubidium 88	NTI sodium 28
NTI potassium 53	NTI rubidium 89	NTI sodium 29
NTI potassium 54	NTI rubidium 90	NTI sodium 30
NTI praseodymium 142	NTI rubidium 91	NTI sodium 31
NTI praseodymium 143	NTI rubidium 92	NTI sodium 32
NTI praseodymium 144	NTI rubidium 93	NTI sodium 33
NTI praseodymium 145	NTI rubidium 94	NTI sodium 34
NTI praseodymium 146	NTI rubidium 95	NTI sodium 35
NTI praseodymium 147	NTI rubidium 96	NTI strontium 100
NTI praseodymium 148	NTI rubidium 97	NTI strontium 101
NTI praseodymium 149	NTI rubidium 98	NTI strontium 102
NTI praseodymium 150	NTI rubidium 99	NTI strontium 89
NTI praseodymium 151	NTI ruthenium 103	NTI strontium 90
NTI praseodymium 152	NTI ruthenium 105	NTI strontium 91
NTI praseodymium 153	NTI ruthenium 106	NTI strontium 92
NTI praseodymium 154	NTI ruthenium 107	NTI strontium 93
NTI promethium 146	NTI ruthenium 108	NTI strontium 94
NTI promethium 147	NTI ruthenium 109	NTI strontium 95
NTI promethium 148	NTI ruthenium 110	NTI strontium 96
NTI promethium 149	NTI ruthenium 111	NTI strontium 97
NTI promethium 150	NTI ruthenium 112	NTI strontium 98
NTI promethium 151	NTI ruthenium 113	NTI strontium 99
NTI promethium 152	NTI ruthenium 114	NTI sulfur 35
NTI promethium 153	NTI samarium 151	NTI sulfur 37
NTI promethium 154	NTI samarium 153	NTI sulfur 38
NTI promethium 155	NTI samarium 155	NTI sulfur 39
NTI promethium 156	NTI samarium 156	NTI sulfur 40
NTI promethium 157	NTI samarium 157	NTI sulfur 43
NTI promethium 158	NTI samarium 158	NTI tantalum 180
NTI protactinium 230	NTI samarium 159	NTI tantalum 182
NTI protactinium 232	NTI samarium 160	NTI tantalum 183
NTI protactinium 233	NTI scandium 46	NTI tantalum 184
NTI protactinium 234	NTI scandium 47	NTI tantalum 185
NTI protactinium 235	NTI scandium 48	NTI tantalum 186
NTI protactinium 236	NTI scandium 49	NTI technetium 100
NTI protactinium 237	NTI scandium 50	NTI technetium 101
NTI protactinium 238	NTI scandium 51	NTI technetium 102
NTI protactinium 239	NTI scandium 52	NTI technetium 103
NTI radium 225	NTI scandium 53	NTI technetium 104
NTI radium 227	NTI scandium 57	NTI technetium 105
NTI radium 228	NTI scandium 58	NTI technetium 106
NTI radium 229	NTI selenium 79	NTI technetium 107
NTI radium 230	NTI selenium 81	NTI technetium 108
NTI radium 231	NTI selenium 83	NTI technetium 109
NTI radium 232	NTI selenium 84	NTI technetium 110
NTI radon 221	NTI selenium 85	NTI technetium 111
NTI radon 223	NTI selenium 86	NTI technetium 112
NTI radon 224	NTI selenium 87	NTI technetium 113
NTI radon 225	NTI selenium 88	NTI technetium 98
NTI radon 226	NTI selenium 89	NTI technetium 99
NTI radon 227	NTI selenium 91	NTI tellurium 127
NTI radon 228	NTI silicon 31	NTI tellurium 129
NTI rhenium 186	NTI silicon 32	NTI tellurium 131
NTI rhenium 187	NTI silicon 33	NTI tellurium 132
NTI rhenium 188	NTI silicon 34	NTI tellurium 133
NTI rhenium 189	NTI silicon 35	NTI tellurium 134
NTI rhenium 190	NTI silicon 36	NTI tellurium 135

NT1 tellurium 136  
 NT1 tellurium 137  
 NT1 tellurium 138  
 NT1 terbium 156  
 NT1 terbium 158  
 NT1 terbium 160  
 NT1 terbium 161  
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 NT1 terbium 163  
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 NT1 thorium 233  
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 NT1 thorium 237  
 NT1 thulium 168  
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 NT1 thulium 177  
 NT1 tin 121  
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 NT1 tin 135  
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 NT1 titanium 53  
 NT1 titanium 54  
 NT1 titanium 55  
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 NT1 titanium 58  
 NT1 titanium 59  
 NT1 titanium 60  
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 NT1 tungsten 185  
 NT1 tungsten 187  
 NT1 tungsten 188  
 NT1 tungsten 189  
 NT1 uranium 237  
 NT1 uranium 239  
 NT1 uranium 240  
 NT1 uranium 241  
 NT1 uranium 242  
 NT1 vanadium 50  
 NT1 vanadium 52  
 NT1 vanadium 53  
 NT1 vanadium 54  
 NT1 vanadium 55  
 NT1 vanadium 56  
 NT1 vanadium 57  
 NT1 vanadium 58  
 NT1 vanadium 61  
 NT1 vanadium 62  
 NT1 vanadium 63  
 NT1 xenon 133  
 NT1 xenon 135

NT1 xenon 137  
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 NT1 xenon 142  
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 NT1 xenon 144  
 NT1 xenon 145  
 NT1 ytterbium 175  
 NT1 ytterbium 177  
 NT1 ytterbium 178  
 NT1 ytterbium 179  
 NT1 ytterbium 180  
 NT1 yttrium 100  
 NT1 yttrium 101  
 NT1 yttrium 102  
 NT1 yttrium 103  
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 NT1 yttrium 96  
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 NT1 yttrium 99  
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 NT1 zinc 71  
 NT1 zinc 72  
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 NT1 zinc 75  
 NT1 zinc 76  
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 NT1 zinc 78  
 NT1 zinc 79  
 NT1 zinc 80  
 NT1 zinc 81  
 NT1 zirconium 100  
 NT1 zirconium 101  
 NT1 zirconium 102  
 NT1 zirconium 103  
 NT1 zirconium 104  
 NT1 zirconium 105  
 NT1 zirconium 109  
 NT1 zirconium 93  
 NT1 zirconium 95  
 NT1 zirconium 97  
 NT1 zirconium 98  
 NT1 zirconium 99  
 RT beta-minus decay

#### BETA PARTICLES

*Emitted by nuclei.*

BT1 charged particles  
 \*BT1 ionizing radiations  
 RT beta decay  
 RT beta detection  
 RT beta sources  
 RT electrons  
 RT positrons

#### BETA-PLUS DECAY

UF positron decay  
 \*BT1 beta decay  
 RT beta-plus decay radioisotopes  
 RT delayed protons  
 RT electron capture decay

#### BETA-PLUS DECAY RADIOISOTOPES

*1997-02-07*

\*BT1 beta decay radioisotopes  
 NT1 aluminium 22  
 NT1 aluminium 23  
 NT1 aluminium 24  
 NT1 aluminium 25  
 NT1 aluminium 26

NT1 americium 235  
 NT1 americium 236  
 NT1 antimony 104  
 NT1 antimony 105  
 NT1 antimony 108  
 NT1 antimony 110  
 NT1 antimony 111  
 NT1 antimony 112  
 NT1 antimony 113  
 NT1 antimony 114  
 NT1 antimony 115  
 NT1 antimony 116  
 NT1 antimony 117  
 NT1 antimony 118  
 NT1 antimony 120  
 NT1 antimony 122  
 NT1 argon 31  
 NT1 argon 32  
 NT1 argon 33  
 NT1 argon 34  
 NT1 argon 35  
 NT1 arsenic 66  
 NT1 arsenic 67  
 NT1 arsenic 68  
 NT1 arsenic 69  
 NT1 arsenic 70  
 NT1 arsenic 71  
 NT1 arsenic 72  
 NT1 arsenic 74  
 NT1 astatine 205  
 NT1 astatine 206  
 NT1 barium 114  
 NT1 barium 115  
 NT1 barium 116  
 NT1 barium 117  
 NT1 barium 118  
 NT1 barium 119  
 NT1 barium 120  
 NT1 barium 121  
 NT1 barium 122  
 NT1 barium 123  
 NT1 barium 124  
 NT1 barium 125  
 NT1 barium 126  
 NT1 barium 127  
 NT1 barium 129  
 NT1 bismuth 194  
 NT1 bismuth 197  
 NT1 bismuth 200  
 NT1 bismuth 202  
 NT1 bismuth 203  
 NT1 bismuth 205  
 NT1 bismuth 206  
 NT1 bismuth 207  
 NT1 boron 8  
 NT1 bromine 69  
 NT1 bromine 70  
 NT1 bromine 71  
 NT1 bromine 72  
 NT1 bromine 73  
 NT1 bromine 74  
 NT1 bromine 75  
 NT1 bromine 76  
 NT1 bromine 77  
 NT1 bromine 78  
 NT1 bromine 80  
 NT1 cadmium 100  
 NT1 cadmium 101  
 NT1 cadmium 102  
 NT1 cadmium 103  
 NT1 cadmium 104  
 NT1 cadmium 105  
 NT1 cadmium 107  
 NT1 cadmium 97  
 NT1 cadmium 98  
 NT1 cadmium 99  
 NT1 calcium 36  
 NT1 calcium 37  
 NT1 calcium 38

NT1	calcium 39	NT1	erbium 154	NT1	holmium 157
NT1	carbon 10	NT1	erbium 155	NT1	holmium 158
NT1	carbon 11	NT1	erbium 156	NT1	holmium 160
NT1	carbon 9	NT1	erbium 157	NT1	holmium 162
NT1	cerium 121	NT1	erbium 158	NT1	indium 100
NT1	cerium 125	NT1	erbium 159	NT1	indium 103
NT1	cerium 127	NT1	erbium 161	NT1	indium 104
NT1	cerium 128	NT1	erbium 163	NT1	indium 105
NT1	cerium 129	NT1	europium 134	NT1	indium 106
NT1	cerium 130	NT1	europium 135	NT1	indium 107
NT1	cerium 131	NT1	europium 136	NT1	indium 108
NT1	cerium 132	NT1	europium 138	NT1	indium 109
NT1	cerium 133	NT1	europium 139	NT1	indium 110
NT1	cerium 135	NT1	europium 140	NT1	indium 112
NT1	cerium 137	NT1	europium 141	NT1	indium 114
NT1	cesium 114	NT1	europium 142	NT1	iodine 110
NT1	cesium 115	NT1	europium 143	NT1	iodine 111
NT1	cesium 116	NT1	europium 144	NT1	iodine 112
NT1	cesium 117	NT1	europium 145	NT1	iodine 113
NT1	cesium 118	NT1	europium 146	NT1	iodine 114
NT1	cesium 119	NT1	europium 147	NT1	iodine 115
NT1	cesium 120	NT1	europium 148	NT1	iodine 116
NT1	cesium 121	NT1	europium 150	NT1	iodine 117
NT1	cesium 122	NT1	europium 152	NT1	iodine 118
NT1	cesium 123	NT1	fluorine 17	NT1	iodine 119
NT1	cesium 124	NT1	fluorine 18	NT1	iodine 120
NT1	cesium 125	NT1	gadolinium 135	NT1	iodine 121
NT1	cesium 126	NT1	gadolinium 137	NT1	iodine 122
NT1	cesium 127	NT1	gadolinium 139	NT1	iodine 124
NT1	cesium 128	NT1	gadolinium 142	NT1	iodine 126
NT1	cesium 129	NT1	gadolinium 143	NT1	iodine 128
NT1	cesium 130	NT1	gadolinium 144	NT1	iridium 178
NT1	cesium 132	NT1	gadolinium 145	NT1	iridium 179
NT1	chlorine 31	NT1	gadolinium 146	NT1	iridium 180
NT1	chlorine 32	NT1	gadolinium 147	NT1	iridium 181
NT1	chlorine 33	NT1	gallium 60	NT1	iridium 182
NT1	chlorine 34	NT1	gallium 62	NT1	iridium 183
NT1	chlorine 36	NT1	gallium 63	NT1	iridium 184
NT1	chromium 42	NT1	gallium 64	NT1	iridium 185
NT1	chromium 45	NT1	gallium 65	NT1	iridium 186
NT1	chromium 46	NT1	gallium 66	NT1	iridium 188
NT1	chromium 47	NT1	gallium 68	NT1	iridium 190
NT1	chromium 49	NT1	germanium 61	NT1	iron 45
NT1	cobalt 52	NT1	germanium 64	NT1	iron 46
NT1	cobalt 53	NT1	germanium 65	NT1	iron 49
NT1	cobalt 54	NT1	germanium 66	NT1	iron 51
NT1	cobalt 55	NT1	germanium 67	NT1	iron 52
NT1	cobalt 56	NT1	germanium 69	NT1	iron 53
NT1	cobalt 58	NT1	gold 182	NT1	krypton 69
NT1	copper 56	NT1	gold 184	NT1	krypton 71
NT1	copper 57	NT1	gold 185	NT1	krypton 72
NT1	copper 58	NT1	gold 186	NT1	krypton 73
NT1	copper 59	NT1	gold 187	NT1	krypton 74
NT1	copper 60	NT1	gold 188	NT1	krypton 75
NT1	copper 61	NT1	gold 189	NT1	krypton 77
NT1	copper 62	NT1	gold 190	NT1	krypton 79
NT1	copper 64	NT1	gold 192	NT1	lanthanum 121
NT1	curium 232	NT1	gold 194	NT1	lanthanum 125
NT1	dysprosium 140	NT1	gold 196	NT1	lanthanum 126
NT1	dysprosium 145	NT1	hafnium 154	NT1	lanthanum 127
NT1	dysprosium 146	NT1	hafnium 155	NT1	lanthanum 128
NT1	dysprosium 147	NT1	hafnium 162	NT1	lanthanum 129
NT1	dysprosium 148	NT1	hafnium 163	NT1	lanthanum 130
NT1	dysprosium 149	NT1	hafnium 166	NT1	lanthanum 131
NT1	dysprosium 150	NT1	hafnium 167	NT1	lanthanum 132
NT1	dysprosium 151	NT1	hafnium 168	NT1	lanthanum 133
NT1	dysprosium 152	NT1	hafnium 169	NT1	lanthanum 134
NT1	dysprosium 153	NT1	holmium 145	NT1	lanthanum 135
NT1	dysprosium 155	NT1	holmium 146	NT1	lanthanum 136
NT1	dysprosium 157	NT1	holmium 147	NT1	lead 187
NT1	erbium 145	NT1	holmium 148	NT1	lead 188
NT1	erbium 146	NT1	holmium 149	NT1	lead 189
NT1	erbium 147	NT1	holmium 150	NT1	lead 190
NT1	erbium 148	NT1	holmium 151	NT1	lead 191
NT1	erbium 149	NT1	holmium 152	NT1	lead 192
NT1	erbium 150	NT1	holmium 153	NT1	lead 193
NT1	erbium 151	NT1	holmium 154	NT1	lead 194
NT1	erbium 152	NT1	holmium 155	NT1	lead 195
NT1	erbium 153	NT1	holmium 156	NT1	lead 199

NT1	lead 201	NT1	osmium 176	NT1	rhenium 182
NT1	lutetium 153	NT1	osmium 177	NT1	rhodium 100
NT1	lutetium 161	NT1	osmium 178	NT1	rhodium 102
NT1	lutetium 162	NT1	osmium 179	NT1	rhodium 91
NT1	lutetium 163	NT1	osmium 181	NT1	rhodium 92
NT1	lutetium 164	NT1	osmium 183	NT1	rhodium 93
NT1	lutetium 165	NT1	oxygen 13	NT1	rhodium 94
NT1	lutetium 166	NT1	oxygen 14	NT1	rhodium 95
NT1	lutetium 167	NT1	oxygen 15	NT1	rhodium 96
NT1	lutetium 168	NT1	palladium 101	NT1	rhodium 97
NT1	lutetium 169	NT1	palladium 93	NT1	rhodium 98
NT1	lutetium 170	NT1	palladium 94	NT1	rhodium 99
NT1	lutetium 171	NT1	palladium 95	NT1	rubidium 73
NT1	lutetium 174	NT1	palladium 97	NT1	rubidium 74
NT1	magnesium 20	NT1	palladium 98	NT1	rubidium 75
NT1	magnesium 21	NT1	palladium 99	NT1	rubidium 76
NT1	magnesium 22	NT1	phosphorus 26	NT1	rubidium 77
NT1	magnesium 23	NT1	phosphorus 28	NT1	rubidium 78
NT1	manganese 48	NT1	phosphorus 29	NT1	rubidium 79
NT1	manganese 49	NT1	phosphorus 30	NT1	rubidium 80
NT1	manganese 50	NT1	platinum 174	NT1	rubidium 81
NT1	manganese 51	NT1	platinum 182	NT1	rubidium 82
NT1	manganese 52	NT1	platinum 183	NT1	rubidium 84
NT1	mercury 179	NT1	platinum 184	NT1	ruthenium 88
NT1	mercury 181	NT1	platinum 185	NT1	ruthenium 89
NT1	mercury 182	NT1	platinum 187	NT1	ruthenium 92
NT1	mercury 183	NT1	platinum 189	NT1	ruthenium 93
NT1	mercury 184	NT1	polonium 198	NT1	ruthenium 95
NT1	mercury 185	NT1	polonium 199	NT1	samarium 133
NT1	mercury 186	NT1	polonium 200	NT1	samarium 134
NT1	mercury 187	NT1	polonium 201	NT1	samarium 135
NT1	mercury 188	NT1	polonium 202	NT1	samarium 136
NT1	mercury 191	NT1	polonium 203	NT1	samarium 137
NT1	mercury 193	NT1	polonium 205	NT1	samarium 138
NT1	molybdenum 86	NT1	polonium 207	NT1	samarium 139
NT1	molybdenum 87	NT1	potassium 35	NT1	samarium 140
NT1	molybdenum 88	NT1	potassium 36	NT1	samarium 141
NT1	molybdenum 89	NT1	potassium 37	NT1	samarium 142
NT1	molybdenum 90	NT1	potassium 38	NT1	samarium 143
NT1	molybdenum 91	NT1	potassium 40	NT1	scandium 40
NT1	neodymium 127	NT1	praseodymium 126	NT1	scandium 41
NT1	neodymium 128	NT1	praseodymium 127	NT1	scandium 42
NT1	neodymium 129	NT1	praseodymium 129	NT1	scandium 43
NT1	neodymium 130	NT1	praseodymium 130	NT1	scandium 44
NT1	neodymium 131	NT1	praseodymium 131	NT1	selenium 65
NT1	neodymium 132	NT1	praseodymium 132	NT1	selenium 67
NT1	neodymium 133	NT1	praseodymium 133	NT1	selenium 68
NT1	neodymium 134	NT1	praseodymium 134	NT1	selenium 69
NT1	neodymium 135	NT1	praseodymium 135	NT1	selenium 70
NT1	neodymium 136	NT1	praseodymium 136	NT1	selenium 71
NT1	neodymium 137	NT1	praseodymium 137	NT1	selenium 73
NT1	neodymium 138	NT1	praseodymium 138	NT1	silicon 24
NT1	neodymium 139	NT1	praseodymium 139	NT1	silicon 25
NT1	neodymium 141	NT1	praseodymium 140	NT1	silicon 26
NT1	neon 17	NT1	promethium 132	NT1	silicon 27
NT1	neon 18	NT1	promethium 133	NT1	silver 100
NT1	neon 19	NT1	promethium 134	NT1	silver 101
NT1	neptunium 234	NT1	promethium 135	NT1	silver 102
NT1	nickel 49	NT1	promethium 136	NT1	silver 103
NT1	nickel 50	NT1	promethium 137	NT1	silver 104
NT1	nickel 52	NT1	promethium 138	NT1	silver 105
NT1	nickel 53	NT1	promethium 139	NT1	silver 106
NT1	nickel 55	NT1	promethium 140	NT1	silver 108
NT1	nickel 56	NT1	promethium 141	NT1	silver 94
NT1	nickel 57	NT1	promethium 142	NT1	silver 96
NT1	niobium 83	NT1	protactinium 230	NT1	silver 98
NT1	niobium 84	NT1	radon 207	NT1	silver 99
NT1	niobium 85	NT1	radon 209	NT1	sodium 19
NT1	niobium 87	NT1	rhenium 165	NT1	sodium 20
NT1	niobium 88	NT1	rhenium 170	NT1	sodium 21
NT1	niobium 89	NT1	rhenium 171	NT1	sodium 22
NT1	niobium 90	NT1	rhenium 172	NT1	strontium 75
NT1	niobium 92	NT1	rhenium 174	NT1	strontium 76
NT1	nitrogen 12	NT1	rhenium 175	NT1	strontium 77
NT1	nitrogen 13	NT1	rhenium 176	NT1	strontium 78
NT1	osmium 172	NT1	rhenium 177	NT1	strontium 79
NT1	osmium 173	NT1	rhenium 178	NT1	strontium 80
NT1	osmium 174	NT1	rhenium 179	NT1	strontium 81
NT1	osmium 175	NT1	rhenium 180	NT1	strontium 83

NT1 sulfur 28  
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 NT1 ytterbium 167  
 NT1 yttrium 79  
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 NT1 yttrium 86  
 NT1 yttrium 87  
 NT1 yttrium 88  
 NT1 zinc 57  
 NT1 zinc 59  
 NT1 zinc 60  
 NT1 zinc 61  
 NT1 zinc 62  
 NT1 zinc 63  
 NT1 zinc 65  
 NT1 zirconium 81  
 NT1 zirconium 82  
 NT1 zirconium 83  
 NT1 zirconium 84

NT1 zirconium 85  
 NT1 zirconium 87  
 NT1 zirconium 89  
 RT beta-plus decay

**BETA RADIOGRAPHY**

1976-10-29

*A technique for examining papers, thin foils, and other thin materials.*

\*BT1 industrial radiography

**BETA RATIO**

BT1 dimensionless numbers  
 RT high-beta plasma  
 RT low-beta plasma  
 RT magnetic fields  
 RT medium-beta plasma  
 RT plasma pressure  
 RT reversed-field pinch devices

**BETA SOURCES**

\*BT1 particle sources  
 RT beta particles

**BETA SPECTRA**

BT1 spectra  
 RT beta decay  
 RT beta spectrometers

**BETA SPECTROMETERS**

\*BT1 spectrometers  
 RT beta detection  
 RT beta spectra  
 RT electron detection

**beta spectrometry**

INIS: 1975-10-23; ETDE: 2002-06-13

USE beta spectroscopy

**BETA SPECTROSCOPY**

UF beta spectrometry  
 BT1 spectroscopy  
 RT beta detection

**BETA-W LATTICES**

UF a-15 compounds  
 \*BT1 crystal lattices

**BETAINE**

\*BT1 amino acids  
 \*BT1 lipotropic factors  
 \*BT1 quaternary compounds  
 RT carnitine

**BETATRON OSCILLATIONS**

\*BT1 beam dynamics  
 BT1 oscillations  
 RT q-shift

**BETATRONS**

\*BT1 cyclic accelerators  
 RT plasma betatrons

**BETA-VOLTAIC CELLS**

\*BT1 direct collection converters  
 RT semiconductor diodes

**bethe-goldstone approximation**

USE bethe-goldstone equation

**BETHE-GOLDSTONE EQUATION**

UF bethe-goldstone approximation  
 BT1 equations  
 RT many-body problem

**bethe-heitler-schiff formula**

USE bethe-heitler theory

**BETHE-HEITLER THEORY**

UF bethe-heitler-schiff formula  
 RT branching ratio  
 RT bremsstrahlung  
 RT pair production

**bethe-hurwitz effect**

USE hurwitz effect

**bethe-placzec model**

USE placzec function

**BETHE-SALPETER EQUATION**

BT1 equations  
RT blankenbecler-sugar equations  
RT quantum field theory

**BETHE-TAIT METHOD**

RT mathematics  
RT reactor safety

**bethe-weizsaecker cycle**

INIS: 1978-09-28; ETDE: 1979-05-03  
USE cno cycle

**bethe-weizsaecker relation**

USE weizsaecker formula

**BETTIS**

*Bettis Atomic Power Laboratory.*  
\*BT1 us aec  
\*BT1 us doe  
\*BT1 us erda  
RT pennsylvania

**betula**

ETDE: 2002-06-13  
USE trees

**BEVALAC**

INIS: 1999-01-20; ETDE: 1975-10-01  
*A linking of the Superhilac to the Bevatron.*  
UF berkeley bevalac  
\*BT1 cyclic accelerators  
RT bevatron  
RT superhilac

**BEVATRON**

\*BT1 synchrotrons  
RT bevalac

**BEVERAGE INDUSTRY**

INIS: 2000-04-12; ETDE: 1980-01-15  
BT1 industry  
RT food industry  
RT glass industry  
RT metal industry

**BEVERAGES**

UF coffee  
UF juices  
UF tea  
UF wine  
BT1 food  
RT coffee beans  
RT diet  
RT drinking water  
RT ingestion  
RT milk  
RT tea leaves  
RT tea plants

**BEZNAU-1 REACTOR**

*Beznau, Doettingen, Switzerland.*  
UF nok-1 reactor  
UF nordostschweizerische kraftwerk-1 reaktor  
\*BT1 pwr type reactors

**BEZNAU-2 REACTOR**

*Beznau, Doettingen, Switzerland.*  
UF nok-2 reactor  
UF nordostschweizerische kraftwerk-2 reaktor  
\*BT1 pwr type reactors

**bf-wf process**

INIS: 2000-04-12; ETDE: 1977-04-14  
USE desulfurization

**BF3 COUNTERS**

\*BT1 neutron detectors  
\*BT1 proportional counters  
RT moderating detectors

**bfs**

1991-05-02  
USE bundesamt fuer strahlenschutz

**BFS REACTOR**

1996-07-10  
*Obninsk fast assembly.*  
\*BT1 fast reactors  
\*BT1 zero power reactors

**BGC-LURGI SLAGGING PROCESS**

INIS: 1992-10-20; ETDE: 1982-03-10  
\*BT1 coal gasification

**BGO DETECTORS**

INIS: 1984-08-24; ETDE: 1984-07-10  
UF bismuth germanate detectors  
\*BT1 solid scintillation detectors

**BGRR REACTOR**

*BNL, Upton, New York, USA. Shut down in 1969.*  
UF brookhaven graphite research reactor  
\*BT1 air cooled reactors  
\*BT1 enriched uranium reactors  
\*BT1 graphite moderated reactors  
\*BT1 isotope production reactors  
\*BT1 research reactors  
\*BT1 test reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**bhabha atomic research center**

USE barc

**BHABHA SCATTERING**

\*BT1 elastic scattering  
RT moeller scattering  
RT quantum electrodynamics

**BHUTAN**

INIS: 1990-01-30; ETDE: 1990-02-13  
BT1 asia  
BT1 developing countries

**BHWR TYPE REACTORS**

UF boiling heavy water cooled and moderated reactor  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
NT1 hbwr reactor  
NT1 marviken reactor  
RT power reactors

**BI-GAS PROCESS**

2000-04-12  
*Bituminous coal research, inc. Process for producing intermediate or high btu gas by reaction of coal with steam in a gasifier operating at 1000-1500 psi and 3000 and 1700 degrees F in stage 1 and stage 2, respectively. The gasifier may be operated on air rather than oxygen at moderate pressures to produce a low btu gas.*  
\*BT1 coal gasification  
RT sng processes

**BIBENZYL**

UF 1,2-diphenylethane  
UF diphenylethane (1,2-)  
\*BT1 aromatics

**BIBLIOGRAPHIES**

*Use only in conjunction with literary indicator Z for indexing true bibliographies.*  
BT1 document types

**BIBLIS-1 REACTOR**

INIS: 1990-12-07; ETDE: 1991-01-22  
*Biblis, Hessen, Federal Republic of Germany.*  
(Prior to December 1990, this was indexed by BIBLIS REACTOR.)  
UF biblis-a reactor  
UF biblis reactor  
UF kernkraftwerk biblis  
UF kernkraftwerk biblis-a  
\*BT1 pwr type reactors

**BIBLIS-2 REACTOR**

INIS: 1990-12-07; ETDE: 1991-01-22  
*Biblis, Hessen, Federal Republic of Germany.*  
(Prior to December 1990, this was indexed by BIBLIS-B REACTOR.)  
UF biblis-b reactor  
UF kernkraftwerk biblis-b  
\*BT1 pwr type reactors

**BIBLIS-3 REACTOR**

INIS: 1976-10-07; ETDE: 1976-11-01  
*Biblis, Hessen, Federal Republic of Germany.*  
UF biblis-c reactor  
UF kernkraftwerk biblis-3  
\*BT1 pwr type reactors

**BIBLIS-4 REACTOR**

INIS: 1976-10-07; ETDE: 1976-11-01  
*Biblis, Hessen, Federal Republic of Germany.*  
UF biblis-d reactor  
UF kernkraftwerk biblis-4  
\*BT1 pwr type reactors

**biblis-a reactor**

2000-04-12  
*Biblis, Hessen, Federal Republic of Germany.*  
USE biblis-1 reactor

**biblis-b reactor**

1990-12-07  
USE biblis-2 reactor

**biblis-c reactor**

INIS: 1976-10-07; ETDE: 1976-11-02  
*Biblis, Hessen, Federal Republic of Germany.*  
USE biblis-3 reactor

**biblis-d reactor**

INIS: 1976-10-07; ETDE: 1976-11-02  
*Biblis, Hessen, Federal Republic of Germany.*  
USE biblis-4 reactor

**biblis reactor**

1990-12-07  
(Prior to December 1990, this was a valid descriptor.)  
USE biblis-1 reactor

**bicarbonates**

INIS: 1985-11-18; ETDE: 1977-07-23  
(Prior to December 1985 this was a valid descriptor.)  
USE acid carbonates

**BICRYSTALS**

1994-07-01  
(Until June 1994 this concept was indexed to POLYCRYSTALS.)  
\*BT1 polycrystals

**BICYCLES**

INIS: 2000-04-12; ETDE: 1976-08-04  
BT1 vehicles

**bids**

INIS: 1999-03-15; ETDE: 1978-06-14  
(Prior to March 1996 this was a valid ETDE descriptor.)  
USE proposals

**biedenharn-rose theory**

1996-07-16

(Until July 1996 this was a valid descriptor.)

SEE angular correlation

SEE angular distribution

**biexcitons**

INIS: 1984-04-04; ETDE: 2002-06-13

USE excitons

**BIFURCATION**

1994-02-28

The abrupt appearance of a new solution of a mathematical equation at some critical parameter value.

RT chemical reaction kinetics

RT control

RT differential equations

RT dispersion relations

RT dynamics

RT instability

RT mathematical models

RT non-equilibrium plasma

RT phase transformations

RT wave propagation

**BIG ROCK POINT REACTOR**

Consumers Power Co., Charlevoix, Michigan, USA. Shut down in 1997.

\*BT1 bwr type reactors

**BIG TEN REACTOR**

LANL, Los Alamos, New Mexico, USA.

\*BT1 zero power reactors

**BIGR REACTOR**

INIS: 1986-12-09; ETDE: 1987-02-24

\*BT1 enriched uranium reactors

\*BT1 fast reactors

\*BT1 graphite moderated reactors

\*BT1 pulsed reactors

\*BT1 research reactors

**BIKINI**

\*BT1 marshall islands

RT castle project

RT redwing project

**BILATERAL AGREEMENTS**

\*BT1 international agreements

RT transfrontier contamination

RT transfrontier pollution

**bilbao argonaut reactor**

USE arbi reactor

**BILE**

1996-10-22

\*BT1 body fluids

RT bile acids

RT biliary tract

RT bilirubin

**BILE ACIDS**

\*BT1 carboxylic acids

\*BT1 sterols

NT1 cholic acid

RT bile

**bile ducts**

USE biliary tract

**BILIARY TRACT**

UF bile ducts

UF gallbladder

UF gallstones

BT1 digestive system

RT bile

RT glucuronide conjugates

RT glutathione conjugates

RT liver

**BILIBIN REACTOR**

Chukotka region, Russian Federation.

UF chukotka reactor

\*BT1 experimental reactors

\*BT1 lwgr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**BILIRUBIN**

\*BT1 heterocyclic acids

BT1 pigments

\*BT1 pyrroles

RT bile

**biliverdin**

1996-10-22

(Until October 1996 this was a valid descriptor.)

USE heterocyclic acids

USE pigments

USE pyrroles

**billet event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**BILLIETITE**

2000-04-12

\*BT1 oxide minerals

\*BT1 uranium minerals

RT barium oxides

RT uranium oxides

**billitonites**

USE tektites

**bimetallic corrosion**

USE electrochemical corrosion

**BIMETALS**

RT switches

**BINARY ALLOY SYSTEMS**

BT1 alloy systems

**BINARY ENCOUNTER METHOD**

BT1 calculation methods

RT scattering

**BINARY FISSION**

\*BT1 fission

**BINARY-FLUID SYSTEMS**

INIS: 2000-04-12; ETDE: 1976-03-31

A system in which hot fluid is passed through a heat exchanger to transfer heat to a low-boiling point fluid (such as freon or isobutane), which is then used as the working fluid in a vapor-turbine cycle.

UF magmamax process

BT1 energy systems

RT geothermal energy conversion

RT geothermal power plants

RT thermodynamic cycles

**BINARY MIXTURES**

\*BT1 mixtures

RT alloys

**BINARY STARS**

BT1 stars

NT1 eruptive variable stars

NT2 novae

NT2 supernovae

NT2 t tauri stars

RT roche equipotentials

RT symbiotic stars

**BINDERS**

RT adhesives

RT fillers

**BINDING ENERGY**

For chemical and nuclear bonding. For bonding of materials, see also BONDING.

UF electron acceptor

UF electron donor

UF separation energy

BT1 energy

NT1 neutron separation energy

NT1 pairing energy

RT bond angle

RT bond lengths

RT chemical bonds

RT coulomb energy

RT covalence

RT double bonds

RT heitler-london theory

RT interatomic forces

RT intermolecular forces

RT ionization potential

RT majorana theory

RT mass defect

RT nuclear forces

RT work functions

**bioaccumulation**

INIS: 2000-04-12; ETDE: 1976-05-17

USE biological accumulation

**BIOADSORBENTS**

Biological materials with adsorptive capacity.

BT1 adsorbents

RT adsorption

RT decontamination

RT fungi

RT liquid wastes

RT sorptive properties

**BIOASSAY**

1999-03-26

UF biological testing

UF testing (biological)

NT1 immunoassay

NT2 enzyme immunoassay

NT2 radioimmunoassay

RT carcinogen screening

RT comparative evaluations

RT performance testing

RT plaque formation

RT radioassay

RT radioreceptor assay

**biocenoses**

USE ecosystems

**biochemical activity**

USE biochemistry

**BIOCHEMICAL FUEL CELLS**

2000-04-12

\*BT1 fuel cells

**BIOCHEMICAL OXYGEN DEMAND**

INIS: 1992-01-15; ETDE: 1975-10-28

The amount of oxygen necessary for the oxidative decomposition of a material by microorganisms.

UF biological oxygen demand

UF bod

RT aquatic ecosystems

RT biochemistry

RT chemical oxygen demand

RT dissolved gases

RT liquid wastes

RT oxygen

**BIOCHEMICAL REACTION KINETICS**

\*BT1 reaction kinetics

NT1 cpb

RT biochemistry

RT biological markers



RT detoxification  
 RT enzyme activity  
 RT enzymes  
 RT metabolic diseases  
 RT metabolism  
 RT protein engineering

**BIOCHEMISTRY**

UF biochemical activity  
 BT1 chemistry  
 NT1 blood chemistry  
 NT1 cytochemistry  
 RT antiandrogens  
 RT biochemical oxygen demand  
 RT biochemical reaction kinetics  
 RT bioconversion  
 RT biodegradation  
 RT biological evolution  
 RT biology  
 RT bioluminescence  
 RT biosynthesis  
 RT coenzymes  
 RT enzymes  
 RT fermentation  
 RT hormones  
 RT metabolism  
 RT receptors  
 RT soil chemistry  
 RT synergism  
 RT vitamins

**BIOCONVERSION**

INIS: 1991-09-23; ETDE: 1977-12-22  
 SF microbial processes  
 NT1 aerobic digestion  
 NT1 anaerobic digestion  
 NT2 biogas process  
 NT1 biophotolysis  
 NT1 fermentation  
 NT2 vacuum fermentation  
 RT biochemistry  
 RT biomass  
 RT biotechnology  
 RT biotermgas process  
 RT photolysis

**BIODEGRADATION**

1991-08-09  
 SF microbial processes  
 \*BT1 decomposition  
 RT aerobic conditions  
 RT anaerobic conditions  
 RT biochemistry  
 RT bioreactors  
 RT detritus  
 RT enzymatic hydrolysis

**biodiversity**

INIS: 1992-01-09; ETDE: 2002-06-13  
 USE species diversity

**BIOELECTRICITY**

INIS: 1983-09-06; ETDE: 1982-07-27  
 UF neuron transmission  
 BT1 electricity  
 RT electrophysiology  
 RT nerve cells  
 RT receptors  
 RT stimuli

**BIOFLAVONOIDS**

UF vitamin p  
 BT1 vitamins

**biofouling**

INIS: 1984-04-04; ETDE: 1976-08-25  
 USE biological fouling

**BIOFUELS**

2004-08-30  
*Fuels obtained from biological raw materials.*  
 UF biomass fuels  
 BT1 fuels  
 NT1 wood fuels  
 RT biomass

**biogas**

INIS: 2000-04-12; ETDE: 1983-03-23  
 USE methane

**BIOGAS PROCESS**

INIS: 1992-09-09; ETDE: 1975-10-28  
*An anaerobic digestion process for converting solid municipal waste and sewage into pipeline quality fuel gas and an odor free, stable solid.*  
 UF igt waste process  
 \*BT1 anaerobic digestion  
 RT waste processing plants

**biogeocenoses**

USE ecosystems

**BIOGEOCHEMISTRY**

\*BT1 geochemistry  
 RT biological evolution  
 RT biology  
 RT geobotany  
 RT mineral cycling

**BIOINTRUSION**

INIS: 1985-07-23; ETDE: 1987-10-23  
*Breaching by plants or animals of natural or man-made barriers, e.g. at waste disposal sites. Not for HUMAN INTRUSION.*  
 UF intrusion (animals)  
 UF intrusion (plants)  
 SF intrusion  
 RT environmental exposure pathway  
 RT fences  
 RT nuclear facilities  
 RT physical protection  
 RT radioactive waste disposal  
 RT radioactive waste facilities

**BIOLOGICAL ACCUMULATION**

INIS: 2000-04-12; ETDE: 1976-05-13  
*The abnormal or preferential accumulation of a material from the environment by a plant or animal.*  
 UF bioaccumulation  
 RT biological localization

**BIOLOGICAL ADAPTATION**

INIS: 1990-12-05; ETDE: 1975-10-28  
 (Prior to December 1990, this concept was indexed by ACCLIMATION.)  
 UF acclimation  
 RT behavior  
 RT biological recovery  
 RT biological variability  
 RT ecology  
 RT environment  
 RT heat-shock proteins  
 RT sensitivity  
 RT tolerance

**BIOLOGICAL AVAILABILITY**

INIS: 1985-12-11; ETDE: 1981-09-22  
*A measure of the ease with which a substance can be picked up by and incorporated into an organism.*  
 RT environmental exposure pathway  
 RT radionuclide migration  
 RT retention  
 RT uptake

**BIOLOGICAL DOSEMETERS**

\*BT1 dosimeters

RT biological indicators

**BIOLOGICAL EFFECTS**

NT1 biological radiation effects  
 NT2 abscopal radiation effects  
 NT2 delayed radiation effects  
 NT2 early radiation effects  
 NT2 genetic radiation effects  
 NT2 local radiation effects  
 NT3 osteoradionecrosis  
 NT3 radiation burns  
 NT3 radiodermatitis  
 NT2 radiation injuries  
 NT3 osteoradionecrosis  
 NT3 radiation burns  
 NT3 radiodermatitis  
 NT1 genetic effects  
 NT2 genetic radiation effects  
 RT acute exposure  
 RT biology  
 RT biophysics  
 RT chronic exposure  
 RT dose-response relationships  
 RT molecular biology  
 RT morphological changes  
 RT prenatal exposure  
 RT response modifying factors  
 RT sensitivity  
 RT structure-activity relationships  
 RT survival curves  
 RT synergism  
 RT toxicity

**BIOLOGICAL EVOLUTION**

1983-06-30  
 UF speciation (biological)  
 BT1 evolution  
 RT biochemistry  
 RT biogeochemistry  
 RT biological extinction  
 RT biology  
 RT biosynthesis  
 RT fossils  
 RT genetics  
 RT geobotany  
 RT molecular biology  
 RT paleontology  
 RT redundancy

**BIOLOGICAL EXTINCTION**

INIS: 1994-09-29; ETDE: 1982-10-05  
 RT animals  
 RT biological evolution  
 RT ecology  
 RT endangered species  
 RT paleontology  
 RT plants  
 RT populations  
 RT species diversity

**BIOLOGICAL FATIGUE**

UF fatigue (biological)  
 RT biological stress  
 RT exercise

**biological fluids**

INIS: 2000-04-12; ETDE: 1985-08-22  
 SEE body fluids

**BIOLOGICAL FOULING**

INIS: 1994-07-01; ETDE: 1975-11-28  
 (Until June 1994 this concept was indexed to FOULING.)  
 UF biofouling  
 BT1 fouling  
 RT algae  
 RT antifoulants

**BIOLOGICAL FUNCTIONS**

*INIS: 1976-01-28; ETDE: 1976-08-24*  
 Coordinate with descriptors for the organs or functions involved.

- UF function (biological)
- RT biological pathways
- RT dynamic function studies
- RT metabolism
- RT physiology
- RT structure-activity relationships

**BIOLOGICAL HALF-LIFE**

- UF effective half-life
- UF half-life (biological)
- UF half-life (effective)
- RT body burden
- RT radionuclide kinetics

**BIOLOGICAL HOT SPOTS**

- UF hot spots (biological)
- RT biological localization
- RT bone seekers
- RT radionuclide kinetics
- RT retention

**BIOLOGICAL INDICATORS**

- UF indicator species
- RT biological dosimeters
- RT biological radiation effects
- RT blood cells
- RT blood plasma
- RT bone marrow cells
- RT chromosomal aberrations
- RT dose-response relationships
- RT early radiation effects
- RT mutagen screening
- RT nucleosides
- RT radiation doses
- RT radiation injuries

**BIOLOGICAL LOCALIZATION**

*The concentration of a specific material or a specific effect in a definite location of a biological system.*

- UF localization (biological)
- RT banding techniques
- RT biological accumulation
- RT biological hot spots
- RT bone seekers
- RT radiation effects
- RT radioecological concentration
- RT radioisotopes
- RT radionuclide kinetics
- RT radiopharmaceuticals
- RT retention
- RT tissue distribution

**BIOLOGICAL MARKERS**

*INIS: 1984-08-24; ETDE: 1984-10-24*  
 UF reference materials (bio mark)  
 RT biochemical reaction kinetics  
 RT biological pathways  
 RT dynamic function studies  
 RT metabolism  
 RT tracer techniques

**BIOLOGICAL MATERIALS**

- UF materials (biological)
- BT1 materials
- NT1 biological wastes
  - NT2 feces
  - NT2 manures
  - NT2 sewage sludge
  - NT2 sweat
  - NT2 urine
- NT1 body fluids
  - NT2 amniotic fluid
  - NT2 bile
  - NT2 blood
    - NT3 blood cells
    - NT4 blood platelets

- NT4 erythrocytes
- NT5 reticulocytes
- NT4 leukocytes
  - NT5 basophils
  - NT5 eosinophils
  - NT5 lymphocytes
  - NT5 monocytes
  - NT5 natural killer cells
  - NT5 neutrophils
- NT3 blood plasma
  - NT4 blood serum
- NT2 cerebrospinal fluid
- NT2 gastric acid
- NT2 lymph
- NT2 milk
- NT2 saliva
- NT2 sweat
- NT2 urine
- NT1 forest litter
- NT1 plant sap
- NT1 tissue extracts
  - RT animal tissues
  - RT animals
  - RT biomass
  - RT environmental materials
  - RT food
  - RT homogenates
  - RT plankton
  - RT plants

**BIOLOGICAL MODELS**

- UF models (biological)
- RT analog systems
- RT environmental exposure pathway
- RT functional models
- RT mathematical models
- RT microcosms
- RT mockup
- RT phantoms

**biological oxygen demand**

*INIS: 2000-04-12; ETDE: 1981-01-12*  
 USE biochemical oxygen demand

**BIOLOGICAL PATHWAYS**

*INIS: 1978-11-24; ETDE: 1978-12-20*  
 UF metabolic pathways  
 UF mutagenic pathways  
 UF mutation induction pathways  
 UF repair pathways  
 NT1 krebs cycle  
 RT biological functions  
 RT biological markers  
 RT biological repair  
 RT fermentation  
 RT metabolic activation  
 RT molecular biology

**BIOLOGICAL RADIATION EFFECTS**

- UF radiobiological effects
- BT1 biological effects
- BT1 radiation effects
- NT1 abscopal radiation effects
- NT1 delayed radiation effects
- NT1 early radiation effects
- NT1 genetic radiation effects
- NT1 local radiation effects
  - NT2 osteoradionecrosis
  - NT2 radiation burns
  - NT2 radiodermatitis
- NT1 radiation injuries
  - NT2 osteoradionecrosis
  - NT2 radiation burns
  - NT2 radiodermatitis
- RT biological indicators
- RT biological stress
- RT oxygen enhancement ratio
- RT radiation chimeras
- RT radiation doses
- RT radiobiology

- RT radioimmunology
- RT radioinduction
- RT radiosensitivity
- RT rbe
- RT strand breaks
- RT teratogenesis

**biological reactors**

*INIS: 1986-05-23; ETDE: 1983-04-07*  
 USE bioreactors

**BIOLOGICAL RECOVERY**

- UF enhanced recovery (biological)
- UF recovery (biological)
- UF restoration
- SF recovery
- NT1 biological regeneration
- NT1 biological repair
  - NT2 dna repair
    - NT3 excision repair
  - NT2 host-cell reactivation
  - NT2 photoreactivation
- NT1 healing
- NT1 liquid holding recovery
- RT biological adaptation
- RT homeostasis
- RT post-irradiation therapy
- RT response modifying factors
- RT therapy

**BIOLOGICAL REGENERATION**

- UF regenerating liver
- UF regeneration (biological)
- BT1 biological recovery
- RT animal tissues
- RT growth
- RT organs
- RT viability

**biological remediation**

*2002-01-11*  
 USE bioremediation

**BIOLOGICAL REPAIR**

- UF repair (biological)
- BT1 biological recovery
- BT1 repair
- NT1 dna repair
  - NT2 excision repair
- NT1 host-cell reactivation
- NT1 photoreactivation
- RT biological pathways
- RT dna polymerases
- RT let
- RT molecular structure
- RT nucleic acids
- RT radiation injuries
- RT ultrastructural changes

**biological research reactor janus**

*1993-11-04*  
 USE janus reactor

**BIOLOGICAL SHIELDING**

- BT1 shielding
- RT radiation protection

**BIOLOGICAL SHIELDS**

- BT1 shields

**BIOLOGICAL SHOCK**

*For all types of shock in biology and medicine.*

- UF shock (biological)
- UF shock (medical)
- UF traumatic shock
- BT1 pathological changes
- RT anaphylaxis
- RT biological stress
- RT electric shock
- RT heart failure

**BIOLOGICAL STRESS**

- UF stress (biological)*  
**NT1** heat stress  
*RT* anoxia  
*RT* biological fatigue  
*RT* biological radiation effects  
*RT* biological shock  
*RT* chronic exposure  
*RT* drought resistance  
*RT* exercise  
*RT* fasting  
*RT* heart failure  
*RT* hypertension  
*RT* hypotension  
*RT* physiology  
*RT* prenatal exposure

**biological testing**

- USE* bioassay

**BIOLOGICAL VARIABILITY**

- UF variability (biological)*  
**NT1** genetic variability  
*RT* biological adaptation

**BIOLOGICAL WARFARE**

- INIS: 2000-04-12; ETDE: 1986-02-03*  
**BT1** warfare  
*RT* biological warfare agents

**BIOLOGICAL WARFARE AGENTS**

- INIS: 2000-04-12; ETDE: 1986-02-03*  
**BT1** weapons  
*RT* biological warfare

**BIOLOGICAL WASTES**

- UF municipal wastes (biological)*  
*UF radioactive biological wastes*  
**\*BT1** biological materials  
**BT1** wastes  
**NT1** feces  
**NT1** manures  
**NT1** sewage sludge  
**NT1** sweat  
**NT1** urine  
*RT* agricultural wastes  
*RT* excretion  
*RT* liquid wastes  
*RT* organic wastes  
*RT* pollutants  
*RT* solid wastes

**BIOLOGY**

- NT1** anatomy  
**NT1** botany  
**NT2** geobotany  
**NT1** cryobiology  
**NT1** cytology  
**NT1** genetics  
**NT1** radiobiology  
**NT1** zoology  
*RT* animal tissues  
*RT* animals  
*RT* biochemistry  
*RT* biogeochemistry  
*RT* biological effects  
*RT* biological evolution  
*RT* biosphere  
*RT* ecosystems  
*RT* medicine  
*RT* microorganisms  
*RT* organs  
*RT* plants  
*RT* symbiosis  
*RT* taxonomy

**BIOLUMINESCENCE**

- INIS: 1999-09-07; ETDE: 1980-10-27*  
**\*BT1** luminescence  
*RT* biochemistry  
*RT* photochemistry

**BIOMASS**

- INIS: 1996-11-13; ETDE: 1975-07-29*  
*Total weight of living organisms per unit area, or weight or volume of organisms per unit volume of habitat.*

- UF standing crop*  
*SF renewable resources*  
**\*BT1** renewable energy sources  
*RT* autohydrolysis  
*RT* bioconversion  
*RT* biofuels  
*RT* biological materials  
*RT* biomass plantations  
*RT* buffalo gourd  
*RT* cattails  
*RT* cellulose  
*RT* deforestation  
*RT* harvesting  
*RT* hemicellulose  
*RT* lignin  
*RT* oleoresins  
*RT* plankton  
*RT* plants  
*RT* solid fuels  
*RT* stand density  
*RT* sugar industry  
*RT* wood  
*RT* wood fuels  
*RT* xylans

**BIOMASS CONVERSION PLANTS**

- INIS: 1991-09-24; ETDE: 1979-10-23*  
*Plants converting biomass to fuel.*  
**BT1** industrial plants  
*RT* chemical plants  
*RT* ethanol plants  
*RT* methanol plants  
*RT* synthetic fuels

**biomass fuels**

- 2004-08-30*  
*USE* biofuels

**BIOMASS PLANTATIONS**

- INIS: 1991-09-25; ETDE: 1976-09-14*  
*Terrestrial or marine areas for the growing and harvesting of energy crops for the collection of energy for conversion into fuels.*  
*RT* agriculture  
*RT* biomass  
*RT* coppices  
*RT* crops  
*RT* farms  
*RT* short rotation cultivation  
*RT* silviculture

**BIOMEDICAL RADIOGRAPHY**

- See also INDUSTRIAL RADIOGRAPHY.*  
*UF angiography*  
*UF radiography (biomedical)*  
*UF x-ray radiography (biomedical)*  
**BT1** diagnostic techniques  
**\*BT1** radiology  
**NT1** fluoroscopy  
**NT1** ionographic imaging  
**NT1** osteodensitometry  
**NT1** renography  
*RT* cat scanning  
*RT* compton scattering tomography  
*RT* computerized tomography  
*RT* contrast media  
*RT* emission computed tomography  
*RT* microradiography  
*RT* photon computed tomography  
*RT* photon transmission scanning  
*RT* proton computed tomography  
*RT* proton radiography  
*RT* radiological personnel  
*RT* sequential scanning  
*RT* tomography

- RT* x radiation  
*RT* x-ray equipment  
*RT* x-ray radiography

**biomimetic processes**

- INIS: 2000-04-12; ETDE: 1978-08-07*  
*Methods or procedures based on or derived from a living organism by imitation or mimicry. A biomimetic process is predicated on a translation or abstraction of a process used by a living organism for a similar end. (Prior to February 1997 this was a valid ETDE descriptor.)*  
*SEE* photosynthesis

**BIOPHOTOLYSIS**

- INIS: 1992-02-18; ETDE: 1977-12-22*  
*The biologically mediated chemical breakdown of a compound using light as an energy source.*  
*SF microbial processes*  
**BT1** bioconversion  
**\*BT1** photolysis  
*RT* hydrogen production  
*RT* photosynthesis

**BIOPHYSICS**

- 2000-01-24*  
**BT1** physics  
*RT* biological effects  
*RT* compartments  
*RT* molecular biology  
*RT* radiation doses  
*RT* radiation effects  
*RT* radiation protection  
*RT* radiations  
*RT* radiobiology  
*RT* radionuclide kinetics

**BIOPSY**

- BT1** diagnostic techniques  
*RT* animal tissues  
*RT* autopsy

**BIOREACTORS**

- INIS: 1986-05-23; ETDE: 1983-03-23*  
*(Prior to March 1983 this concept in ETDE was indexed to CHEMICAL REACTORS.)*  
*UF biological reactors*  
*RT* biodegradation  
*RT* chemical reactors  
*RT* oxidation  
*RT* waste water  
*RT* water treatment

**BIOREMEDIATION**

- 2002-01-11*  
*UF biological remediation*  
**BT1** remedial action  
*RT* microorganisms

**BIOSATELLITES**

- BT1** satellites

**BIOSPHERE**

- RT* biology  
*RT* carbon sources  
*RT* ecosystems  
*RT* environment  
*RT* nature reserves  
*RT* populations

**BIOSYNTHESIS**

- UF translation (macromolecules)*  
**BT1** synthesis  
**NT1** post-translation modification  
*RT* anabolism  
*RT* biochemistry  
*RT* biological evolution  
*RT* coenzymes  
*RT* enzyme induction  
*RT* enzymes

*RT* gene regulation  
*RT* ligases  
*RT* metabolism  
*RT* molecular biology  
*RT* phosphoenolpyruvate  
*RT* photosynthesis  
*RT* precursor

**BIOT-SAVART LAW**

*RT* magnetic fields

**BIOTECHNOLOGY**

*INIS: 1995-11-15; ETDE: 1986-11-20*  
*The application of the principles of technology or engineering to the life sciences.*

**NT1** genetic engineering  
**NT2** nucleic acid hybridization  
**NT3** dna hybridization  
**NT4** dna-cloning  
**NT3** in-situ hybridization  
**NT1** microarray technology  
*RT* artificial organs  
*RT* bioconversion  
*RT* cell cultures  
*RT* commercialization  
*RT* hybridomas  
*RT* immobilized cells  
*RT* molecular biology  
*RT* polymerase chain reaction  
*RT* protein engineering  
*RT* recombinant dna

**BIOETHERM GAS PROCESS**

*INIS: 2000-04-12; ETDE: 1981-12-14*  
*UF igt biothermal gasification*  
 \*BT1 gasification  
*RT* bioconversion  
*RT* methane

**biothermohol process**

*INIS: 2000-04-12; ETDE: 1981-07-18*  
*A method developed by IGT for converting biomass to liquid fuels by combining fermentation and thermochemical processes.*  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE fermentation  
 USE thermochemical processes

**BIOTIN**

*UF* vitamin h  
 \*BT1 heterocyclic acids  
 \*BT1 imidazoles  
 \*BT1 organic sulfur compounds  
 \*BT1 vitamin b group

**BIOTITE**

*A widely distributed and important rock-forming mineral of the mica group.*  
 \*BT1 mica  
*RT* granites

**BIPHENYL**

*UF* dowtherm  
 \*BT1 aromatics  
 \*BT1 hydrocarbons  
*RT* benzidine

**biphenyldiamine**

USE benzidine

**biphosphates**

*INIS: 2000-04-12; ETDE: 1980-09-22*  
 (From July 1977 till February 1997 acid phosphates was used for this concept in ETDE.)  
 USE phosphates

**BIPYRIDINES**

*UF* methyl viologen  
 \*BT1 pyridines

**BIR REACTOR**

*INIS: 1986-12-09; ETDE: 1987-03-09*  
 \*BT1 enriched uranium reactors  
 \*BT1 fast reactors  
 \*BT1 pulsed reactors  
 \*BT1 research reactors

**BIRCHES**

*INIS: 1991-12-16; ETDE: 1979-03-27*  
 \*BT1 magnoliopsida  
 \*BT1 trees

**BIRDS**

*UF* bursa of fabricius  
 \*BT1 vertebrates  
**NT1** fowl  
**NT2** chickens  
**NT2** ducks  
**NT2** geese  
**NT1** pigeons  
*RT* eggs  
*RT* feathers  
*RT* newcastle disease

**BIREFRINGENCE**

*INIS: 1994-07-01; ETDE: 1979-07-18*  
 (Until June 1994 this concept was indexed to REFRACTION.)  
 BT1 refraction  
*RT* optical properties

**birmingham synchrotron**

1996-07-16  
 (Until July 1996 this was a valid descriptor.)  
 USE synchrotrons

**birth**

USE parturition

**bis(2-ethylhexyl)phosphoric acid**

USE hdehp

**bis(chloroethyl)amine**

USE nitrogen mustard

**bis(phenyloxazolyl)benzene**

2000-04-12  
 USE popop

**biscay bay (france, spain)**

*INIS: 1985-07-23; ETDE: 2002-06-13*  
 USE bay of biscay

**BISCAYNE BAY**

\*BT1 atlantic ocean  
 \*BT1 bays  
*RT* florida

**BISCHOFF PROCESS**

2000-04-12  
*An adjustable wet process that operates with alkaline additives to remove dust and sulfur dioxide from flue gas in a single operation giving savings in space and cost.*  
 \*BT1 lime-limestone wet scrubbing processes  
*RT* waste processing

**bisethylenedithiolotetrathiafulvalene**

*INIS: 2000-04-12; ETDE: 1985-11-19*  
 USE bedt-tf

**BISMUTH**

\*BT1 metals

**BISMUTH 186**

*INIS: 1997-06-05; ETDE: 2000-08-02*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 heavy nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**BISMUTH 188**

1980-11-07  
 \*BT1 alpha decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-odd nuclei

**BISMUTH 189**

\*BT1 alpha decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**BISMUTH 190**

\*BT1 alpha decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**BISMUTH 191**

\*BT1 alpha decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**BISMUTH 192**

\*BT1 alpha decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**BISMUTH 193**

\*BT1 alpha decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**BISMUTH 194**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**BISMUTH 195**

\*BT1 alpha decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**BISMUTH 196**

\*BT1 alpha decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**BISMUTH 197**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 bismuth isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**BISMUTH 198**

- \*BT1 bismuth isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**BISMUTH 199**

- \*BT1 alpha decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**BISMUTH 200**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**BISMUTH 201**

- \*BT1 alpha decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**BISMUTH 202**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei

**BISMUTH 203**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei

**BISMUTH 204**

- \*BT1 bismuth isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei

**BISMUTH 205**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei

**BISMUTH 206**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei

**BISMUTH 207**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 years living radioisotopes

**BISMUTH 207 TARGET**

INIS: 1978-01-16; ETDE: 1978-03-03

- BT1 targets

**BISMUTH 208**

- \*BT1 bismuth isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 years living radioisotopes

**BISMUTH 208 TARGET**

INIS: 1979-09-18; ETDE: 1978-11-14

- BT1 targets

**BISMUTH 209**

- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**BISMUTH 209 BEAMS**

1983-03-15

- \*BT1 ion beams

**BISMUTH 209 REACTIONS**

1980-11-07

- \*BT1 heavy ion reactions

**BISMUTH 209 TARGET**

ETDE: 1976-07-09

- BT1 targets

**BISMUTH 210**

UF radium e

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 days living radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 years living radioisotopes

**BISMUTH 210 TARGET**

INIS: 1976-10-29; ETDE: 1976-08-24

- BT1 targets

**BISMUTH 211**

UF actinium c

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei

**BISMUTH 212**

UF thorium c

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**BISMUTH 213**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**BISMUTH 214**

UF radium c

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei

- \*BT1 minutes living radioisotopes

- \*BT1 odd-odd nuclei

**BISMUTH 215**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**BISMUTH 216**

INIS: 1989-05-29; ETDE: 1989-06-21

- \*BT1 beta-minus decay radioisotopes
- \*BT1 bismuth isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**BISMUTH ADDITIONS**

Alloys containing not more than 1% Bi are listed here.

- \*BT1 bismuth alloys

**BISMUTH ALLOYS**

Alloys containing more than 1% Bi.

- BT1 alloys
- NT1 bismuth additions
- NT1 bismuth base alloys
- NT2 alloy-bi50pb25cd12sn12
- NT3 wood metal
- NT2 cerrobend alloys
- NT2 lichtenberg alloy
- NT2 newton-metal
- NT1 rose-metal

**BISMUTH BASE ALLOYS**

- \*BT1 bismuth alloys
- NT1 alloy-bi50pb25cd12sn12
- NT2 wood metal
- NT1 cerrobend alloys
- NT1 lichtenberg alloy
- NT1 newton-metal

**bismuth borides**

1996-07-16

(Until July 1996 this was a valid descriptor.)

- USE bismuth compounds
- USE borides

**BISMUTH BROMIDES**

- BT1 bismuth compounds
- \*BT1 bromides

**bismuth carbonates**

1996-07-16

(Until July 1996 this was a valid descriptor.)

- USE bismuth compounds
- USE carbonates

**BISMUTH CHLORIDES**

- BT1 bismuth compounds
- \*BT1 chlorides

**BISMUTH COMPLEXES**

- BT1 complexes

**BISMUTH COMPOUNDS**

1996-07-16

- UF bismuth borides
- UF bismuth carbonates
- UF bismuth uranates
- NT1 bismuth bromides
- NT1 bismuth chlorides
- NT1 bismuth fluorides
- NT1 bismuth germanates
- NT1 bismuth hydrides
- NT1 bismuth hydroxides
- NT1 bismuth iodides
- NT1 bismuth nitrates
- NT1 bismuth oxides
- NT1 bismuth phosphates
- NT1 bismuth selenides

NT1 bismuth sulfates  
 NT1 bismuth sulfides  
 NT1 bismuth tellurides  
 NT1 bismuth tungstates

**BISMUTH FLUORIDES**

BT1 bismuth compounds  
 \*BT1 fluorides

**bismuth germanate detectors**

INIS: 1984-08-24; ETDE: 1984-07-10

USE bgo detectors

**BISMUTH GERMANATES**

INIS: 1983-12-01; ETDE: 1983-07-07

BT1 bismuth compounds  
 \*BT1 germanates  
 RT inorganic phosphors

**BISMUTH HYDRIDES**

1996-07-16

BT1 bismuth compounds  
 \*BT1 hydrides

**BISMUTH HYDROXIDES**

BT1 bismuth compounds  
 \*BT1 hydroxides

**BISMUTH IODIDES**

BT1 bismuth compounds  
 \*BT1 iodides

**BISMUTH IONS**

\*BT1 ions

**BISMUTH ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 bismuth 186  
 NT1 bismuth 188  
 NT1 bismuth 189  
 NT1 bismuth 190  
 NT1 bismuth 191  
 NT1 bismuth 192  
 NT1 bismuth 193  
 NT1 bismuth 194  
 NT1 bismuth 195  
 NT1 bismuth 196  
 NT1 bismuth 197  
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 NT1 bismuth 207  
 NT1 bismuth 208  
 NT1 bismuth 209  
 NT1 bismuth 210  
 NT1 bismuth 211  
 NT1 bismuth 212  
 NT1 bismuth 213  
 NT1 bismuth 214  
 NT1 bismuth 215  
 NT1 bismuth 216

**BISMUTH NITRATES**

BT1 bismuth compounds  
 \*BT1 nitrates

**BISMUTH ORES**

BT1 ores

**BISMUTH OXIDES**

BT1 bismuth compounds  
 \*BT1 oxides

**BISMUTH PHOSPHATES**

BT1 bismuth compounds  
 \*BT1 phosphates

**BISMUTH SELENIDES**

1979-09-18

BT1 bismuth compounds  
 \*BT1 selenides

**BISMUTH SULFATES**

BT1 bismuth compounds  
 \*BT1 sulfates

**BISMUTH SULFIDES**

BT1 bismuth compounds  
 \*BT1 sulfides

**BISMUTH TELLURIDES**

BT1 bismuth compounds  
 \*BT1 tellurides

**BISMUTH TUNGSTATES**

INIS: 1981-11-27; ETDE: 1977-07-23

BT1 bismuth compounds  
 \*BT1 tungstates

**bismuth uranates**

2000-04-12

(Prior to January 1993 this was a valid ETDE descriptor.)

USE bismuth compounds  
 USE uranates

**bisulfates**

INIS: 2000-04-12; ETDE: 1980-09-22

USE acid sulfates

**bitter spar**

INIS: 2000-04-12; ETDE: 1976-03-31

USE dolomite

**BITUMENS**

1996-06-26

UF blown bitumens  
 UF carburan  
 UF oil sand oils  
 UF tar sand oil  
 \*BT1 tar  
 NT1 asphalts  
 NT1 coal tar  
 NT1 thucholite  
 RT asphaltite  
 RT bituminous materials  
 RT cold-water processes  
 RT oil sands  
 RT oil shales  
 RT waste processing

**BITUMINOUS COAL**

1991-09-25

SF soft coal  
 \*BT1 black coal  
 RT subbituminous coal

**BITUMINOUS MATERIALS**

1993-06-08

Materials containing much organic, or at least carbonaceous, matter, mostly in the form of tarry hydrocarbons which are usually described as bitumen.

\*BT1 carbonaceous materials  
 NT1 kerogen  
 NT1 oil sands  
 NT1 oil shales  
 NT2 black shales  
 RT bitumens  
 RT coal tar  
 RT shale tar

**BL LACERTAE OBJECTS**

INIS: 1981-10-15; ETDE: 1980-03-29

BT1 cosmic radio sources  
 RT quasars  
 RT seyfert galaxies

**BLACK AMERICANS**

INIS: 2000-04-12; ETDE: 1981-05-18

UF american blacks  
 \*BT1 minority groups  
 RT sociology

**black chrome**

INIS: 2000-04-12; ETDE: 1978-10-23

(Prior to February 1997 this was a valid ETDE descriptor.)

USE black coatings

**black clawson system**

INIS: 2000-04-12; ETDE: 1976-03-22

Waste processing system for materials and energy recovery by wet processing of municipal wastes.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE waste processing

**BLACK COAL**

1991-09-25

\*BT1 coal  
 NT1 anthracite  
 NT1 bituminous coal

**BLACK COATINGS**

INIS: 2000-04-12; ETDE: 1978-02-14

UF black chrome  
 BT1 coatings  
 NT1 black nickel  
 RT solar absorbers  
 RT spectrally selective surfaces

**BLACK DWARF STARS**

\*BT1 dwarf stars

**BLACK FOX-1 REACTOR**

INIS: 1976-07-06; ETDE: 1976-03-11

Public Service Co. of Oklahoma, Inola, Oklahoma, USA. Canceled in 1982 before construction began.

\*BT1 bwr type reactors  
 RT ge standard reactor

**BLACK FOX-2 REACTOR**

INIS: 1976-07-06; ETDE: 1976-03-11

Public Service Co. of Oklahoma, Inola, Oklahoma, USA. Canceled in 1982 before construction began.

\*BT1 bwr type reactors  
 RT ge standard reactor

**BLACK HOLES**

RT accretion disks  
 RT gravitational collapse  
 RT kerr field  
 RT schwarzschild radius  
 RT stars  
 RT white holes

**BLACK LIQUIDS**

INIS: 2000-04-12; ETDE: 1978-08-07

\*BT1 liquids  
 RT heat transfer fluids  
 RT solar absorbers  
 RT solar collectors

**black liquors**

INIS: 2000-03-24; ETDE: 1993-03-04

USE spent liquors

**black lung disease**

INIS: 2000-04-12; ETDE: 1982-02-08

USE pneumoconioses

**BLACK NICKEL**

INIS: 2000-04-12; ETDE: 1978-12-11

\*BT1 black coatings  
 RT nickel  
 RT solar absorbers

**BLACK NUCLEUS MODEL**

\*BT1 nuclear models

**BLACK SANDS**

BT1 minerals  
BT1 sand  
RT magnetite  
RT thorianite  
RT thorite  
RT uraninites

**BLACK SEA**

\*BT1 seas  
RT bulgaria  
RT danube river  
RT dnier river  
RT moldova  
RT republic of georgia  
RT romania  
RT turkey  
RT ukraine

**BLACK SHALES**

INIS: 1992-07-22; ETDE: 1976-12-15  
UF antrim shales  
UF devonian shales  
\*BT1 oil shales  
RT chattanooga formation  
RT hystort process

**BLACKBODY RADIATION**

UF universal blackbody radiation  
SF mean radiant temperature  
\*BT1 electromagnetic radiation  
RT emissivity  
RT planck radiation formula  
RT thermal radiation

**blackouts**

1982-12-03  
USE outages

**BLADDER**

\*BT1 urinary tract  
RT pelvis

**blades (compressor)**

INIS: 2000-04-12; ETDE: 1975-10-01  
USE compressor blades

**blades (turbines)**

USE turbine blades

**BLAHUTOVICE-1 REACTOR**

INIS: 1988-04-15; ETDE: 1988-05-23  
North Moravia, Czech Republic.  
\*BT1 wwer type reactors

**BLAIR MODEL**

UF blair phase rule  
RT elastic scattering

**blair phase rule**

USE blair model

**BLANKENBECLER-SUGAR EQUATIONS**

\*BT1 integral equations  
RT bethe-salpeter equation  
RT lippmann-schwinger equation  
RT particle production  
RT scattering

**blankets (breeding)**

USE breeding blankets

**blankets (gas)**

INIS: 1976-07-30; ETDE: 2002-06-13  
USE gas blankets

**BLASCON DEVICES**

*Spherical configuration using swirling lithium to create a vortex for injection of fusion fuel for laser ignition.*

\*BT1 closed plasma devices

**BLAST EFFECTS**

RT explosions  
RT landslides  
RT seismic effects  
RT shock waves

**BLAST FURNACES**

BT1 furnaces

**blasting**

INIS: 2000-04-12; ETDE: 1978-04-27  
USE explosive fracturing

**blasts**

USE explosions

**BLATT-BIEDENHARN FORMALISM**

RT angular distribution

**BLAYAIS-1 REACTOR**

1995-10-02  
\*BT1 pwr type reactors

**BLEACHING**

RT coloration

**blenders**

INIS: 2000-04-12; ETDE: 1976-01-23  
USE mixers

**blending**

USE mixing

**BLEOMYCIN**

\*BT1 antibiotics  
\*BT1 antimetotic drugs  
\*BT1 antineoplastic drugs  
RT neoplasms  
RT therapy

**BLIND RIVER**

\*BT1 rivers

**BLISTERS**

INIS: 1976-10-07; ETDE: 1976-11-01  
*Resulting near or on the surface of materials due to external physical or chemical effects.*  
RT bubbles  
RT heating  
RT radiation effects  
RT surfaces  
RT swelling

**BLIZZARD DEPOSIT**

INIS: 1981-02-27; ETDE: 1981-03-13  
\*BT1 uranium deposits  
RT british columbia  
RT uranium ores

**BLOCH EQUATIONS**

BT1 equations  
RT magnetic resonance

**BLOCH THEORY**

RT quantum mechanics

**BLOCH WALL**

1976-02-05  
*Transition layer with finite thickness of a few hundred lattice constants, between adjacent ferromagnetic domains.*  
BT1 domain structure

**blocking**

USE channeling

**blocking layer**

INIS: 2000-04-12; ETDE: 1980-03-04  
USE depletion layer

**BLOCKING OSCILLATORS**

\*BT1 oscillators  
RT pulse generators

**BLOOD**

\*BT1 body fluids  
NT1 blood cells  
NT2 blood platelets  
NT2 erythrocytes  
NT3 reticulocytes  
NT2 leukocytes  
NT3 basophils  
NT3 eosinophils  
NT3 lymphocytes  
NT3 monocytes  
NT3 natural killer cells  
NT3 neutrophils  
NT1 blood plasma  
NT2 blood serum  
RT blood circulation  
RT blood count  
RT blood formation  
RT blood groups  
RT bone marrow  
RT connective tissue  
RT extracorporeal irradiation  
RT hematologic agents  
RT hemic diseases  
RT hemocyanin  
RT hemorrhage  
RT hemosiderin  
RT homeostasis  
RT respiration  
RT septicemia  
RT transfusions  
RT uremia

**BLOOD-BRAIN BARRIER**

RT homeostasis  
RT physiology

**BLOOD CELLS**

\*BT1 blood  
NT1 blood platelets  
NT1 erythrocytes  
NT2 reticulocytes  
NT1 leukocytes  
NT2 basophils  
NT2 eosinophils  
NT2 lymphocytes  
NT2 monocytes  
NT2 natural killer cells  
NT2 neutrophils  
RT biological indicators  
RT blood count  
RT bone marrow

**BLOOD CHEMISTRY**

INIS: 1982-06-09; ETDE: 1980-06-23  
\*BT1 biochemistry  
RT blood coagulation factors  
RT blood plasma  
RT blood serum  
RT hemic diseases  
RT pbi  
RT qualitative chemical analysis  
RT quantitative chemical analysis

**BLOOD CIRCULATION**

UF cardiac output  
UF circulation (blood)  
RT blood  
RT blood flow  
RT blood pressure  
RT cardiography  
RT cardiovascular system  
RT emboli

RT heart  
 RT ischemia  
 RT kidneys  
 RT lungs  
 RT mechanical heart  
 RT myocardial infarction  
 RT parabiosis  
 RT physiology  
 RT spleen  
 RT vasoconstriction  
 RT vasodilation

**blood clotting**

USE blood coagulation

**BLOOD COAGULATION**

UF *blood clotting*  
 UF *coagulation (blood)*  
 RT anticoagulants  
 RT blood coagulation factors  
 RT blood platelets  
 RT blood serum  
 RT coalescence  
 RT fibrinolysin  
 RT hematologic agents  
 RT hematomas  
 RT hemophilia  
 RT hemorrhage  
 RT thrombosis

**BLOOD COAGULATION FACTORS**

\*BT1 proteins  
 NT1 fibrin  
 NT1 fibrinogen  
 NT1 kallikrein  
 NT1 plasminogen  
 NT1 prothrombin  
 NT1 thrombin  
 NT1 thromboplastin  
 NT1 urokinase  
 RT blood chemistry  
 RT blood coagulation  
 RT blood platelets  
 RT calcium  
 RT fibrinolysin  
 RT folic acid  
 RT vitamin k

**BLOOD COUNT**

RT blood  
 RT blood cells

**blood diseases**

USE hemic diseases

**BLOOD FLOW**

UF *flow (blood)*  
 RT blood circulation  
 RT blood vessels  
 RT emboli  
 RT organs

**BLOOD FORMATION**

UF *hematopoiesis*  
 UF *hemopoiesis*  
 SF *leukocytin*  
 NT1 erythropoiesis  
 NT1 leukopoiesis  
 NT1 thrombopoiesis  
 RT blood  
 RT bone marrow  
 RT bone marrow cells  
 RT cell differentiation  
 RT hematopoietic system  
 RT spleen  
 RT spleen colony formation  
 RT stem cells

**BLOOD GROUPS**

RT blood  
 RT erythrocytes

RT hemagglutinins  
 RT transfusions

**BLOOD PLASMA**

UF *plasma (blood)*  
 \*BT1 blood  
 NT1 blood serum  
 RT biological indicators  
 RT blood chemistry  
 RT blood-plasma clearance  
 RT blood substitutes  
 RT chylomicrons  
 RT complement  
 RT proteins

**BLOOD-PLASMA CLEARANCE**

UF *plasma clearance*  
 BT1 clearance  
 RT blood plasma  
 RT diagnostic techniques  
 RT pbi  
 RT radionuclide administration  
 RT radionuclide kinetics  
 RT thyroid  
 RT time dependence

**BLOOD PLATELETS**

UF *thrombocytes*  
 \*BT1 blood cells  
 RT blood coagulation  
 RT blood coagulation factors  
 RT thrombopoiesis

**BLOOD PRESSURE**

RT antihypertensive agents  
 RT arteries  
 RT blood circulation  
 RT cardiology  
 RT cardiovascular system  
 RT hypertension  
 RT hypotension  
 RT renin

**BLOOD SERUM**

UF *hsa*  
 UF *human serum albumin*  
 UF *serum (blood)*  
 \*BT1 blood plasma  
 RT blood chemistry  
 RT blood coagulation  
 RT immune serums

**BLOOD SUBSTITUTES**

2000-05-24

UF *plasma substitutes*  
 \*BT1 hematologic agents  
 NT1 dextran  
 NT1 pectins  
 NT1 pvp  
 RT blood plasma  
 RT coagulants  
 RT fibrinolytic agents  
 RT hematitics  
 RT post-irradiation therapy  
 RT transfusions

**BLOOD VESSELS**

UF *angiography*  
 BT1 cardiovascular system  
 \*BT1 organs  
 NT1 arteries  
 NT2 aorta  
 NT2 carotid arteries  
 NT2 cerebral arteries  
 NT2 coronaries  
 NT1 capillaries  
 NT1 veins  
 NT2 portal system  
 RT angiomas  
 RT blood flow  
 RT bypasses

RT cardiovascular agents  
 RT emboli  
 RT hemorrhage  
 RT ischemia  
 RT telangiectasis  
 RT thrombosis  
 RT vascular diseases  
 RT vasoconstriction  
 RT vasoconstrictors  
 RT vasodilation  
 RT vasodilators

**BLOWDOWN**

RT loss of coolant

**BLOWERS**

UF *fans*  
 RT automotive accessories  
 RT bellows  
 RT ceiling fans  
 RT compressors  
 RT pumps  
 RT reactor cooling systems  
 RT superchargers

**blown bitumens**

INIS: 2000-04-12; ETDE: 1976-02-19

*A special type of bitumen produced by blowing air, under controlled conditions, through hot bitumen.*

(Prior to April 1994, this was a valid ETDE descriptor.)

USE bitumens

**BLOWOFF**

2000-04-12

*Separation of a flame from a burner; material, either solid, liquid, or vapor, ejected from a sample upon absorption of high energy in a short period of time.*

RT burners  
 RT evaporation  
 RT flame propagation  
 RT flames  
 RT flashback

**BLOWOUT PREVENTERS**

INIS: 1993-01-29; ETDE: 1976-03-11

*Stacks or assemblies of heavy-duty valves attached to the top of the casing to control well pressure.*

UF *bop*  
 \*BT1 drilling equipment  
 RT blowouts  
 RT natural gas wells  
 RT oil wells

**BLOWOUTS**

1991-09-25

*The high-pressure, sometimes violent, uncontrolled ejection of water, gas, or oil from a borehole.*

BT1 accidents  
 RT blowout preventers  
 RT oil wells  
 RT wells

**blowup (particle beams)**

INIS: 1984-04-04; ETDE: 2002-06-13

USE beam dynamics

**blue-green algae**

INIS: 1983-02-03; ETDE: 1983-03-07

USE cyanobacteria

**BLUE HILLS-1 REACTOR**

*Gulf States Utilities Co., Newton, Texas, USA. Canceled in 1978 before construction began.*

\*BT1 pwr type reactors



**BLUE HILLS-2 REACTOR**

*Gulf States Utilities Co., Newton, Texas, USA.*  
*Canceled in 1978 before construction began.*  
 \*BT1 pwr type reactors

**BLUE STELLAR OBJECTS**

\*BT1 quasars

**BLUEBERRIES**

*INIS: 1993-07-13; ETDE: 1984-12-26*  
 \*BT1 berries

**bmi reactor**

USE brr reactor

**BN-1600 REACTOR**

*INIS: 1979-09-18; ETDE: 1979-10-23*  
*Russian Federation.*

\*BT1 lmfbr type reactors  
 \*BT1 power reactors  
 \*BT1 sodium cooled reactors

**BN-350 REACTOR**

*Mangyshlak, Shevchenko, Kazakhstan.*  
*UF fort shevchenko reactor*  
 \*BT1 desalination reactors  
 \*BT1 lmfbr type reactors  
 \*BT1 power reactors  
 \*BT1 sodium cooled reactors  
*RT enriched uranium reactors*  
*RT plutonium reactors*

**bn-600 reactor**

USE beloyarsk-3 reactor

**BN-800 REACTOR**

*INIS: 1989-02-24; ETDE: 1989-03-20*  
 \*BT1 lmfbr type reactors  
 \*BT1 power reactors  
 \*BT1 sodium cooled reactors

**BNFL**

*INIS: 1980-04-02; ETDE: 1980-05-06*  
*UF british nuclear fuels limited*  
 \*BT1 united kingdom organizations

**BNL**

*UF brookhaven national laboratory*  
 \*BT1 us aec  
 \*BT1 us doe  
 \*BT1 us erda  
*RT new york*

**bnl reactor**

*2000-04-12*  
 (Prior to June 1994, this was a valid ETDE descriptor.)

SEE graphite moderated reactors  
 SEE research reactors  
 SEE zero power reactors

**bnps-1 reactor**

USE beloyarsk-1 reactor

**bnps-2 reactor**

USE beloyarsk-2 reactor

**bod**

*INIS: 2000-04-12; ETDE: 1975-10-28*  
 USE biochemical oxygen demand

**BODY**

*See also PLANT TISSUES.*  
 (Prior to March 1997 BODY AREAS was a valid ETDE descriptor.)

*UF body areas*  
 NT1 abdomen  
 NT1 animal tissues  
 NT2 bone marrow  
 NT2 connective tissue  
 NT3 adipose tissue  
 NT3 bone tissues  
 NT4 antlers

NT4 trabecular bone  
 NT3 cartilage  
 NT3 fascia  
 NT3 ligaments  
 NT3 tendons  
 NT2 endothelium  
 NT2 epithelium  
 NT3 epidermis  
 NT2 nerve tissue  
 NT2 perfused tissues  
 NT2 reticuloendothelial system  
 NT1 chest  
 NT2 mediastinum  
 NT1 head  
 NT2 face  
 NT3 eyes  
 NT4 conjunctiva  
 NT4 cornea  
 NT4 crystalline lens  
 NT4 lacrimal ducts  
 NT4 retina  
 NT4 uvea  
 NT3 nose  
 NT1 hematopoietic system  
 NT2 bone marrow  
 NT1 limbs  
 NT2 arms  
 NT3 hands  
 NT4 fingers  
 NT2 legs  
 NT3 feet  
 NT1 neck  
 NT1 organs  
 NT2 blood vessels  
 NT3 arteries  
 NT4 aorta  
 NT4 carotid arteries  
 NT4 cerebral arteries  
 NT4 coronaries  
 NT3 capillaries  
 NT3 veins  
 NT4 portal system  
 NT2 bone marrow  
 NT2 brain  
 NT3 cerebellum  
 NT3 cerebrum  
 NT4 cerebral cortex  
 NT3 hippocampus  
 NT3 hypothalamus  
 NT3 olfactory bulbs  
 NT3 thalamus  
 NT2 critical organs  
 NT2 diaphragm  
 NT2 esophagus  
 NT2 female genitals  
 NT3 ovaries  
 NT3 uterus  
 NT2 glands  
 NT3 endocrine glands  
 NT4 adrenal glands  
 NT4 pancreas  
 NT4 parathyroid glands  
 NT4 pituitary gland  
 NT4 thyroid  
 NT3 liver  
 NT3 mammary glands  
 NT3 pineal gland  
 NT3 prostate  
 NT3 salivary glands  
 NT2 heart  
 NT3 myocardium  
 NT3 pericardium  
 NT2 intestines  
 NT3 large intestine  
 NT4 rectum  
 NT3 small intestine  
 NT2 kidneys  
 NT3 glomeruli  
 NT3 tubules

NT2 lungs  
 NT2 male genitals  
 NT3 prostate  
 NT3 testes  
 NT2 perfused organs  
 NT2 pharynx  
 NT2 sense organs  
 NT3 auditory organs  
 NT3 eyes  
 NT4 conjunctiva  
 NT4 cornea  
 NT4 crystalline lens  
 NT4 lacrimal ducts  
 NT4 retina  
 NT4 uvea  
 NT3 taste buds  
 NT3 vestibular apparatus  
 NT2 skeleton  
 NT3 bone joints  
 NT3 exoskeleton  
 NT3 femur  
 NT3 skull  
 NT4 jaw  
 NT3 tibia  
 NT3 vertebrae  
 NT2 skin  
 NT3 epidermis  
 NT3 hair  
 NT3 hair follicles  
 NT3 nails  
 NT2 spleen  
 NT2 stomach  
 NT2 thymus  
 NT2 tongue  
 NT2 urinary tract  
 NT3 bladder  
 NT3 ureters  
 NT1 pelvis  
*RT anatomy*  
*RT body composition*  
*RT retention*  
*RT sinuses*  
*RT whole-body counting*  
*RT whole-body irradiation*

**body areas**

*1999-04-06*

(Until April 1999 this was a valid descriptor.)

USE body

**BODY BURDEN**

*RT biological half-life*  
*RT contamination*  
*RT icrp critical group*  
*RT maximum permissible body burden*  
*RT pollution*  
*RT radioactivity*  
*RT radionuclide kinetics*

**body centered cubic**

USE bcc lattices

**BODY COMPOSITION**

*RT body*  
*RT quantitative chemical analysis*

**BODY FLUIDS**

*UF aqueous humor*  
*SF biological fluids*  
 \*BT1 biological materials  
 NT1 amniotic fluid  
 NT1 bile  
 NT1 blood  
 NT2 blood cells  
 NT3 blood platelets  
 NT3 erythrocytes  
 NT4 reticulocytes  
 NT3 leukocytes  
 NT4 basophils  
 NT4 eosinophils

- NT4 lymphocytes
- NT4 monocytes
- NT4 natural killer cells
- NT4 neutrophils
- NT2 blood plasma
- NT3 blood serum
- NT1 cerebrospinal fluid
- NT1 gastric acid
- NT1 lymph
- NT1 milk
- NT1 saliva
- NT1 sweat
- NT1 urine
- RT edema
- RT excretion
- RT feces
- RT secretion

**BODY TEMPERATURE**

- UF temperature (body)
- NT1 hyperthermia
- NT1 hypothermia
- RT fever
- RT heat stress
- RT physiology
- RT thermoregulation

**body waves p (seismic)**

1980-05-14

- USE seismic p waves

**body waves s (seismic)**

1980-05-14

- USE seismic s waves

**BOGHEAD COAL**

INIS: 2000-04-12; ETDE: 1978-05-03

- \*BT1 sapropelic coal
- NT1 torbanite

**BOGOLYUBOV METHOD**

- BT1 calculation methods
- RT superconductivity

**bogolyubov theory**

- USE bbgky equation

**BOGOLYUBOV TRANSFORMATION**

- UF bogolyubov-valatin relation
- \*BT1 canonical transformations
- RT hartree-fock-bogolyubov theory

**bogolyubov-valatin relation**

- USE bogolyubov transformation

**bogs**

INIS: 1976-10-29; ETDE: 1979-05-03

- USE swamps

**BOHM CRITERION**

- UF bohm-gross method
- UF bohm theory
- RT plasma

**bohm-gross method**

- USE bohm criterion

**bohm-pines theory**

- USE pines-bohm theory

**bohm theory**

- USE bohm criterion

**bohr approximation**

- USE nilsson-mottelson model

**bohr-mottelson model**

- USE nilsson-mottelson model

**bohr-sommerfeld quantum theory**

- USE bohr theory

**BOHR THEORY**

- UF bohr-sommerfeld quantum theory
- RT atomic models

**BOHR-WHEELER THEORY**

- RT fission
- RT nuclear models

**BOHRUM**

2004-03-19

(Prior to March 2004 ELEMENT 107 was used for this element.)

- UF eka-rhenium
- UF element 107
- UF unnilseptium
- \*BT1 transactinide elements

**BOHRUM 261**

2004-03-19

(Prior to March 2004 ELEMENT 107 261 was used for this concept.)

- UF element 107 261
- \*BT1 alpha decay radioisotopes
- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes

**BOHRUM 262**

2004-03-19

(Prior to March 2004 ELEMENT 107 262 was used for this concept.)

- UF element 107 262
- \*BT1 alpha decay radioisotopes
- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**BOHRUM 264**

2004-03-19

(Prior to March 2004 ELEMENT 107 264 was used for this concept.)

- UF element 107 264
- \*BT1 alpha decay radioisotopes
- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**BOHRUM 265**

2006-06-12

- \*BT1 alpha decay radioisotopes
- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**BOHRUM 271**

2006-09-25

- \*BT1 alpha decay radioisotopes
- \*BT1 bohrium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**BOHRUM COMPOUNDS**

2004-03-19

(Prior to March 2004 ELEMENT 107 COMPOUNDS was used for this concept.)

- UF element 107 compounds
- \*BT1 transactinide compounds

**BOHRUM ISOTOPES**

2004-03-19

(Prior to March 2004 ELEMENT 107 ISOTOPES was used for this concept.)

- UF element 107 isotopes
- BT1 isotopes
- NT1 bohrium 261

- NT1 bohrium 262
- NT1 bohrium 264
- NT1 bohrium 265
- NT1 bohrium 271

**BOHUNICE A-1 REACTOR**

Trnava, Slovakia.

- UF a-1 reactor (bohunice)
- UF heavy water gas cooled reactor of slovakia
- UF ks-150 reactor
- \*BT1 carbon dioxide cooled reactors
- \*BT1 hwgr type reactors
- \*BT1 natural uranium reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**BOHUNICE A-2 REACTOR**

Trnava, Slovakia.

- UF a-2 reactor (bohunice)
- \*BT1 hwgr type reactors
- \*BT1 natural uranium reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**bohunice plant**

2004-12-15

- USE bohunice radioactive waste processing center

**BOHUNICE RADIOACTIVE WASTE PROCESSING CENTER**

2004-12-15

- UF bohunice plant
- UF bsc rao
- \*BT1 radioactive waste facilities
- RT intermediate-level radioactive wastes
- RT low-level radioactive wastes
- RT manivier canal
- RT slovakia

**BOHUNICE V-1 REACTOR**

Trnava, Slovakia.

- UF v-1 reactor (bohunice)
- \*BT1 wwer type reactors

**BOHUNICE V-2 REACTOR**

INIS: 1979-05-28; ETDE: 1979-09-06

Trnava, Slovakia.

- UF v-2 reactor (bohunice)
- \*BT1 wwer type reactors

**BOILER FUELS**

INIS: 1993-02-15; ETDE: 1981-01-30

(From May 1975 to January 1981 BOILER FUEL was a valid ETDE descriptor.)

- BT1 fuels
- RT boilers
- RT fossil-fuel power plants
- RT steam generators

**BOILERS**

- NT1 fluidized bed boilers
- NT1 refuse-fueled boilers
- NT1 vapor generators
- NT2 steam generators
- NT1 waste heat boilers
- RT boiler fuels
- RT boiling
- RT central receivers
- RT combustion control
- RT deaerators
- RT district heating
- RT feedwater
- RT heat production
- RT heat transfer
- RT reactor cooling systems
- RT stokers

**BOILING**

- BT1 phase transformations
- NT1 film boiling

- NT1 nucleate boiling  
 NT2 departure nucleate boiling  
 NT1 pool boiling  
 NT1 subcooled boiling  
 NT1 transition boiling  
 RT boilers  
 RT boiling detection  
 RT bubble growth  
 RT evaporation  
 RT heat transfer  
 RT heating  
 RT steam generators  
 RT two-phase flow

**BOILING DETECTION**

- BT1 detection  
 RT boiling  
 RT bubble growth  
 RT bubbles  
 RT foams  
 RT reactor control systems  
 RT reactor safety  
 RT voids

**boiling heavy water cooled and moderated reactor**

- 1993-11-04  
 USE bhw type reactors

**boiling nuclear superheater reactor**

- 1993-11-04  
 USE bonus reactor

**BOILING POINTS**

- \*BT1 transition temperature  
 RT azeotrope

**boiling reactor experiment 1**

- USE borax-1 reactor

**boiling reactor experiment 2**

- USE borax-2 reactor

**boiling reactor experiment 3**

- USE borax-3 reactor

**boiling reactor experiment 4**

- USE borax-4 reactor

**boiling reactor experiment 5**

- 2000-04-12  
 USE borax-5 reactor

**boiling water cooled and moderated reactor**

- USE bwr type reactors

**BOLIVIA**

- BT1 developing countries  
 \*BT1 south america  
 NT1 chacaltaya  
 RT andes

**BOLL WEEVIL**

- UF *anthonomus grandis*  
 \*BT1 beetles  
 RT cotton plants

**BOLLWORM**

- UF *helioliths*  
 \*BT1 moths  
 RT cotton plants

**BOLOMETERS**

- BT1 measuring instruments  
 RT temperature measurement  
 RT thermometers

**BOLSA CHICA-1 REACTOR**

- 2000-04-12  
 USA.  
 \*BT1 bwr type reactors

**BOLSA CHICA-2 REACTOR**

- 2000-04-12  
 USA.  
 \*BT1 bwr type reactors

**BOLTED JOINTS**

- BT1 joints

**bolting**

- USE fastening

**bolts**

- ETDE: 2002-06-13  
 USE fasteners

**boltwoodite**

- 1997-01-28  
 (Until October 1996 this was a valid descriptor.)  
 USE silicate minerals  
 USE uranium minerals

**boltzmann approximation**

- USE boltzmann statistics

**boltzmann collision integral**

- USE boltzmann equation

**BOLTZMANN EQUATION**

- 1996-07-18  
 UF boltzmann collision integral  
 UF boltzmann transport equation  
 UF born-green-yvon equation  
 UF maxwell-boltzmann equation  
 \*BT1 integro-differential equations  
 \*BT1 kinetic equations  
 \*BT1 partial differential equations  
 RT collision integrals  
 RT collision probability method  
 RT gases  
 RT p1-approximation  
 RT p2-approximation  
 RT p3-approximation  
 RT statistical mechanics  
 RT transport theory

**boltzmann event**

- INIS: 2000-04-12; ETDE: 1983-11-23  
 USE atmospheric explosions  
 USE plumbbob project

**boltzmann factor**

- USE boltzmann statistics

**BOLTZMANN STATISTICS**

- UF boltzmann approximation  
 UF boltzmann factor  
 UF maxwell-boltzmann distribution  
 UF maxwell-boltzmann statistics  
 UF maxwell distribution  
 UF maxwell statistics  
 UF maxwell velocity distribution  
 RT distribution  
 RT h theorem  
 RT statistical mechanics

**boltzmann transport equation**

- USE boltzmann equation

**BOLTZMANN-VLASOV EQUATION**

- 1995-09-06  
 UF collisionless boltzmann equation  
 UF liouville equation  
 UF vlasov equation  
 UF vlasov instability  
 UF vlasov-maxwell equations  
 SF maxwell-boltzmann system  
 \*BT1 partial differential equations  
 NT1 plasma fluid equations  
 RT plasma  
 RT quasilinear problems  
 RT transport theory

**bom-erda process**

- INIS: 2000-04-12; ETDE: 1978-04-27  
 This wet oxidative process employs air in place of oxygen and operates at higher temperature and pressure than the Ledgemont process. Ferric and ferrous sulfates and sulfuric acid are generated.  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

**bom refining districts**

- INIS: 2000-04-12; ETDE: 1979-12-10  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE petroleum refineries

**BOMB REDUCTION**

- \*BT1 reduction

**BOMBES**

- INIS: 2000-04-12; ETDE: 1984-09-05  
 Explosive devices fused to detonate under specified conditions.  
 BT1 weapons

**bombyx**

- USE silkworm

**BOND ANGLE**

- UF angle (bond)  
 RT binding energy  
 RT chemical bonds

**BOND LENGTHS**

- 1999-07-20  
 \*BT1 length  
 RT binding energy  
 RT chemical bonds  
 RT molecular structure

**BONDING**

- For joining metals and other materials. For nuclear or chemical bonding, see also BINDING ENERGY.  
 UF fusion (bonding, nonmetallic)  
 \*BT1 joining  
 RT adhesion  
 RT cementing  
 RT coalescence  
 RT grouting  
 RT joints

**BONDUR**

- 2000-04-12  
 \*BT1 aluminium base alloys  
 \*BT1 copper alloys  
 \*BT1 magnesium additions  
 \*BT1 manganese additions  
 \*BT1 silicon additions

**BONE CELLS**

- UF osteocytes  
 \*BT1 connective tissue cells  
 RT bone marrow  
 RT bone marrow cells  
 RT bone tissues

**bone diseases**

- USE skeletal diseases

**BONE FRACTURES**

- UF fractures (bone)  
 \*BT1 injuries  
 RT skeletal diseases

**BONE JOINTS**

- UF joints (anatomy)  
 UF synovia  
 \*BT1 skeleton  
 RT cartilage  
 RT rheumatic diseases

RT skeletal diseases

## BONE MARROW

\*BT1 animal tissues  
 \*BT1 hematopoietic system  
 \*BT1 organs  
 RT blood  
 RT blood cells  
 RT blood formation  
 RT bone cells  
 RT bone marrow cells  
 RT bone tissues  
 RT leukemia  
 RT plasma cells  
 RT polycythemia  
 RT radiation syndrome  
 RT reticuloendothelial system  
 RT stem cells  
 RT trabecular bone

## BONE MARROW CELLS

UF erythroblasts  
 UF megakaryocytes  
 \*BT1 connective tissue cells  
 RT biological indicators  
 RT blood formation  
 RT bone cells  
 RT bone marrow

## BONE SEEKERS

\*BT1 radioisotopes  
 RT biological hot spots  
 RT biological localization  
 RT bone tissues  
 RT calcium isotopes  
 RT radionuclide kinetics  
 RT radium isotopes  
 RT strontium isotopes

## BONE TISSUES

UF endosteum  
 UF epiphysis (bones)  
 UF periosteum  
 \*BT1 connective tissue  
 NT1 antlers  
 NT1 trabecular bone  
 RT bone cells  
 RT bone marrow  
 RT bone seekers  
 RT calcium  
 RT dentin  
 RT hyperparathyroidism  
 RT osteodensitometry  
 RT osteomyelitis  
 RT osteoporosis  
 RT osteoradionecrosis  
 RT osteosarcomas  
 RT parathormone  
 RT rheumatic diseases  
 RT rickets  
 RT skeletal diseases  
 RT skeleton  
 RT teeth

## bones

USE skeleton

## BONN SYNCHROTRON

\*BT1 synchrotrons

## BONNER SPHERE DETECTORS

UF multisphere neutron detectors  
 \*BT1 moderating detectors

## BONNER SPHERE

### SPECTROMETERS

\*BT1 neutron spectrometers

## BONNEVILLE POWER

### ADMINISTRATION

INIS: 1991-08-09; ETDE: 1977-03-04  
 UF bpa

\*BT1 us doe  
 RT electric power

## BONUS REACTOR

UF boiling nuclear superheater reactor  
 UF bwr superheater puerto rico reactor  
 UF puerto rico bonus reactor  
 \*BT1 bwr type reactors

## bookkeeping

USE accounting

## BOOM CLAY

2003-08-27  
 UF boom clay formation  
 \*BT1 clays  
 RT geologic formations  
 RT hades underground research facility  
 RT marine disposal  
 RT radioactive waste disposal  
 RT underground disposal

## boom clay formation

2003-08-27  
 Silty-clay formation, studied as possible site for radioactive waste disposal.  
 USE boom clay  
 USE geologic formations

## BOOM TOWNS

INIS: 2000-04-12; ETDE: 1978-02-14  
 RT human populations  
 RT rural areas  
 RT social services  
 RT urban areas

## boosters (particle)

USE particle boosters

## BOOTSTRAP CURRENT

INIS: 1989-04-20; ETDE: 1989-05-11  
 \*BT1 electric currents  
 RT neoclassical transport theory  
 RT non-inductive current drive  
 RT plasma

## BOOTSTRAP MODEL

\*BT1 composite models  
 RT coupling

## bop

INIS: 2000-04-12; ETDE: 1976-05-17  
 USE blowout preventers

## BOPSSAR STANDARD PLANT

INIS: 1977-10-17; ETDE: 1976-03-11  
 \*BT1 nuclear power plants  
 RT westinghouse standard reactor

## BOR-60 REACTOR

Dimitrovgrad, Russian Federation.  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 lmfr type reactors  
 \*BT1 power reactors  
 \*BT1 sodium cooled reactors

## BORANES

1996-08-05  
 UF diborane  
 BT1 boron compounds  
 \*BT1 hydrides  
 RT carboranes

## BORATES

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor with the exception of the one NT below.  
 BT1 boron compounds  
 BT1 oxygen compounds  
 NT1 borax

RT boric acid  
 RT boron oxides

## BORAX

\*BT1 borates  
 \*BT1 sodium compounds

## BORAX-1 REACTOR

ANL/INEEL, Idaho Falls, Idaho, USA. Shut down in 1954.  
 UF boiling reactor experiment 1  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

## BORAX-2 REACTOR

ANL/INEEL, Idaho Falls, Idaho, USA. Shut down in 1955.  
 UF boiling reactor experiment 2  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

## BORAX-3 REACTOR

ANL/INEEL, Idaho Falls, Idaho, USA. Shut down in 1956.  
 UF boiling reactor experiment 3  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 power reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

## BORAX-4 REACTOR

ANL/INEEL, Idaho Falls, Idaho, USA. Shut down in 1958.  
 UF boiling reactor experiment 4  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 power reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 thorium reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

## BORAX-5 REACTOR

2000-04-12  
 ANL/INEEL, Idaho Falls, Idaho, USA. Shut down in 1964.  
 UF boiling reactor experiment 5  
 \*BT1 enriched uranium reactors  
 \*BT1 power reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

## bordertown nj newbold island-1 reactor

ETDE: 2002-06-16  
 USE newbold island-1 reactor

## bordertown nj newbold island-2 reactor

ETDE: 2002-06-16  
 USE newbold island-2 reactor

## BORDONI PEAK

RT dislocations  
 RT internal friction

**BOREAL REGIONS**

INIS: 1992-05-28; ETDE: 1987-02-13

Those regions comprising the climate and biotic communities between the polar regions and the temperate zones.

- RT climates
- RT cryosphere
- RT polar regions
- RT temperate zones

**BOREHOLE LINKING**

INIS: 2000-04-12; ETDE: 1976-11-29

Creation of channels or fissures between boreholes in ore deposits to facilitate movement of gases or liquids.

- UF linking (borehole)
- NT1 electrolinking
- RT propping agents

**BOREHOLES**

- UF drill holes
- BT1 cavities
- RT borescopes
- RT earthmoving equipment
- RT electrolinking
- RT exploratory wells
- RT formation damage
- RT openings
- RT rock drilling
- RT stemming materials
- RT subterrene penetrators
- RT well logging
- RT wells

**BORESCOPES**

INIS: 1975-11-11; ETDE: 1975-12-16

A device, usually optical, for examining the inside surface of tubes, pipes, or bores.

- RT boreholes
- RT pipes
- RT pressure tubes
- RT telescopes
- RT tubes
- RT well logging

**BORIC ACID**

- BT1 boron compounds
- \*BT1 inorganic acids
- BT1 oxygen compounds
- RT borates

**BORIDES**

1996-11-13

- UF bismuth borides
- UF cadmium borides
- UF neptunium borides
- UF strontium borides
- UF tin borides
- BT1 boron compounds
- NT1 aluminium borides
- NT1 barium borides
- NT1 beryllium borides
- NT1 calcium borides
- NT1 cerium borides
- NT1 chromium borides
- NT1 cobalt borides
- NT1 copper borides
- NT1 dysprosium borides
- NT1 erbium borides
- NT1 europium borides
- NT1 gadolinium borides
- NT1 germanium borides
- NT1 hafnium borides
- NT1 holmium borides
- NT1 indium borides
- NT1 iridium borides
- NT1 iron borides
- NT1 lanthanum borides
- NT1 lithium borides
- NT1 lutetium borides

- NT1 magnesium borides
- NT1 manganese borides
- NT1 molybdenum borides
- NT1 neodymium borides
- NT1 nickel borides
- NT1 niobium borides
- NT1 osmium borides
- NT1 palladium borides
- NT1 plutonium borides
- NT1 potassium borides
- NT1 praseodymium borides
- NT1 rhenium borides
- NT1 rhodium borides
- NT1 ruthenium borides
- NT1 samarium borides
- NT1 scandium borides
- NT1 silicon borides
- NT1 sodium borides
- NT1 tantalum borides
- NT1 terbium borides
- NT1 thorium borides
- NT1 thulium borides
- NT1 titanium borides
- NT1 tungsten borides
- NT1 uranium borides
- NT1 vanadium borides
- NT1 ytterbium borides
- NT1 yttrium borides
- NT1 zinc borides
- NT1 zirconium borides
- RT ceramics
- RT intermetallic compounds

**BORN APPROXIMATION**

- UF born cross sections
- UF plane-wave born approximation
- UF pwba
- \*BT1 approximations
- NT1 coupled channel born approximation
- NT1 dwba
- RT perturbation theory
- RT quantum mechanics
- RT scattering

**born-bogolyubov-green-kirkwood-yvon**

1993-11-04

USE bbgky equation

**born cross sections**

USE born approximation

**born-green-yvon equation**

ETDE: 2002-06-13

USE boltzmann equation

**BORN-INFELD THEORY**

- RT electrodynamics
- RT maxwell equations

**BORN-MAYER EQUATION**

BT1 equations

**BORN-OPPENHEIMER APPROXIMATION**

- \*BT1 approximations
- RT adiabatic approximation
- RT scattering

**BORN-VON KARMAN THEORY**

RT specific heat

**BOROHYDRIDES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

- BT1 boron compounds
- BT1 hydrogen compounds
- NT1 uranium borohydrides

**BORON**

\*BT1 semimetals

**BORON 10**

- \*BT1 boron isotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei
- \*BT1 stable isotopes
- RT boron 10 beams
- RT boron 10 reactions

**BORON 10 BEAMS**

- \*BT1 ion beams
- RT boron 10

**BORON 10 REACTIONS**

- \*BT1 heavy ion reactions
- RT boron 10

**BORON 10 TARGET**

ETDE: 1976-07-09

BT1 targets

**BORON 11**

- \*BT1 boron isotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes
- RT boron 11 beams
- RT boron 11 reactions

**BORON 11 BEAMS**

- \*BT1 ion beams
- RT boron 11

**BORON 11 REACTIONS**

- \*BT1 heavy ion reactions
- RT boron 11

**BORON 11 TARGET**

ETDE: 1976-07-09

BT1 targets

**BORON 12**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 boron isotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**BORON 12 TARGET**

ETDE: 1976-07-09

BT1 targets

**BORON 13**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 boron isotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**BORON 13 TARGET**

INIS: 1975-12-19; ETDE: 1976-07-12

BT1 targets

**BORON 14**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 boron isotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**BORON 15**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 boron isotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**BORON 16**

1992-09-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 boron isotopes
- \*BT1 light nuclei

\*BT1 odd-odd nuclei

### BORON 17

\*BT1 beta-minus decay radioisotopes  
\*BT1 boron isotopes  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei

### BORON 18

*INIS: 1985-07-22; ETDE: 1985-02-07*

\*BT1 boron isotopes  
\*BT1 light nuclei  
\*BT1 odd-odd nuclei

### BORON 19

\*BT1 beta-minus decay radioisotopes  
\*BT1 boron isotopes  
\*BT1 light nuclei  
\*BT1 odd-even nuclei

### BORON 7

\*BT1 boron isotopes  
\*BT1 light nuclei  
\*BT1 odd-even nuclei

### BORON 8

\*BT1 beta-plus decay radioisotopes  
\*BT1 boron isotopes  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

### BORON 8 REACTIONS

*1995-05-03*

\*BT1 heavy ion reactions

### BORON 8 TARGET

*INIS: 1992-09-22; ETDE: 1981-11-10*

BT1 targets

### BORON 9

\*BT1 alpha decay radioisotopes  
\*BT1 boron isotopes  
\*BT1 light nuclei  
\*BT1 odd-even nuclei

### BORON ADDITIONS

*1996-11-13*

*Alloys containing not more than 1% B are listed here.*

\*BT1 boron alloys  
NT1 alloy-in-102  
NT1 alloy-mo99b  
NT1 alloy-ni43fe33cr16mo3  
NT2 nimonic pe16  
NT1 alloy-ni46cr23co19ti5al4  
NT2 alloy-in-939  
NT1 alloy-ni53co19cr15mo5al4ti3  
NT2 udimet 700  
NT1 alloy-ni55co17cr15mo5al4ti4  
NT2 astroloy  
NT1 alloy-ni55cr19co11mo10ti3  
NT2 rene 41  
NT1 alloy-ni58cr20co14mo4ti3  
NT2 waspaloy  
NT1 alloy-ni59cr20co17ti2  
NT1 alloy-ni60co15cr10al6ti5mo3  
NT2 alloy-in-100  
NT1 alloy-ni61cr16co9al3ti3w3  
NT2 alloy-in-738  
NT1 alloy-ni62cr16mo15fe3  
NT2 hastelloy s  
NT1 alloy-ni74cr13al6mo4  
NT2 inconel 713c  
NT1 alloy-ni75cr12al6mo5  
NT2 inconel 713lc  
NT1 alloy-ni76cr20ti2  
NT2 nimonic 80a  
NT1 alloy-ni77cr20ti2  
NT1 incoloy 901  
NT1 rene 80

NT1 steel-cr15ni15motib  
NT1 steel-ni26cr15ti2movalb  
NT2 alloy-a-286

### BORON ALLOYS

*Alloys containing more than 1% B.*

BT1 alloys  
NT1 boron additions  
NT2 alloy-in-102  
NT2 alloy-mo99b  
NT2 alloy-ni43fe33cr16mo3  
NT3 nimonic pe16  
NT2 alloy-ni46cr23co19ti5al4  
NT3 alloy-in-939  
NT2 alloy-ni53co19cr15mo5al4ti3  
NT3 udimet 700  
NT2 alloy-ni55co17cr15mo5al4ti4  
NT3 astroloy  
NT2 alloy-ni55cr19co11mo10ti3  
NT3 rene 41  
NT2 alloy-ni58cr20co14mo4ti3  
NT3 waspaloy  
NT2 alloy-ni59cr20co17ti2  
NT2 alloy-ni60co15cr10al6ti5mo3  
NT3 alloy-in-100  
NT2 alloy-ni61cr16co9al3ti3w3  
NT3 alloy-in-738  
NT2 alloy-ni62cr16mo15fe3  
NT3 hastelloy s  
NT2 alloy-ni74cr13al6mo4  
NT3 inconel 713c  
NT2 alloy-ni75cr12al6mo5  
NT3 inconel 713lc  
NT2 alloy-ni76cr20ti2  
NT3 nimonic 80a  
NT2 alloy-ni77cr20ti2  
NT2 incoloy 901  
NT2 rene 80  
NT2 steel-cr15ni15motib  
NT2 steel-ni26cr15ti2movalb  
NT3 alloy-a-286  
NT1 colmonoy

### BORON ARSENIDES

*INIS: 1989-04-20; ETDE: 1976-12-15*

\*BT1 arsenides  
BT1 boron compounds

### BORON BROMIDES

BT1 boron compounds  
\*BT1 bromides

### BORON CARBIDES

BT1 boron compounds  
\*BT1 carbides

### BORON CHLORIDES

BT1 boron compounds  
\*BT1 chlorides

### BORON COATED ION CHAMBERS

\*BT1 ionization chambers  
\*BT1 neutron detectors

### BORON COMPLEXES

BT1 complexes

### BORON COMPOUNDS

*1996-08-05*

NT1 boranes  
NT1 borates  
NT2 borax  
NT1 boric acid  
NT1 borides  
NT2 aluminium borides  
NT2 barium borides  
NT2 beryllium borides  
NT2 calcium borides  
NT2 cerium borides  
NT2 chromium borides  
NT2 cobalt borides  
NT2 copper borides

NT2 dysprosium borides  
NT2 erbium borides  
NT2 europium borides  
NT2 gadolinium borides  
NT2 germanium borides  
NT2 hafnium borides  
NT2 holmium borides  
NT2 indium borides  
NT2 iridium borides  
NT2 iron borides  
NT2 lanthanum borides  
NT2 lithium borides  
NT2 lutetium borides  
NT2 magnesium borides  
NT2 manganese borides  
NT2 molybdenum borides  
NT2 neodymium borides  
NT2 nickel borides  
NT2 niobium borides  
NT2 osmium borides  
NT2 palladium borides  
NT2 plutonium borides  
NT2 potassium borides  
NT2 praseodymium borides  
NT2 rhenium borides  
NT2 rhodium borides  
NT2 ruthenium borides  
NT2 samarium borides  
NT2 scandium borides  
NT2 silicon borides  
NT2 sodium borides  
NT2 tantalum borides  
NT2 terbium borides  
NT2 thorium borides  
NT2 thulium borides  
NT2 titanium borides  
NT2 tungsten borides  
NT2 uranium borides  
NT2 vanadium borides  
NT2 ytterbium borides  
NT2 yttrium borides  
NT2 zinc borides  
NT2 zirconium borides

NT1 borohydrides  
NT2 uranium borohydrides

NT1 boron arsenides  
NT1 boron bromides  
NT1 boron carbides  
NT1 boron chlorides  
NT1 boron fluorides  
NT1 boron hydrides  
NT1 boron hydroxides  
NT1 boron iodides  
NT1 boron nitrides  
NT1 boron oxides  
NT1 boron phosphates  
NT1 boron phosphides  
NT1 boron silicates  
NT1 boron silicides  
NT1 boron sulfides  
NT1 boronic acids  
NT1 fluoroborates  
NT1 fluoroboric acid  
RT organic boron compounds

### BORON FLUORIDES

BT1 boron compounds  
\*BT1 fluorides  
RT fluoroborates

### BORON HYDRIDES

*1996-08-05*

(Until July 1996 this concept was indexed to BORANES.)

BT1 boron compounds  
\*BT1 hydrides

### BORON HYDROXIDES

BT1 boron compounds  
\*BT1 hydroxides

**boron injection**

1995-05-02

USE safety injection

**BORON IODIDES**BT1 boron compounds  
\*BT1 iodides**BORON IONS**

\*BT1 ions

**BORON ISOTOPES**

1999-07-16

BT1 isotopes  
NT1 boron 10  
NT1 boron 11  
NT1 boron 12  
NT1 boron 13  
NT1 boron 14  
NT1 boron 15  
NT1 boron 16  
NT1 boron 17  
NT1 boron 18  
NT1 boron 19  
NT1 boron 7  
NT1 boron 8  
NT1 boron 9**BORON LINED COUNTERS**\*BT1 neutron detectors  
\*BT1 proportional counters**BORON NITRIDES**BT1 boron compounds  
\*BT1 nitrides**BORON OXIDES**BT1 boron compounds  
\*BT1 oxides  
RT borates**BORON PHOSPHATES**BT1 boron compounds  
\*BT1 phosphates  
RT borophosphate glass**BORON PHOSPHIDES**

INIS: 1978-07-03; ETDE: 1976-03-11

BT1 boron compounds  
\*BT1 phosphides**BORON SILICATES**BT1 boron compounds  
\*BT1 silicates  
RT borosilicate glass  
RT silicate minerals  
RT tourmaline**BORON SILICIDES**

INIS: 1985-09-06; ETDE: 1981-03-16

BT1 boron compounds  
\*BT1 silicides**BORON SULFIDES**BT1 boron compounds  
\*BT1 sulfides**BORONIC ACIDS**BT1 boron compounds  
\*BT1 organic acids**BOROPHOSPHATE GLASS**

INIS: 2000-04-04; ETDE: 1980-10-07

Low expansion heat resistant glass.

UF borophosphates  
BT1 glass  
RT boron phosphates  
RT borosilicate glass  
RT phosphate glass**borophosphates**

INIS: 1981-02-27; ETDE: 1980-10-07

USE borophosphate glass

**BOROSILICATE GLASS**

INIS: 1980-11-07; ETDE: 1980-07-09

Low expansion heat resistant glass.

UF borosilicates  
BT1 glass  
NT1 pyrex  
RT boron silicates  
RT borophosphate glass**borosilicates**

INIS: 1980-11-07; ETDE: 1980-07-23

(Prior to July 1980 this was a valid term and older information is so indexed.)

USE borosilicate glass

**BORSSELE REACTOR**

Borssele, Zeeland, Netherlands.

UF kcb reactor  
UF kernenergiecentrale borssele reactor  
\*BT1 pwr type reactors**BOSCH PROCESS**

2000-04-12

Catalytic process for hydrogen production from carbon monoxide and steam.

BT1 chemical reactions  
RT carbon monoxide  
RT hydrogen production  
RT steam**BOSE-EINSTEIN CONDENSATION**RT pion condensation  
RT superfluidity**BOSE-EINSTEIN GAS**RT bose-einstein statistics  
RT bosons  
RT fermi gas**BOSE-EINSTEIN STATISTICS**RT bose-einstein gas  
RT bosons  
RT cooper pairs  
RT fermi statistics  
RT parastatistics  
RT statistical mechanics**BOSNIA AND HERZEGOVINA**

INIS: 1997-11-11; ETDE: 2000-10-12

SF yugoslavia

\*BT1 eastern europe

**BOSON-EXCHANGE MODELS**UF meson exchange  
\*BT1 peripheral models  
NT1 obe model  
NT2 ope model  
NT3 electric born model  
NT1 sigma model  
RT deep inelastic scattering**BOSON EXPANSION**

INIS: 1986-01-21; ETDE: 1984-11-08

UF bosonization  
RT boson-fermion symmetry  
RT collective model  
RT dyson representation  
RT generator-coordinate method  
RT hartree-fock-bogolyubov theory  
RT interacting boson model  
RT quantum mechanics  
RT quantum operators  
RT random phase approximation  
RT series expansion  
RT tamm-dancoff method**BOSON-FERMION SYMMETRY**

1984-12-04

Symmetry of a system containing a conserved number of bosons as well as fermions in which bosons and fermions share a common symmetry.

UF dynamical boson-fermion symmetry  
UF fermion-boson symmetry  
UF spinor symmetry  
BT1 symmetry  
RT boson expansion  
RT bosons  
RT dynamical groups  
RT fermions  
RT interacting boson model**bosonization**

INIS: 2000-04-12; ETDE: 1984-11-08

USE boson expansion

**BOSONS**NT1 gluons  
NT1 goldstone bosons  
NT2 axions  
NT1 higgs bosons  
NT1 intermediate bosons  
NT2 intermediate vector bosons  
NT3 w minus bosons  
NT3 w plus bosons  
NT3 z neutral bosons  
NT1 mesons  
NT2 antimesons  
NT3 pseudoscalar antimesons  
NT4 anti-b neutral mesons  
NT4 anti-d neutral mesons  
NT2 axial vector mesons  
NT3 a1-1260 mesons  
NT3 b1-1235 mesons  
NT3 chi b1-9890 mesons  
NT3 chi1-3510 mesons  
NT3 d s-2536 mesons  
NT3 d1-2420 mesons  
NT3 f1-1285 mesons  
NT3 f1-1420 mesons  
NT3 f1-1510 mesons  
NT3 h1-1170 mesons  
NT3 k1-1270 mesons  
NT3 k1-1400 mesons  
NT2 baryonium  
NT2 beauty mesons  
NT3 b c mesons  
NT3 b mesons  
NT4 b minus mesons  
NT4 b neutral mesons  
NT5 anti-b neutral mesons  
NT4 b plus mesons  
NT3 b s mesons  
NT3 b\*-5325 mesons  
NT2 bottomonium  
NT3 chi b0-10235 mesons  
NT3 chi b0-9860 mesons  
NT3 chi b1-10255 mesons  
NT3 chi b1-9890 mesons  
NT3 chi b2-10270 mesons  
NT3 chi b2-9915 mesons  
NT3 upsilon-10023 mesons  
NT3 upsilon-10355 mesons  
NT3 upsilon-10580 mesons  
NT3 upsilon-10860 mesons  
NT3 upsilon-11020 mesons  
NT3 upsilon-9460 mesons  
NT2 charmed mesons  
NT3 b c mesons  
NT3 d mesons  
NT4 d minus mesons  
NT4 d neutral mesons  
NT5 anti-d neutral mesons  
NT4 d plus mesons  
NT3 d s-2536 mesons

- NT3** d s mesons  
**NT3** d\*-2010 mesons  
**NT3** d\*2-2460 mesons  
**NT3** d\*s-2110 mesons  
**NT3** d1-2420 mesons  
**NT2** charmonium  
**NT3** chi0-3415 mesons  
**NT3** chi1-3510 mesons  
**NT3** chi2-3555 mesons  
**NT3** eta c-2980 mesons  
**NT3** eta c-3590 mesons  
**NT3** j psi-3097 mesons  
**NT3** psi-3685 mesons  
**NT3** psi-3770 mesons  
**NT3** psi-4040 mesons  
**NT3** psi-4160 mesons  
**NT3** psi-4415 mesons  
**NT2** pseudoscalar mesons  
**NT3** b c mesons  
**NT3** b mesons  
**NT4** b minus mesons  
**NT4** b neutral mesons  
**NT5** anti-b neutral mesons  
**NT4** b plus mesons  
**NT3** b s mesons  
**NT3** d mesons  
**NT4** d minus mesons  
**NT4** d neutral mesons  
**NT5** anti-d neutral mesons  
**NT4** d plus mesons  
**NT3** d s mesons  
**NT3** eta-1295 mesons  
**NT3** eta-1440 mesons  
**NT3** eta c-2980 mesons  
**NT3** eta mesons  
**NT3** eta prime-958 mesons  
**NT3** k-1460 mesons  
**NT3** k-1830 mesons  
**NT3** kaons  
**NT4** antikaons  
**NT5** antikaons neutral  
**NT4** cosmic kaons  
**NT4** kaons minus  
**NT4** kaons neutral  
**NT5** antikaons neutral  
**NT5** kaons neutral long-lived  
**NT5** kaons neutral short-lived  
**NT4** kaons plus  
**NT3** pi-1300 mesons  
**NT3** pi-1770 mesons  
**NT3** pions  
**NT4** cosmic pions  
**NT4** pions minus  
**NT4** pions neutral  
**NT4** pions plus  
**NT3** pseudoscalar antimesons  
**NT4** anti-b neutral mesons  
**NT4** anti-d neutral mesons  
**NT2** scalar mesons  
**NT3** a0-980 mesons  
**NT3** chi0-3415 mesons  
**NT3** f0-1240 mesons  
**NT3** f0-1300 mesons  
**NT3** f0-1590 mesons  
**NT3** f0-1730 mesons  
**NT3** f0-980 mesons  
**NT3** k\*0-1430 mesons  
**NT2** strange mesons  
**NT3** b s mesons  
**NT3** d s-2536 mesons  
**NT3** d s mesons  
**NT3** d\*s-2110 mesons  
**NT3** k-1460 mesons  
**NT3** k-1830 mesons  
**NT3** k\*-1410 mesons  
**NT3** k\*-1680 mesons  
**NT3** k\*-892 mesons  
**NT3** k\*0-1430 mesons  
**NT3** k\*2-1430 mesons  
**NT3** k\*3-1780 mesons  
**NT3** k\*4-2045 mesons  
**NT3** k1-1270 mesons  
**NT3** k1-1400 mesons  
**NT3** k2-1770 mesons  
**NT3** k2-1820 mesons  
**NT3** kaons  
**NT4** antikaons  
**NT5** antikaons neutral  
**NT4** cosmic kaons  
**NT4** kaons minus  
**NT4** kaons neutral  
**NT5** antikaons neutral  
**NT5** kaons neutral long-lived  
**NT5** kaons neutral short-lived  
**NT4** kaons plus  
**NT2** strangeonium  
**NT3** f2 prime-1525 mesons  
**NT3** phi-1020 mesons  
**NT3** phi-1680 mesons  
**NT3** phi3-1850 mesons  
**NT2** tensor mesons  
**NT3** a2-1320 mesons  
**NT3** a4-2040 mesons  
**NT3** a6-2450 mesons  
**NT3** chi b2-9915 mesons  
**NT3** chi2-3555 mesons  
**NT3** d\*2-2460 mesons  
**NT3** f2-1270 mesons  
**NT3** f2-1430 mesons  
**NT3** f2-1720 mesons  
**NT3** f2-1810 mesons  
**NT3** f2-2010 mesons  
**NT3** f2-2300 mesons  
**NT3** f2-2340 mesons  
**NT3** f2 prime-1525 mesons  
**NT3** f4-2050 mesons  
**NT3** f4-2300 mesons  
**NT3** f6-2510 mesons  
**NT3** k\*2-1430 mesons  
**NT3** k\*3-1780 mesons  
**NT3** k\*4-2045 mesons  
**NT3** k2-1770 mesons  
**NT3** k2-1820 mesons  
**NT3** omega3-1670 mesons  
**NT3** phi3-1850 mesons  
**NT3** pi2-1670 mesons  
**NT3** pi2-2100 mesons  
**NT3** rho3-1690 mesons  
**NT3** rho3-2250 mesons  
**NT3** rho5-2350 mesons  
**NT2** toponium  
**NT2** vector mesons  
**NT3** b\*-5325 mesons  
**NT3** d\*-2010 mesons  
**NT3** j psi-3097 mesons  
**NT3** k\*-1410 mesons  
**NT3** k\*-1680 mesons  
**NT3** k\*-892 mesons  
**NT3** omega-1420 mesons  
**NT3** omega-1600 mesons  
**NT3** omega-782 mesons  
**NT3** phi-1020 mesons  
**NT3** phi-1680 mesons  
**NT3** psi-3685 mesons  
**NT3** psi-3770 mesons  
**NT3** psi-4040 mesons  
**NT3** psi-4160 mesons  
**NT3** psi-4415 mesons  
**NT3** rho-1450 mesons  
**NT3** rho-1700 mesons  
**NT3** rho-2150 mesons  
**NT3** rho-770 mesons  
**NT3** upsilon-10023 mesons  
**NT3** upsilon-10355 mesons  
**NT3** upsilon-10580 mesons  
**NT3** upsilon-10860 mesons  
**NT3** upsilon-11020 mesons  
**NT3** upsilon-9460 mesons  
**NT2** x-1700 mesons  
**NT2** x-1935 mesons  
**NT2** x-2220 mesons  
**NT2** x-3075 mesons  
**NT1** photons  
**NT2** cosmic photons  
**RT** bose-einstein gas  
**RT** bose-einstein statistics  
**RT** boson-fermion symmetry  
**RT** interacting boson model
- BOTANY**  
**BT1** biology  
**NT1** geobotany  
**RT** plants
- BOTSWANA**  
**BT1** africa  
**BT1** developing countries
- bottom baryons**  
*INIS: 1987-12-21; ETDE: 1988-03-16*  
**USE** beauty baryons
- bottom-hole pressure**  
*INIS: 2000-04-12; ETDE: 1978-08-10*  
**USE** well pressure
- bottom mesons**  
*INIS: 1987-12-21; ETDE: 1984-12-26*  
**USE** beauty mesons
- bottom particles**  
*INIS: 1985-01-17; ETDE: 1985-02-22*  
**USE** beauty particles
- bottom quark model**  
*INIS: 2000-04-12; ETDE: 1979-11-07*  
**USE** flavor model
- BOTTOMING CYCLES**  
*1996-08-05*  
 (Until July 1996 this concept was indexed to THERMODYNAMICCYCLES.)  
**BT1** thermodynamic cycles
- BOTTOMONIUM**  
*INIS: 1995-10-04; ETDE: 1988-02-01*  
*A bound state of bottom and antibottom quarks.*  
**SF** *upsilon resonances*  
**\*BT1** mesons  
**BT1** quarkonium  
**NT1** chi b0-10235 mesons  
**NT1** chi b0-9860 mesons  
**NT1** chi b1-10255 mesons  
**NT1** chi b1-9890 mesons  
**NT1** chi b2-10270 mesons  
**NT1** chi b2-9915 mesons  
**NT1** upsilon-10023 mesons  
**NT1** upsilon-10355 mesons  
**NT1** upsilon-10580 mesons  
**NT1** upsilon-10860 mesons  
**NT1** upsilon-11020 mesons  
**NT1** upsilon-9460 mesons  
**RT** b quarks  
**RT** beauty particles
- BOUND STATE**  
**RT** charmonium  
**RT** coupling  
**RT** efimov effect  
**RT** energy levels  
**RT** glueballs  
**RT** impulse approximation  
**RT** kaonium  
**RT** pi-k atoms  
**RT** pi-mu atoms  
**RT** pionium  
**RT** quarkonium  
**RT** quasibound state  
**RT** toponium



**boundaries (grain)**

USE grain boundaries

**BOUNDARY CONDITIONS**

UF asymptotic conditions  
**NT1** marshak boundary conditions  
**NT1** moving-boundary conditions  
 RT asymptotic solutions  
 RT boundary-value problems  
 RT cauchy problem  
 RT differential equations  
 RT phi4-field theory

**BOUNDARY ELEMENT METHOD**

INIS: 1992-01-22; ETDE: 1992-02-14  
 \*BT1 finite element method  
 RT computer calculations  
 RT finite difference method  
 RT mathematics  
 RT mesh generation

**BOUNDARY LAYERS**

BT1 layers  
**NT1** plasma scrape-off layer  
 RT fluid flow  
 RT nusselt number  
 RT plasma sheath  
 RT plasma surface waves  
 RT plasmopause  
 RT prandtl number  
 RT reynolds number  
 RT rosseland approximation  
 RT tropopause

**BOUNDARY-VALUE PROBLEMS**

INIS: 1985-07-22; ETDE: 1976-05-13  
 (Valid ETDE descriptor since May 1976. In INIS, prior to April 1982 this material was indexed to BOUNDARY CONDITIONS; from then till July 1985 the form BOUNDARY VALUE PROBLEMS was used.)  
**NT1** dirichlet problem  
 RT boundary conditions  
 RT cauchy problem  
 RT differential equations

**bovine**

USE cattle

**BOWING**

2003-10-21  
*Geometric changes due to temperature and/or fluence gradients.*  
 BT1 deformation  
 RT temperature dependence  
 RT thermoelasticity

**bowline operation**

INIS: 2000-04-12; ETDE: 1979-11-23  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 USE nuclear explosions  
 USE underground explosions

**BOX MODELS**

INIS: 1992-03-10; ETDE: 1987-07-31  
 BT1 mathematical models  
 RT atmospheric circulation  
 RT climate models  
 RT oceanic circulation  
 RT simulation

**boxcar event**

1994-10-13  
*A test made during OPERATION CROSSTIE.*  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE nuclear explosions  
 USE underground explosions

**bpa**

INIS: 1991-08-09; ETDE: 1977-03-16  
 USE bonneville power administration

**BPH**

UF benzoylphenylhydroxylamine  
 \*BT1 amines  
 \*BT1 hydroxy compounds  
 RT amides

**BR-02 REACTOR**

C.E.N.-S.C.K. Mol, Belgium.  
 UF belgian reactor 02  
 UF br-2 zero power mock-up reactor  
 \*BT1 beryllium moderated reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**BR-1 REACTOR**

C.E.N.-S.C.K. Mol, Belgium.  
 UF belgian reactor 1  
 \*BT1 air cooled reactors  
 \*BT1 graphite moderated reactors  
 \*BT1 natural uranium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**br-1 reactor (russian federation)**

1999-03-11  
 USE sbr-1 reactor

**BR-2 REACTOR**

UF belgian reactor 2  
 \*BT1 enriched uranium reactors  
 \*BT1 materials testing reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**br-2 reactor (russian federation)**

1999-03-11  
 USE sbr-2 reactor

**br-2 zero power mock-up reactor**

1993-11-04  
 USE br-02 reactor

**br-3/vulcain reactor**

USE br-3-vn reactor

**BR-3 REACTOR**

UF belgian reactor 3  
 \*BT1 pwr type reactors

**BR-3-VN REACTOR**

UF belgian reactor-3/vulcain  
 UF br-3/vulcain reactor  
 UF vulcain/belgian-3 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 mixed spectrum reactors  
 \*BT1 tank type reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**br-5 reactor (russian federation)**

1999-03-11  
 USE sbr-5 reactor

**BRACHYTHERAPY**

INIS: 2003-10-06; ETDE: 2003-09-30  
*Radiotherapy in which the radioactive source is close to the body area being treated, either*

*implanted, in physical contact, or located a short distance away.*

\*BT1 radiotherapy  
 RT internal irradiation  
 RT radiation source implants  
 RT radiopharmaceuticals

**brackish water ecosystems**

USE aquatic ecosystems

**BRADWELL REACTOR**

Southminster, Essex, United Kingdom.  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 magnox type reactors  
 \*BT1 thermal reactors

**BRADYKININ**

1993-08-03  
 (Until August 1993, this concept was indexed by the broader term KININS.)  
 \*BT1 kinins

**bragg angle**

USE bragg reflection

**BRAGG CURVE**

UF bragg peak  
 UF bragg zone  
 \*BT1 diagrams  
 RT energy losses  
 RT ionization  
 RT let

**bragg diffraction**

USE bragg reflection

**BRAGG GRAY CHAMBERS**

UF air wall ionization chambers  
 UF cavity ionization chambers  
 UF tissue equivalent chambers  
 \*BT1 dosimeters  
 \*BT1 ionization chambers

**bragg law**

USE bragg reflection

**bragg peak**

USE bragg curve

**BRAGG REFLECTION**

UF bragg angle  
 UF bragg diffraction  
 UF bragg law  
 UF laue-bragg scattering  
 BT1 reflection  
 RT diffuse scattering  
 RT x-ray diffraction

**bragg zone**

USE bragg curve

**BRAHMAPUTRA RIVER**

INIS: 1993-10-01; ETDE: 1993-11-08  
 \*BT1 rivers  
 RT india

**BRAIDWOOD-1 REACTOR**

Exelon Generation Co., LLC, Braidwood, Illinois, USA.  
 \*BT1 pwr type reactors

**BRAIDWOOD-2 REACTOR**

Exelon Generation Co., LLC, Braidwood, Illinois, USA.  
 \*BT1 pwr type reactors

**BRAIN**

\*BT1 central nervous system  
 \*BT1 organs  
**NT1** cerebellum  
**NT1** cerebrum  
**NT2** cerebral cortex  
**NT1** hippocampus

NT1 hypothalamus  
 NT1 olfactory bulbs  
 NT1 thalamus  
 RT cerebral arteries  
 RT electroencephalography  
 RT encephalitis  
 RT endorphins  
 RT head  
 RT mental disorders  
 RT pineal gland  
 RT skull

**BRAKES**

BT1 machine parts  
 NT1 water brakes  
 RT regenerative braking

**braking radiation**

USE bremsstrahlung

**BRANCHING RATIO**

BT1 dimensionless numbers  
 RT bethe-heitler theory  
 RT decay  
 RT ft value  
 RT mixing ratio

**BRANCHIOPODS**

INIS: 1993-07-13; ETDE: 1981-06-15

\*BT1 crustaceans  
 NT1 artemia  
 NT1 daphnia

**BRANNERITE**

\*BT1 oxide minerals  
 \*BT1 thorium minerals  
 \*BT1 uranium minerals  
 RT thorium oxides  
 RT titanium oxides  
 RT uranium oxides

**brasil-argentina agencia contabil  
 controle mater nuclear**

INIS: 1999-06-22; ETDE: 2002-06-13

USE abacc

**brasimone pec reactor**

USE pec brasimone reactor

**BRASS**

\*BT1 copper base alloys  
 \*BT1 zinc alloys  
 NT1 brass-alpha  
 NT1 brass-beta  
 RT heusler alloys  
 RT muntz metal  
 RT ounce metal

**BRASS-ALPHA**

\*BT1 brass

**BRASS-BETA**

\*BT1 brass

**BRASSICA**

UF cabbage  
 UF cauliflower  
 UF mustard  
 UF rapeseed  
 UF sarson  
 UF turnips  
 \*BT1 magnoliopsida  
 \*BT1 vegetables  
 NT1 kale  
 RT radishes

**braun standard turbine island**

INIS: 2000-04-12; ETDE: 1975-07-29  
 (Prior to February 1995, this was a valid  
 ETDE descriptor.)

SEE bwr type reactors  
 SEE steam systems

SEE turbogenerators

**braunschweig experimental reactor**

1993-11-04

USE fmrbr reactor

**braunschweig research reactor**

USE fmrbr reactor

**bravo event**

INIS: 1994-10-14; ETDE: 1984-05-23

A test made during OPERATION CASTLE.

(Prior to September 1994, this was a valid  
 ETDE descriptor.)

USE surface explosions  
 USE thermonuclear explosions

**BRAWLEY GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1982-07-27

\*BT1 california  
 BT1 geothermal fields

**BRAYTON CYCLE**

A thermodynamic cycle consisting of two  
 constant-pressure processes interspersed with  
 two constant-entropy cycles.

BT1 thermodynamic cycles  
 RT brayton cycle power systems  
 RT thermodynamics

**BRAYTON CYCLE POWER  
 SYSTEMS**

1999-01-29

(Until January 1999 this concept was indexed  
 by BRAYTON CYCLE and POWER  
 GENERATION.)

\*BT1 power systems  
 RT brayton cycle  
 RT gas turbines  
 RT solar heat engines

**BRAZED JOINTS**

BT1 joints  
 RT brazing

**BRAZIL**

UF goiania radiological emergency  
 BT1 developing countries  
 \*BT1 south america  
 RT amazon river  
 RT osamu utsumi mine

**brazil lab for synchrotron radiation**

1991-02-11

USE brazilian lnls

**brazil triga reactor**

INIS: 1984-06-21; ETDE: 2002-06-13

USE triga-brazil reactor

**BRAZILIAN CNEN**

INIS: 1982-08-27; ETDE: 1982-09-10

Comissao Nacional de Energia Nuclear de  
 Brasil.

UF cnen brazil  
 UF comissao nacional energia nuclear  
 de brazil  
 \*BT1 brazilian organizations

**BRAZILIAN LNLS**

1991-02-11

Brazilian Laboratory for Synchrotron  
 Radiation.

UF brazil lab for synchrotron radiation  
 \*BT1 brazilian organizations

**brazilian lnls synchrotron**

1991-02-11

USE lnls storage ring

**BRAZILIAN ORGANIZATIONS**

INIS: 1977-03-29; ETDE: 1977-06-03

BT1 national organizations

NT1 brazilian cnen

NT1 brazilian lnls

NT1 nuclebras

**BRAZING**

UF hard soldering  
 \*BT1 welding  
 RT brazed joints  
 RT brazing alloys  
 RT soldering

**BRAZING ALLOYS**

BT1 alloys  
 RT brazing  
 RT filler metals

**BRAZOS RIVER**

2000-04-12

\*BT1 rivers  
 RT texas

**BRAZZAVILLE**

2000-04-12

\*BT1 congo peoples republic

**BREAD**

BT1 food  
 RT flour

**BREAKDOWN**

Limited to electric discharge phenomena. See  
 also CLEAVAGE or DECOMPOSITION.

RT electric discharges  
 RT electric potential  
 RT electric sparks  
 RT electrical faults  
 RT flashover  
 RT lichtenberg figures  
 RT overvoltage  
 RT paschen law  
 RT spark gaps

**breakers (circuit)**

USE circuit breakers

**BREAKEVEN**

UF zero energy balance  
 BT1 energy balance  
 RT lawson criterion  
 RT plasma  
 RT thermonuclear reactors

**breakup fusion**

INIS: 1985-01-18; ETDE: 2002-06-13

USE incomplete fusion reactions

**BREAKUP REACTIONS**

BT1 nuclear reactions

**breakwaters**

2000-04-12

USE dams

**breasts**

USE mammary glands

**BREATH**

RT air  
 RT exhalation  
 RT inhalation  
 RT respiration  
 RT respirators  
 RT respiratory system  
 RT respiratory system diseases

**breathing**

USE respiration

**BREEDER REACTORS**

BT1 reactors  
 NT1 fbr type reactors  
 NT2 aipfr reactor  
 NT2 gcfr type reactors

**NT3** gcfr reactor  
**NT2** kalpakkam pfbr reactor  
**NT2** lmfbr type reactors  
**NT3** beloyarsk-3 reactor  
**NT3** beloyarsk-4 reactor  
**NT3** bn-1600 reactor  
**NT3** bn-350 reactor  
**NT3** bn-800 reactor  
**NT3** bor-60 reactor  
**NT3** cdfr reactor  
**NT3** clinch river breeder reactor  
**NT3** dfr reactor  
**NT3** ebr-1 reactor  
**NT3** ebr-2 reactor  
**NT3** enrico fermi-1 reactor  
**NT3** joyo reactor  
**NT3** kalpakkam lmfbr reactor  
**NT3** monju reactor  
**NT3** pfr reactor  
**NT3** phenix reactor  
**NT3** plbr reactor  
**NT3** rapsodie reactor  
**NT3** sbr-1 reactor  
**NT3** sbr-2 reactor  
**NT3** sbr-5 reactor  
**NT3** snr-2 reactor  
**NT3** snr reactor  
**NT3** super phenix reactor  
**NT2** pec brasimone reactor  
**NT2** zebra reactor  
**NT1** lwbr type reactors  
*RT* accelerator breeders  
*RT* breeding blankets  
*RT* breeding pellets  
*RT* zpr-9 reactor

**BREEDING**

*Fuel breeding only. See also ANIMAL BREEDING and PLANT BREEDING.*

**BT1** nuclear fuel conversion  
*RT* accelerator breeders  
*RT* breeding blankets  
*RT* breeding pellets  
*RT* breeding ratio  
*RT* transmutation  
*RT* tritium recovery

**BREEDING BLANKETS**

*UF* blankets (breeding)  
**BT1** reactor components  
*RT* breeder reactors  
*RT* breeding  
*RT* breeding pellets  
*RT* fertile materials  
*RT* flibe  
*RT* lotus facility  
*RT* thermonuclear devices  
*RT* tritium recovery

**BREEDING PELLETS**

*ETDE: 1976-08-24*

**BT1** pellets  
*RT* breeder reactors  
*RT* breeding  
*RT* breeding blankets  
*RT* pelletizing  
*RT* thermonuclear reactors

**BREEDING RATIO**

**\*BT1** conversion ratio  
*RT* breeding

**BREIT-WIGNER FORMULA**

*UF* single-level resonance formula  
*RT* cross sections  
*RT* multilevel analysis

**BREMSSTRAHLUNG**

*UF* braking radiation  
**\*BT1** electromagnetic radiation  
**NT1** cyclotron radiation

**NT1** internal bremsstrahlung  
**NT1** undulator radiation  
**NT1** synchrotron radiation  
*RT* bethe-heitler theory  
*RT* migdal theory  
*RT* peierls method  
*RT* penfold-leiss method  
*RT* radiation length  
*RT* tagged photon method

**bremsstrahlung (magnetic)**

*USE* synchrotron radiation

**BRICKS**

**\*BT1** building materials  
*RT* adobe

**BRIDGES**

*1991-09-25*

**BT1** mechanical structures  
*RT* roads

**bridges (electric)**

*USE* electric bridges

**BRIDGMAN METHOD**

**BT1** crystal growth methods  
*RT* crystal growth

**BRIGGS CRITERION**

*Allows distinguishing between absolute and convective plasma instabilities.*

*RT* absolute instabilities  
*RT* convective instabilities

**brigham young university laboratory reactor**

*2000-04-12*

*USE* byu 1-77 reactor

**BRIGHTNESS**

**\*BT1** optical properties  
*RT* beam emittance  
*RT* illuminance  
*RT* lighting requirements  
*RT* luminosity

**BRILLOUIN EFFECT**

*UF* brillouin scattering

**\*BT1** coherent scattering

**brillouin scattering**

*USE* brillouin effect

**BRILLOUIN THEOREM**

*2000-04-12*

*Theorem states that if two determinants constructed from exact Hartree-Fock orbitals differ in one spin orbital, the matrix element connecting these two determinants will vanish.*

*RT* energy levels  
*RT* matrix elements  
*RT* wave functions

**BRILLOUIN ZONES**

**BT1** zones  
*RT* band theory

**brine shrimp**

*INIS: 2000-04-12; ETDE: 1981-06-15*

*USE* artemia

**BRINELL HARDNESS**

*RT* hardness

**BRINES**

*Water solutions saturated or strongly impregnated with common salt.*

*RT* disposal wells  
*RT* geothermal fluids  
*RT* salinity  
*RT* salts  
*RT* seawater

*RT* solutions

**BRINKMAN-KRAMERS****APPROXIMATION**

**\*BT1** approximations  
*RT* perturbation theory  
*RT* scattering

**BRIQUETS**

*2000-04-12*

**\*BT1** solid fuels  
*RT* coal fines  
*RT* fossil fuels

**BRIQUETTING**

*INIS: 1993-03-24; ETDE: 1975-10-01*

**\*BT1** molding  
*RT* agglomeration  
*RT* caking  
*RT* compacting  
*RT* formed coke processes  
*RT* pelletizing

**british anti-lewisite**

*INIS: 2005-01-31; ETDE: 2005-02-01*

*USE* dimercaprol

**BRITISH COAL**

*INIS: 2000-04-12; ETDE: 1989-05-17*

**\*BT1** united kingdom organizations

**BRITISH COLUMBIA**

**\*BT1** canada  
*RT* blizzard deposit  
*RT* peace river

**british experimental pile operation**

*1993-11-04*

*USE* bepo reactor

**british gas corporation process**

*INIS: 2000-04-12; ETDE: 1976-01-07*

*USE* crg processes

**british guiana**

*1999-05-05*

*Now Guyana, an independent republic.*

*(Until May 1999 this was a valid descriptor.)*

*USE* guyana

**british nuclear fuels limited**

*INIS: 1980-04-02; ETDE: 1980-05-06*

*USE* bnfl

**BRITTLE-DUCTILE TRANSITIONS**

*1998-10-23*

*UF* transitions (brittle-ductile)  
*RT* brittleness  
*RT* ductility  
*RT* embrittlement

**BRITTLENESS**

**BT1** mechanical properties  
*RT* brittle-ductile transitions  
*RT* crack propagation  
*RT* ductile-brittle transitions  
*RT* embrittlement  
*RT* helium embrittlement  
*RT* hydrogen embrittlement

**broadening (line)**

*INIS: 1978-09-28; ETDE: 2002-06-13*

*USE* line broadening

**BROADLANDS GEOTHERMAL FIELD**

*2000-04-12*

**BT1** geothermal fields  
*RT* geothermal hot-water systems  
*RT* new zealand

**BROEGGERITE**

2000-04-12

\*BT1 uraninites

**BROENSTED ACIDS**

INIS: 1996-08-05; ETDE: 1983-09-15

*An acid as proton donor.*

\*BT1 inorganic acids

RT lewis acids

**BROKDORF REACTOR**

INIS: 1976-09-06; ETDE: 1976-11-01

*Wilstermarsch, Schleswig-Holstein, Federal Republic of Germany.*

UF kernkraftwerk brokdorf

\*BT1 pwr type reactors

**BROKEN-PAIR APPROXIMATION**

1978-08-14

*A method, which conserves nucleon number, developed to treat pairing correlations in nuclei. It is an approximation to the seniority shell model and takes into account the quasi-particle residual interaction.*

\*BT1 approximations

RT nuclear theory

RT shell models

**bromamines**

INIS: 1984-04-04; ETDE: 1980-12-08

(Prior to April 1994, this was a valid ETDE descriptor.)

USE amines

USE organic bromine compounds

**BROMATES***Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

\*BT1 bromine compounds

BT1 oxygen compounds

RT bromic acid

**BROMIC ACID**

\*BT1 bromine compounds

\*BT1 inorganic acids

BT1 oxygen compounds

RT bromates

**BROMIDES**

1997-06-17

UF actinium bromides

UF americium bromides

UF astatine bromides

UF berkelium bromides

UF curium bromides

UF plutonium bromides

UF promethium bromides

UF teab

UF tetraethylammonium bromide

\*BT1 bromine compounds

\*BT1 halides

NT1 aluminium bromides

NT1 antimony bromides

NT1 arsenic bromides

NT1 barium bromides

NT1 beryllium bromides

NT1 bismuth bromides

NT1 boron bromides

NT1 cadmium bromides

NT1 calcium bromides

NT1 californium bromides

NT1 cerium bromides

NT1 cesium bromides

NT1 chromium bromides

NT1 cobalt bromides

NT1 copper bromides

NT1 dysprosium bromides

NT1 einsteinium bromides

NT1 erbium bromides

NT1 europium bromides

NT1 fermium bromides

NT1 gadolinium bromides

NT1 gallium bromides

NT1 germanium bromides

NT1 gold bromides

NT1 hafnium bromides

NT1 holmium bromides

NT1 indium bromides

NT1 iodine bromides

NT1 iron bromides

NT1 krypton bromides

NT1 lanthanum bromides

NT1 lead bromides

NT1 lithium bromides

NT1 lutetium bromides

NT1 magnesium bromides

NT1 manganese bromides

NT1 mercury bromides

NT1 molybdenum bromides

NT1 neodymium bromides

NT1 neptunium bromides

NT1 nickel bromides

NT1 niobium bromides

NT1 nitrogen bromides

NT1 palladium bromides

NT1 phosphorus bromides

NT1 platinum bromides

NT1 polonium bromides

NT1 potassium bromides

NT1 praseodymium bromides

NT1 protactinium bromides

NT1 radium bromides

NT1 rhenium bromides

NT1 rhodium bromides

NT1 rubidium bromides

NT1 ruthenium bromides

NT1 samarium bromides

NT1 scandium bromides

NT1 selenium bromides

NT1 silicon bromides

NT1 silver bromides

NT1 sodium bromides

NT1 strontium bromides

NT1 tantalum bromides

NT1 technetium bromides

NT1 tellurium bromides

NT1 terbium bromides

NT1 thallium bromides

NT1 thorium bromides

NT1 thulium bromides

NT1 tin bromides

NT1 titanium bromides

NT1 tungsten bromides

NT1 uranium bromides

NT1 vanadium bromides

NT1 xenon bromides

NT1 ytterbium bromides

NT1 yttrium bromides

NT1 zinc bromides

NT1 zirconium bromides

RT bromine additions

RT hydrobromic acid

RT oxybromides

**brominated alicyclic hydrocarbons**

2000-04-12

(Prior to February 1995, this was a valid

ETDE descriptor.)

USE halogenated alicyclic hydrocarbons

USE organic bromine compounds

**BROMINATED ALIPHATIC HYDROCARBONS**

1999-04-13

(Prior to October 1991, this concept was

indexed by ORGANIC BROMINE

COMPOUNDS.)

\*BT1 halogenated aliphatic hydrocarbons

\*BT1 organic bromine compounds

NT1 bromoform

NT1 methyl bromide

**BROMINATED AROMATIC HYDROCARBONS**

1991-10-01

(Prior to October 1991, this concept was

indexed by ORGANIC BROMINE

COMPOUNDS and AROMATICS.)

\*BT1 halogenated aromatic hydrocarbons

\*BT1 organic bromine compounds

**brominated hydrocarbons**

ETDE: 2002-06-13

USE organic bromine compounds

**BROMINATION**

\*BT1 halogenation

**BROMINE**

UF bromine bromides

\*BT1 halogens

**BROMINE 69**

\*BT1 beta-plus decay radioisotopes

\*BT1 bromine isotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

**BROMINE 70**

\*BT1 beta-plus decay radioisotopes

\*BT1 bromine isotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**BROMINE 71**

\*BT1 beta-plus decay radioisotopes

\*BT1 bromine isotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**BROMINE 71 TARGET**

INIS: 1980-05-14; ETDE: 1988-12-05

BT1 targets

**BROMINE 72**

\*BT1 beta-plus decay radioisotopes

\*BT1 bromine isotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

**BROMINE 73**

\*BT1 beta-plus decay radioisotopes

\*BT1 bromine isotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

**BROMINE 74**

\*BT1 beta-plus decay radioisotopes

\*BT1 bromine isotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

**BROMINE 75**

\*BT1 beta-plus decay radioisotopes

\*BT1 bromine isotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

**BROMINE 76**

\*BT1 beta-plus decay radioisotopes

\*BT1 bromine isotopes

\*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**BROMINE 76 TARGET**

*INIS: 1979-02-21; ETDE: 1979-03-28*  
 BT1 targets

**BROMINE 77**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**BROMINE 78**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**BROMINE 79**

\*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 stable isotopes  
 RT bromine 79 beams

**BROMINE 79 BEAMS**

*INIS: 1976-07-06; ETDE: 1976-08-24*  
 \*BT1 ion beams  
 RT bromine 79

**BROMINE 79 REACTIONS**

*INIS: 1987-05-26; ETDE: 1988-09-22*  
 \*BT1 heavy ion reactions

**BROMINE 79 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**BROMINE 80**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**BROMINE 81**

\*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes

**BROMINE 81 REACTIONS**

*1979-11-02*  
 \*BT1 heavy ion reactions

**BROMINE 81 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**BROMINE 82**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 intermediate mass nuclei

\*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**BROMINE 83**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-even nuclei

**BROMINE 84**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**BROMINE 85**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**BROMINE 86**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**BROMINE 87**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**BROMINE 88**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**BROMINE 89**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**BROMINE 90**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**BROMINE 91**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**BROMINE 92**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**BROMINE 93**

*INIS: 1988-10-10; ETDE: 1988-11-01*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 bromine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**BROMINE ADDITIONS**

RT bromides  
 RT crystal doping  
 RT doped materials

**bromine bromides**

USE bromine

**BROMINE CHLORIDES**

UF chlorine bromides  
 \*BT1 bromine compounds  
 \*BT1 chlorides

**BROMINE COMPLEXES**

BT1 complexes

**BROMINE COMPOUNDS**

BT1 halogen compounds  
 NT1 bromates  
 NT1 bromic acid  
 NT1 bromides  
 NT2 aluminium bromides  
 NT2 antimony bromides  
 NT2 arsenic bromides  
 NT2 barium bromides  
 NT2 beryllium bromides  
 NT2 bismuth bromides  
 NT2 boron bromides  
 NT2 cadmium bromides  
 NT2 calcium bromides  
 NT2 californium bromides  
 NT2 cerium bromides  
 NT2 cesium bromides  
 NT2 chromium bromides  
 NT2 cobalt bromides  
 NT2 copper bromides  
 NT2 dysprosium bromides  
 NT2 einsteinium bromides  
 NT2 erbium bromides  
 NT2 europium bromides  
 NT2 fermium bromides  
 NT2 gadolinium bromides  
 NT2 gallium bromides  
 NT2 germanium bromides  
 NT2 gold bromides  
 NT2 hafnium bromides  
 NT2 holmium bromides  
 NT2 indium bromides  
 NT2 iodine bromides  
 NT2 iron bromides  
 NT2 krypton bromides  
 NT2 lanthanum bromides  
 NT2 lead bromides  
 NT2 lithium bromides  
 NT2 lutetium bromides  
 NT2 magnesium bromides  
 NT2 manganese bromides  
 NT2 mercury bromides  
 NT2 molybdenum bromides  
 NT2 neodymium bromides  
 NT2 neptunium bromides  
 NT2 nickel bromides  
 NT2 niobium bromides  
 NT2 nitrogen bromides  
 NT2 palladium bromides  
 NT2 phosphorus bromides  
 NT2 platinum bromides  
 NT2 polonium bromides  
 NT2 potassium bromides  
 NT2 praseodymium bromides  
 NT2 protactinium bromides  
 NT2 radium bromides  
 NT2 rhenium bromides  
 NT2 rhodium bromides  
 NT2 rubidium bromides  
 NT2 ruthenium bromides  
 NT2 samarium bromides  
 NT2 scandium bromides  
 NT2 selenium bromides

**NT2** silicon bromides  
**NT2** silver bromides  
**NT2** sodium bromides  
**NT2** strontium bromides  
**NT2** tantalum bromides  
**NT2** technetium bromides  
**NT2** tellurium bromides  
**NT2** terbium bromides  
**NT2** thallium bromides  
**NT2** thorium bromides  
**NT2** thulium bromides  
**NT2** tin bromides  
**NT2** titanium bromides  
**NT2** tungsten bromides  
**NT2** uranium bromides  
**NT2** vanadium bromides  
**NT2** xenon bromides  
**NT2** ytterbium bromides  
**NT2** yttrium bromides  
**NT2** zinc bromides  
**NT2** zirconium bromides  
**NT1** bromine chlorides  
**NT1** bromine fluorides  
**NT1** bromine oxides  
**NT1** hydrobromic acid  
**NT1** oxybromides  
**NT1** perbromates  
*RT* organic bromine compounds

**BROMINE FLUORIDES**

*UF* fluorine bromides  
 \*BT1 bromine compounds  
 \*BT1 fluorides

**bromine iodides**

USE iodine bromides

**BROMINE IONS**

\*BT1 ions

**BROMINE ISOTOPES**

1999-07-16

BT1 isotopes  
**NT1** bromine 69  
**NT1** bromine 70  
**NT1** bromine 71  
**NT1** bromine 72  
**NT1** bromine 73  
**NT1** bromine 74  
**NT1** bromine 75  
**NT1** bromine 76  
**NT1** bromine 77  
**NT1** bromine 78  
**NT1** bromine 79  
**NT1** bromine 80  
**NT1** bromine 81  
**NT1** bromine 82  
**NT1** bromine 83  
**NT1** bromine 84  
**NT1** bromine 85  
**NT1** bromine 86  
**NT1** bromine 87  
**NT1** bromine 88  
**NT1** bromine 89  
**NT1** bromine 90  
**NT1** bromine 91  
**NT1** bromine 92  
**NT1** bromine 93

**BROMINE NUMBER**

INIS: 2000-04-12; ETDE: 1976-05-17

Number of centigrams of bromine which are absorbed by 1 gram of oil under certain conditions.

*RT* gasoline  
*RT* oils

**BROMINE OXIDES**

\*BT1 bromine compounds  
 \*BT1 oxides  
*RT* oxybromides

**bromodeoxyuridine**

USE budr

**BROMOFORM**

\*BT1 brominated aliphatic hydrocarbons  
*RT* hydrocarbons  
*RT* methane

**BROMOSULFOPHTHALEIN**

\*BT1 carboxylic acid esters  
 BT1 indicators  
 \*BT1 organic bromine compounds  
 \*BT1 polyphenols  
 BT1 reagents  
 \*BT1 sulfonic acids  
*RT* phthalic acid  
*RT* radiopharmaceuticals

**BROMOURACILS**

\*BT1 antimetabolites  
 \*BT1 organic bromine compounds  
 \*BT1 uracils  
**NT1** budr

**BRONCHI**

BT1 respiratory system  
*RT* bronchitis  
*RT* lungs  
*RT* respiratory tract cells

**BRONCHITIS**

\*BT1 respiratory system diseases  
*RT* bronchi

**bronchogenic carcinoma**

USE carcinomas  
 USE respiratory system diseases

**BRONCHOPNEUMONIA**

\*BT1 pneumonia

**bronco event**

2000-04-12

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions  
 USE plowshare project

**BRONZE**

\*BT1 copper base alloys  
 \*BT1 tin alloys  
*RT* heusler alloys

**bronze (sodium tungsten)**

INIS: 2000-04-12; ETDE: 1979-08-09

USE sodium tungsten bronze

**BROOKHAVEN 200-MEV LINAC**

INIS: 1979-09-18; ETDE: 1979-12-10

\*BT1 linear accelerators  
*RT* brookhaven ags

**BROOKHAVEN AGS**

\*BT1 synchrotrons  
*RT* brookhaven 200-mev linac

**BROOKHAVEN CYCLOTRON**

\*BT1 isochronous cyclotrons

**brookhaven graphite research reactor**

1993-11-04

USE bgrr reactor

**brookhaven high flux beam reactor**

1993-11-04

USE hfbr reactor

**brookhaven intersecting storage accelerators**

1993-11-04

USE isabelle storage rings

**brookhaven medical research reactor**

1993-11-04

USE mrr reactor

**brookhaven national laboratory**

USE bnl

**BROOKHAVEN RHIC**

INIS: 1986-05-23; ETDE: 1986-01-14

Relativistic heavy ion collider facility located in former Isabelle Storage Ring tunnel.

*UF* relativistic heavy ion collider (bnl)

*UF* rhic (brookhaven)

\*BT1 heavy ion accelerators

BT1 storage rings

*RT* isabelle storage rings

**brooks**

INIS: 2000-04-12; ETDE: 1997-03-31

USE streams

**BROWN COAL**

1992-02-04

*SF* soft coal

\*BT1 coal

**NT1** lignite

**brown coal liquefaction process**

INIS: 2000-04-12; ETDE: 1985-10-10

USE bcl process

**BROWNIAN MOVEMENT**

*RT* collisions

*RT* colloids

*RT* motion

**brownouts**

1995-03-27

USE outages

**BROWNS FERRY-1 REACTOR**

TVA, Decatur, Alabama, USA.

\*BT1 bwr type reactors

\*BT1 mixed spectrum reactors

**BROWNS FERRY-2 REACTOR**

TVA, Decatur, Alabama, USA.

\*BT1 bwr type reactors

\*BT1 mixed spectrum reactors

**BROWNS FERRY-3 REACTOR**

TVA, Decatur, Alabama, USA.

\*BT1 bwr type reactors

\*BT1 mixed spectrum reactors

**BRR REACTOR**

Battelle Columbus Laboratories, Columbus,

Ohio, USA. Shut down in 1975.

*UF* battelle research reactor

*UF* bmi reactor

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 test reactors

\*BT1 thermal reactors

**BRUCE-1 REACTOR**

Tiverton, Ontario, Canada.

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

*RT* bruce site

**BRUCE-2 REACTOR**

Tiverton, Ontario, Canada.

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

*RT* bruce site

**BRUCE-3 REACTOR***Tiverton, Ontario, Canada.*

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- RT bruce site

**BRUCE-4 REACTOR***Tiverton, Ontario, Canada.*

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- RT bruce site

**BRUCE-5 REACTOR***INIS: 1978-07-03; ETDE: 1978-08-07**Tiverton, Ontario, Canada.*

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- RT bruce site

**BRUCE-6 REACTOR***INIS: 1978-07-03; ETDE: 1978-08-07**Tiverton, Ontario, Canada.*

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- RT bruce site

**BRUCE-7 REACTOR***INIS: 1978-07-03; ETDE: 1978-08-07**Tiverton, Ontario, Canada.*

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- RT bruce site

**BRUCE-8 REACTOR***INIS: 1978-07-03; ETDE: 1978-08-07**Tiverton, Ontario, Canada.*

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- RT bruce site

**BRUCE SITE***INIS: 1993-01-14; ETDE: 1993-05-06**Tiverton, Ontario, Canada.*

- BT1 reactor sites
- RT bruce-1 reactor
- RT bruce-2 reactor
- RT bruce-3 reactor
- RT bruce-4 reactor
- RT bruce-5 reactor
- RT bruce-6 reactor
- RT bruce-7 reactor
- RT bruce-8 reactor

**BRUCELLA**

- \*BT1 bacteria

**brueckner approximation**

- USE goldstone diagrams

**brueckner-gammel potential**

- USE brueckner method

**brueckner-gammel-weitzner theory**

- USE brueckner method

**brueckner-goldstone theory**

- USE goldstone diagrams

**BRUECKNER METHOD**

- UF *brueckner-gammel potential*
- UF *brueckner-gammel-weitzner theory*
- BT1 calculation methods
- RT brueckner model
- RT nuclear models
- RT nucleons

**BRUECKNER MODEL**

- UF *brueckner potential*
- UF *brueckner-watson theory*
- \*BT1 nuclear models
- RT brueckner method

**brueckner potential**

- USE brueckner model

**brueckner-sawada theory**

- USE goldstone diagrams

**brueckner-watson theory**

- USE brueckner model

**BRUNEI***INIS: 1993-01-26; ETDE: 1976-07-07**Sultanate and British protectorate, NW Borneo.*

- BT1 asia

**bruno leuschner-1 reactor**

- USE greifswald-1 reactor

**bruno leuschner-2 reactor**

- USE greifswald-2 reactor

**bruno leuschner-3 reactor***INIS: 1978-07-31; ETDE: 1978-09-11*

- USE greifswald-3 reactor

**bruno leuschner-4 reactor***INIS: 1978-07-31; ETDE: 1978-09-11*

- USE greifswald-4 reactor

**BRUNSBUETTEL REACTOR***SF kkb reactor*

- \*BT1 bwr type reactors

**BRUNSWICK-1 REACTOR***Carolina Power and Light Co., Southport, North Carolina, USA.*

- \*BT1 bwr type reactors

**BRUNSWICK-2 REACTOR***Carolina Power and Light Co., Southport, North Carolina, USA.*

- \*BT1 bwr type reactors

**brussels conv liability for maritime carriage nuc mater 1971***ETDE: 2003-01-03*

- USE bcoclmcnm

**brussels conv liability for operation of nuclear ships***ETDE: 2003-01-03*

- USE bcolons

**brussels conv-suppl to paris conv on third party liability***ETDE: 2003-01-03*

- USE bcstpc

**BRYOPHYTA***INIS: 1991-12-13; ETDE: 1989-06-01*

- BT1 plants
- NT1 mosses

**BRYOZOA***INIS: 2000-04-12; ETDE: 1985-02-22*

- BT1 aquatic organisms
- \*BT1 invertebrates

**bsc rao***2004-12-15**Bohunicke Spracovatelske Centrum RadioAktivnych Odpadov.*

- USE bohunice radioactive waste processing center

**bsf reactor**

- USE bsr-1 reactor

**bsg devices***1996-07-16**(Until July 1996 this was a valid descriptor.)*

- USE linear theta pinch devices
- USE magnetic mirrors

**BSR-1 REACTOR***ORNL, Oak Ridge, Tennessee, USA. Shut down in 1991.**UF bsf reactor**UF bulk shielding reactor-1*

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors

**BSR-2 REACTOR***ORNL, Oak Ridge, Tennessee, USA. Shut down in 1991.**UF bulk shielding reactor-2*

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors

**btu content***INIS: 2000-04-12; ETDE: 1984-10-24*

- USE calorific value

**btu meters***INIS: 2000-04-12; ETDE: 1981-10-24*

- USE heat meters

**BUBBLE CHAMBERS**

- \*BT1 gas track detectors
- NT1 cryogenic bubble chambers
- NT1 heavy liquid bubble chambers
- NT1 ultrasonic bubble chambers
- RT digitizers

**BUBBLE DOSEMETERS***INIS: 2003-12-17; ETDE: 2004-01-07*

- \*BT1 dosimeters
- RT neutron dosimetry
- RT personnel dosimetry

**BUBBLE GROWTH**

- UF *growth (bubble)*
- RT boiling
- RT boiling detection

**BUBBLES**

- RT aeration
- RT blisters
- RT boiling detection
- RT flow visualization
- RT foams
- RT voids

**bubiag-didier process***2000-04-12**(Prior to July 1993, this was a valid ETDE descriptor.)*

- USE coal gasification

**bucharest wwr-s reactor***INIS: 1984-06-21; ETDE: 2002-06-13*

- USE wwr-s-bucharest reactor

**BUCKET WHEEL EXCAVATORS***INIS: 2000-04-12; ETDE: 1978-04-28*

- \*BT1 earthmoving equipment
- \*BT1 mining equipment

**BUCKINGHAM POTENTIAL**

- BT1 potentials
- RT interatomic forces

**BUCKLING**

For neutron density distribution in reactors;  
for structural buckling see *DEFORMATION*  
or *FAILURES*.

- NT1 geometric buckling
- NT1 material buckling
- RT criticality

**buckling (structural)**

USE deformation

**BUCKWHEAT**

- \*BT1 liliopsida
- RT cereals

**BUDAPEST TRAINING REACTOR**

1980-09-12

Technical Univ., Budapest, Hungary.

- \*BT1 thermal reactors
- \*BT1 training reactors
- \*BT1 wwr type reactors

**budapest wwr-s reactor**

INIS: 1984-06-21; ETDE: 2002-06-13

USE wwr-s-budapest reactor

**BUDGETS**

- RT allocations
- RT cost
- RT economics
- RT expenditures
- RT financial data
- RT financing

**budker accelerators**

USE plasma betatrons

**BUDR**

- UF bromodeoxyuridine
- \*BT1 bromouracils
- \*BT1 nucleosides
- RT deoxyuridine

**BUDS**

RT plants

**BUFFALO**

- \*BT1 ruminants
- RT domestic animals

**BUFFALO GOURD**

INIS: 1991-12-16; ETDE: 1980-11-25

- UF *cucurbita foetidissima*
- \*BT1 magnoliopsida
- RT arid lands
- RT biomass
- RT essential oils
- RT seeds

**buffalo project**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE nuclear explosions

**buffalo pulstar reactor**

USE pulstar-buffalo reactor

**BUFFERS**

- RT acid neutralizing capacity
- RT gases
- RT ph value
- RT solutions

**BUFOTENINE**

1996-06-26

- \*BT1 hallucinogens
- \*BT1 serotonin

**BUGEY-1 REACTOR**

St-Vulbas, Ain, France.

- UF *edf-5 reactor*
- \*BT1 carbon dioxide cooled reactors
- \*BT1 gcr type reactors

- \*BT1 power reactors
- \*BT1 thermal reactors

**BUGEY-2 REACTOR**

St-Vulbas, Ain, France.

- \*BT1 pwr type reactors

**BUGEY-3 REACTOR**

1983-09-05

St-Vulbas, Ain, France.

- \*BT1 pwr type reactors

**BUGEY-4 REACTOR**

INIS: 1980-07-24; ETDE: 1980-08-12

St-Vulbas, Ain, France.

- \*BT1 pwr type reactors

**BUGEY-5 REACTOR**

INIS: 1988-05-13; ETDE: 1988-06-24

St-Vulbas, Ain, France.

- \*BT1 pwr type reactors

**BUILDERS**

INIS: 1993-04-28; ETDE: 1981-06-13

- UF building contractors
- BT1 personnel
- RT architects
- RT construction industry
- RT craftsmen

**building (constructing)**

USE construction

**building (manufacturing)**

USE fabrication

**BUILDING CODES**

INIS: 1992-06-30; ETDE: 1978-04-05

- \*BT1 regulations
- RT construction
- RT vernacular architecture

**building contractors**

INIS: 1993-04-28; ETDE: 1981-06-13

USE builders

**building envelope**

2004-05-28

- USE roofs
- USE walls

**building foundations**

INIS: 1975-12-17; ETDE: 2002-06-13

USE foundations

**building-integrated energy-producing components**

2004-02-11

Use the descriptor below + term(s) for the components, e.g. SOLAR CELL ARRAYS, TROMBE WALLS, ROOF PONDS.

USE solar architecture

**BUILDING MATERIALS**

- UF materials (building)
- UF structural materials
- BT1 materials
- NT1 adobe
- NT1 bricks
- NT1 cements
  - NT2 gypsum cements
  - NT2 portland cement
- NT1 concrete blocks
- NT1 concretes
  - NT2 prestressed concrete
  - NT2 reinforced concrete
- RT buildings
- RT composite materials
- RT glazing materials
- RT mortars
- RT pavements
- RT reinforced materials

- RT sand
- RT shielding materials
- RT structural beams
- RT thermal bridges
- RT u values

**BUILDINGS**

1997-06-17

- UF laundries
- UF structures (buildings)
- NT1 animal shelters
- NT1 commercial buildings
  - NT2 hotels
  - NT2 shopping centers
- NT1 containment buildings
- NT1 double envelope buildings
- NT1 earth-covered buildings
- NT1 government buildings
- NT1 greenhouses
  - NT2 attached greenhouses
- NT1 high-rise buildings
- NT1 hospitals
- NT1 laboratory buildings
- NT1 low-energy buildings
- NT1 office buildings
- NT1 prefabricated buildings
- NT1 public buildings
- NT1 residential buildings
  - NT2 apartment buildings
  - NT2 houses
  - NT2 mobile homes
- NT1 school buildings
- RT air curtains
- RT air infiltration
- RT airtightness
- RT architects
- RT architecture
- RT atria
- RT attics
- RT basements
- RT building materials
- RT ceilings
- RT construction
- RT construction industry
- RT curtains
- RT distributed structures
- RT domed structures
- RT doors
- RT drum walls
- RT elevators
- RT energy management systems
- RT floors
- RT foundations
- RT high rooms
- RT laboratories
- RT libraries
- RT load collector ratio
- RT mechanical structures
- RT medical establishments
- RT occupants
- RT retrofitting
- RT roofs
- RT shelters
- RT shutters
- RT skylights
- RT soil-structure interactions
- RT solar architecture
- RT sport facilities
- RT stacks
- RT sun shades
- RT trombe walls
- RT walls
- RT weatherization
- RT window frames
- RT windows

**buildings (containment)**

2000-04-12

USE containment buildings



**BUILDUP**

1999-04-14

- UF accumulation
- UF radiation buildup
- RT depth dose distributions
- RT ionization
- RT ionizing radiations
- RT radiation doses
- RT radiations
- RT radioecological concentration
- RT scattering
- RT shielding
- RT spatial dose distributions

**BULBS**

- RT allium sativum
- RT garlic
- RT onions
- RT plants

**BULGARIA**

- BT1 developing countries
- \*BT1 eastern europe
- RT black sea
- RT centrally planned economies
- RT danube river

**BULGARIAN ORGANIZATIONS**

1999-07-12

- BT1 national organizations

**bulgarian research reactor irt-2000**

1993-11-04

- USE irt-sofia reactor

**BULK DENSITY**

INIS: 1992-05-08; ETDE: 1978-05-03

- \*BT1 density

**BULK SEMICONDUCTOR DETECTORS**

- \*BT1 semiconductor detectors
- RT crystal counters

**bulk shielding reactor-1**

- USE bsr-1 reactor

**bulk shielding reactor-2**

- USE bsr-2 reactor

**BUMP-IN-TAIL INSTABILITY**

- \*BT1 plasma microinstabilities
- RT resonance

**BUMPY TORI**

INIS: 1984-02-22; ETDE: 1984-03-06

- \*BT1 magnetic mirrors
- NT1 elmo bumpy torus
- RT tori

**BUNA**

- \*BT1 rubbers
- RT butadiene

**bunching (beam)**

- USE beam bunching

**BUNDESAMT FUER STRAHLENSCHUTZ**

1991-05-02

Federal Office for Radiation Protection,  
Federal Republic of Germany.

- UF bfs
- UF saas
- UF staat amt atomsicherheit und strahlenschutz
- UF staatliches amt fuer atomsicherheit und strahlenschutz
- \*BT1 german fr organizations

**BUNDLE DIVERTORS**

INIS: 1981-07-06; ETDE: 1979-09-26

Divertors that extract a bundle of magnetic field lines.

- BT1 divertors
- RT toroidal field divertors

**bundles (fuel elements)**

- USE fuel element clusters

**bunker oils**

INIS: 1992-05-21; ETDE: 1976-01-23

- USE residual fuels

**bunkers**

INIS: 2000-04-12; ETDE: 1977-06-24

- USE hoppers

**BUOYS**

INIS: 2000-04-12; ETDE: 1976-08-04

- RT meteorology
- RT navigational instruments
- RT oceanography
- RT offshore operations
- RT water pollution

**bureau of mines (us)**

INIS: 1977-07-05; ETDE: 1976-11-17

- USE us bureau of mines

**bureau of reclamation**

INIS: 2000-04-12; ETDE: 1980-08-25

(Prior to December 1991 this was a valid ETDE descriptor.)

- USE us bureau of reclamation

**BURGERS VECTOR**

- RT dislocations

**BURKINA FASO**

1994-02-28

(Prior to February 2005 UPPER VOLTA was also a valid descriptor.)

- UF upper volta
- BT1 africa
- BT1 developing countries

**burma**

1999-01-26

(Until January 1999 this was a valid descriptor.)

- USE myanmar

**BURNABLE POISONS**

- BT1 neutron absorbers
- \*BT1 nuclear poisons
- RT burnup
- RT control elements
- RT fluid poison control
- RT poisoning
- RT reactor control systems
- RT reactor kinetics

**burner fuel oil**

INIS: 2000-04-12; ETDE: 1976-03-11

- USE heating oils

**BURNERS**

1997-06-19

- NT1 gas burners
- NT1 oil burners
- RT blowoff
- RT combustion
- RT combustors
- RT flashback
- RT furnaces
- RT incinerators
- RT pulse combustion
- RT pulse combustors
- RT stokers

**BURNOUT**

- RT dryout
- RT fuel elements
- RT heat flux
- RT heat transfer
- RT hot spots
- RT reactor accidents

**BURNOUT DEVICES**

- \*BT1 magnetic mirrors

**BURNS**

- \*BT1 injuries
- NT1 flash burns
- NT1 radiation burns
- RT fires
- RT safety showers
- RT skin diseases

**BURNUP**

- UF depletion (nuclear fuels)
- NT1 burnup extension
- RT burnable poisons
- RT fuel cooling time
- RT fuel cycle
- RT fuel scanning
- RT nuclear fuels
- RT spent fuel elements

**BURNUP EXTENSION**

2003-10-21

- BT1 burnup

**BURROS**

- UF donkeys
- \*BT1 mammals

**burroughs computers**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE computers

**bursa of fabricius**

- USE birds
- USE lymphatic system

**burst can detection**

- USE failed element detection

**burst can monitors**

- USE failed element monitors

**burst reactors**

- USE pulsed reactors

**burst slug detection**

- USE failed element detection

**burst slug monitors**

- USE failed element monitors

**BURUNDI**

INIS: 1992-06-04; ETDE: 1983-06-20

- BT1 africa
- BT1 developing countries

**BUSES**

1992-09-09

- UF trolleybuses
- BT1 vehicles
- RT occupants
- RT road tests
- RT transportation systems

**bushehr-1 reactor**

2004-05-10

- USE iran-1 reactor

**bushehr-2 reactor**

2004-05-10

- USE iran-2 reactor

**BUSHINGS**

*RT* bearings

**BUSINESS**

*INIS: 1992-02-21; ETDE: 1980-06-06*

*Buying and selling of goods and services; also, the activity of an individual, partnership, or organization involving production, commerce, and/or service.*

**NT1** marketing  
**NT1** procurement  
**NT1** small businesses  
*RT* antitrust laws  
*RT* economy  
*RT* industry  
*RT* market  
*RT* sectoral analysis  
*RT* trade

**buspr reactor**

USE pulstar-buffalo reactor

**busulfan**

USE myleran

**BUTADIENE**

\*BT1 dienes  
*RT* buna  
*RT* neoprene  
*RT* organic polymers

**BUTANE**

\*BT1 alkanes

**BUTANEDIOLS**

*INIS: 2000-04-12; ETDE: 1979-07-18*

\*BT1 glycols

**butanoic acid**

USE butyric acid

**BUTANOLS**

*UF* butyl alcohols  
*UF* butyric alcohols  
 \*BT1 alcohols

**BUTENES**

*UF* butylenes  
 \*BT1 alkenes

**butler-born approximation**

USE butler theory

**BUTLER THEORY**

*UF* butler-born approximation  
*RT* stripping

**BUTOXY RADICALS**

\*BT1 alkoxy radicals

**butt welds**

*INIS: 1976-03-17; ETDE: 2002-06-13*

USE welded joints

**BUTTER**

*1996-10-22*

\*BT1 milk products

**butter fat**

*1996-10-22*

(Until October 1996 this was a valid descriptor.)

USE fats  
 USE triglycerides

**buttercups**

USE ranunculaceae

**butyl alcohols**

USE butanols

**butyl-alpha-methylbenzylphenol**

*1996-06-26*

(Prior to June 1996 BAMBP was used for this concept in ETDE.)

USE phenols

**BUTYL ETHER**

*UF* dibutyl ether  
 \*BT1 ethers  
*RT* organic solvents

**BUTYL PHOSPHATES**

\*BT1 phosphoric acid esters  
**NT1** dbp  
**NT1** mbp  
**NT1** tbp

**BUTYL RADICALS**

\*BT1 alkyl radicals

**butylamine**

*INIS: 1984-04-04; ETDE: 2002-06-13*

USE amines

**butylenes**

USE butenes

**BUTYRIC ACID**

*UF* butanoic acid  
 \*BT1 monocarboxylic acids

**butyric alcohols**

USE butanols

**butyrolactam**

*1996-04-29*

USE pyrrolidones

**butyryl radicals**

*1996-07-16*

(Until July 1996 this was a valid descriptor.)

USE acyl radicals

**buyback**

*INIS: 1993-01-21; ETDE: 1980-03-04*

USE sellback

**buyers**

*INIS: 1992-04-03; ETDE: 1979-10-03*

USE marketers

**BW STANDARD REACTOR**

*1975-10-29*

USA.

(Prior to 1975, PWR/241 TYPE REACTORS was used.)

*UF* babcock and wilcox standard reactor  
*UF* pwr/241 type reactors  
 \*BT1 pwr type reactors

**bwr/6 type reactors**

*2000-01-10*

USE ge standard reactor

**bwr superheater puerto rico reactor**

*1993-11-04*

USE bonus reactor

**BWR TYPE REACTORS**

*UF* boiling water cooled and moderated reactor  
*SF* braun standard turbine island  
*SF* c f braun standard turbine island  
 \*BT1 enriched uranium reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors  
**NT1** allens creek-1 reactor  
**NT1** allens creek-2 reactor  
**NT1** bailly-1 reactor  
**NT1** barsebaeck-1 reactor

**NT1** barsebaeck-2 reactor  
**NT1** barton-1 reactor  
**NT1** barton-2 reactor  
**NT1** barton-3 reactor  
**NT1** barton-4 reactor  
**NT1** bell reactor  
**NT1** big rock point reactor  
**NT1** black fox-1 reactor  
**NT1** black fox-2 reactor  
**NT1** bolsa chica-1 reactor  
**NT1** bolsa chica-2 reactor  
**NT1** bonus reactor  
**NT1** browns ferry-1 reactor  
**NT1** browns ferry-2 reactor  
**NT1** browns ferry-3 reactor  
**NT1** brunsbuettel reactor  
**NT1** brunswick-1 reactor  
**NT1** brunswick-2 reactor  
**NT1** chinshan-1 reactor  
**NT1** chinshan-2 reactor  
**NT1** clinton-1 reactor  
**NT1** clinton-2 reactor  
**NT1** cofrentes reactor  
**NT1** cooper reactor  
**NT1** dodewaard reactor  
**NT1** douglas point-1 reactor  
**NT1** douglas point-2 reactor  
**NT1** dresden-1 reactor  
**NT1** dresden-2 reactor  
**NT1** dresden-3 reactor  
**NT1** duane arnold-1 reactor  
**NT1** ebwr reactor  
**NT1** enel-4 reactor  
**NT1** enrico fermi-2 reactor  
**NT1** err reactor  
**NT1** fitzpatrick reactor  
**NT1** forsmark-1 reactor  
**NT1** forsmark-2 reactor  
**NT1** forsmark-3 reactor  
**NT1** fukushima-1 reactor  
**NT1** fukushima-2 reactor  
**NT1** fukushima-3 reactor  
**NT1** fukushima-4 reactor  
**NT1** fukushima-5 reactor  
**NT1** fukushima-6 reactor  
**NT1** fukushima-ii-1 reactor  
**NT1** fukushima-ii-2 reactor  
**NT1** fukushima-ii-3 reactor  
**NT1** fukushima-ii-4 reactor  
**NT1** garigliano reactor  
**NT1** garona reactor  
**NT1** ge standard reactor  
**NT1** graben-1 reactor  
**NT1** graben-2 reactor  
**NT1** grand gulf-1 reactor  
**NT1** grand gulf-2 reactor  
**NT1** gundremmingen-2 reactor  
**NT1** gundremmingen-3 reactor  
**NT1** hamaoka-1 reactor  
**NT1** hamaoka-2 reactor  
**NT1** hamaoka-3 reactor  
**NT1** hamaoka-4 reactor  
**NT1** hamaoka-5 reactor  
**NT1** hartsville-1 reactor  
**NT1** hartsville-2 reactor  
**NT1** hartsville-3 reactor  
**NT1** hartsville-4 reactor  
**NT1** hatch-1 reactor  
**NT1** hatch-2 reactor  
**NT1** hdr reactor  
**NT1** hope creek-1 reactor  
**NT2** newbold island-1 reactor  
**NT1** hope creek-2 reactor  
**NT2** newbold island-2 reactor  
**NT1** humboldt bay reactor  
**NT1** isar reactor  
**NT1** jpd-2 reactor  
**NT1** jpd reactor  
**NT1** kaiseraugst reactor

NT1 kashiwazaki-kariwa-1 reactor  
 NT1 kashiwazaki-kariwa-2 reactor  
 NT1 kashiwazaki-kariwa-3 reactor  
 NT1 kashiwazaki-kariwa-4 reactor  
 NT1 kashiwazaki-kariwa-5 reactor  
 NT1 kashiwazaki-kariwa-6 reactor  
 NT1 kashiwazaki-kariwa-7 reactor  
 NT1 kruemmel reactor  
 NT1 kuosheng-1 reactor  
 NT1 kuosheng-2 reactor  
 NT1 la salle county-1 reactor  
 NT1 la salle county-2 reactor  
 NT1 lacbwr reactor  
 NT1 laguna verde-1 reactor  
 NT1 laguna verde-2 reactor  
 NT1 leibstadt reactor  
 NT1 limerick-1 reactor  
 NT1 limerick-2 reactor  
 NT1 lingen reactor  
 NT1 mendocino-1 reactor  
 NT1 mendocino-2 reactor  
 NT1 millstone-1 reactor  
 NT1 montague-1 reactor  
 NT1 montague-2 reactor  
 NT1 montalto di castro-1 reactor  
 NT1 montalto di castro-2 reactor  
 NT1 monticello reactor  
 NT1 muehleberg reactor  
 NT1 nine mile point-1 reactor  
 NT1 nine mile point-2 reactor  
 NT1 okg-1 reactor  
 NT1 okg-2 reactor  
 NT1 okg-3 reactor  
 NT1 olkiluoto-1 reactor  
 NT1 olkiluoto-2 reactor  
 NT1 onagawa-1 reactor  
 NT1 onagawa-2 reactor  
 NT1 onagawa-3 reactor  
 NT1 oyster creek-1 reactor  
 NT1 pathfinder reactor  
 NT1 peach bottom-2 reactor  
 NT1 peach bottom-3 reactor  
 NT1 perry-1 reactor  
 NT1 perry-2 reactor  
 NT1 philippsburg-1 reactor  
 NT1 phipps bend-1 reactor  
 NT1 phipps bend-2 reactor  
 NT1 pilgrim-1 reactor  
 NT1 quad cities-1 reactor  
 NT1 quad cities-2 reactor  
 NT1 ringhals-1 reactor  
 NT1 river bend-1 reactor  
 NT1 river bend-2 reactor  
 NT1 rwe-bayernwerk reactor  
 NT1 shika-1 reactor  
 NT1 shimane-1 reactor  
 NT1 shimane-2 reactor  
 NT1 shoreham reactor  
 NT1 skagit-1 reactor  
 NT1 skagit-2 reactor  
 NT1 sl-1 reactor  
 NT1 susquehanna-1 reactor  
 NT1 susquehanna-2 reactor  
 NT1 tarapur-1 reactor  
 NT1 tarapur-2 reactor  
 NT1 tokai-2 reactor  
 NT1 tsuruga reactor  
 NT1 tullnerfeld reactor  
 NT1 vak reactor  
 NT1 vbwr reactor  
 NT1 vermont yankee reactor  
 NT1 verplanck-1 reactor  
 NT1 verplanck-2 reactor  
 NT1 vk-50 reactor  
 NT1 wnp-2 reactor  
 NT1 wuergassen reactor  
 NT1 zimmer-1 reactor  
 NT1 zimmer-2 reactor

**BY-PRODUCTS**

1985-12-10

RT chars  
 RT distillers dried grains  
 RT industry  
 RT pyrolysis products  
 RT wastes

**byelorussian SSR**

1993-02-01

USE belarus

**BYPASSES**

UF shunts  
 RT blood vessels  
 RT coolant loops  
 RT reactor cooling systems

**BYRON-1 REACTOR**

Exelon Generation Co., LLC, Byron, Illinois, USA.

\*BT1 pwr type reactors

**BYRON-2 REACTOR**

Exelon Generation Co., LLC, Byron, Illinois, USA.

\*BT1 pwr type reactors

**BYU L-77 REACTOR**

2000-04-12

Brigham Young Univ., Provo, Utah, USA.

Shut down in 1982; dismantled in 1992.

UF brigham young university laboratory reactor

\*BT1 aqueous homogeneous reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**c-1430 resonances**

INIS: 1988-03-08; ETDE: 1984-05-23

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**c-2260 resonances**

INIS: 2000-04-12; ETDE: 1978-10-19

USE lambda c plus baryons

**C CODES**

BT1 computer codes

**c f braun standard turbine island**

INIS: 2000-04-12; ETDE: 1975-07-29

SEE bwr type reactors  
 SEE steam systems  
 SEE turbogenerators

**C INVARIANCE**

UF charge conjugation invariance  
 BT1 invariance principles  
 RT electric charges

**C QUARKS**

INIS: 1995-09-08; ETDE: 1995-10-03

\*BT1 charm particles  
 \*BT1 quarks  
 RT charmonium

**c-reactive protein**

USE globulins  
 USE immunity

**C REACTOR**

INIS: 1985-11-16; ETDE: 1983-11-23

Savannah River Plant, Aiken, South Carolina, USA. Reactor in surveillance and maintenance mode.

UF savannah river plant c reactor  
 \*BT1 heavy water moderated reactors

\*BT1 special production reactors

**C REGION**

INIS: 1982-10-28; ETDE: 1976-04-19

\*BT1 ionosphere

**C4 SPECIES**

INIS: 1996-01-29; ETDE: 1986-06-12

Plants having a preliminary step in their carbon fixation pathway whereby carbon dioxide binds to phosphoenolpyruvate.

BT1 plants  
 RT calvin cycle species  
 RT carbon dioxide fixation  
 RT chloroplasts  
 RT leaves  
 RT photosynthesis

**cabbage**

USE brassica

**CABIBBO ANGLE**

One of the two angles whose sines and cosines are the coefficients of strangeness-conserving and strangeness-changing vectors and axial parts of the hadronic current.

RT current algebra  
 RT kobayashi-maskawa matrix  
 RT weak interactions

**CABLES**

INIS: 1981-07-06; ETDE: 1976-08-04

For both electric and structural cables.

UF tendons (structural)  
 NT1 electric cables  
 NT2 coaxial cables  
 NT2 cryogenic cables  
 NT2 gas-insulated cables  
 NT2 oil-filled cables  
 NT2 superconducting cables  
 RT chains  
 RT ropes

**cables (electric)**

2000-04-12

USE electric cables

**CABRI REACTOR**

Nuclear Protection and Safety Inst., CEA St. Paul Lez Durance, France.

UF cadarache swimming pool reactor

\*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**cabriole event**

1994-10-14

A test made under OPERATION CROSSSTIE. (Prior to September 1994, this was a valid ETDE descriptor.)

USE cratering explosions  
 USE nuclear explosions

**CACAO TREES**

UF theobroma  
 \*BT1 magnoliopsida  
 \*BT1 trees  
 RT cocoa products

**cacodylic acid**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE arsenic compounds  
 USE organic acids

**cactaceae**

1979-11-02

USE cacti

**CACTI**

1979-09-18

UF cactaceae

\*BT1 magnoliopsida

**cadarache (cea)**

USE cea cadarache

**cadarache fuel element testing****reactor**

1993-11-04

USE pegase reactor

**cadarache maquette surgeneratic****reactor**

1993-11-04

USE masurca reactor

**cadarache rapsodie reactor**

USE rapsodie reactor

**cadarache reactor marius**

USE marius reactor

**cadarache swimming pool reactor**

1999-04-15

USE cabri reactor

**CADAVERINE**

UF 1,5-diaminopentane

UF pentamethylenediamine

\*BT1 amines

**CADMIUM**

\*BT1 metals

**CADMIUM 100**

\*BT1 beta-plus decay radioisotopes

\*BT1 cadmium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

**CADMIUM 101**

\*BT1 beta-plus decay radioisotopes

\*BT1 cadmium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

**CADMIUM 102**

\*BT1 beta-plus decay radioisotopes

\*BT1 cadmium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

**CADMIUM 103**

\*BT1 beta-plus decay radioisotopes

\*BT1 cadmium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

**CADMIUM 104**

\*BT1 beta-plus decay radioisotopes

\*BT1 cadmium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

**CADMIUM 105**

\*BT1 beta-plus decay radioisotopes

\*BT1 cadmium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

**CADMIUM 106**

\*BT1 cadmium isotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 stable isotopes

**CADMIUM 106 TARGET**

ETDE: 1976-07-09

BT1 targets

**CADMIUM 107**

\*BT1 beta-plus decay radioisotopes

\*BT1 cadmium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

**CADMIUM 108**

\*BT1 cadmium isotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 stable isotopes

**CADMIUM 108 TARGET**

ETDE: 1976-07-09

BT1 targets

**CADMIUM 109**

\*BT1 cadmium isotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 years living radioisotopes

**CADMIUM 109 TARGET**

INIS: 1979-02-21; ETDE: 1979-03-28

BT1 targets

**CADMIUM 110**

\*BT1 cadmium isotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 stable isotopes

**CADMIUM 110 TARGET**

ETDE: 1976-07-09

BT1 targets

**CADMIUM 111**

\*BT1 cadmium isotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 internal conversion radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 stable isotopes

**CADMIUM 111 TARGET**

ETDE: 1976-07-09

BT1 targets

**CADMIUM 112**

\*BT1 cadmium isotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 stable isotopes

**CADMIUM 112 TARGET**

ETDE: 1976-07-09

BT1 targets

**CADMIUM 113**

\*BT1 beta-minus decay radioisotopes

\*BT1 cadmium isotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 internal conversion radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 stable isotopes

\*BT1 years living radioisotopes

**CADMIUM 113 TARGET**

ETDE: 1976-07-09

BT1 targets

**CADMIUM 114**

\*BT1 cadmium isotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 stable isotopes

**CADMIUM 114 TARGET**

ETDE: 1976-07-09

BT1 targets

**CADMIUM 115**

\*BT1 beta-minus decay radioisotopes

\*BT1 cadmium isotopes

\*BT1 days living radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

**CADMIUM 116**

\*BT1 cadmium isotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 stable isotopes

**CADMIUM 116 TARGET**

ETDE: 1976-07-09

BT1 targets

**CADMIUM 117**

\*BT1 beta-minus decay radioisotopes

\*BT1 cadmium isotopes

\*BT1 even-odd nuclei

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

**CADMIUM 118**

\*BT1 beta-minus decay radioisotopes

\*BT1 cadmium isotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

**CADMIUM 119**

\*BT1 beta-minus decay radioisotopes

\*BT1 cadmium isotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

**CADMIUM 120**

\*BT1 beta-minus decay radioisotopes

\*BT1 cadmium isotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

**CADMIUM 121**

\*BT1 beta-minus decay radioisotopes

\*BT1 cadmium isotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

**CADMIUM 122**

\*BT1 beta-minus decay radioisotopes

\*BT1 cadmium isotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

**CADMIUM 123**

\*BT1 beta-minus decay radioisotopes

\*BT1 cadmium isotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes

**CADMIUM 124**

\*BT1 beta-minus decay radioisotopes

\*BT1 cadmium isotopes

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CADMIUM 125**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CADMIUM 126**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CADMIUM 127**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CADMIUM 128**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CADMIUM 130**

*INIS: 1987-02-25; ETDE: 1987-05-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CADMIUM 96**

*INIS: 1984-06-21; ETDE: 1983-10-11*

- \*BT1 cadmium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CADMIUM 97**

*INIS: 1980-02-26; ETDE: 1980-03-29*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CADMIUM 98**

*INIS: 1977-02-08; ETDE: 1977-04-13*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CADMIUM 99**

*INIS: 1980-02-26; ETDE: 1980-03-29*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cadmium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**CADMIUM ADDITIONS**

*Alloys containing not more than 1% Cd are listed here.*

- \*BT1 cadmium alloys
- NT1 zamak

**CADMIUM-AIR BATTERIES**

*INIS: 2000-04-12; ETDE: 1976-03-22*

- \*BT1 metal-gas batteries

**CADMIUM ALLOYS**

*Alloys containing more than 1% Cd.*

- BT1 alloys
- NT1 alloy-bi50pb25cd12sn12
- NT2 wood metal
- NT1 cadmium additions
- NT2 zamak
- NT1 cadmium base alloys
- NT1 cerrobend alloys

**CADMIUM ARSENIDE SOLAR CELLS**

*INIS: 2000-04-12; ETDE: 1981-07-18*

- \*BT1 solar cells

**CADMIUM ARSENIDES**

*INIS: 1978-04-21; ETDE: 1975-11-11*

- \*BT1 arsenides
- BT1 cadmium compounds

**CADMIUM BASE ALLOYS**

- \*BT1 cadmium alloys

***cadmium borides***

*1996-06-26*

*(Until June 1996 this was a valid descriptor.)*

- USE borides
- USE cadmium compounds

**CADMIUM BROMIDES**

- \*BT1 bromides
- \*BT1 cadmium halides

**CADMIUM CARBIDES**

*INIS: 2000-04-12; ETDE: 1976-09-28*

- BT1 cadmium compounds
- \*BT1 carbides

**CADMIUM CARBONATES**

- BT1 cadmium compounds
- \*BT1 carbonates

**CADMIUM CHLORIDES**

- \*BT1 cadmium halides
- \*BT1 chlorides

**CADMIUM COMPLEXES**

- BT1 complexes

**CADMIUM COMPOUNDS**

*1997-06-17*

- UF *cadmium borides*
- NT1 cadmium arsenides
- NT1 cadmium carbides
- NT1 cadmium carbonates
- NT1 cadmium halides
- NT2 cadmium bromides
- NT2 cadmium chlorides
- NT2 cadmium fluorides
- NT2 cadmium iodides
- NT1 cadmium hydroxides
- NT1 cadmium nitrates
- NT1 cadmium oxides
- NT1 cadmium perchlorates
- NT1 cadmium phosphates
- NT1 cadmium phosphides
- NT1 cadmium selenides
- NT1 cadmium silicates
- NT1 cadmium stannates
- NT1 cadmium sulfates
- NT1 cadmium sulfides
- NT1 cadmium tellurides
- NT1 cadmium titanates
- NT1 cadmium tungstates

**CADMIUM FLUORIDES**

- \*BT1 cadmium halides
- \*BT1 fluorides

**CADMIUM HALIDES**

*1984-04-04*

- BT1 cadmium compounds

- \*BT1 halides

- NT1 cadmium bromides
- NT1 cadmium chlorides
- NT1 cadmium fluorides
- NT1 cadmium iodides

**CADMIUM HYDROXIDES**

- BT1 cadmium compounds
- \*BT1 hydroxides

**CADMIUM IODIDES**

- \*BT1 cadmium halides
- \*BT1 iodides

**CADMIUM IONS**

- \*BT1 ions

**CADMIUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 cadmium 100
- NT1 cadmium 101
- NT1 cadmium 102
- NT1 cadmium 103
- NT1 cadmium 104
- NT1 cadmium 105
- NT1 cadmium 106
- NT1 cadmium 107
- NT1 cadmium 108
- NT1 cadmium 109
- NT1 cadmium 110
- NT1 cadmium 111
- NT1 cadmium 112
- NT1 cadmium 113
- NT1 cadmium 114
- NT1 cadmium 115
- NT1 cadmium 116
- NT1 cadmium 117
- NT1 cadmium 118
- NT1 cadmium 119
- NT1 cadmium 120
- NT1 cadmium 121
- NT1 cadmium 122
- NT1 cadmium 123
- NT1 cadmium 124
- NT1 cadmium 125
- NT1 cadmium 126
- NT1 cadmium 127
- NT1 cadmium 128
- NT1 cadmium 130
- NT1 cadmium 96
- NT1 cadmium 97
- NT1 cadmium 98
- NT1 cadmium 99

**CADMIUM NITRATES**

- BT1 cadmium compounds
- \*BT1 nitrates

**CADMIUM OXIDES**

- BT1 cadmium compounds
- \*BT1 oxides

**CADMIUM PERCHLORATES**

- BT1 cadmium compounds
- \*BT1 perchlorates

**CADMIUM PHOSPHATES**

- BT1 cadmium compounds
- \*BT1 phosphates

**CADMIUM PHOSPHIDES**

*INIS: 1977-01-25; ETDE: 1975-09-11*

- BT1 cadmium compounds
- \*BT1 phosphides

**CADMIUM SELENIDE SOLAR CELLS**

*1992-05-28*

- \*BT1 solar cells

**CADMIUM SELENIDES**

- BT1 cadmium compounds

\*BT1 selenides

### CADMIUM SILICATES

BT1 cadmium compounds  
\*BT1 silicates

### CADMIUM STANNATES

INIS: 2000-04-12; ETDE: 1976-02-19

BT1 cadmium compounds  
\*BT1 stannates

### CADMIUM SULFATES

BT1 cadmium compounds  
\*BT1 sulfates

### CADMIUM SULFIDE SOLAR CELLS

1992-05-28

\*BT1 solar cells

### CADMIUM SULFIDES

BT1 cadmium compounds  
\*BT1 inorganic phosphors  
\*BT1 sulfides

### cadmium telluride detectors

USE cdte semiconductor detectors

### CADMIUM TELLURIDE SOLAR CELLS

1992-05-28

\*BT1 solar cells

### CADMIUM TELLURIDES

BT1 cadmium compounds  
\*BT1 tellurides

### CADMIUM TITANATES

INIS: 2000-04-12; ETDE: 1978-11-14

BT1 cadmium compounds  
\*BT1 titanates

### CADMIUM TUNGSTATES

BT1 cadmium compounds  
\*BT1 inorganic phosphors  
\*BT1 tungstates

### caes

INIS: 1993-01-27; ETDE: 1978-09-13

USE compressed air energy storage

### caes plant

INIS: 2000-04-12; ETDE: 1978-09-13

USE compressed air storage power plants

### caesium

ETDE: 2002-06-13

USE cesium

### CAFB PROCESS

2000-04-12

Process consists of shallow fluidized bed of lime particles into which high-sulfur heavy fuel oil is injected.

UF chemically active fluidized bed process

\*BT1 desulfurization  
RT fluidized beds

### cafeterias

INIS: 2000-04-12; ETDE: 1981-01-09

USE restaurants

### CAFFEINE

UF 1,3,7-trimethylxanthine

\*BT1 analeptics  
\*BT1 xanthines

### cairo wwr-s reactor

INIS: 1984-06-21; ETDE: 2002-06-13

USE wwr-s-cairo reactor

### CAKING

2000-04-12

RT agglomeration

RT briquetting  
RT caking power  
RT compacting

### CAKING POWER

2000-04-12

RT caking

### calabash event

1994-10-14

A test made under OPERATION MANDREL.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions  
USE underground explosions

### CALANDRIAS

BT1 containers  
RT pressure tubes

### CALCINATION

\*BT1 pyrolysis  
RT calcined wastes  
RT pyrometallurgy  
RT radioactive waste processing  
RT waste processing

### CALCINED WASTES

INIS: 1981-03-10; ETDE: 1980-11-12

Waste forms resulting from the calcination of aqueous nuclear fuel reprocessing wastes and composed of granular solids of metallic oxides.

\*BT1 radioactive wastes  
RT calcination  
RT radioactive waste processing  
RT solid wastes

### CALCINOSIS

INIS: 1984-04-04; ETDE: 1980-03-29

A condition marked by the deposition of calcium salts in various tissues of the body.

BT1 pathological changes

### CALCITE

UF chalk  
\*BT1 carbonate minerals  
RT calcium carbonates  
RT dolomite  
RT limestone

### CALCITONIN

\*BT1 peptide hormones  
\*BT1 polypeptides  
RT calcium  
RT parathyroid glands  
RT thymus  
RT thyroid

### CALCIUM

\*BT1 alkaline earth metals  
RT blood coagulation factors  
RT bone tissues  
RT calcitonin  
RT hyperparathyroidism  
RT parathormone  
RT teeth  
RT thyrocalcitonin

### CALCIUM 35

\*BT1 calcium isotopes  
\*BT1 even-odd nuclei  
\*BT1 light nuclei

### CALCIUM 36

\*BT1 beta-plus decay radioisotopes  
\*BT1 calcium isotopes  
\*BT1 even-even nuclei  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes

### CALCIUM 37

\*BT1 beta-plus decay radioisotopes

\*BT1 calcium isotopes  
\*BT1 even-odd nuclei  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes

### CALCIUM 38

\*BT1 beta-plus decay radioisotopes  
\*BT1 calcium isotopes  
\*BT1 even-even nuclei  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes

### CALCIUM 39

\*BT1 beta-plus decay radioisotopes  
\*BT1 calcium isotopes  
\*BT1 even-odd nuclei  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes

### CALCIUM 39 TARGET

INIS: 1992-09-22; ETDE: 1983-11-09

BT1 targets

### CALCIUM 40

\*BT1 calcium isotopes  
\*BT1 even-even nuclei  
\*BT1 light nuclei  
\*BT1 stable isotopes

### CALCIUM 40 BEAMS

INIS: 1976-10-07; ETDE: 1976-11-01

\*BT1 ion beams

### CALCIUM 40 REACTIONS

\*BT1 heavy ion reactions

### CALCIUM 40 TARGET

ETDE: 1976-07-09

BT1 targets

### CALCIUM 41

\*BT1 calcium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 years living radioisotopes

### CALCIUM 41 TARGET

ETDE: 1976-07-09

BT1 targets

### CALCIUM 42

\*BT1 calcium isotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 stable isotopes

### CALCIUM 42 REACTIONS

1984-11-30

\*BT1 heavy ion reactions

### CALCIUM 42 TARGET

ETDE: 1976-07-09

BT1 targets

### CALCIUM 43

\*BT1 calcium isotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 stable isotopes

### CALCIUM 43 TARGET

ETDE: 1976-07-09

BT1 targets

### CALCIUM 44

\*BT1 calcium isotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 stable isotopes

### CALCIUM 44 REACTIONS

INIS: 1977-09-15; ETDE: 1977-11-10

\*BT1 heavy ion reactions

**CALCIUM 44 TARGET***ETDE: 1976-07-09*

BT1 targets

**CALCIUM 45**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 calcium isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei

**CALCIUM 46**

\*BT1 calcium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes

**CALCIUM 46 TARGET***ETDE: 1976-07-09*

BT1 targets

**CALCIUM 47**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 calcium isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei

**CALCIUM 48**

\*BT1 calcium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes

**CALCIUM 48 BEAMS***INIS: 1977-04-07; ETDE: 1977-06-02*

\*BT1 ion beams

**CALCIUM 48 REACTIONS***INIS: 1976-11-08; ETDE: 1976-12-16*

\*BT1 heavy ion reactions

**CALCIUM 48 TARGET***ETDE: 1976-07-09*

BT1 targets

**CALCIUM 49**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 calcium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

**CALCIUM 49 TARGET***INIS: 1984-06-21; ETDE: 1984-07-10*

BT1 targets

**CALCIUM 50**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 calcium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

**CALCIUM 51***INIS: 1984-06-21; ETDE: 1981-01-27*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 calcium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

**CALCIUM 52***INIS: 1984-10-19; ETDE: 1976-05-13*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 calcium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

**CALCIUM 53***INIS: 1984-06-21; ETDE: 1984-02-10*

\*BT1 beta-minus decay radioisotopes

\*BT1 calcium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

**CALCIUM ADDITIONS***Alloys containing not more than 1% Ca are listed here.*

\*BT1 calcium alloys

**CALCIUM ALLOYS***Alloys containing more than 1% Ca.*

BT1 alloys  
 NT1 calcium additions  
 NT1 calcium base alloys

**CALCIUM BASE ALLOYS**

\*BT1 calcium alloys

**CALCIUM BORIDES**

\*BT1 borides  
 \*BT1 calcium compounds

**CALCIUM BROMIDES**

\*BT1 bromides  
 \*BT1 calcium halides

**CALCIUM CARBIDES**

\*BT1 calcium compounds  
 \*BT1 carbides

**CALCIUM CARBONATES***1996-07-08*

\*BT1 calcium compounds  
 \*BT1 carbonates  
*RT* ankerite  
*RT* aragonite  
*RT* calcite  
*RT* carbonate minerals  
*RT* dolomite  
*RT* limestone  
*RT* liming  
*RT* marble  
*RT* marlstone  
*RT* phosphate rocks  
*RT* shortite  
*RT* travertine

**CALCIUM CHLORIDES**

\*BT1 calcium halides  
 \*BT1 chlorides

**CALCIUM COMPLEXES**

\*BT1 alkaline earth metal complexes

**CALCIUM COMPOUNDS***1997-06-17*

BT1 alkaline earth metal compounds  
 NT1 calcium borides  
 NT1 calcium carbides  
 NT1 calcium carbonates  
 NT1 calcium halides  
 NT2 calcium bromides  
 NT2 calcium chlorides  
 NT2 calcium fluorides  
 NT2 calcium iodides  
 NT1 calcium hydrides  
 NT1 calcium hydroxides  
 NT1 calcium nitrates  
 NT1 calcium nitrides  
 NT1 calcium oxides  
 NT1 calcium perchlorates  
 NT1 calcium phosphates  
 NT1 calcium silicates  
 NT1 calcium silicides  
 NT1 calcium sulfates  
 NT1 calcium sulfides  
 NT1 calcium tungstates

**CALCIUM FLUORIDES**

\*BT1 calcium halides  
 \*BT1 fluorides  
*RT* fluorite

*RT* halide minerals  
*RT* thermoluminescent dosimeters

**CALCIUM HALIDES***1983-10-14*

\*BT1 calcium compounds  
 \*BT1 halides  
 NT1 calcium bromides  
 NT1 calcium chlorides  
 NT1 calcium fluorides  
 NT1 calcium iodides

**CALCIUM HYDRIDES**

\*BT1 calcium compounds  
 \*BT1 hydrides

**CALCIUM HYDROXIDES**

\*BT1 calcium compounds  
 \*BT1 hydroxides

**calcium hydroxyapatite***INIS: 1984-04-04; ETDE: 2002-06-13*

USE apatites  
 USE calcium phosphates

**CALCIUM IODIDES**

\*BT1 calcium halides  
 \*BT1 iodides

**CALCIUM IONS**

\*BT1 ions

**CALCIUM ISOTOPES***1999-02-01*

\*BT1 alkaline earth isotopes  
 NT1 calcium 35  
 NT1 calcium 36  
 NT1 calcium 37  
 NT1 calcium 38  
 NT1 calcium 39  
 NT1 calcium 40  
 NT1 calcium 41  
 NT1 calcium 42  
 NT1 calcium 43  
 NT1 calcium 44  
 NT1 calcium 45  
 NT1 calcium 46  
 NT1 calcium 47  
 NT1 calcium 48  
 NT1 calcium 49  
 NT1 calcium 50  
 NT1 calcium 51  
 NT1 calcium 52  
 NT1 calcium 53  
*RT* bone seekers

**CALCIUM NITRATES**

\*BT1 calcium compounds  
 \*BT1 nitrates

**CALCIUM NITRIDES**

\*BT1 calcium compounds  
 \*BT1 nitrides

**CALCIUM OXIDES***1996-07-08*

\*BT1 calcium compounds  
 \*BT1 oxides  
*RT* becquerelite  
*RT* ellsworthite  
*RT* liming  
*RT* melanovanadite  
*RT* oxide minerals  
*RT* pascoite  
*RT* perovskite  
*RT* rauvite  
*RT* tyuyamunite  
*RT* zirconolite

**CALCIUM PERCHLORATES***1991-09-16*

\*BT1 calcium compounds  
 \*BT1 perchlorates

**CALCIUM PHOSPHATES**

1996-06-28

- UF calcium hydroxyapatite  
 \*BT1 calcium compounds  
 \*BT1 phosphates  
 RT phosphate rocks

**CALCIUM SILICATES**

1996-11-13

- \*BT1 calcium compounds  
 \*BT1 silicates  
 RT epidotes  
 RT garnets  
 RT ilvaite  
 RT kainosite  
 RT lavenite  
 RT ranquillite  
 RT silicate minerals  
 RT uranophane

**CALCIUM SILICIDES**

INIS: 2000-05-02; ETDE: 1976-06-07

- \*BT1 calcium compounds  
 \*BT1 silicides

**CALCIUM SULFATES**

- \*BT1 calcium compounds  
 \*BT1 sulfates  
 RT anhydrite  
 RT gypsum  
 RT polyhalite  
 RT sulfate minerals  
 RT thermoluminescent dosimeters

**CALCIUM SULFIDES**

- \*BT1 calcium compounds  
 \*BT1 sulfides

**CALCIUM TUNGSTATES**

- \*BT1 calcium compounds  
 \*BT1 inorganic phosphors  
 \*BT1 tungstates

**CALCRETES**

INIS: 1994-09-29; ETDE: 1978-06-14

*Conglomerate consisting of surficial sand and gravel cemented in a hard mass by calcium carbonate. Important host for uranium deposits in some parts of the world. (Until September 1994 this concept was indexed to LIMESTONE.)*

- \*BT1 conglomerates

**CALCULATION METHODS**

INIS: 1996-07-08; ETDE: 1975-11-11

- NT1 adjoint difference method  
 NT1 approximations  
 NT2 adiabatic approximation  
 NT2 born approximation  
 NT3 coupled channel born approximation  
 NT3 dwba  
 NT2 born-oppenheimer approximation  
 NT2 brinkman-kramers approximation  
 NT2 broken-pair approximation  
 NT2 diabatic approximation  
 NT2 dirac approximation  
 NT2 eikonal approximation  
 NT2 equivalent-photon approximation  
 NT2 fsc approximation  
 NT2 guiding-center approximation  
 NT2 hartree-fock method  
 NT2 impulse approximation  
 NT2 ladder approximation  
 NT2 pade approximation  
 NT2 random phase approximation  
 NT2 rosseland approximation  
 NT2 semiclassical approximation  
 NT2 spherical harmonics method  
 NT3 p1-approximation  
 NT3 p2-approximation

- NT3 p3-approximation  
 NT2 straight-line path approximation  
 NT2 sudden approximation  
 NT2 tomonaga approximation  
 NT2 unitary pole approximation  
 NT2 wkb approximation  
 NT2 zero-range approximation  
 NT1 binary encounter method  
 NT1 bogolyubov method  
 NT1 brueckner method  
 NT1 case method  
 NT1 chew-low method  
 NT1 collision probability method  
 NT1 deterministic estimation  
 NT1 discrete ordinate method  
 NT1 dynamic programming  
 NT1 feynman method  
 NT1 finite element method  
 NT2 boundary element method  
 NT1 generator-coordinate method  
 NT1 homogenization methods  
 NT1 iterative methods  
 NT2 finite difference method  
 NT2 galerkin-petrov method  
 NT2 newton method  
 NT2 runge-kutta method  
 NT1 k-harmonics method  
 NT1 lcao method  
 NT1 linear programming  
 NT1 lyapunov method  
 NT1 molecular dynamics method  
 NT1 molecular orbital method  
 NT1 moments method  
 NT1 monte carlo method  
 NT1 multiple collision method  
 NT1 n-d method  
 NT1 nodal expansion method  
 NT1 nonlinear programming  
 NT1 omnes-muskhelishvili method  
 NT1 oseen method  
 NT1 patterson method  
 NT1 probabilistic estimation  
 NT1 response matrix method  
 NT1 ritz method  
 NT1 rydberg-klein-rees method  
 NT1 saddle-point method  
 NT1 slater method  
 NT1 tamm-dancoff method  
 NT1 transfer matrix method  
 NT1 variational methods  
 NT2 density functional method  
 NT2 hsk procedure  
 NT2 resonating-group method  
 NT2 schwinger variational method  
 NT1 wick-chandrasekhar method  
 NT1 wigner-seitz method  
 NT1 yvon method  
 RT algorithms  
 RT mathematical solutions  
 RT measuring methods  
 RT numerical solution  
 RT sensitivity analysis

**calculations (1-dimensional)**

- USE one-dimensional calculations

**calculations (2-dimensional)**

- USE two-dimensional calculations

**calculations (3-dimensional)**

- USE three-dimensional calculations

**calculations (4-dimensional)**

- USE four-dimensional calculations

**calculations (computer)**

- USE computer calculations

**calculations (many dimensions)**

- USE many-dimensional calculations

**CALCULATORS**

INIS: 1985-12-10; ETDE: 1978-11-14

*Small, often hand-held, devices capable of carrying out limited logic and arithmetic operations.*

- UF pocket calculators  
 \*BT1 digital computers  
 RT data processing

**CALCULI**

*In biology and medicine only; to be assigned in coordination with descriptors specifying their location such as URINARY TRACT, PANCREAS, etc.*

- UF gallstones  
 UF kidney stones  
 RT kidneys  
 RT urinary tract

**calculus (differential)**

- USE differential calculus

**CALCUTTA CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-03-24

- \*BT1 heavy ion accelerators  
 \*BT1 variable energy cyclotrons

**CALDASITE**

- BT1 rocks  
 \*BT1 uranium ores  
 RT baddeleyite  
 RT zircon

**CALDER HALL A-1 REACTOR**

Seascale, Cumbria, United Kingdom.

- UF a-1 reactor (calder hall)  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 magnox type reactors  
 \*BT1 plutonium production reactors  
 \*BT1 thermal reactors

**CALDER HALL A-2 REACTOR**

Seascale, Cumbria, United Kingdom.

- UF a-2 reactor (calder hall)  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 magnox type reactors  
 \*BT1 plutonium production reactors  
 \*BT1 thermal reactors

**CALDER HALL B-3 REACTOR**

Seascale, Cumbria, United Kingdom.

- \*BT1 carbon dioxide cooled reactors  
 \*BT1 magnox type reactors  
 \*BT1 plutonium production reactors  
 \*BT1 thermal reactors

**CALDER HALL B-4 REACTOR**

Seascale, Cumbria, United Kingdom.

- \*BT1 carbon dioxide cooled reactors  
 \*BT1 magnox type reactors  
 \*BT1 plutonium production reactors  
 \*BT1 thermal reactors

**CALDERAS**

INIS: 1984-04-04; ETDE: 1976-08-04

*Large, basin-shaped volcanic depressions, more or less circular in form, the diameter of which is many times greater than that of the included vent or vents.*

- RT volcanoes

**CALENDARS**

INIS: 2000-04-12; ETDE: 1975-11-28

- RT time measurement

**CALHOUN-1 REACTOR**

*Omaha Public Power District, Fort Calhoun, Nebraska, USA.*

- UF fort calhoun-1 reactor  
 \*BT1 pwr type reactors



**CALHOUN-2 REACTOR**

*INIS: 1976-02-11; ETDE: 1975-11-28*  
*Omaha Public Power District, Fort Calhoun,*  
*Nebraska, USA. Canceled in 1977 before*  
*construction began.*

UF fort calhoun-2 reactor  
 \*BT1 pwr type reactors

**CALIBRATION**

RT absolute counting  
 RT accuracy  
 RT calibration standards  
 RT inspection  
 RT scaling laws

**CALIBRATION STANDARDS**

UF reference materials (standard)  
 UF srm  
 UF standard reference materials  
 UF standards (calibration)  
 BT1 standards  
 RT accuracy  
 RT calibration  
 RT interlaboratory comparisons  
 RT nirus facility  
 RT ssdl  
 RT standardization

**CALIFORNIA**

*1997-06-19*

UF humboldt bay  
 \*BT1 usa  
 NT1 brawley geothermal field  
 NT1 coso hot springs  
 NT1 los angeles  
 RT atomics international canoga park  
 plant  
 RT cascade mountains  
 RT edna deposit  
 RT geysers geothermal field  
 RT great basin  
 RT heber geothermal field  
 RT imperial valley  
 RT lawrence berkeley laboratory  
 RT lawrence livermore laboratory  
 RT lawrence livermore national  
 laboratory  
 RT long valley  
 RT salton sea geothermal field  
 RT san bernardino mountains  
 RT san francisco bay  
 RT sandia laboratories  
 RT sandia national laboratories  
 RT santa barbara channel  
 RT sierra nevada colorado  
 RT stanford linear accelerator center  
 RT ucla  
 RT us naval petroleum reserves  
 RT us west coast  
 RT wendell-amedee hot springs

**california berkeley triga reactor**

*INIS: 1993-11-04; ETDE: 2002-06-13*  
 USE ucbr reactor

**california irvine triga-mk-1 reactor**

*INIS: 1993-11-04; ETDE: 2002-06-13*  
 USE triga-1-california reactor

**CALIFORNIUM**

\*BT1 actinides  
 \*BT1 transplutonium elements

**CALIFORNIUM 238**

*INIS: 1992-09-22; ETDE: 1979-11-23*  
 \*BT1 actinide nuclei  
 \*BT1 californium isotopes  
 \*BT1 even-even nuclei

**CALIFORNIUM 239**

*INIS: 1986-06-09; ETDE: 1982-03-11*  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 seconds living radioisotopes

**CALIFORNIUM 240**

*INIS: 1986-06-09; ETDE: 1988-12-05*  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 minutes living radioisotopes

**CALIFORNIUM 241**

*INIS: 1986-06-09; ETDE: 1988-12-05*  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 minutes living radioisotopes

**CALIFORNIUM 242**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 minutes living radioisotopes

**CALIFORNIUM 243**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 minutes living radioisotopes

**CALIFORNIUM 244**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 minutes living radioisotopes

**CALIFORNIUM 244 TARGET**

*INIS: 1992-09-22; ETDE: 1978-09-11*  
 BT1 targets

**CALIFORNIUM 245**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 minutes living radioisotopes

**CALIFORNIUM 246**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 spontaneous fission radioisotopes

**CALIFORNIUM 246 TARGET**

*INIS: 1992-09-22; ETDE: 1984-08-06*  
 BT1 targets

**CALIFORNIUM 247**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 internal conversion radioisotopes

**CALIFORNIUM 248**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 spontaneous fission radioisotopes

**CALIFORNIUM 249**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 spontaneous fission radioisotopes  
 \*BT1 years living radioisotopes

**CALIFORNIUM 249 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**CALIFORNIUM 250**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 spontaneous fission radioisotopes  
 \*BT1 years living radioisotopes

**CALIFORNIUM 250 TARGET**

*INIS: 1978-07-03; ETDE: 1977-08-24*  
 BT1 targets

**CALIFORNIUM 251**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 years living radioisotopes

**CALIFORNIUM 251 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**CALIFORNIUM 252**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 spontaneous fission radioisotopes  
 \*BT1 years living radioisotopes

**CALIFORNIUM 252 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**CALIFORNIUM 253**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei

**CALIFORNIUM 254**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 spontaneous fission radioisotopes

**CALIFORNIUM 254 TARGET**

*INIS: 1978-09-28; ETDE: 1978-07-05*  
 BT1 targets

**CALIFORNIUM 255**

*INIS: 1977-01-25; ETDE: 1976-11-01*  
 \*BT1 actinide nuclei  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 californium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes

**CALIFORNIUM 256**

INIS: 1978-09-28; ETDE: 1977-12-22

- \*BT1 actinide nuclei
- \*BT1 californium isotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**californium additions**

2000-04-12

(Prior to August 1993 this was a valid ETDE descriptor.)

USE alloys

**CALIFORNIUM ALLOYS**

INIS: 1979-04-27; ETDE: 1978-10-23

Alloys containing more than 1% Cf.

- \*BT1 actinide alloys

**californium arsenides**

INIS: 1996-07-18; ETDE: 1978-10-23

(Until July 1996 this was a valid descriptor.)

- USE arsenides
- USE californium compounds

**CALIFORNIUM BROMIDES**

- \*BT1 bromides
- \*BT1 californium compounds

**CALIFORNIUM CHLORIDES**

- \*BT1 californium compounds
- \*BT1 chlorides

**CALIFORNIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes

**CALIFORNIUM COMPOUNDS**

1996-11-13

- UF californium arsenides
- UF californium iodides
- UF californium nitrates
- UF californium nitrides
- UF californium selenides
- UF californium sulfides
- UF californium tellurides
- BT1 actinide compounds
- \*BT1 transplutonium compounds
- NT1 californium bromides
- NT1 californium chlorides
- NT1 californium fluorides
- NT1 californium oxides

**CALIFORNIUM FLUORIDES**

- \*BT1 californium compounds
- \*BT1 fluorides

**californium iodides**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE californium compounds
- USE iodides

**CALIFORNIUM IONS**

- \*BT1 ions

**CALIFORNIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 californium 238
- NT1 californium 239
- NT1 californium 240
- NT1 californium 241
- NT1 californium 242
- NT1 californium 243
- NT1 californium 244
- NT1 californium 245
- NT1 californium 246
- NT1 californium 247
- NT1 californium 248
- NT1 californium 249

NT1 californium 250

NT1 californium 251

NT1 californium 252

NT1 californium 253

NT1 californium 254

NT1 californium 255

NT1 californium 256

**californium nitrates**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE californium compounds
- USE nitrates

**californium nitrides**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE californium compounds
- USE nitrides

**CALIFORNIUM OXIDES**

- \*BT1 californium compounds
- \*BT1 oxides

**californium selenides**

INIS: 1996-07-18; ETDE: 1978-10-23

(Until July 1996 this was a valid descriptor.)

- USE californium compounds
- USE selenides

**californium sulfides**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE californium compounds
- USE sulfides

**californium tellurides**

INIS: 1996-07-18; ETDE: 1978-10-23

(Until July 1996 this was a valid descriptor.)

- USE californium compounds
- USE tellurides

**CALIPER LOGGING**

INIS: 2000-04-12; ETDE: 1976-08-24

- BT1 well logging

**CALIXARENES**

1998-09-23

- \*BT1 condensed aromatics

**CALLAWAY-1 REACTOR**

Union Electric Co., Fulton, Missouri, USA.

- \*BT1 pwr type reactors

**CALLAWAY-2 REACTOR**

Union Electric Co., Fulton, Missouri, USA.

Canceled in 1981 before construction began.

- \*BT1 pwr type reactors

**CALMODULIN**

INIS: 1993-08-03; ETDE: 1987-07-22

- \*BT1 proteins
- RT membrane transport
- RT receptors

**caloricon process**

INIS: 2000-04-12; ETDE: 1981-08-04

(Prior to April 1994, this was a valid ETDE descriptor.)

- USE waste processing

**CALORIFIC VALUE**

INIS: 1992-03-17; ETDE: 1976-01-23

Quantity of heat liberated on the complete combustion of a unit weight or unit volume of fuel.

- UF btu content
- BT1 combustion properties
- RT combustion
- RT combustion heat
- RT fuels

**calorimeter detectors**

INIS: 1986-07-09; ETDE: 2002-06-13

- USE shower counters

**CALORIMETERS**

- BT1 measuring instruments
- RT calorimetric dosimeters
- RT calorimetry
- RT temperature measurement

**calorimeters (particle)**

INIS: 2000-04-12; ETDE: 1979-03-28

- USE shower counters

**CALORIMETRIC DOSEMETERS**

- \*BT1 dosimeters
- RT calorimeters
- RT thermocouples

**CALORIMETRY**

- RT calorimeters
- RT heat transfer
- RT temperature measurement

**calorizing**

- USE diffusion coating

**caltech synchrotron**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE synchrotrons

**calutrons**

INIS: 2000-04-12; ETDE: 1984-02-10

- USE electromagnetic isotope separators

**CALVERT CLIFFS-1 REACTOR**

CCNPPI - subsidiary of Constellation Energy Group, Lusby, Maryland, USA.

- \*BT1 pwr type reactors

**CALVERT CLIFFS-2 REACTOR**

CCNPPI - subsidiary of Constellation Energy Group, Lusby, Maryland, USA.

- \*BT1 pwr type reactors

**CALVES**

- \*BT1 cattle

**CALVIN CYCLE SPECIES**

INIS: 1992-04-28; ETDE: 1986-07-03

Plants that fix carbon by the reductive pentose phosphate pathway only.

- BT1 plants
- RT c4 species
- RT carbon dioxide fixation
- RT chloroplasts
- RT leaves
- RT photosynthesis

**cam**

INIS: 1984-01-18; ETDE: 1983-07-07

- USE computer-aided manufacturing

**CAMAC SYSTEM**

Computer Application to Measurement And Control.

- RT computers
- RT data acquisition systems
- RT data transmission
- RT electronic equipment
- RT equipment interfaces
- RT fastbus system
- RT modular structures
- RT nuclear instrument modules
- RT on-line control systems
- RT specifications

**cambium**

- USE meristems

**CAMBODIA**

- BT1 asia

**CAMBRIAN PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19

\*BT1 paleozoic era

**CAMBRIDGE ELECTRON****ACCELERATOR**

UF cea (accelerator)

\*BT1 synchrotrons

**camellia sinensis**

1980-11-07

USE tea plants

**CAMELS**

INIS: 1992-03-02; ETDE: 1992-02-05

\*BT1 ruminants

RT domestic animals

**CAMERA TUBES**

1996-07-08

(Prior to July 1996 ICONOSCOPES and ORTHICONS were valid ETDE descriptors.)

UF iconoscopes

UF orthicons

BT1 image tubes

NT1 vidicons

RT television

**CAMERAS**

NT1 gamma cameras

NT2 positron cameras

NT1 neutron cameras

NT1 streak cameras

NT1 television cameras

RT photography

RT radioisotope scanning

**CAMEROON**

BT1 africa

BT1 developing countries

**camp**

USE amp

**camp century medium power plant 2a**

1993-11-04

USE pm-2a reactor

**CAMPBELLING CIRCUITS**

1976-08-17

*Circuits based on Campbell's mean square theorem for evaluating the signal from an ionization chamber.*

BT1 electronic circuits

RT ionization chambers

**camphene**

1996-10-22

(Until October 1996 this was a valid descriptor.)

USE cycloalkenes

USE terpenes

**CAMPHOR**

\*BT1 ketones

\*BT1 terpenes

RT celluloid

**CANADA**

1997-06-17

BT1 developed countries

BT1 north america

NT1 alberta

NT1 british columbia

NT1 manitoba

NT1 new brunswick

NT1 newfoundland

NT1 northwest territories

NT1 nova scotia

NT1 nunavut

NT1 ontario

NT2 chalk river

NT2 deep river

NT2 elliot lake

NT1 prince edward island

NT1 quebec

NT1 saskatchewan

NT1 yukon territory

RT appalachian mountains

RT athabasca deposit

RT bay of fundy

RT chalk river nuclear labs

RT cold lake deposit

RT fraser river

RT lake wabamun

RT nelson river

RT oecd

RT peace river deposit

RT polar gas project

RT rocky mountains

RT saint clair river

RT saint john river

RT wabasca deposit

**canada-india reactor**

USE cirus reactor

**canada nrx research reactor**

USE nrx reactor

**CANADIAN AECB**

INIS: 1977-03-14; ETDE: 1977-06-02

Canadian Atomic Energy Control Board.

UF aecb canada

UF atomic energy control board (canada)

\*BT1 canadian organizations

**canadian nru reactor**

USE nru reactor

**CANADIAN ORGANIZATIONS**

BT1 national organizations

NT1 atomic energy of canada ltd

NT2 chalk river nuclear labs

NT2 wnre

NT1 canadian aecb

**canal manivier**

2004-12-15

USE manivier canal

**canals (waterways)**

USE inland waterways

**CANARE**

INIS: 1989-02-24; ETDE: 1989-03-20

Convention on Assistance in the Case of a Nuclear Accident or Radiological Emergency.

UF assistance in nuclear accident/radiological emergency conv.

UF conv assist nuc acc/rad emerg

\*BT1 international agreements

RT iaea

RT radiation accidents

RT reactor accidents

**CANARY ISLANDS**

2000-04-12

BT1 islands

\*BT1 spain

**canberra tokamak**

ETDE: 1976-05-19

USE lt-3 tokamak

**CANCELLATION**

INIS: 1985-03-19; ETDE: 1983-09-15

Primarily for, but not limited to, energy facilities.

RT amortization

RT decommissioning

RT planning

RT shutdown

**canцер**

USE neoplasms

**CANDIDA**

UF monilia

\*BT1 yeasts

**candu reactor**

INIS: 1975-09-12; ETDE: 1975-12-16

USE douglas point ontario reactor

**CANDU TYPE REACTORS**

INIS: 1975-09-12; ETDE: 1975-10-28

Thermal power reactors of Canadian design characterized by heavy water moderator, pressure tube construction, and on-power refuelling.

\*BT1 heavy water moderated reactors

\*BT1 pressure tube reactors

\*BT1 thermal reactors

NT1 bruce-1 reactor

NT1 bruce-2 reactor

NT1 bruce-3 reactor

NT1 bruce-4 reactor

NT1 bruce-5 reactor

NT1 bruce-6 reactor

NT1 bruce-7 reactor

NT1 bruce-8 reactor

NT1 cernavoda-1 reactor

NT1 cordoba reactor

NT1 darlington-1 reactor

NT1 darlington-2 reactor

NT1 darlington-3 reactor

NT1 darlington-4 reactor

NT1 douglas point ontario reactor

NT1 embalse reactor

NT1 gentilly-2 reactor

NT1 gentilly reactor

NT1 kaiga-1 reactor

NT1 kaiga-2 reactor

NT1 kakrapar-1 reactor

NT1 kakrapar-2 reactor

NT1 kanupp reactor

NT1 npd reactor

NT1 pickering-1 reactor

NT1 pickering-2 reactor

NT1 pickering-3 reactor

NT1 pickering-4 reactor

NT1 pickering-5 reactor

NT1 pickering-6 reactor

NT1 pickering-7 reactor

NT1 pickering-8 reactor

NT1 point lepreau-1 reactor

NT1 point lepreau-2 reactor

NT1 qinshan-3-1 reactor

NT1 qinshan-3-2 reactor

NT1 rajasthan-1 reactor

NT1 rajasthan-2 reactor

NT1 rajasthan-3 reactor

NT1 rajasthan-4 reactor

NT1 wolsung-1 reactor

NT1 wolsung-2 reactor

NT1 wolsung-3 reactor

NT1 wolsung-4 reactor

**canines**

INIS: 2000-04-12; ETDE: 1981-06-15

USE dogs

**canis latrans**

INIS: 1993-02-18; ETDE: 1981-04-17

USE coyotes

**canisters**

INIS: 2000-04-12; ETDE: 1984-11-08

USE containers

**CANNEL COAL**

2000-04-12

\*BT1 sapropelic coal

**cannikin event**

1994-10-14

*A test made during OPERATION GROMMET.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**CANNING**

UF sheathing

\*BT1 materials working

RT cladding

RT fuel cans

**canning (food)**

INIS: 1984-04-04; ETDE: 2002-06-13

USE food processing

**CANONICAL DIMENSION***Scale dimension of quantum fields obeying canonical equal-time commutation relations.*

BT1 scale dimension

RT commutation relations

**canonical equations**

USE differential equations

**canonical quantum field theory**

INIS: 1977-11-21; ETDE: 1979-05-03

USE lagrangian field theory

**CANONICAL TRANSFORMATIONS**

BT1 transformations

NT1 bogolyubov transformation

NT1 foldy-wouthuysen transform

RT equations of motion

RT mathematics

RT mechanics

RT quantum mechanics

**CANOPIES**

INIS: 1992-03-05; ETDE: 1985-02-07

*Vegetative canopies only.*

RT forests

RT ground cover

RT leaves

RT plants

RT throughfall

RT trees

**caorso reactor**

2000-04-12

USE enel-4 reactor

**CAP ROCK**

2000-04-12

RT rocks

**CAPACITANCE**

INIS: 1984-01-18; ETDE: 1981-06-13

\*BT1 electrical properties

RT deep level transient spectroscopy

RT dielectric properties

RT electric charges

RT electric impedance

RT inductance

**CAPACITIVE ENERGY STORAGE****EQUIPMENT**

INIS: 2000-04-12; ETDE: 1979-02-27

SF supercapacitors

BT1 equipment

RT capacitors

RT energy storage

RT energy storage systems

RT peaking power plants

**CAPACITORS**

UF condensers (electric)

UF electric condensers

\*BT1 electrical equipment

RT capacitive energy storage equipment

RT dielectric materials

RT electrostatics

RT energy storage

RT energy storage systems

RT power supplies

**capacitrons**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE rectifier tubes

**CAPACITY**

INIS: 1982-12-03; ETDE: 1977-06-02

*Coordinate with descriptor for appropriate other term. Not for electrical capacitance.*

UF generating capacity

UF production capacity

UF reserve capacity

RT load management

RT outages

RT power generation

RT production

**CAPE FEAR RIVER**

\*BT1 rivers

RT north carolina

**CAPE KENNEDY**

\*BT1 florida

**CAPE VERDE ISLANDS**

INIS: 1992-06-04; ETDE: 1979-12-10

BT1 islands

RT atlantic ocean

**CAPILLARIES**

\*BT1 blood vessels

RT animal tissues

RT glomeruli

RT histamine

RT respiration

RT supercritical fluid chromatography

RT vasoconstriction

RT vasodilation

**capillary action shaping technique**

INIS: 2000-04-12; ETDE: 1980-02-11

USE cast method

**CAPILLARY FLOW**

BT1 fluid flow

RT heat pipe wicks

RT heat pipes

**CAPITAL**

RT capitalized cost

RT cost

RT economics

RT euromarket

RT expenditures

RT financing

RT investment

**capital costs**

INIS: 2000-04-12; ETDE: 1983-02-09

USE capitalized cost

**CAPITALIZED COST**

INIS: 1985-07-18; ETDE: 1980-06-06

(Prior to August 1985 CAPITAL COST was used.)

UF capital costs

BT1 cost

RT capital

RT economic analysis

RT operating cost

**capric acid**

USE decanoic acid

**caproic acid**

USE hexanoic acid

**caprylic acid**

USE octanoic acid

**CAPSICUM**

\*BT1 magnoliopsida

RT peppers

RT spices

**CAPSULES**

BT1 containers

RT encapsulation

**capsules (irradiation)**

USE irradiation capsules

**CAPTURE**

1996-01-24

*For capture cross sections, see also**INTEGRAL CROSS SECTIONS.*

UF neutron capture

UF radiative capture

NT1 electron capture

RT capture-to-fission ratio

RT electron capture decay

RT interactions

RT nuclear reactions

RT panofsky ratio

RT r process

RT valency model

**CAPTURE-TO-FISSION RATIO**

UF neutron capture-to-fission ratio

BT1 dimensionless numbers

RT capture

RT fission ratio

RT interactions

RT nuclear reactions

**carassius**

USE goldfish

**caraway**

USE ranunculaceae

**CARBAMATES**

\*BT1 carbonic acid derivatives

BT1 carboxylic acid salts

\*BT1 organic nitrogen compounds

NT1 dedtc

NT1 urethane

RT carbamic acid esters

**CARBAMIC ACID ESTERS**

\*BT1 carboxylic acid esters

RT carbamates

**carbamide**

USE urea

**carbanions**

INIS: 2000-04-12; ETDE: 1981-05-18

*Negatively charged organic ions having one more electron than the corresponding free radical.*

(Prior to February 1997 this was a valid ETDE descriptor.)

USE anions

**CARBAZIDES**

\*BT1 carbonic acid derivatives

\*BT1 organic nitrogen compounds

**CARBAZOLES**

UF dibenzopyrroles

\*BT1 azaarenes

\*BT1 azoles

RT pyrroles

**CARBAZONES**

1996-10-23

(Prior to March 1997

DIPHENYLCARBAZONES was a valid

ETDE descriptor.)

UF diphenylcarbazones

\*BT1 carbonic acid derivatives

\*BT1 organic nitrogen compounds

NT1 dithizone

**CARBENES**

INIS: 1983-02-03; ETDE: 1978-03-03

*Organic radicals containing divalent carbon as CH<sub>2</sub>, CHO<sub>H</sub>, CHF, etc.*

BT1 radicals

RT reaction intermediates

**CARBIDES**

1997-06-19

UF americium carbides

UF indium carbides

UF protactinium carbides

UF selenium carbides

BT1 carbon compounds

NT1 aluminium carbides

NT1 barium carbides

NT1 beryllium carbides

NT1 boron carbides

NT1 cadmium carbides

NT1 calcium carbides

NT1 cerium carbides

NT1 cesium carbides

NT1 chromium carbides

NT1 cobalt carbides

NT1 copper carbides

NT1 dysprosium carbides

NT1 erbium carbides

NT1 europium carbides

NT1 gadolinium carbides

NT1 gallium carbides

NT1 germanium carbides

NT1 hafnium carbides

NT1 holmium carbides

NT1 iridium carbides

NT1 iron carbides

NT2 cementite

NT2 ni-hard

NT1 lanthanum carbides

NT1 lead carbides

NT1 lithium carbides

NT1 lutetium carbides

NT1 magnesium carbides

NT1 manganese carbides

NT1 molybdenum carbides

NT1 neodymium carbides

NT1 neptunium carbides

NT1 nickel carbides

NT1 niobium carbides

NT1 nitrogen carbides

NT1 osmium carbides

NT1 palladium carbides

NT1 platinum carbides

NT1 plutonium carbides

NT1 potassium carbides

NT1 praseodymium carbides

NT1 rhenium carbides

NT1 rhodium carbides

NT1 rubidium carbides

NT1 ruthenium carbides

NT1 samarium carbides

NT1 scandium carbides

NT1 silicon carbides

NT1 sodium carbides

NT1 strontium carbides

NT1 tantalum carbides

NT1 technetium carbides

NT1 terbium carbides

NT1 thallium carbides

NT1 thorium carbides

NT1 thulium carbides

NT1 tin carbides

NT1 titanium carbides

NT1 tungsten carbides

NT1 uranium carbides

NT1 vanadium carbides

NT1 ytterbium carbides

NT1 yttrium carbides

NT1 zinc carbides

NT1 zirconium carbides

RT carbon additions

RT carbonitrides

RT ceramics

RT decarburization

RT oxycarbides

**carbinol**

USE methanol

**carbitols**

1996-06-26

*Diglycol monoalkyl ethers.*

(Until June 1996 this was a valid descriptor.)

USE ethers

USE glycols

USE organic solvents

**CARBOHYDRATES**

BT1 organic compounds

NT1 glycosides

NT2 cardiac glycosides

NT3 digitalis glycosides

NT4 digitoxin

NT4 digoxin

NT3 strophanthins

NT4 ouabain

NT2 saponins

NT2 strophanthin

NT2 uridine diphosphoglucose

NT1 saccharides

NT2 glycolipids

NT3 cerebroside

NT3 gangliosides

NT2 glycoproteins

NT3 avidin

NT3 glucoproteins

NT4 lactoferrin

NT4 ovalbumin

NT3 luteinizing hormone

NT2 monosaccharides

NT3 erythritol

NT3 hexoses

NT4 fructose

NT4 galactose

NT4 glucose

NT4 hexosamines

NT5 glucosamine

NT4 mannose

NT4 sorbose

NT3 inositols

NT4 inositol

NT3 pentoses

NT4 arabinose

NT4 deoxyribose

NT4 ribose

NT4 ribulose

NT4 xylose

NT3 sorbitol

NT2 oligosaccharides

NT3 disaccharides

NT4 cellobiose

NT4 lactose

NT4 maltose

NT4 saccharose

NT3 raffinose

NT2 polysaccharides

NT3 agar

NT3 alginic acid

NT3 cellophane

NT3 cellulose

NT3 dextran

NT3 dextrin

NT3 glycogen

NT3 gum acacia

NT3 hemicellulose

NT4 xylans

NT3 inulin

NT3 lignin

NT3 lipopolysaccharides

NT3 mucopolysaccharides

NT4 chitin

NT4 chondroitin

NT4 heparin

NT4 hyaluronic acid

NT3 mucoproteins

NT4 haptoglobins

NT4 intrinsic factor

NT4 phytohemagglutinin

NT3 nitrocellulose

NT3 pectins

NT3 rayon

NT3 starch

NT3 viscose

NT3 xanthan gum

RT food

RT glycolysis

RT phosphoenolpyruvate

**CARBOLOY**

2000-04-12

\*BT1 cobalt alloys

\*BT1 tantalum alloys

\*BT1 titanium alloys

\*BT1 tungsten alloys

**CARBON**

\*BT1 nonmetals

NT1 activated carbon

NT1 carbon black

NT1 carbynes

NT1 diamonds

NT1 fullerenes

NT1 graphite

NT1 pyrolytic carbon

RT carbon fibers

RT carbon meters

RT decarburization

**CARBON 10**

\*BT1 beta-plus decay radioisotopes

\*BT1 carbon isotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 seconds living radioisotopes

**CARBON 10 BEAMS**

INIS: 1988-11-16; ETDE: 1988-12-02

\*BT1 radioactive ion beams

**CARBON 11**

\*BT1 beta-plus decay radioisotopes

\*BT1 carbon isotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 minutes living radioisotopes

**CARBON 11 BEAMS**

INIS: 1985-05-15; ETDE: 1985-07-18

\*BT1 radioactive ion beams

\*BT1 secondary beams

**CARBON 11 TARGET**

INIS: 1986-04-02; ETDE: 1979-07-24

BT1 targets

**CARBON 12**

\*BT1 carbon isotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 stable isotopes

RT carbon 12 beams

**CARBON 12 BEAMS**

\*BT1 ion beams  
RT carbon 12

**CARBON 12 DECAY****RADIOISOTOPES**

1995-06-29

\*BT1 heavy ion decay radioisotopes  
NT1 barium 114  
RT carbon 12 emission decay

**CARBON 12 EMISSION DECAY**

INIS: 1995-06-29; ETDE: 1991-05-17

\*BT1 heavy ion emission decay  
RT carbon 12 decay radioisotopes

**CARBON 12 REACTIONS**

\*BT1 heavy ion reactions

**CARBON 12 TARGET**

ETDE: 1976-07-09

BT1 targets

**CARBON 13**

\*BT1 carbon isotopes  
\*BT1 even-odd nuclei  
\*BT1 light nuclei  
\*BT1 stable isotopes  
RT carbon 13 beams

**CARBON 13 BEAMS**

\*BT1 ion beams  
RT carbon 13

**CARBON 13 REACTIONS**

\*BT1 heavy ion reactions

**CARBON 13 TARGET**

ETDE: 1976-07-09

BT1 targets

**CARBON 14**

UF radiocarbon dating

\*BT1 beta-minus decay radioisotopes  
\*BT1 carbon isotopes  
\*BT1 even-even nuclei  
\*BT1 light nuclei  
\*BT1 years living radioisotopes  
RT carbon 14 beams  
RT carbon 14 compounds  
RT carbon 14 reactions  
RT isotope dating

**CARBON 14 BEAMS**

\*BT1 radioactive ion beams  
RT carbon 14

**CARBON 14 COMPOUNDS**

BT1 carbon compounds  
BT1 labelled compounds  
RT carbon 14  
RT labelling

**CARBON 14 DECAY****RADIOISOTOPES**

INIS: 1986-03-04; ETDE: 1988-10-12

\*BT1 heavy ion decay radioisotopes  
NT1 radium 222  
NT1 radium 223  
NT1 radium 224  
NT1 radium 226  
RT carbon 14 emission decay

**CARBON 14 EMISSION DECAY**

INIS: 1986-03-04; ETDE: 1988-10-12

\*BT1 heavy ion emission decay  
RT carbon 14 decay radioisotopes

**CARBON 14 REACTIONS**

\*BT1 heavy ion reactions  
RT carbon 14

**CARBON 14 TARGET**

ETDE: 1976-07-09

BT1 targets

**CARBON 15**

\*BT1 beta-minus decay radioisotopes  
\*BT1 carbon isotopes  
\*BT1 even-odd nuclei  
\*BT1 light nuclei  
\*BT1 seconds living radioisotopes

**CARBON 16**

\*BT1 beta-minus decay radioisotopes  
\*BT1 carbon isotopes  
\*BT1 even-even nuclei  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes

**CARBON 16 EMISSION DECAY**

INIS: 2000-04-12; ETDE: 1991-05-17

\*BT1 heavy ion emission decay

**CARBON 16 TARGET**

INIS: 1992-09-22; ETDE: 1977-05-07

BT1 targets

**CARBON 17**

\*BT1 beta-minus decay radioisotopes  
\*BT1 carbon isotopes  
\*BT1 even-odd nuclei  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes

**CARBON 18**

\*BT1 beta-minus decay radioisotopes  
\*BT1 carbon isotopes  
\*BT1 even-even nuclei  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes

**CARBON 19**

\*BT1 carbon isotopes  
\*BT1 even-odd nuclei  
\*BT1 light nuclei

**CARBON 20**

\*BT1 carbon isotopes  
\*BT1 even-even nuclei  
\*BT1 light nuclei

**CARBON 22**

INIS: 1979-02-21; ETDE: 1979-03-28

\*BT1 carbon isotopes  
\*BT1 even-even nuclei  
\*BT1 light nuclei

**CARBON 8**

\*BT1 carbon isotopes  
\*BT1 even-even nuclei  
\*BT1 light nuclei

**CARBON 9**

\*BT1 beta-plus decay radioisotopes  
\*BT1 carbon isotopes  
\*BT1 even-odd nuclei  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes

**CARBON ADDITIONS**

1996-11-13

BT1 alloys  
NT1 alloy-co43cr20fe18ni13w3  
NT2 havar  
NT1 alloy-hs-31  
NT1 alloy-in-102  
NT1 alloy-n-10m  
NT1 alloy-n-9m  
NT1 alloy-n28t3  
NT1 alloy-ni60co15cr10al6ti5mo3  
NT2 alloy-in-100  
NT1 alloy-s-816  
NT1 alloy-v-36  
NT1 ascoloy

NT1 astroloy

NT1 austenite

NT1 cast iron

NT1 discaloy

NT1 duriron

NT1 ferrite

NT1 martensite

NT1 rene 41

NT1 rene 95

NT1 steels

NT2 austenitic steels

NT3 steel-cr15ni15motib

NT3 steel-cr16ni13monbv

NT3 steel-cr16ni15mo3nb

NT3 steel-cr16ni16monb

NT3 steel-cr16ni8mo2

NT4 stainless steel-16-8-2

NT3 steel-cr17ni12mo3

NT4 stainless steel-316

NT3 steel-cr17ni12mo3-l

NT4 stainless steel-316l

NT4 stainless steel-zend17-13

NT3 steel-cr17ni12monb

NT3 steel-cr17ni13

NT3 steel-cr17ni13mo2ti

NT3 steel-cr17ni13mo3ti

NT3 steel-cr17ni7

NT4 stainless steel-301

NT3 steel-cr18ni10

NT4 stainless steel-18-10

NT3 steel-cr18ni10-l

NT3 steel-cr18ni10ti

NT4 stainless steel-321

NT3 steel-cr18ni11

NT4 steel-x6crni1811

NT3 steel-cr18ni11nb

NT4 stainless steel-347

NT3 steel-cr18ni11nbco

NT4 stainless steel-348

NT3 steel-cr18ni12

NT4 stainless steel-305

NT3 steel-cr18ni12ti

NT3 steel-cr18ni8

NT4 stainless steel-18-8

NT3 steel-cr18ni9

NT4 stainless steel-302

NT3 steel-cr18ni9ti

NT3 steel-cr19ni10

NT4 stainless steel-304

NT3 steel-cr19ni10-l

NT4 stainless steel-304l

NT3 steel-cr20ni11

NT4 stainless steel-308

NT3 steel-cr20ni11-l

NT4 stainless steel-308l

NT3 steel-cr21mn9ni6

NT4 stainless steel-21-6-9

NT3 steel-cr23ni14

NT4 stainless steel-309

NT4 stainless steel-309s

NT3 steel-cr23ni18

NT3 steel-cr25ni20

NT4 alloy-hk-40

NT4 stainless steel-310

NT3 steel-ni25cr20

NT4 stainless steel-20-25

NT3 steel-ni26cr15ti2movalb

NT4 alloy-a-286

NT2 carbon steels

NT3 steel-astm-a105

NT3 steel-astm-a106

NT3 steel-astm-a212

NT3 steel-astm-a285

NT3 steel-astm-a516

NT3 steel-astm-a533-b

NT3 steel-in-787

NT3 steel-sae-1045

NT2 croloy

NT3 steel-cr13

- NT4** stainless steel-410  
**NT3** steel-cr16  
**NT4** stainless steel-430  
**NT3** steel-cr18ni10  
**NT4** stainless steel-18-10  
**NT3** steel-cr2mo  
**NT4** steel-astm-a542  
**NT3** steel-cr5mo  
**NT2** ferritic steels  
**NT3** steel-cr12moniv  
**NT3** steel-cr13al  
**NT4** stainless steel-405  
**NT3** steel-cr16  
**NT4** stainless steel-430  
**NT3** steel-cr25  
**NT4** stainless steel-446  
**NT3** steel-cr9mo  
**NT3** steel-cr9monbv  
**NT2** high alloy steels  
**NT3** stainless steels  
**NT4** chromium-nickel steels  
**NT5** alloy-d-9  
**NT5** carpenter  
**NT5** chromium-nickel-molybdenum steels  
**NT6** alloy-m-813  
**NT6** steel-cr11ni10mo2ti-1  
**NT6** steel-cr15ni15motib  
**NT6** steel-cr16ni13monbv  
**NT6** steel-cr16ni15mo3nb  
**NT6** steel-cr16ni16monb  
**NT6** steel-cr16ni8mo2  
**NT7** stainless steel-16-8-2  
**NT6** steel-cr16ni9mo2  
**NT6** steel-cr17ni12mo3  
**NT7** stainless steel-316  
**NT6** steel-cr17ni12mo3-1  
**NT7** stainless steel-316l  
**NT7** stainless steel-zcnd17-13  
**NT6** steel-cr17ni12monb  
**NT6** steel-cr17ni13mo2ti  
**NT6** steel-cr17ni13mo3ti  
**NT6** steel-ni26cr15ti2movalb  
**NT7** alloy-a-286  
**NT5** durco  
**NT5** enduro  
**NT5** stainless steel-17-7ph  
**NT5** stainless steel-303  
**NT5** stainless steel-329  
**NT5** stainless steel-ph-15-7-mo  
**NT5** steel-cr17ni13  
**NT5** steel-cr17ni7  
**NT6** stainless steel-301  
**NT5** steel-cr18ni10  
**NT6** stainless steel-18-10  
**NT5** steel-cr18ni10-1  
**NT5** steel-cr18ni10ti  
**NT6** stainless steel-321  
**NT5** steel-cr18ni11  
**NT6** steel-x6crni1811  
**NT5** steel-cr18ni11nb  
**NT6** stainless steel-347  
**NT5** steel-cr18ni11nbco  
**NT6** stainless steel-348  
**NT5** steel-cr18ni12  
**NT6** stainless steel-305  
**NT5** steel-cr18ni12ti  
**NT5** steel-cr18ni8  
**NT6** stainless steel-18-8  
**NT5** steel-cr18ni9  
**NT6** stainless steel-302  
**NT5** steel-cr18ni9ti  
**NT5** steel-cr19ni10  
**NT6** stainless steel-304  
**NT5** steel-cr19ni10-1  
**NT6** stainless steel-304l  
**NT5** steel-cr20ni11  
**NT6** stainless steel-308  
**NT5** steel-cr20ni11-1  
**NT6** stainless steel-308l  
**NT5** steel-cr23ni14  
**NT6** stainless steel-309  
**NT6** stainless steel-309s  
**NT5** steel-cr23ni18  
**NT5** steel-cr23ni20  
**NT6** alloy-hk-40  
**NT6** stainless steel-310  
**NT5** steel-ni25cr20  
**NT6** stainless steel-20-25  
**NT5** steel-ni36cr12ti3al-1  
**NT5** timken alloys  
**NT4** chromium steels  
**NT5** chromium-molybdenum steels  
**NT6** chromium-nickel-molybdenum steels  
**NT7** alloy-m-813  
**NT7** steel-cr11ni10mo2ti-1  
**NT7** steel-cr15ni15motib  
**NT7** steel-cr16ni13monbv  
**NT7** steel-cr16ni15mo3nb  
**NT7** steel-cr16ni16monb  
**NT7** steel-cr16ni8mo2  
**NT8** stainless steel-16-8-2  
**NT7** steel-cr16ni9mo2  
**NT7** steel-cr17ni12mo3  
**NT8** stainless steel-316  
**NT7** steel-cr17ni12mo3-1  
**NT8** stainless steel-316l  
**NT8** stainless steel-zcnd17-13  
**NT7** steel-cr17ni12monb  
**NT7** steel-cr17ni13mo2ti  
**NT7** steel-cr17ni13mo3ti  
**NT7** steel-ni26cr15ti2movalb  
**NT8** alloy-a-286  
**NT5** magnet steel-ks  
**NT5** miduale  
**NT5** stainless steel-406  
**NT5** steel-cr10mo2  
**NT5** steel-cr12  
**NT6** stainless steel-403  
**NT5** steel-cr12moniv  
**NT5** steel-cr12mov  
**NT6** alloy-ht-9  
**NT5** steel-cr13  
**NT6** stainless steel-410  
**NT5** steel-cr13al  
**NT6** stainless steel-405  
**NT5** steel-cr16  
**NT6** stainless steel-430  
**NT5** steel-cr16ni  
**NT5** steel-cr17cu4ni4nb-1  
**NT6** stainless steel-17-4ph  
**NT5** steel-cr17mo  
**NT6** stainless steel-440  
**NT5** steel-cr17ni4mo3  
**NT5** steel-cr18  
**NT5** steel-cr25  
**NT6** stainless steel-446  
**NT5** steel-cr9mo  
**NT5** steel-cr9monbv  
**NT4** low carbon-high alloy steels  
**NT5** steel-cr11ni10mo2ti-1  
**NT5** steel-cr17cu4ni4nb-1  
**NT6** stainless steel-17-4ph  
**NT5** steel-cr17ni12mo3-1  
**NT6** stainless steel-316l  
**NT6** stainless steel-zcnd17-13  
**NT5** steel-cr18ni10-1  
**NT5** steel-cr19ni10-1  
**NT6** stainless steel-304l  
**NT5** steel-cr20ni11-1  
**NT6** stainless steel-308l  
**NT5** steel-ni36cr12ti3al-1  
**NT4** stainless steel-317  
**NT4** stainless steel-318  
**NT4** stainless steel-422  
**NT4** stainless steel-fv-548  
**NT4** stainless steel-jbk-75  
**NT6** stainless steel-308l  
**NT5** steel-cr23ni14  
**NT6** stainless steel-309  
**NT6** stainless steel-309s  
**NT5** steel-cr23ni18  
**NT5** steel-cr23ni20  
**NT6** alloy-hk-40  
**NT6** stainless steel-310  
**NT5** steel-ni25cr20  
**NT6** stainless steel-20-25  
**NT5** steel-ni36cr12ti3al-1  
**NT5** timken alloys  
**NT4** chromium steels  
**NT5** chromium-molybdenum steels  
**NT6** chromium-nickel-molybdenum steels  
**NT7** alloy-m-813  
**NT7** steel-cr11ni10mo2ti-1  
**NT7** steel-cr15ni15motib  
**NT7** steel-cr16ni13monbv  
**NT7** steel-cr16ni15mo3nb  
**NT7** steel-cr16ni16monb  
**NT7** steel-cr16ni8mo2  
**NT8** stainless steel-16-8-2  
**NT7** steel-cr16ni9mo2  
**NT7** steel-cr17ni12mo3  
**NT8** stainless steel-316  
**NT7** steel-cr17ni12mo3-1  
**NT8** stainless steel-316l  
**NT8** stainless steel-zcnd17-13  
**NT7** steel-cr17ni12monb  
**NT7** steel-cr17ni13mo2ti  
**NT7** steel-cr17ni13mo3ti  
**NT7** steel-ni26cr15ti2movalb  
**NT8** alloy-a-286  
**NT5** magnet steel-ks  
**NT5** miduale  
**NT5** stainless steel-406  
**NT5** steel-cr10mo2  
**NT5** steel-cr12  
**NT6** stainless steel-403  
**NT5** steel-cr12moniv  
**NT5** steel-cr12mov  
**NT6** alloy-ht-9  
**NT5** steel-cr13  
**NT6** stainless steel-410  
**NT5** steel-cr13al  
**NT6** stainless steel-405  
**NT5** steel-cr16  
**NT6** stainless steel-430  
**NT5** steel-cr16ni  
**NT5** steel-cr17cu4ni4nb-1  
**NT6** stainless steel-17-4ph  
**NT5** steel-cr17mo  
**NT6** stainless steel-440  
**NT5** steel-cr17ni4mo3  
**NT5** steel-cr18  
**NT5** steel-cr25  
**NT6** stainless steel-446  
**NT5** steel-cr9mo  
**NT5** steel-cr9monbv  
**NT4** low carbon-high alloy steels  
**NT5** steel-cr11ni10mo2ti-1  
**NT5** steel-cr17cu4ni4nb-1  
**NT6** stainless steel-17-4ph  
**NT5** steel-cr17ni12mo3-1  
**NT6** stainless steel-316l  
**NT6** stainless steel-zcnd17-13  
**NT5** steel-cr18ni10-1  
**NT5** steel-cr19ni10-1  
**NT6** stainless steel-304l  
**NT5** steel-cr20ni11-1  
**NT6** stainless steel-308l  
**NT5** steel-ni36cr12ti3al-1  
**NT4** stainless steel-317  
**NT4** stainless steel-318  
**NT4** stainless steel-422  
**NT4** stainless steel-fv-548  
**NT4** stainless steel-jbk-75  
**NT4** stainless steel-m-50  
**NT4** steel-cr21mn9ni6  
**NT5** stainless steel-21-6-9  
**NT4** sweetalloy  
**NT2** low alloy steels  
**NT3** steel-astm-a350  
**NT3** steel-astm-a387  
**NT3** steel-astm-a508  
**NT3** steel-astm-a533  
**NT3** steel-cr2mo  
**NT4** steel-astm-a542  
**NT3** steel-cr2moninb  
**NT3** steel-cr2mov  
**NT3** steel-cr2nimov  
**NT3** steel-cr5mo  
**NT3** steel-cralnimo  
**NT3** steel-crmo  
**NT3** steel-crmov  
**NT3** steel-crni  
**NT3** steel-mncumo  
**NT4** steel-astm-a537  
**NT3** steel-mnmo  
**NT4** steel-astm-a302  
**NT3** steel-mnnimo  
**NT4** steel-astm-a533-b  
**NT3** steel-mnnimov  
**NT3** steel-ni3cr  
**NT3** steel-ni3crmo  
**NT4** steel-astm-a543  
**NT3** steel-ni3crmov  
**NT3** steel-ni4crw  
**NT3** steel-nicr  
**NT3** steel-nicrmo  
**NT3** steel-nimocr  
**NT2** manganese steels  
**NT2** martensitic steels  
**NT3** maraging steels  
**NT3** steel-cr10mo2  
**NT3** steel-cr12  
**NT4** stainless steel-403  
**NT3** steel-cr12mov  
**NT4** alloy-ht-9  
**NT3** steel-cr13  
**NT4** stainless steel-410  
**NT3** steel-cr16ni  
**NT3** steel-cr17cu4ni4nb-1  
**NT4** stainless steel-17-4ph  
**NT3** steel-cr17mo  
**NT4** stainless steel-440  
**NT3** steel-cr18  
**NT2** nickel steels  
**NT3** sweetalloy  
**NT2** steel-astm-a572  
**RT** carbides

**CARBON BLACK**

\*BT1 carbon

**CARBON BURNING***INIS: 1978-08-30; ETDE: 1978-10-19**Astrophysical processes only.*

BT1 star burning

*RT* nucleosynthesis*RT* star evolution*RT* star models*RT* stars**CARBON-CARBON LYASES***INIS: 1986-12-03; ETDE: 1981-01-30**Code number 4.1.*

\*BT1 lyases

NT1 aldehyde-lyases

NT1 aldolases

NT1 carboxy-lyases

NT2 carboxylase

NT2 decarboxylases

NT2 ribulose diphosphate carboxylase

**CARBON COMPLEXES**

BT1 complexes

**CARBON COMPOUNDS**

NT1 carbides  
 NT2 aluminium carbides  
 NT2 barium carbides  
 NT2 beryllium carbides  
 NT2 boron carbides  
 NT2 cadmium carbides  
 NT2 calcium carbides  
 NT2 cerium carbides  
 NT2 cesium carbides  
 NT2 chromium carbides  
 NT2 cobalt carbides  
 NT2 copper carbides  
 NT2 dysprosium carbides  
 NT2 erbium carbides  
 NT2 europium carbides  
 NT2 gadolinium carbides  
 NT2 gallium carbides  
 NT2 germanium carbides  
 NT2 hafnium carbides  
 NT2 holmium carbides  
 NT2 iridium carbides  
 NT2 iron carbides  
 NT3 cementite  
 NT3 ni-hard  
 NT2 lanthanum carbides  
 NT2 lead carbides  
 NT2 lithium carbides  
 NT2 lutetium carbides  
 NT2 magnesium carbides  
 NT2 manganese carbides  
 NT2 molybdenum carbides  
 NT2 neodymium carbides  
 NT2 neptunium carbides  
 NT2 nickel carbides  
 NT2 niobium carbides  
 NT2 nitrogen carbides  
 NT2 osmium carbides  
 NT2 palladium carbides  
 NT2 platinum carbides  
 NT2 plutonium carbides  
 NT2 potassium carbides  
 NT2 praseodymium carbides  
 NT2 rhenium carbides  
 NT2 rhodium carbides  
 NT2 rubidium carbides  
 NT2 ruthenium carbides  
 NT2 samarium carbides  
 NT2 scandium carbides  
 NT2 silicon carbides  
 NT2 sodium carbides  
 NT2 strontium carbides  
 NT2 tantalum carbides  
 NT2 technetium carbides  
 NT2 terbium carbides  
 NT2 thallium carbides  
 NT2 thorium carbides  
 NT2 thulium carbides  
 NT2 tin carbides  
 NT2 titanium carbides  
 NT2 tungsten carbides  
 NT2 uranium carbides  
 NT2 vanadium carbides  
 NT2 ytterbium carbides  
 NT2 yttrium carbides  
 NT2 zinc carbides  
 NT2 zirconium carbides  
 NT1 carbon 14 compounds  
 NT1 carbon fluorides  
 NT1 carbon nitrides  
 NT1 carbon oxides  
 NT2 carbon dioxide  
 NT2 carbon monoxide  
 NT1 carbon oxysulfide  
 NT1 carbon sulfides  
 NT1 carbonates  
 NT2 americium carbonates  
 NT2 ammonium carbonates  
 NT3 auc

NT2 barium carbonates  
 NT2 beryllium carbonates  
 NT2 cadmium carbonates  
 NT2 calcium carbonates  
 NT2 cerium carbonates  
 NT2 cesium carbonates  
 NT2 cobalt carbonates  
 NT2 copper carbonates  
 NT2 erbium carbonates  
 NT2 europium carbonates  
 NT2 gadolinium carbonates  
 NT2 holmium carbonates  
 NT2 iron carbonates  
 NT2 lanthanum carbonates  
 NT2 lead carbonates  
 NT2 lithium carbonates  
 NT2 lutetium carbonates  
 NT2 magnesium carbonates  
 NT2 manganese carbonates  
 NT2 molybdenum carbonates  
 NT2 neodymium carbonates  
 NT2 neptunium carbonates  
 NT2 nickel carbonates  
 NT2 plutonium carbonates  
 NT2 polycarbonates  
 NT2 potassium carbonates  
 NT2 praseodymium carbonates  
 NT2 rhenium carbonates  
 NT2 rubidium carbonates  
 NT2 samarium carbonates  
 NT2 scandium carbonates  
 NT2 sodium carbonates  
 NT2 strontium carbonates  
 NT2 terbium carbonates  
 NT2 thallium carbonates  
 NT2 thorium carbonates  
 NT2 uranium carbonates  
 NT2 uranyl carbonates  
 NT2 ytterbium carbonates  
 NT2 yttrium carbonates  
 NT2 zinc carbonates  
 NT2 zirconium carbonates  
 NT1 carbonic acid  
 NT1 carbonitrides  
 NT1 carbonium compounds  
 NT1 carboranes  
 NT1 oxycarbides  
 RT soot

**CARBON CYCLE**

*INIS: 1982-07-22; ETDE: 1979-03-05*  
 RT air-water interactions  
 RT carbon dioxide fixation  
 RT carbon sinks  
 RT carbon sources  
 RT deforestation  
 RT ecological concentration  
 RT ecosystems  
 RT metabolism  
 RT mineral cycling  
 RT photosynthesis  
 RT ribulose diphosphate carboxylase

**CARBON DIOXIDE**

\*BT1 carbon oxides  
 RT carbon dioxide fixation  
 RT carbon sequestration  
 RT greenhouse gases  
 RT inert atmosphere  
 RT landfill gas  
 RT phosphoenolpyruvate

**carbon dioxide acceptor process**

2000-04-12

*Consolidation coal company process for producing high btu gas by catalytic methanation of synthesis gas. Heat for the reaction of coal and steam is supplied by reacting the carbon dioxide formed with calcined dolomite.*

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

USE sng processes

**CARBON DIOXIDE COOLED REACTORS**

\*BT1 gas cooled reactors  
 NT1 berkeley reactor  
 NT1 bohunice a-1 reactor  
 NT1 bradwell reactor  
 NT1 bugey-1 reactor  
 NT1 calder hall a-1 reactor  
 NT1 calder hall a-2 reactor  
 NT1 calder hall b-3 reactor  
 NT1 calder hall b-4 reactor  
 NT1 cesar reactor  
 NT1 chapelcross-1 reactor  
 NT1 chapelcross-2 reactor  
 NT1 chapelcross-3 reactor  
 NT1 chapelcross-4 reactor  
 NT1 chinon-1 reactor  
 NT1 chinon-2 reactor  
 NT1 chinon-3 reactor  
 NT1 connah quay-b reactor  
 NT1 dungeness-a reactor  
 NT1 dungeness-b reactor  
 NT1 el-2 reactor  
 NT1 el-4 reactor  
 NT1 g-2 reactor  
 NT1 g-3 reactor  
 NT1 hartlepool reactor  
 NT1 hector reactor  
 NT1 hero reactor  
 NT1 heysham-a reactor  
 NT1 heysham-b reactor  
 NT1 hinkley point-a reactor  
 NT1 hinkley point-b reactor  
 NT1 hunterston-a reactor  
 NT1 hunterston-b reactor  
 NT1 latina reactor  
 NT1 lucens reactor  
 NT1 niederaichbach reactor  
 NT1 oldbury-a reactor  
 NT1 oldbury-b reactor  
 NT1 saint laurent-1 reactor  
 NT1 saint laurent-2 reactor  
 NT1 sizewell-a reactor  
 NT1 tokai-mura reactor  
 NT1 torness reactor  
 NT1 trawsfynydd reactor  
 NT1 vandellos reactor  
 NT1 wagr reactor  
 NT1 wylfa reactor  
 RT agr type reactors  
 RT gcr type reactors  
 RT magnox type reactors

**CARBON DIOXIDE FIXATION**

1982-02-10

UF fixation (carbon dioxide)  
 RT air  
 RT c4 species  
 RT calvin cycle species  
 RT carbon cycle  
 RT carbon dioxide  
 RT carbon sources  
 RT metabolism  
 RT photosynthesis  
 RT plant growth  
 RT ribulose diphosphate carboxylase



**CARBON DIOXIDE INJECTION**

INIS: 1992-01-15; ETDE: 1978-08-07

- UF *co2 flooding*  
 \*BT1 miscible-phase displacement  
 RT enhanced recovery  
 RT oil wells  
 RT well stimulation

**CARBON DIOXIDE LASERS**

- \*BT1 gas lasers  
 RT antares facility  
 RT helios facility

**CARBON FIBERS**

INIS: 1983-03-15; ETDE: 1975-11-11

- UF *graphite fibers*  
 BT1 fibers  
 RT carbon  
 RT graphite

**CARBON FLUORIDES**

- BT1 carbon compounds  
 \*BT1 fluorides

**CARBON-GROUP TRANSFERASES**

INIS: 1986-12-03; ETDE: 1991-08-27

- \*BT1 transferases  
 NT1 methyl transferases

**CARBON IONS**

- \*BT1 ions

**CARBON ISOTOPES**

1999-07-16

- BT1 isotopes  
 NT1 carbon 10  
 NT1 carbon 11  
 NT1 carbon 12  
 NT1 carbon 13  
 NT1 carbon 14  
 NT1 carbon 15  
 NT1 carbon 16  
 NT1 carbon 17  
 NT1 carbon 18  
 NT1 carbon 19  
 NT1 carbon 20  
 NT1 carbon 22  
 NT1 carbon 8  
 NT1 carbon 9

**CARBON METERS**

INIS: 1978-01-16; ETDE: 1977-08-09

- \*BT1 meters  
 RT carbon  
 RT chemical analysis

**CARBON MONOXIDE**

- UF *cosorb process*  
 \*BT1 carbon oxides  
 RT bosch process  
 RT carbonyls  
 RT carboxyhemoglobin

**CARBON MONOXIDE LASERS**

- \*BT1 gas lasers

**CARBON NITRIDES**

- BT1 carbon compounds  
 \*BT1 nitrides

**carbon-nitrogen-oxygen cycle**

INIS: 1978-09-28; ETDE: 1978-10-19

- USE *eno cycle*

**carbon oxide sulfide**

INIS: 2000-04-12; ETDE: 1975-09-11

- USE *carbon oxysulfide*

**CARBON OXIDES**

- BT1 carbon compounds  
 \*BT1 oxides  
 NT1 carbon dioxide  
 NT1 carbon monoxide

- RT oxycarbides

**carbon oxychloride**

- USE *phosgene*

**CARBON-OXYGEN LYASES**

INIS: 1986-12-03; ETDE: 1981-01-30

Code number 4.2.

- UF *polysaccharide-lyases*  
 \*BT1 lyases  
 NT1 hyaluronidase  
 NT1 hydro-lyases  
 NT2 carbonic anhydrase

**CARBON OXYSULFIDE**

INIS: 2000-04-12; ETDE: 1975-09-11

- UF *carbon oxide sulfide*  
 UF *carbonyl sulfide*  
 BT1 carbon compounds  
 BT1 sulfur compounds  
 RT carbonic acid derivatives

**CARBON SEQUESTRATION**

2004-01-14

*Removal of carbon and its compounds from the environment and deposition, for example, into geological formations, to keep them away from the atmosphere.*

- UF *sequestration (carbon oxides)*  
 \*BT1 air pollution control  
 BT1 separation processes  
 RT carbon dioxide  
 RT carbon sinks  
 RT greenhouse gases

**CARBON SINKS**

INIS: 1992-08-28; ETDE: 1981-08-04

- BT1 sinks  
 RT carbon cycle  
 RT carbon sequestration  
 RT carbon sources  
 RT mineral cycling

**CARBON SOURCES**

INIS: 1992-08-28; ETDE: 1986-06-12

- RT biosphere  
 RT carbon cycle  
 RT carbon dioxide fixation  
 RT carbon sinks  
 RT pollution sources

**CARBON STARS**

- \*BT1 main sequence stars

**CARBON STEELS**

1996-11-13

*Steels with carbon as the only alloying element.*

- UF *steel-08g2sfb*  
 UF *steel-astm-a350 (gr 1)*  
 UF *steel-astm-a350 (gr 2)*  
 UF *steel-astm-a416*  
 UF *steel-sae-1006*  
 \*BT1 steels  
 NT1 steel-astm-a105  
 NT1 steel-astm-a106  
 NT1 steel-astm-a212  
 NT1 steel-astm-a285  
 NT1 steel-astm-a516  
 NT1 steel-astm-a533-b  
 NT1 steel-in-787  
 NT1 steel-sae-1045

**CARBON SULFIDES**

- UF *sulfur carbides*  
 BT1 carbon compounds  
 \*BT1 sulfides

**CARBON TETRACHLORIDE**

1985-07-22

(Prior to August 1985  
 TETRACHLOROMETHANE was used.)

- UF *tetrachloromethane*  
 \*BT1 chlorinated aliphatic hydrocarbons  
 RT methane  
 RT organic solvents

**CARBON TETRAFLUORIDE**

INIS: 1985-07-22; ETDE: 1976-08-04

(Prior to August 1985  
 TETRAFLUOROMETHANE was used.)

- UF *tetrafluoromethane*  
 \*BT1 fluorinated aliphatic hydrocarbons  
 RT methane

**CARBONACEOUS MATERIALS**

1982-07-22

*Materials rich in carbon.*

- BT1 materials  
 NT1 bituminous materials  
 NT2 kerogen  
 NT2 oil sands  
 NT2 oil shales  
 NT3 black shales  
 NT1 coal  
 NT2 black coal  
 NT3 anthracite  
 NT3 bituminous coal  
 NT2 brown coal  
 NT3 lignite  
 NT2 coal fines  
 NT2 sapropelic coal  
 NT3 boghead coal  
 NT4 torbanite  
 NT3 cannel coal  
 NT2 subbituminous coal  
 RT organic matter

**CARBONATE MINERALS**

INIS: 1996-11-13; ETDE: 1982-05-12

- UF *andersonite*  
 UF *bayleyite*  
 UF *cordylite*  
 UF *liebigite*  
 UF *rutherfordite*  
 UF *schroeckingerite*  
 UF *sharpite*  
 BT1 minerals  
 NT1 ankerite  
 NT1 aragonite  
 NT1 calcite  
 NT1 dawsonite  
 NT1 diderichite  
 NT1 dolomite  
 NT1 nahcolite  
 NT1 shortite  
 NT1 siderite  
 NT1 trona  
 RT calcium carbonates  
 RT cerium carbonates  
 RT iron carbonates  
 RT lanthanum carbonates  
 RT magnesium carbonates  
 RT manganese carbonates  
 RT shales  
 RT sodium carbonates  
 RT uranium carbonates

**CARBONATE ROCKS**

INIS: 1985-12-10; ETDE: 1976-08-04

*Rocks composed principally of carbonates, usually more than 50% by weight. See also CARBONATE MINERALS.*

- \*BT1 sedimentary rocks  
 NT1 limestone  
 NT2 travertine  
 RT reservoir rock

**CARBONATES**

1997-06-19

- UF bismuth carbonates  
 UF curium carbonates  
 UF radium carbonates  
 UF silver carbonates  
 SF ferroan  
 BT1 carbon compounds  
 BT1 oxygen compounds  
 NT1 americium carbonates  
 NT1 ammonium carbonates  
 NT2 auc  
 NT1 barium carbonates  
 NT1 beryllium carbonates  
 NT1 cadmium carbonates  
 NT1 calcium carbonates  
 NT1 cerium carbonates  
 NT1 cesium carbonates  
 NT1 cobalt carbonates  
 NT1 copper carbonates  
 NT1 erbium carbonates  
 NT1 europium carbonates  
 NT1 gadolinium carbonates  
 NT1 holmium carbonates  
 NT1 iron carbonates  
 NT1 lanthanum carbonates  
 NT1 lead carbonates  
 NT1 lithium carbonates  
 NT1 lutetium carbonates  
 NT1 magnesium carbonates  
 NT1 manganese carbonates  
 NT1 molybdenum carbonates  
 NT1 neodymium carbonates  
 NT1 neptunium carbonates  
 NT1 nickel carbonates  
 NT1 plutonium carbonates  
 NT1 polycarbonates  
 NT1 potassium carbonates  
 NT1 praseodymium carbonates  
 NT1 rhenium carbonates  
 NT1 rubidium carbonates  
 NT1 samarium carbonates  
 NT1 scandium carbonates  
 NT1 sodium carbonates  
 NT1 strontium carbonates  
 NT1 terbium carbonates  
 NT1 thallium carbonates  
 NT1 thorium carbonates  
 NT1 uranium carbonates  
 NT1 uranyl carbonates  
 NT1 ytterbium carbonates  
 NT1 yttrium carbonates  
 NT1 zinc carbonates  
 NT1 zirconium carbonates  
 RT acid carbonates  
 RT acid neutralizing capacity

**CARBONIC ACID**

INIS: 1982-04-14; ETDE: 1977-05-07

- BT1 carbon compounds  
 \*BT1 inorganic acids  
 BT1 oxygen compounds

**CARBONIC ACID DERIVATIVES**

1996-10-23

- UF guanethidine  
 BT1 organic compounds  
 NT1 carbamates  
 NT2 dedtc  
 NT2 urethane  
 NT1 carbazides  
 NT1 carbazones  
 NT2 dithizone  
 NT1 cyanamides  
 NT1 cyanates  
 NT1 dpca  
 NT1 guanidines  
 NT2 mibg  
 NT1 isocyanates

- NT1 isonitriles  
 NT1 isothiocyanates  
 NT1 mercaptoethylguanidine  
 NT1 methyl nitrosourea  
 NT1 phosgene  
 NT1 semicarbazides  
 NT1 semicarbazones  
 NT1 thiocyanates  
 NT2 ammonium thiocyanates  
 NT1 thioureas  
 NT2 beta-aminoethyl isothiurea  
 NT2 thiourea  
 NT1 urea  
 RT carbon oxysulfide

**CARBONIC ACID ESTERS**

INIS: 2000-04-12; ETDE: 1975-12-16

- UF propylene carbonate  
 \*BT1 esters

**CARBONIC ANHYDRASE**

- \*BT1 hydro-lyases

**CARBONIFEROUS PERIOD**

INIS: 1992-05-22; ETDE: 1977-10-20

(Prior to April 1990 this material was indexed to MISSISSIPPIAN PERIOD or PENNSYLVANIAN PERIOD.)

- UF mississippian period  
 UF pennsylvanian period  
 \*BT1 paleozoic era

**CARBONITRIDES**

1982-01-14

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

- BT1 carbon compounds  
 BT1 nitrogen compounds  
 RT carbides  
 RT nitrides

**CARBONIUM COMPOUNDS**

INIS: 2000-04-12; ETDE: 1983-01-21

- BT1 carbon compounds  
 RT cations

**CARBONIZATION**

- \*BT1 decomposition  
 NT1 coking  
 NT1 electrocarbonization  
 RT clean coke process  
 RT coalcon process  
 RT coke ovens  
 RT consol stirred bed process  
 RT decarbonization  
 RT graphitization

**carbonyl chloride**

- USE phosgene

**CARBONYL RADICALS**

- BT1 radicals  
 RT carbonyls

**carbonyl sulfide**

INIS: 2000-04-12; ETDE: 1976-11-01

- USE carbon oxysulfide

**CARBONYLATION**

INIS: 1981-09-17; ETDE: 1978-07-05

- UF hydroformylation  
 BT1 chemical reactions

**CARBONYLS**

Only for compounds of metals with carbonyl radicals.

- RT carbon monoxide  
 RT carbonyl radicals  
 RT metals

**CARBORANES**

INIS: 1978-05-19; ETDE: 1977-01-28

- BT1 carbon compounds  
 \*BT1 organic boron compounds  
 RT boranes

**CARBOWAX**

- \*BT1 polyethylene glycols  
 \*BT1 waxes

**carbox process**

INIS: 2000-04-12; ETDE: 1979-11-07

Dry reprocessing of U and Th carbide fuel. (Prior to September 1994, this was a valid ETDE descriptor.)

- USE reprocessing

**CARBOXY-LYASES**

INIS: 1993-08-03; ETDE: 1981-01-30

Code number 4.1.1.

- \*BT1 carbon-carbon lyases  
 NT1 carboxylase  
 NT1 decarboxylases  
 NT1 ribulose diphosphate carboxylase

**CARBOXYHEMOGLOBIN**

INIS: 1999-04-16; ETDE: 1976-07-07

- RT carbon monoxide  
 RT erythrocytes  
 RT heme  
 RT hemoglobin  
 RT respiration

**CARBOXYLASE**

- \*BT1 carboxy-lyases

**CARBOXYLATION**

- BT1 chemical reactions  
 RT decarboxylation  
 RT lyases

**CARBOXYLESTERASES**

INIS: 1986-12-03; ETDE: 1981-01-12

Code number 3.1.1.

- \*BT1 esterases  
 NT1 cholinesterase  
 NT1 lipases

**CARBOXYLIC ACID ESTERS**

1996-07-23

(Prior to March 1997 TARTARIC ACID ESTERS was a valid ETDE descriptor.)

- UF tartaric acid esters  
 \*BT1 esters  
 NT1 acetic acid esters  
 NT2 methyl acetate  
 NT2 polyvinyl acetate  
 NT2 vinyl acetate  
 NT1 acetoacetic acid esters  
 NT1 acrylic acid esters  
 NT1 bromosulphophthalein  
 NT1 carbamic acid esters  
 NT1 citric acid esters  
 NT1 glucoheptonate  
 NT1 malathion  
 NT1 methacrylic acid esters  
 NT1 oxalic acid esters  
 NT1 phenolphthalein  
 NT1 retinoic acid  
 RT carboxylic acids

**CARBOXYLIC ACID SALTS**

- NT1 acetates  
 NT1 acetoacetates  
 NT1 acrylates  
 NT1 carbamates  
 NT2 dedtc  
 NT2 urethane  
 NT1 citrates  
 NT1 formates  
 NT1 lactates  
 NT1 methacrylates

NT1 oxalates  
 NT1 phthalates  
 NT1 stearates  
 NT1 tartrates  
 NT2 rochelle salt  
 RT carboxylic acids  
 RT esters

**CARBOXYLIC ACIDS**

1996-10-23

(ACID HALIDES and TRICARBALLYLIC

ACID have been valid ETDE descriptors.)

UF acid halides  
 UF aldehydo acids  
 UF alkanoic acids  
 UF alkenoic acids  
 UF aromatic acids  
 UF fatty acids  
 UF tricarballylic acid  
 \*BT1 organic acids  
 NT1 amino acids  
 NT2 alanines  
 NT3 alanine-alpha  
 NT4 alanine-l  
 NT3 alanine-beta  
 NT2 aminobutyric acid  
 NT2 aminolevulinic acid  
 NT2 anthranilic acid  
 NT2 arginine  
 NT2 asparagine  
 NT2 aspartic acid  
 NT2 betaine  
 NT2 carnitine  
 NT2 cdta  
 NT2 citrulline  
 NT2 creatine  
 NT2 cysteine  
 NT2 cystine  
 NT2 dcta  
 NT2 diiodotyrosine  
 NT2 dopa  
 NT2 dtpa  
 NT2 eddha  
 NT2 edta  
 NT2 ethionine  
 NT2 folic acid  
 NT2 glutamic acid  
 NT3 pyridoxylideneglutamate  
 NT2 glutamine  
 NT2 glycine  
 NT2 glycyglycine  
 NT2 hedta  
 NT2 heida  
 NT2 hippuric acid  
 NT2 histidine  
 NT2 homocysteine  
 NT2 hydroxyproline  
 NT2 hydroxytryptophan  
 NT2 kynurenine  
 NT2 leucine  
 NT2 lysine  
 NT2 methionine  
 NT2 methyl red  
 NT2 methyl tyrosine  
 NT2 mimosine  
 NT2 mpg  
 NT2 nta  
 NT2 ornithine  
 NT2 paba  
 NT2 pantothenic acid  
 NT2 penicillamine  
 NT2 phenylalanine  
 NT2 phosphocreatine  
 NT2 proline  
 NT2 sarcosine  
 NT2 serine  
 NT2 tetaha  
 NT2 threonine  
 NT2 thyronine

NT2 thyroxine  
 NT2 tryptophan  
 NT2 tyrosine  
 NT2 valine  
 NT1 bile acids  
 NT2 cholic acid  
 NT1 carminic acid  
 NT1 dicarboxylic acids  
 NT2 adipic acid  
 NT2 fumaric acid  
 NT2 glutaric acid  
 NT2 itaconic acid  
 NT2 maleic acid  
 NT2 malonic acid  
 NT2 oxalic acid  
 NT2 phthalic acid  
 NT2 sebamic acid  
 NT2 succinic acid  
 NT2 terephthalic acid  
 NT1 egta  
 NT1 glyoxylic acid  
 NT1 heterocyclic acids  
 NT2 bilirubin  
 NT2 biotin  
 NT2 histidine  
 NT2 hydroxyproline  
 NT2 lysergic acid  
 NT2 nicotinic acid  
 NT2 ototic acid  
 NT2 picolinic acid  
 NT2 porphyrins  
 NT3 chlorins  
 NT3 chlorophyll  
 NT3 hematoporphyrins  
 NT3 heme  
 NT3 hemoglobin  
 NT4 methemoglobin  
 NT3 hemosiderin  
 NT3 myoglobin  
 NT3 protoporphyrins  
 NT2 proline  
 NT2 rhodamines  
 NT2 thioctic acid  
 NT2 tryptophan  
 NT2 urocanic acid  
 NT1 hydroxy acids  
 NT2 acetylsalicylic acid  
 NT2 benzilic acid  
 NT2 carnitine  
 NT2 citric acid  
 NT2 diiodotyrosine  
 NT2 dopa  
 NT2 eddha  
 NT2 eosin  
 NT2 fluorescein  
 NT3 erythrosine  
 NT2 galacturonic acid  
 NT2 gallic acid  
 NT2 gibberlic acid  
 NT2 gluconic acid  
 NT2 glucuronic acid  
 NT2 glyceric acid  
 NT2 glycolic acid  
 NT2 hedta  
 NT2 heida  
 NT2 hydroxyproline  
 NT2 hydroxytryptophan  
 NT2 lactic acid  
 NT2 malic acid  
 NT2 mandelic acid  
 NT2 methyl tyrosine  
 NT2 mevalonic acid  
 NT2 pantothenic acid  
 NT2 rose bengal  
 NT2 salicylic acid  
 NT2 serine  
 NT2 shikimic acid  
 NT2 tartaric acid  
 NT2 threonine

NT2 thyronine  
 NT2 tyrosine  
 NT1 keto acids  
 NT2 acetoacetic acid  
 NT2 kynurenine  
 NT2 levulinic acid  
 NT2 pyruvic acid  
 NT1 mellitic acid  
 NT1 monocarboxylic acids  
 NT2 abscisic acid  
 NT2 acetic acid  
 NT2 acrylic acid  
 NT2 arachidonic acid  
 NT2 benzoic acid  
 NT2 butyric acid  
 NT2 chlorambucil  
 NT2 cinnamic acid  
 NT2 crotonic acid  
 NT2 decanoic acid  
 NT2 dodecanoic acid  
 NT2 eicosanoic acid  
 NT2 formic acid  
 NT2 glycolic acid  
 NT2 heptanoic acid  
 NT2 hexadecanoic acid  
 NT2 hexanoic acid  
 NT2 isobutyric acid  
 NT2 isovaleric acid  
 NT2 linoleic acid  
 NT2 linolenic acid  
 NT2 methacrylic acid  
 NT2 nicotinic acid  
 NT2 nonanoic acid  
 NT2 octadecanoic acid  
 NT2 octanoic acid  
 NT2 oleic acid  
 NT2 pethidine  
 NT2 pivalic acid  
 NT2 propionic acid  
 NT2 sorbic acid  
 NT2 tetradecanoic acid  
 NT2 uronic acids  
 NT2 valeric acid  
 NT1 tannic acid  
 RT alginic acid  
 RT carboxylic acid esters  
 RT carboxylic acid salts  
 RT ketenes  
 RT metabolites  
 RT nitriles

**carboxypeptidase**

1985-04-23

(Prior to April 1985 this was a valid descriptor.)

USE carboxypeptidases

**CARBOXYPEPTIDASES**

INIS: 1985-04-23; ETDE: 1981-01-30

(Prior to April 1985 the singular form was used.)

UF carboxypeptidase

\*BT1 peptide hydrolases

**carburan**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE bitumens

USE uranium minerals

**CARBURETORS**

INIS: 2000-04-12; ETDE: 1978-10-25

BT1 fuel systems

RT fuel-air ratio

RT internal combustion engines

RT spark ignition engines

**CARBURETTED WATER GAS**

2000-04-12

*Water gas enriched with gasified hydrocarbon oil.*\*BT1 intermediate btu gas  
RT water gas**CARBURIZATION**\*BT1 surface hardening  
RT decarburization**CARBYNES**

INIS: 1983-03-15; ETDE: 1982-02-11

*Triply bonded allotropes of carbon.*\*BT1 carbon  
BT1 radicals  
RT reaction intermediates**CARCINOEMBRYONIC ANTIGEN**

INIS: 1982-09-21; ETDE: 1980-10-07

UF cea (antigen)

BT1 antigens  
RT embryos  
RT neoplasms**CARCINOGEN SCREENING**

INIS: 2000-04-12; ETDE: 1981-01-09

UF screening (carcinogen)

RT bioassay  
RT carcinogenesis  
RT carcinogens  
RT mutagen screening  
RT testing**CARCINOGENESIS**BT1 pathogenesis  
NT1 leukemogenesis  
RT carcinogen screening  
RT carcinogens  
RT dna adducts  
RT neoplasms  
RT oncogenes  
RT oncogenic transformations  
RT oncogenic viruses**CARCINOGENS**UF cycasin  
RT acetylaminofluorenes  
RT carcinogen screening  
RT carcinogenesis  
RT dimethylbenzanthracene  
RT dna adducts  
RT environmental exposure  
RT mutagens  
RT neoplasms  
RT nitrosamines  
RT occupational exposure  
RT oncogenic transformations  
RT phorbol esters  
RT polycyclic aromatic hydrocarbons  
RT radiation equivalence  
RT radiomimetic drugs  
RT teratogens  
RT tumor promoters**CARCINOMAS**UF adenocarcinomas  
UF bronchogenic carcinoma  
UF pulmonary cancer  
UF uterine cervix carcinoma  
\*BT1 neoplasms  
NT1 adenomas  
NT1 angiomas  
NT1 epitheliomas  
NT2 melanomas  
NT1 hepatomas  
RT epithelium**card punches**

2000-04-12

(Prior to September 1994, this was a valid ETDE descriptor.)

SEE data processing

**CARDIAC GLYCOSIDES**

INIS: 2000-03-27; ETDE: 1981-04-20

UF cardiotonic glycosides

\*BT1 cardiotonics  
\*BT1 glycosides  
NT1 digitalis glycosides  
NT2 digitoxin  
NT2 digoxin  
NT1 strophanthins  
NT2 ouabain**cardiac output**

USE blood circulation

**CARDIAC PACEMAKERS**

1995-11-15

UF pacemakers  
RT artificial organs  
RT electric batteries  
RT heart  
RT mechanical heart  
RT prostheses  
RT radioisotope batteries**CARDIOGRAPHY**BT1 diagnostic techniques  
NT1 radiocardiography  
RT blood circulation  
RT blood pressure  
RT electrocardiograms  
RT heart**CARDIOLIPIN**

\*BT1 phospholipids

**cardiopulmonary resuscitation**

INIS: 2000-04-12; ETDE: 1983-04-07

(Prior to September 1994, this was a valid ETDE descriptor.)

USE first aid

**cardiotonic glycosides**

USE cardiac glycosides

**CARDIOTONICS**UF strophanthin  
\*BT1 cardiovascular agents  
NT1 adrenaline  
NT1 cardiac glycosides  
NT2 digitalis glycosides  
NT3 digitoxin  
NT3 digoxin  
NT2 strophanthins  
NT3 ouabain  
NT1 dopamine  
NT1 noradrenaline  
RT heart  
RT steroids**CARDIOVASCULAR AGENTS**

INIS: 1984-05-24; ETDE: 1981-04-20

BT1 drugs  
NT1 antihypertensive agents  
NT2 reserpine  
NT1 cardiotonics  
NT2 adrenaline  
NT2 cardiac glycosides  
NT3 digitalis glycosides  
NT4 digitoxin  
NT4 digoxin  
NT3 strophanthins  
NT4 ouabain  
NT2 dopamine  
NT2 noradrenaline  
NT1 vasoconstrictorsNT2 angiotensin  
NT2 ephedrine  
NT1 vasodilators  
NT2 dipyridamole  
NT2 theobromine  
NT2 theophylline  
RT blood vessels  
RT cardiovascular diseases  
RT cardiovascular system  
RT heart  
RT vasoconstriction  
RT vasodilation**CARDIOVASCULAR DISEASES**UF heart disease  
BT1 diseases  
NT1 arteriosclerosis  
NT1 hypertension  
NT1 ischemia  
NT1 myocardial infarction  
NT1 nephrosclerosis  
NT1 telangiectasis  
NT1 thrombosis  
RT cardiovascular agents  
RT cardiovascular system  
RT emboli  
RT heart failure  
RT vascular diseases**CARDIOVASCULAR SYSTEM**NT1 blood vessels  
NT2 arteries  
NT3 aorta  
NT3 carotid arteries  
NT3 cerebral arteries  
NT3 coronaries  
NT2 capillaries  
NT2 veins  
NT3 portal system  
NT1 heart  
NT2 myocardium  
NT2 pericardium  
RT blood circulation  
RT blood pressure  
RT cardiovascular agents  
RT cardiovascular diseases  
RT lymphatic system  
RT organs**CARGO**

INIS: 1992-06-30; ETDE: 1979-11-23

UF freight  
RT materials handling  
RT transport**CARIBBEAN SEA**\*BT1 atlantic ocean  
NT1 gulf of mexico  
NT2 galveston bay  
NT2 san antonio bay  
RT west indies**caribou**

USE deer

**CARIES**

INIS: 1975-09-16; ETDE: 1975-10-28

BT1 pathological changes  
RT dentistry  
RT teeth**carl still process**

INIS: 2000-04-12; ETDE: 1979-01-30

*Process in which ammonia water adsorbs hydrogen sulfide. The acid gas is fed to a sulfuric acid production plant.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**carlson method**

ETDE: 1975-07-29

USE discrete ordinate method

**carlton power reactor**

USE kewaunee reactor

**CARMINIC ACID**

\*BT1 anthraquinones

\*BT1 carboxylic acids

\*BT1 hydroxy compounds

RT dyes

**CARNALLITE**

\*BT1 halide minerals

RT magnesium chlorides

RT potassium chlorides

**CARNATIONS**

\*BT1 magnoliopsida

**CARNITINE**

UF novain

UF vitamin b-1

\*BT1 amino acids

\*BT1 hydroxy acids

\*BT1 vitamin b group

RT betaine

**CARNOT CYCLE**

BT1 thermodynamic cycles

RT thermodynamics

**CARNOTITE**

\*BT1 uranium minerals

RT uranium vanadates

**carolina power light robinson-2 reactor**

1993-11-04

USE robinson-2 reactor

**carolinas virginia tube reactor**

1993-11-04

USE cvtr reactor

**carotenes**

2003-11-05

USE carotenoids

**CAROTENOIDS**

UF carotenes

\*BT1 hydrocarbons

BT1 pigments

\*BT1 terpenes

RT vitamin a

RT vitamins

**CAROTID ARTERIES**

\*BT1 arteries

RT head

RT neck

**CARPENTER**

2000-04-12

\*BT1 chromium-nickel steels

**carpetbag event**

1994-10-14

A test made during OPERATION EMERY. (Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**carpocapsa pomonella**

INIS: 1975-12-19; ETDE: 1979-05-03

USE codling moth

**CARPOOLING**

INIS: 2000-04-12; ETDE: 1976-04-19

SF ridesharing

NTI vanpooling

RT automobiles

RT energy conservation

RT land transport

RT roads

RT transportation systems

**CARRIER DENSITY**

UF density (carrier)

RT charge carriers

RT current density

**CARRIER-FREE ISOTOPES**

1999-07-16

BT1 isotopes

RT labelled compounds

RT labelling

RT radioisotopes

RT trace amounts

**CARRIER LIFETIME**

BT1 lifetime

RT charge carriers

**CARRIER MOBILITY**

BT1 mobility

RT charge carriers

RT electric conductivity

RT electron transfer

**CARRIERS**

Not for CHARGE CARRIERS.

RT liposomes

RT radioisotopes

RT radionuclide kinetics

RT stable isotopes

**carrizo mountains**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE mountains

**CARROTS**

\*BT1 magnoliopsida

\*BT1 vegetables

**cars**

ETDE: 2002-06-13

USE automobiles

**cars (spectroscopy)**

INIS: 1986-04-04; ETDE: 2002-06-13

Coherent Anti-stokes Raman Spectroscopy.

USE raman spectroscopy

**CARTELS**

INIS: 1996-08-05; ETDE: 1977-09-19

Voluntary, often international, combinations of independent private enterprises supplying like commodities or services that agree to limit their competitive activities.

RT competition

RT embargoes

RT market

RT monopolies

RT opec

RT trade

**CARTESIAN COORDINATES**

BT1 coordinates

**CARTILAGE**

UF disks (intervertebral)

UF intervertebral disks

\*BT1 connective tissue

RT bone joints

**casaccia rana reactor**

USE rana reactor

**casaccia rospo reactor**

1986-10-29

USE rospo reactor

**cascade (extraction)**

USE extraction columns

**CASCADE IMPACTORS**

RT aerosol monitoring

RT air pollution monitors

RT air samplers

**CASCADE MOUNTAINS**

INIS: 1997-06-17; ETDE: 1982-09-10

BT1 mountains

NT1 mt baker

NT1 mt hood

NT1 mt st helens

RT california

RT oregon

RT sierra nevada colorado

RT washington

**CASCADE REACTORS**

INIS: 1999-04-19; ETDE: 1984-05-23

A conceptual inertial confinement fusion reactor which uses a replenished layer of granules for wall protection, heat exchange, and fuel production.

\*BT1 laser fusion reactors

RT icf devices

**CASCADE SHOWERS**

BT1 showers

RT cascade theory

RT cosmic showers

**CASCADE SOLAR CELLS**

INIS: 1992-05-28; ETDE: 1981-07-18

UF graded band gap solar cells

\*BT1 solar cells

RT graded band gaps

**CASCADE THEORY**

RT cascade showers

RT gamma cascades

**cascales (nuclear)**

USE nuclear cascades

**CASE LAW**

INIS: 1976-12-08; ETDE: 1977-06-24

BT1 laws

**CASE METHOD**

BT1 calculation methods

RT transport theory

**CASEIN**

\*BT1 organic phosphorus compounds

\*BT1 proteins

**CASIMIR EFFECT**

INIS: 1986-05-27; ETDE: 1986-11-18

Attractive force between two uncharged, conducting, parallel plates due to vacuum fluctuations of the electromagnetic field, i.e. quantum electromagnetic zero-point energy.

UF casimir force

RT electric fields

RT vacuum polarization

**casimir force**

INIS: 1986-05-27; ETDE: 2002-06-13

USE casimir effect

**CASIMIR OPERATORS**

BT1 mathematical operators

RT symmetry groups

**casings**

2000-04-12

USE coverings

**casings (well)**

INIS: 1992-05-26; ETDE: 1981-01-27

USE well casings

**CASKS**

- UF *flasks*
- UF *fuel casks*
- BT1 *containers*
- NT1 *spent fuel casks*

**CASPIAN SEA**

INIS: 1976-01-28; ETDE: 1975-09-11

- \*BT1 *lakes*
- \*BT1 *seas*
- RT *azerbaijan*
- RT *iran*
- RT *kazakhstan*
- RT *russian federation*
- RT *turkmenistan*

**CASSAVA**

- UF *manioc*
- \*BT1 *magnoliopsida*
- RT *food*

**CASSEGRAINIAN CONCENTRATORS**

INIS: 2000-04-12; ETDE: 1981-03-17

*Solar concentrators consisting of a paraboloidal primary reflector and a confocal hyperboloidal secondary reflector.*

- \*BT1 *solar concentrators*
- RT *parabolic reflectors*

**CAST IRON**

- \*BT1 *carbon additions*
- \*BT1 *iron base alloys*
- \*BT1 *silicon alloys*
- RT *iron carbides*
- RT *pearlite*

**CAST METHOD**

INIS: 2000-04-12; ETDE: 1980-02-11

*Capillary action shaping technique for ribbon crystal growth.*

- UF *capillary action shaping technique*
- BT1 *crystal growth methods*
- RT *crystal growth*
- RT *efg method*
- RT *sheets*

**CASTAGNOLI FORMULA**

- RT *angular distribution*

**caste (insects)**

- USE *insects*
- USE *occupations*
- USE *populations*

**castillejo-dalitz-dyson poles**

- USE *cdd poles*

**CASTING**

- BT1 *fabrication*
- NT1 *electroslag casting*
- NT1 *slip casting*
- NT1 *vacuum casting*
- RT *casting molds*
- RT *castings*
- RT *crucibles*
- RT *dies*
- RT *foundries*
- RT *materials working*
- RT *melting*
- RT *molding*

**CASTING MOLDS**

- UF *molds (casting)*
- RT *casting*
- RT *castings*
- RT *dies*
- RT *molding*

**CASTINGS**

1977-01-25

- UF *metal castings*

- RT *casting*
- RT *casting molds*
- RT *degassing*
- RT *inclusions*
- RT *machine parts*
- RT *solidification*

**CASTLE PROJECT**

- UF *project castle*
- \*BT1 *nuclear explosions*
- RT *atmospheric explosions*
- RT *bikini*
- RT *nuclear weapons*
- RT *surface explosions*
- RT *thermonuclear explosions*

**CASTOR**

- UF *ricinum communis*
- \*BT1 *euphorbia*
- \*BT1 *medicinal plants*
- RT *castor oil*

**CASTOR OIL**

- \*BT1 *vegetable oils*
- RT *castor*

**CASTOR TOKAMAK**

INIS: 1987-05-26; ETDE: 1987-06-09  
*Institute of Plasma Physics, Czech Academy of Sciences, Prague.*

- \*BT1 *tokamak devices*

**CASTRATION**

- \*BT1 *surgery*
- RT *androgens*
- RT *estrogens*
- RT *gonads*
- RT *reproductive disorders*
- RT *therapy*

**cat-ox process**

2000-04-12  
*Catalytic oxidation method developed by Monsanto Enviro-Chem Systems, Inc., for removing sulfur dioxide from flue gas of fossil-fuel generating stations. System consists basically of following phases: fly ash collection, conversion of sulfur dioxide to sulfur trioxide, heat recovery, removal of hydrogen sulfate, acid mist elimination, and acid storage and loading.*  
 (Prior to March 1994, this was a valid ETDE descriptor.)

- USE *desulfurization*

**CAT SCANNING**

INIS: 1978-01-16; ETDE: 1978-03-03  
*Computerized Axial Tomography scanning.*

- UF *computer axial tomography scanning*
- UF *ct scanning*
- \*BT1 *computerized tomography*
- RT *biomedical radiography*
- RT *image processing*

**CATABOLISM**

- BT1 *metabolism*
- RT *decomposition*
- RT *glycolysis*
- RT *proteolysis*

**catcarb carbon dioxide removal process**

2000-04-12  
 USE *desulfurization*

**catcarb process**

2000-04-12  
*Process for gas purification by removal of acid gases.*  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE *desulfurization*

**cataclysmic binary stars**

INIS: 1984-05-24; ETDE: 2002-06-13  
 USE *eruptive variable stars*

**cataclysmic variable stars**

INIS: 1984-05-24; ETDE: 1984-06-29  
*Variable close binary systems, one star of which provides the other with accretion material.*  
 USE *eruptive variable stars*

**CATAGENESIS**

INIS: 2000-04-12; ETDE: 1977-08-09  
*Changes in a sedimentary rock caused by pressure-temperature conditions quite different from those of deposition; as opposed to diagenesis in which burial depth is slight and temperature close to that of deposition temperature.*  
 RT *diagenesis*  
 RT *origin*  
 RT *sediments*

**CATALASE**

- \*BT1 *peroxidases*

**CATALOGS**

INIS: 1994-07-01; ETDE: 1978-01-23  
 (Until June 1994 this concept was indexed to INDEXES.)

- BT1 *document types*
- RT *directories*

**CATALYSIS**

- NT1 *heterogeneous catalysis*
- NT1 *homogeneous catalysis*
- NT1 *photocatalysis*
- RT *catalysts*
- RT *catalytic converters*
- RT *catalytic cracking*
- RT *catalytic effects*
- RT *chemical reaction kinetics*
- RT *chemical reactions*
- RT *coenzymes*
- RT *electrocatalysts*
- RT *enzyme activity*
- RT *enzymes*
- RT *inhibition*
- RT *selective catalytic reduction*
- RT *ziegler catalyst*

**CATALYST SUPPORTS**

INIS: 1992-01-16; ETDE: 1978-06-14  
 UF *supports (catalyst)*  
 RT *catalysts*  
 RT *substrates*  
 RT *supports*

**CATALYSTS**

- NT1 *electrocatalysts*
- NT1 *ziegler catalyst*
- RT *additives*
- RT *catalysis*
- RT *catalyst supports*
- RT *catalytic combustors*
- RT *catalytic converters*
- RT *photocatalysis*
- RT *promoters*

**CATALYTIC COMBUSTORS**

INIS: 2000-04-12; ETDE: 1978-04-06  
*Combustors which contain catalysts to increase efficiency and/or to reduce the emission of harmful gaseous pollutants.*

- BT1 *combustors*
- RT *air pollution control*
- RT *catalysts*
- RT *pollution control equipment*

**CATALYTIC CONVERTERS**

1991-12-18

*Air pollution control devices using a catalytic reaction to change gaseous effluents to harmless gases.*

- \*BT1 pollution control equipment
- RT air pollution control
- RT automobiles
- RT catalysis
- RT catalysts
- RT exhaust gases

**CATALYTIC CRACKING**

INIS: 1998-01-28; ETDE: 1976-12-15

- \*BT1 cracking
- RT catalysis
- RT hydrocracking
- RT thermal cracking

**CATALYTIC EFFECTS**

1992-01-16

- RT catalysis
- RT electrocatalysts

**CATALYTIC HYDROSOLVATION PROCESS**

INIS: 2000-04-12; ETDE: 1978-08-07

*Coal is impregnated with catalysts (zinc chloride, stannous chloride, and ammonium molybdate), slurried with oil, and hydrogenated under hydrogen pressures up to 4000 psi at 400 to 500 degrees C.*

- \*BT1 coal liquefaction
- RT desulfurization

***catalytic-*ifp* ammonia scrubbing process***

INIS: 2000-04-12; ETDE: 1977-04-12

- USE desulfurization

**CATALYTIC REFORMING**

INIS: 2000-04-12; ETDE: 1979-01-30

*Catalytic aromatization of the paraffins and naphthenes of a naphtha to a liquid.*

- \*BT1 reformer processes
- RT refining

***catalytic rich gas process***

INIS: 2000-04-12; ETDE: 1976-01-07

- USE crg processes

***cataphoresis***

- USE electrophoresis

***catapleite***

1996-06-26

(Until June 1996 this was a valid descriptor.)

- USE silicate minerals

**CATARACTS**UF *eye cataracts*

- \*BT1 sense organs diseases
- RT crystalline lens

**CATAWBA-1 REACTOR**

*Duke Energy Co., Rock Hill, South Carolina, USA.*

- \*BT1 pwr type reactors

**CATAWBA-2 REACTOR**

*Duke Energy Co., Rock Hill, South Carolina, USA.*

- \*BT1 pwr type reactors

***catchment basins***

2001-07-26

- USE watersheds

***catechol***

- USE pyrocatechol

**CATECHOLAMINES**

- \*BT1 amines
- \*BT1 polyphenols
- RT pyrocatechol

***cathepsin***

2000-04-12

(From January 1981 to August 1989, this was a valid ETDE descriptor and material from this period is so indexed.)

- USE cathepsins

**CATHEPSINS**

ETDE: 1981-01-30

Code number 3.4.22.1.

UF *cathepsin*

- \*BT1 sh-proteinases

**CATHODE FOLLOWERS**

- BT1 electronic circuits
- RT pulse amplifiers

**CATHODE RAY TUBE DIGITIZERS**UF *pepr devices*

- \*BT1 digitizers

**CATHODE RAY TUBES**

- BT1 electron tubes
- RT display devices
- RT electron scanning
- RT image tubes
- RT oscillographs

**CATHODE SPUTTERING**

- BT1 sputtering
- RT physical vapor deposition
- RT vapor plating

**CATHODES**

- BT1 electrodes
- NT1 hollow cathodes
- NT1 photocathodes
- RT cathodoluminescence
- RT electron tubes
- RT thermionic emitters

**CATHODIC PROTECTION**

INIS: 1999-10-08; ETDE: 1977-03-08

(Until October 1999 this concept was indexed by CORROSION PROTECTION.)

- BT1 corrosion protection
- RT electrochemical corrosion
- RT pitting corrosion

**CATHODOLUMINESCENCE**

Cathode-ray-excited emission.

- \*BT1 luminescence
- RT cathodes
- RT emission spectroscopy

***cation exchange capacity***

INIS: 2000-04-12; ETDE: 1979-03-27

- USE cations
- USE ion exchange

**CATIONS**UF *cation exchange capacity*UF *positive ions*

- \*BT1 ions
- NT1 hydrogen ions 1 plus
- NT1 hydrogen ions 2 plus
- NT1 hydrogen ions 3 plus
- RT carbonium compounds
- RT chemical state
- RT electrolysis
- RT ion beams
- RT ion exchange materials

**CATS**

- \*BT1 mammals

**CATTAILS**

INIS: 1991-12-16; ETDE: 1980-11-25

- \*BT1 liliopsida
- RT aquatic ecosystems
- RT biomass
- RT marshes

**CATTENOM-1 REACTOR**

INIS: 1984-07-20; ETDE: 1984-09-05

- \*BT1 pwr type reactors

**CATTENOM-2 REACTOR**

INIS: 1984-07-20; ETDE: 1984-09-05

- \*BT1 pwr type reactors

**CATTENOM-3 REACTOR**

INIS: 1984-07-20; ETDE: 1984-09-05

- \*BT1 pwr type reactors

**CATTENOM-4 REACTOR**

INIS: 1984-07-20; ETDE: 1984-09-05

- \*BT1 pwr type reactors

**CATTLE**UF *bovine*

- \*BT1 domestic animals
- \*BT1 ruminants

NT1 *calves*NT1 *cows*RT *forage*RT *gramineae*RT *meat*RT *pastures***CAUCASUS**

INIS: 2000-04-12; ETDE: 1978-06-14

- RT *armenia*
- RT *azerbaijan*
- RT *republic of georgia*
- RT *russian federation*

**CAUCHY PROBLEM**

1999-04-13

- RT boundary conditions
- RT boundary-value problems
- RT partial differential equations

***cauliflower***

- USE brassica

***caulking***

INIS: 2000-04-12; ETDE: 1977-11-09

(Prior to February 1997 this was a valid ETDE descriptor.)

- SEE air infiltration
- SEE seals
- SEE weatherization

**CAUSALITY**

- RT quantum mechanics
- RT schwinger source theory

**CAUSTIC FLOODING**

INIS: 2000-04-12; ETDE: 1978-10-23

*Injection of alkaline solution to enhance recovery of residual petroleum.*

- UF *alkaline flooding*
- \*BT1 waterflooding
- RT enhanced recovery

**CAVES**

- BT1 cavities
- RT geologic fissures
- RT openings
- RT rock caverns
- RT salt caverns

**CAVING**

INIS: 1992-09-01; ETDE: 1979-06-06

- RT strata control
- RT strata movement
- RT underground mining

**CAVING MINING**

INIS: 2000-04-12; ETDE: 1979-01-30

\*BT1 underground mining

**CAVITATION**

UF column separation (fluid mechanics)

RT fluid flow

RT ultrasonic waves

**CAVITIES**

(From November 1976 till March 1997 UNDERGROUND SPACE was a valid ETDE descriptor.)

SF underground space

NT1 boreholes

NT1 caves

NT1 craters

NT1 rock caverns

NT1 salt caverns

NT1 sinuses

RT chimneys

RT crystal defects

RT excavation

RT mine shafts

RT nuclear explosions

RT openings

RT underground explosions

RT underground storage

RT voids

RT water influx

**cavity ionization chambers**

USE bragg gray chambers

**CAVITY RECEIVERS**

INIS: 2000-04-12; ETDE: 1979-09-26

BT1 solar receivers

**CAVITY RESONATORS**

UF resonance cavities

\*BT1 resonators

NT1 superconducting cavity resonators

RT cyclic accelerators

RT microwave equipment

RT rf systems

RT tuning

**cba (brookhaven colliding beam accelerator)**

INIS: 2000-04-12; ETDE: 1983-04-28

USE isabelle storage rings

**cba process**

INIS: 2000-04-12; ETDE: 1977-08-09

USE desulfurization

**ccba**

USE coupled channel born approximation

**ccd**

INIS: 1979-09-18; ETDE: 1978-04-27

USE charge-coupled devices

**ccms**

INIS: 2000-04-12; ETDE: 1978-02-14

Committee on the challenges of modern society.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE international organizations

**cd-4mcu**

INIS: 2000-04-12; ETDE: 1979-09-06

USE steel-cd-4mcu

**CDC COMPUTERS**

BT1 computers

RT supercomputers

**CDD POLES**

UF castillejo-dalitz-dyson poles

RT dispersion relations

RT partial waves

**cdf**

INIS: 1992-01-14; ETDE: 1985-12-13

(Prior to January 1992, this was a valid ETDE descriptor.)

USE fermilab collider detector

**CDFR REACTOR**

INIS: 1979-09-18; ETDE: 1979-10-23

UF commercial demonstration fast reactor

\*BT1 lmfr type reactors

\*BT1 power reactors

\*BT1 sodium cooled reactors

**CDTA**

Cyclohexylenedinitrilotetraacetic acid.

UF cyclohexylenedinitrilotetraacetic acid

\*BT1 amino acids

BT1 chelating agents

**CDTE SEMICONDUCTOR****DETECTORS**

UF cadmium telluride detectors

\*BT1 semiconductor detectors

**CDX-U SPHEROMAK**

INIS: 1999-07-26; ETDE: 1999-09-02

Current Drive Experiment Upgrade, Princeton Plasma Physics Laboratory, USA.

\*BT1 spheromak devices

**CE ENTRAINED FUEL PROCESS**

INIS: 2000-04-12; ETDE: 1977-05-07

Process using a low pressure, air-blown entrained gasifier with two points of coal feed that can be modified to operate under pressure and with oxygen blowing.

UF combustion engineering gasification process

\*BT1 coal gasification

RT entrainment

**ce lummus cffc process**

INIS: 2000-04-12; ETDE: 1981-10-24

A plug flow, expanded-bed, catalytic, hydroliquefaction process.

(Prior to February 1995, this was a valid ETDE descriptor.)

USE coal liquefaction

**CE STANDARD REACTOR**

1975-10-29

USA.

(Prior to 1975, PWR/80 TYPE REACTORS was used.)

UF combustion engineering standard reactor

UF pwr/80 type reactors

\*BT1 pwr type reactors

RT palo verde-1 reactor

RT palo verde-2 reactor

RT palo verde-3 reactor

RT palo verde-4 reactor

RT palo verde-5 reactor

**CEA**

UF commissariat a l'energie atomique

\*BT1 french organizations

NT1 cea bruyeres-le-chatel

NT1 cea cadarache

NT1 cea fontenay-aux-roses

NT1 cea grenoble

NT1 cea la hague

NT1 cea marcoule

NT1 cea pierrelatte

NT1 cea saclay

RT france

**cea (accelerator)**

INIS: 1984-06-21; ETDE: 2002-06-13

USE cambridge electron accelerator

**cea (antigen)**

INIS: 1982-09-21; ETDE: 1980-10-07

USE carcinoembryonic antigen

**CEA-ADL DUAL ALKALI PROCESS**

INIS: 2000-04-12; ETDE: 1978-06-14

Flue gas is passed through an absorption section where sulfur dioxide, chlorides, and sulfur trioxide are removed via contact with a solution of sodium salts. The sodium/sulfur salts are reacted with hydrated lime in a special 2-stage reactor to regenerate the sodium. Calcium/sulfur solids produced are separated from the liquor containing regenerated sodium compounds and disposed of. The regenerated liquor is recirculated to the absorption section.

UF limestone dual alkali desulfurization process

\*BT1 desulfurization

RT waste processing

**CEA BRUYERES-LE-CHATEL**

INIS: 1989-12-08; ETDE: 1990-01-03

\*BT1 cea

**CEA CADARACHE**

UF cadarache (cea)

\*BT1 cea

**CEA FONTENAY-AUX-ROSES**

UF fontenay-aux-roses (cea)

\*BT1 cea

**CEA GRENOBLE**

\*BT1 cea

**CEA LA HAGUE**

\*BT1 cea

\*BT1 fuel reprocessing plants

**CEA MARCOULE**

UF marcoule (cea)

\*BT1 cea

**CEA PIERRELATTE**

UF pierrelatte (cea)

\*BT1 cea

**CEA SACLAY**

UF saclay (cea)

\*BT1 cea

**CEBAF ACCELERATOR**

INIS: 1987-05-26; ETDE: 1987-06-09

Continuous Electron Beam Accelerator Facility.

UF jefferson laboratory

UF thomas jefferson national accelerator facility

\*BT1 linear accelerators

**CEDAR COMPUTERS**

INIS: 2000-04-12; ETDE: 1987-04-08

RT array processors

RT parallel processing

RT supercomputers

RT vector processing

**CEDARS**

INIS: 1992-01-15; ETDE: 1985-12-11

UF junipers

UF juniperus

\*BT1 conifers

\*BT1 trees

**cef-or reactor**

USE or-cef reactor



**CEFR REACTOR**

INIS: 2000-02-22; ETDE: 2000-10-04  
Beijing, China.

UF china experimental fast reactor

\*BT1 experimental reactors

\*BT1 fast reactors

**CEILING FANS**

INIS: 2000-04-12; ETDE: 1982-03-10

RT air conditioning

RT blowers

RT cooling systems

RT ventilation

**CEILINGS**

INIS: 2000-04-12; ETDE: 1975-09-11

RT buildings

**CELESTIN REACTOR**

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 tritium production reactors

**CELL CONSTITUENTS**

1997-06-19

UF organelles

UF subcellular organelles

NT1 cell membranes

NT2 myelin

NT1 cell nuclei

NT2 nucleoli

NT1 cell wall

NT1 chloroplasts

NT1 cytoplasm

NT1 endoplasmic reticulum

NT2 sarcoplasmic reticulum

NT1 golgi complexes

NT1 microtubules

NT1 mitochondria

NT1 phycobilisomes

NT1 plasmids

NT1 ribosomes

NT2 microsomes

RT animal cells

RT cytological techniques

RT cytology

RT liposomes

RT phagocytosis

RT plant cells

RT post-translation modification

RT subcellular distribution

RT tissue extracts

RT ultracentrifugation

RT ultrastructural changes

**CELL CULTURES**

UF cultures (cells)

NT1 clone cells

NT1 synchronous cultures

RT animal cells

RT biotechnology

RT cho cells

RT cloning

RT colony formation

RT culture media

RT hybridomas

RT in vitro

RT methanotrophic bacteria

RT microorganisms

RT mutagen screening

RT plant cells

RT tissue cultures

RT tumor cells

**CELL CYCLE**

RT cell division

RT concanavalin a

RT dna replication

RT replicons

RT synchronization

RT synchronous cultures

**CELL DIFFERENTIATION**

RT apoptosis

RT blood formation

RT gene amplification

RT genetic engineering

RT growth factors

RT ontogenesis

**CELL DIVISION**

NT1 meiosis

NT1 mitosis

RT cell cycle

RT cell proliferation

RT gametogenesis

RT healing

RT in vivo

RT mitogens

RT non-disjunction

**CELL FLOW SYSTEMS**

INIS: 1977-09-06; ETDE: 1976-08-04

*Fluid flow devices in which a stream of individual cells from biological cell samples flow through a chamber enabling the screening of cytological material.*

UF flow cytometers

RT animal cells

RT chromosome sorting

RT cytological techniques

RT cytology

RT plant cells

**cell growth (animal)**

USE animal cells

USE growth

**cell growth (plant)**

USE growth

USE plant cells

**CELL KILLING**

RT apoptosis

RT death

**CELL MEMBRANES**

1999-04-21

BT1 cell constituents

BT1 membranes

NT1 myelin

RT cell wall

RT golgi complexes

RT membrane pores

RT radioreceptor assay

RT subcellular distribution

**CELL NUCLEI**

UF nuclei (cells)

BT1 cell constituents

NT1 nucleoli

RT chromatin

RT chromosomes

RT human chromosomes

RT nucleic acids

RT subcellular distribution

**CELL PROLIFERATION**

UF proliferation (cell)

RT cell division

RT cloning

RT concanavalin a

RT growth factors

RT in vivo

RT phytohemagglutinin

RT replicons

**cell recycle**

INIS: 2000-04-12; ETDE: 1978-10-23

*Technique of recycling yeasts or other microorganisms back into biochemical reaction vessel.*

(Prior to February 1997 this was a valid ETDE descriptor.)

SEE anaerobic digestion

SEE fermentation

**CELL TRANSFORMATIONS**

INIS: 1999-04-21; ETDE: 1985-11-19

NT1 oncogenic transformations

RT viral diseases

**CELL WALL**

UF walls (cell)

BT1 cell constituents

RT cell membranes

RT plant cells

**cellars**

INIS: 1992-08-25; ETDE: 1984-08-06

USE basements

**CELLOBIOSE**

\*BT1 disaccharides

**CELLOPHANE**

\*BT1 polysaccharides

RT cellulose

**CELLOSOLVES**

UF glycol monoalkyl ethers

\*BT1 ethers

\*BT1 glycols

\*BT1 organic solvents

**cells (animal)**

USE animal cells

**cells (bacterial)**

USE bacteria

**cells (electrolytic)**

USE electrolytic cells

**cells (immobilized)**

INIS: 2000-04-12; ETDE: 1980-09-22

SEE immobilized cells

**cells (plant)**

USE plant cells

**cells (reactor)**

USE reactor cells

**CELLULASE**

INIS: 1996-11-13; ETDE: 1981-01-12

Code number 3.2.1.4.

UF cellulases

UF cellulolytic activity

\*BT1 o-glycosyl hydrolases

RT enzymatic hydrolysis

**cellulases**

INIS: 2000-04-12; ETDE: 1978-03-03

Code number 3.2.1.4.

USE cellulase

**CELLULOID**

RT camphor

RT cellulose esters

RT nitrocellulose

**cellulolytic activity**

INIS: 1985-07-23; ETDE: 1979-05-25

*Measure of efficiency for cellulose biodegradation.*

(Prior to February 1997 this was a valid ETDE descriptor.)

USE cellulase

USE enzymatic hydrolysis

**CELLULOSE**

- UF ethocel*  
 \*BT1 polysaccharides  
*RT bagasse*  
*RT biomass*  
*RT cellophane*  
*RT cellulose esters*  
*RT delignification*  
*RT hemicellulose*  
*RT polyacetals*  
*RT rayon*

**CELLULOSE ESTERS**

- 1999-04-27  
 \*BT1 esters  
 NT1 nitrocellulose  
*RT celluloid*  
*RT cellulose*

**CELSIUS STORAGE RING**

- INIS: 1986-07-09; ETDE: 1989-08-16*  
 BT1 storage rings  
*RT uppsala synchrocyclotron*

**celtic sea**

- INIS: 2000-04-12; ETDE: 1977-05-07*  
 USE irish sea

**CEMENT INDUSTRY**

- INIS: 1994-09-13; ETDE: 1977-07-23*  
 BT1 industry  
*RT cements*  
*RT portland cement*

**cemented carbides**

- ETDE: 2002-06-13*  
 USE cermets

**CEMENTING**

- INIS: 2000-06-27; ETDE: 1981-08-21*  
*RT bonding*  
*RT cements*  
*RT compacting*  
*RT grouting*  
*RT plugging*  
*RT seals*  
*RT well casings*  
*RT well completion*

**CEMENTITE**

- 1995-11-22  
*A compound, Fe<sub>3</sub>C, occurring as lamellae in steel.*  
 \*BT1 intermetallic compounds  
 \*BT1 iron carbides  
*RT martensite*  
*RT pearlite*  
*RT steels*

**CEMENTS**

- \*BT1 building materials  
 NT1 gypsum cements  
 NT1 portland cement  
*RT cement industry*  
*RT cementing*  
*RT concretes*  
*RT grouting*  
*RT mortars*  
*RT plugging agents*

**CEN**

- INIS: 2004-07-16; ETDE: 2002-10-02*  
*UF european committee for standardization*  
 BT1 international organizations  
*RT recommendations*  
*RT standardization*  
*RT standardized terminology*  
*RT standards document*

**CENNA**

- INIS: 1989-02-24; ETDE: 1989-03-20*  
*Convention on Early Notification of a Nuclear Accident.*  
*UF convention on early notification of nuclear accident*  
*UF early notification convention*  
 \*BT1 international agreements  
*RT iaea*  
*RT reactor accidents*

**CENOZOIC ERA**

- INIS: 1992-04-14; ETDE: 1977-10-19*  
 BT1 geologic ages  
 NT1 quaternary period  
 NT2 pleistocene epoch  
 NT1 tertiary period  
 NT2 eocene epoch  
 NT2 miocene epoch  
 NT2 pliocene epoch

**CENTAURO-TYPE EVENTS**

- INIS: 1999-03-23; ETDE: 1979-08-07*  
*Cosmic-ray events of high hadron multiplicity without associated neutral pions.*  
*RT cosmic radiation*  
*RT cosmic showers*  
*RT extensive air showers*  
*RT fireball model*  
*RT hadrons*  
*RT multiple production*  
*RT nuclear matter*  
*RT particle interactions*  
*RT quarks*

**CENTER-OF-MASS SYSTEM**

- UF centre-of-mass system*  
*RT coordinates*  
*RT laboratory system*  
*RT longitudinal momentum*  
*RT lorentz transformations*  
*RT mechanics*  
*RT scattering*  
*RT transverse momentum*

**CENTRAL AFRICAN REPUBLIC**

- BT1 africa  
 BT1 developing countries

**CENTRAL AMERICA**

- 1996-07-08  
 (Prior to July 1996 PANAMA CANAL ZONE was a valid ETDE descriptor.)  
*UF panama canal zone*  
 BT1 latin america  
 NT1 belize  
 NT1 costa rica  
 NT1 el salvador  
 NT1 guatemala  
 NT1 honduras  
 NT1 nicaragua  
 NT1 panama

**CENTRAL HEATING PLANTS**

- 1999-02-12  
*RT district cooling*  
*RT district heating*  
*RT modular integrated utility systems*  
*RT solar district heating*  
*RT space heating*  
*RT steam generation plants*

**central intelligence agency**

- INIS: 2000-04-12; ETDE: 1980-08-25*  
 USE us cia

**CENTRAL NERVOUS SYSTEM**

- BT1 nervous system  
 NT1 brain  
 NT2 cerebellum  
 NT2 cerebrum

- NT3 cerebral cortex  
 NT2 hippocampus  
 NT2 hypothalamus  
 NT2 olfactory bulbs  
 NT2 thalamus  
 NT1 spinal cord  
*RT behavior*  
*RT central nervous system agents*  
*RT central nervous system depressants*  
*RT cerebrospinal fluid*  
*RT meninges*  
*RT rabies*  
*RT radiation syndrome*  
*RT receptors*

**CENTRAL NERVOUS SYSTEM AGENTS**

- INIS: 1984-05-24; ETDE: 1981-04-20*  
 BT1 drugs  
 NT1 analeptics  
 NT2 amphetamines  
 NT3 benzedrine  
 NT2 caffeine  
 NT1 central nervous system depressants  
 NT2 analgesics  
 NT3 acetylsalicylic acid  
 NT3 antipyrine  
 NT3 codeine  
 NT3 opium  
 NT4 morphine  
 NT5 thebaine  
 NT3 pethidine  
 NT2 anesthetics  
 NT3 barbiturates  
 NT4 nembutal  
 NT4 phenobarbital  
 NT3 cocaine  
 NT3 procaine  
 NT2 anticonvulsants  
 NT3 phenobarbital  
 NT2 antipyretics  
 NT3 acetylsalicylic acid  
 NT3 antipyrine  
 NT3 colchicine  
 NT3 quinine  
 NT2 hypnotics and sedatives  
 NT3 barbiturates  
 NT4 nembutal  
 NT4 phenobarbital  
 NT3 chlorpromazine  
 NT3 codeine  
 NT3 reserpine  
 NT2 narcotics  
 NT3 heroin  
 NT3 methadone hydrochloride  
 NT3 opium  
 NT4 morphine  
 NT5 thebaine  
 NT3 pethidine  
 NT1 psychotropic drugs  
 NT2 antidepressants  
 NT3 cocaine  
 NT3 imipramine  
 NT2 hallucinogens  
 NT3 bufotenine  
 NT2 tranquilizers  
 NT3 chlorpromazine  
 NT3 reserpine  
*RT behavior*  
*RT central nervous system*  
*RT mental disorders*

**CENTRAL NERVOUS SYSTEM DEPRESSANTS**

- INIS: 1984-05-24; ETDE: 1981-04-20*  
*UF CNS depressants*  
*UF depressants (central nervous system)*  
 \*BT1 central nervous system agents  
 NT1 analgesics

**NT2** acetylsalicylic acid  
**NT2** antipyrine  
**NT2** codeine  
**NT2** opium  
   **NT3** morphine  
   **NT4** thebaine  
**NT2** pethidine  
**NT1** anesthetics  
   **NT2** barbiturates  
   **NT3** nembutal  
   **NT3** phenobarbital  
**NT2** cocaine  
**NT2** procaine  
**NT1** anticonvulsants  
   **NT2** phenobarbital  
**NT1** antipyretics  
   **NT2** acetylsalicylic acid  
   **NT2** antipyrine  
   **NT2** colchicine  
   **NT2** quinine  
**NT1** hypnotics and sedatives  
   **NT2** barbiturates  
   **NT3** nembutal  
   **NT3** phenobarbital  
**NT2** chlorpromazine  
**NT2** codeine  
**NT2** reserpine  
**NT1** narcotics  
   **NT2** heroin  
   **NT2** methadone hydrochloride  
   **NT2** opium  
     **NT3** morphine  
     **NT4** thebaine  
**NT2** pethidine  
*RT* anesthesia  
*RT* behavior  
*RT* central nervous system  
*RT* endorphins  
*RT* sleep

**central nervous system stimulants**

*INIS: 1984-05-24; ETDE: 1981-04-20*  
 USE analeptics

**central nuclear de zorita-1**

USE zorita-1 reactor

**central nuclear en atucha reactor**

1993-11-04  
 USE atucha reactor

**CENTRAL POTENTIAL**

**BT1** potentials  
*RT* coulomb field

**central receiver power plants**

*INIS: 2000-04-12; ETDE: 1984-08-20*  
 USE tower focus power plants

**CENTRAL RECEIVER TEST****FACILITY**

*INIS: 2000-04-12; ETDE: 1980-11-25*  
*DOE's test facility at Sandia Laboratories.*  
*UF solar thermal test facility*  
**BT1** test facilities  
*RT* central receivers  
*RT* heliostats  
*RT* tower focus collectors  
*RT* tower focus power plants

**CENTRAL RECEIVERS**

*INIS: 1993-01-28; ETDE: 1976-05-17*  
*UF solar central receivers*  
**BT1** solar receivers  
*RT* advanced components test facility  
*RT* boilers  
*RT* central receiver test facility  
*RT* solar collectors  
*RT* tower focus power plants

**central region**

*INIS: 2000-04-12; ETDE: 1978-07-06*  
 (Prior to June 1982, this was a valid ETDE descriptor.)  
 USE usa

**CENTRALLY PLANNED****ECONOMIES**

*INIS: 1997-08-20; ETDE: 1979-12-10*  
 Includes the economies of the countries in the list below.  
*RT* albania  
*RT* bulgaria  
*RT* china  
*RT* economic development  
*RT* economic policy  
*RT* mongolian peoples republic  
*RT* national government  
*RT* nationalization  
*RT* north korea  
*RT* romania  
*RT* viet nam

**centre-of-mass system**

USE center-of-mass system

**centrifugal contactors**

*INIS: 2000-04-12; ETDE: 1981-10-24*  
 USE extraction apparatuses

**CENTRIFUGAL FAST ANALYZERS**

2000-04-12  
*RT* chemical analysis

**CENTRIFUGAL PUMPS**

*INIS: 1994-06-27; ETDE: 1979-09-26*  
 \*BT1 pumps

**centrifugal separators**

*INIS: 1976-10-07; ETDE: 1976-03-22*  
 USE inertial separators

**CENTRIFUGATION**

**BT1** separation processes  
**NT1** gas centrifugation  
**NT1** ultracentrifugation  
*RT* centrifuge enrichment plants  
*RT* isotope separation  
*RT* podbielniak contactors  
*RT* sedimentation  
*RT* ultracentrifuges

**CENTRIFUGE ENRICHMENT PLANTS**

*INIS: 1978-02-23; ETDE: 1976-05-17*  
*UF enrichment plants (centrifuge)*  
*UF enrichment plants (ultracentrifuge)*  
*UF ultracentrifuge enrichment plants*  
 \*BT1 isotope separation plants  
**NT1** portsmouth centrifuge enrichment plant  
*RT* centrifugation  
*RT* gas centrifugation  
*RT* ultracentrifugation

**CENTRIFUGES**

**BT1** concentrators  
**NT1** gas centrifuges  
**NT1** plasma centrifuges  
**NT1** ultracentrifuges

**centro informazioni studi esperienze**

2002-06-21  
 USE cise

**centro studi nucleari enrico fermi reactor**

1993-11-04  
 USE cesnef reactor

**CENTROMERES**

1995-01-27  
*Specialized portions of chromosomes used as anchoring points to secure chromosomes during cell division.*  
*RT* chromatin  
*RT* chromosomes  
*RT* mitosis

**cepfr-1 reactor**

2000-04-12  
 USE zero power reactors

**cephalins**

1996-10-22  
 (Until October 1996 this was a valid descriptor.)  
 USE amines  
 USE phospholipids

**CEPHEIDS**

\*BT1 pulsating variable stars

**CERAMIC MELTERS**

*INIS: 1981-02-27; ETDE: 1980-01-24*  
*An electric furnace for vitrifying liquid or calcined high-level radioactive wastes.*  
*UF glass melters*  
 \*BT1 electric furnaces  
*RT* high-level radioactive wastes  
*RT* liquid wastes  
*RT* radioactive waste processing  
*RT* solidification  
*RT* vitrification

**CERAMICS**

*RT* borides  
*RT* carbides  
*RT* ceramics industry  
*RT* ceramography  
*RT* cermets  
*RT* clays  
*RT* dielectric track detectors  
*RT* enamels  
*RT* glass  
*RT* glazes  
*RT* mixed nitride fuels  
*RT* mixed oxide fuels  
*RT* nitrides  
*RT* oxides  
*RT* porcelain  
*RT* pzt  
*RT* refractories  
*RT* slip casting

**CERAMICS INDUSTRY**

*INIS: 1992-05-05; ETDE: 1977-11-28*  
**BT1** industry  
*RT* ceramics  
*RT* metal industry  
*RT* mineral industry

**CERAMOGRAPHY**

*INIS: 1978-08-30; ETDE: 1978-10-19*  
*Methods for the characterization of microstructural features and stereometric and topologic parameters of ceramic materials including sample preparation techniques.*  
*RT* autoradiography  
*RT* ceramics  
*RT* cracks  
*RT* electron microprobe analysis  
*RT* etching  
*RT* fractography  
*RT* materials testing  
*RT* microhardness  
*RT* microscopy  
*RT* microstructure  
*RT* particle size  
*RT* photomicrography  
*RT* porosity

*RT* post-irradiation examination  
*RT* replica techniques  
*RT* sample preparation  
*RT* surface properties

**CERATITIS CAPITATA**

*UF* *mediterranean fruit fly*  
 \*BT1 fruit flies

**cercaria**

USE platyhelminths

**cercla**

1992-02-05

*Comprehensive Environmental Response,  
 Compensation and Liability Act.*

USE us superfund

**CEREALS**

*UF* *grains (cereal)*  
 \*BT1 gramineae  
 NT1 barley  
 NT1 maize  
 NT1 millet  
 NT1 oats  
 NT1 rice  
 NT1 rye  
 NT1 sorghum  
 NT1 wheat  
*RT* buckwheat  
*RT* crops  
*RT* flour  
*RT* food  
*RT* grain disinfestation  
*RT* ustilago  
*RT* vernalization

**CEREBELLUM**

\*BT1 brain

**CEREBRAL ARTERIES**

*INIS: 1996-08-05; ETDE: 1986-02-21*

\*BT1 arteries  
*RT* brain

**CEREBRAL CORTEX**

*UF* *cortex (cerebral)*  
 \*BT1 cerebrum  
*RT* behavior  
*RT* conditioned reflexes

**CEREBROSIDES**

\*BT1 glycolipids  
*RT* amides  
*RT* galactose

**CEREBROSPINAL FLUID**

\*BT1 body fluids  
*RT* central nervous system

**CEREBRUM**

\*BT1 brain  
 NT1 cerebral cortex

**cerianite**

1996-06-26

(Until June 1996 this was a valid descriptor.)

USE oxide minerals  
 USE thorium minerals

**cerite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE silicate minerals

**CERIUM**

\*BT1 rare earths  
 NT1 cerium-alpha  
 NT1 cerium-beta  
 NT1 cerium-gamma

**CERIUM 121**

2002-02-27

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cerium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**CERIUM 123**

*INIS: 1984-08-23; ETDE: 1984-09-20*

\*BT1 cerium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**CERIUM 124**

*INIS: 1979-02-21; ETDE: 1979-03-28*

\*BT1 cerium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**CERIUM 125**

*INIS: 1979-02-21; ETDE: 1979-03-28*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cerium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**CERIUM 126**

\*BT1 cerium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**CERIUM 127**

*INIS: 1978-02-23; ETDE: 1978-04-28*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cerium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**CERIUM 128**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cerium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

**CERIUM 129**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cerium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

**CERIUM 130**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cerium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

**CERIUM 131**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cerium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

**CERIUM 132**

\*BT1 beta-plus decay radioisotopes

\*BT1 cerium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 rare earth nuclei

**CERIUM 133**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cerium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 rare earth nuclei

**CERIUM 134**

\*BT1 cerium isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei

**CERIUM 135**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cerium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**CERIUM 136**

\*BT1 cerium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

**CERIUM 136 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**CERIUM 137**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 cerium isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 rare earth nuclei

**CERIUM 138**

\*BT1 cerium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

**CERIUM 138 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**CERIUM 139**

\*BT1 cerium isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**CERIUM 140**

\*BT1 cerium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

**CERIUM 140 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**CERIUM 141**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei

**CERIUM 141 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**CERIUM 142**

- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**CERIUM 142 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**CERIUM 143**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei

**CERIUM 144**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei

**CERIUM 144 TARGET**

*INIS: 1992-09-22; ETDE: 1981-08-21*  
BT1 targets

**CERIUM 145**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 146**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei

**CERIUM 147**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 148**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 149**

*INIS: 1977-06-13; ETDE: 1975-09-11*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 cerium isotopes  
\*BT1 even-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**CERIUM 150**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cerium isotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**CERIUM 151**

*INIS: 1977-01-26; ETDE: 1976-11-17*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 cerium isotopes  
\*BT1 even-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**CERIUM 152**

*INIS: 1990-06-25; ETDE: 1990-08-02*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 cerium isotopes  
\*BT1 even-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**CERIUM ADDITIONS**

*1996-11-13*  
*Alloys containing not more than 1% Ce are listed here.*  
\*BT1 cerium alloys  
\*BT1 rare earth additions

**CERIUM ALLOYS**

*Alloys containing more than 1% Ce.*  
\*BT1 rare earth alloys  
NT1 cerium additions  
NT1 cerium base alloys  
NT2 misch metal

**CERIUM-ALPHA**

\*BT1 cerium

**CERIUM ARSENIDES**

*INIS: 1978-07-17; ETDE: 1978-10-19*  
\*BT1 arsenides  
\*BT1 cerium compounds

**CERIUM BASE ALLOYS**

\*BT1 cerium alloys  
NT1 misch metal

**CERIUM-BETA**

*INIS: 1977-09-06; ETDE: 1977-06-02*  
\*BT1 cerium

**CERIUM BORIDES**

\*BT1 borides  
\*BT1 cerium compounds

**CERIUM BROMIDES**

\*BT1 bromides  
\*BT1 cerium compounds

**CERIUM CARBIDES**

\*BT1 carbides  
\*BT1 cerium compounds

**CERIUM CARBONATES**

*1996-07-18*  
\*BT1 carbonates  
\*BT1 cerium compounds  
RT carbonate minerals

**CERIUM CHLORIDES**

\*BT1 cerium compounds  
\*BT1 chlorides

**CERIUM COMPLEXES**

\*BT1 rare earth complexes

**CERIUM COMPOUNDS**

BT1 rare earth compounds  
NT1 cerium arsenides  
NT1 cerium borides  
NT1 cerium bromides  
NT1 cerium carbides  
NT1 cerium carbonates  
NT1 cerium chlorides  
NT1 cerium fluorides  
NT1 cerium hydrides  
NT1 cerium hydroxides  
NT1 cerium iodides

NT1 cerium nitrates  
NT1 cerium nitrides  
NT1 cerium oxides  
NT1 cerium perchlorates  
NT1 cerium phosphates  
NT1 cerium phosphides  
NT1 cerium selenides  
NT1 cerium silicates  
NT1 cerium silicides  
NT1 cerium sulfates  
NT1 cerium sulfides  
NT1 cerium tellurides  
NT1 cerium tungstates

**CERIUM FLUORIDES**

\*BT1 cerium compounds  
\*BT1 fluorides

**CERIUM-GAMMA**

\*BT1 cerium

**CERIUM HYDRIDES**

\*BT1 cerium compounds  
\*BT1 hydrides

**CERIUM HYDROXIDES**

\*BT1 cerium compounds  
\*BT1 hydroxides

**CERIUM IODIDES**

\*BT1 cerium compounds  
\*BT1 iodides

**CERIUM IONS**

\*BT1 ions

**CERIUM ISOTOPES**

BT1 isotopes  
NT1 cerium 121  
NT1 cerium 123  
NT1 cerium 124  
NT1 cerium 125  
NT1 cerium 126  
NT1 cerium 127  
NT1 cerium 128  
NT1 cerium 129  
NT1 cerium 130  
NT1 cerium 131  
NT1 cerium 132  
NT1 cerium 133  
NT1 cerium 134  
NT1 cerium 135  
NT1 cerium 136  
NT1 cerium 137  
NT1 cerium 138  
NT1 cerium 139  
NT1 cerium 140  
NT1 cerium 141  
NT1 cerium 142  
NT1 cerium 143  
NT1 cerium 144  
NT1 cerium 145  
NT1 cerium 146  
NT1 cerium 147  
NT1 cerium 148  
NT1 cerium 149  
NT1 cerium 150  
NT1 cerium 151  
NT1 cerium 152

**CERIUM NITRATES**

\*BT1 cerium compounds  
\*BT1 nitrates

**CERIUM NITRIDES**

\*BT1 cerium compounds  
\*BT1 nitrides

**CERIUM OXIDES**

*1996-06-26*  
\*BT1 cerium compounds  
\*BT1 oxides

*RT* oxide minerals

### CERIUM PERCHLORATES

- \*BT1 cerium compounds
- \*BT1 perchlorates

### CERIUM PHOSPHATES

1996-06-26

- \*BT1 cerium compounds
- \*BT1 phosphates
- RT* phosphate minerals

### CERIUM PHOSPHIDES

*INIS*: 1978-07-17; *ETDE*: 1976-12-15

- \*BT1 cerium compounds
- \*BT1 phosphides

### CERIUM SELENIDES

*INIS*: 1976-10-29; *ETDE*: 1976-12-16

- \*BT1 cerium compounds
- \*BT1 selenides

### CERIUM SILICATES

1996-07-18

- \*BT1 cerium compounds
- \*BT1 silicates
- RT* kainosite
- RT* silicate minerals

### CERIUM SILICIDES

1975-10-29

- \*BT1 cerium compounds
- \*BT1 silicides

### CERIUM SULFATES

- \*BT1 cerium compounds
- \*BT1 sulfates

### CERIUM SULFIDES

- \*BT1 cerium compounds
- \*BT1 sulfides

### CERIUM TELLURIDES

*INIS*: 1985-03-15; *ETDE*: 1980-06-23

- \*BT1 cerium compounds
- \*BT1 tellurides

### CERIUM TUNGSTATES

*INIS*: 1991-09-16; *ETDE*: 1977-06-02

- \*BT1 cerium compounds
- \*BT1 tungstates

### CERMETS

- UF* cemented carbides
- UF* hard metals
- \*BT1 composite materials
- NT1** td-nickel
- NT1** td-nickel chromium
- RT* ceramics
- RT* refractories

### CERN

- UF* european organization for nuclear research
- BT1 international organizations

### *cern ag synchrotron*

*INIS*: 1976-03-25; *ETDE*: 1976-01-26

- USE *cern ps synchrotron*

### CERN CESAR

*CERN Electron Storage and Accumulation Ring.*

- BT1 storage rings

### *cern ii synchrotron*

*INIS*: 1976-03-25; *ETDE*: 1976-01-26

- USE *cern sps synchrotron*

### *cern isolde*

1994-04-12

- USE isotope separators

### CERN ISR

*CERN Intersection Storage Rings.*

- BT1 storage rings

### *cern large hadronic collider*

1995-10-05

- USE *cern lhc*

### CERN LEAR

*INIS*: 1984-06-25; *ETDE*: 1987-05-01

*Facility for antiproton physics at low energies with intense and cold beams of antiprotons. Located in the South Experimental Hall of CERN PS.*

- UF* *cern low energy antiproton ring*
- UF* *lear*
- RT* *cern ps synchrotron*

### *cern lep*

*INIS*: 1987-06-29; *ETDE*: 2002-06-13

- USE *lep storage rings*

### CERN LHC

1995-10-05

- UF* *cern large hadronic collider*
- BT1 storage rings
- \*BT1 synchrotrons

### CERN LINAC

*INIS*: 1978-08-30; *ETDE*: 1978-10-19

- \*BT1 linear accelerators

### *cern low energy antiproton ring*

*INIS*: 1993-11-04; *ETDE*: 2002-06-13

- USE *cern lear*

### CERN PS SYNCHROTRON

*INIS*: 1975-12-17; *ETDE*: 1976-01-26

*CERN 28-GeV Proton Synchrotron.*

- UF* *cern ag synchrotron*
- \*BT1 synchrotrons
- RT* *cern lear*

### CERN SPS SYNCHROTRON

*INIS*: 1975-12-17; *ETDE*: 1976-01-26

*CERN 400-GeV Proton Synchrotron.*

- UF* *cern ii synchrotron*
- \*BT1 synchrotrons

### CERN SYNCHROCYCLOTRON

- \*BT1 synchrocyclotrons

### CERNAVODA-1 REACTOR

*INIS*: 1982-08-27; *ETDE*: 1990-10-09

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors

### CERRO PRIETO GEOTHERMAL FIELD

1992-06-04

- BT1 geothermal fields
- RT* geothermal hot-water systems
- RT* mexico

### CERROBEND ALLOYS

2000-04-12

- \*BT1 bismuth base alloys
- \*BT1 cadmium alloys
- \*BT1 lead alloys
- \*BT1 tin alloys

### CERTIFICATION

*INIS*: 1991-08-15; *ETDE*: 1979-02-27

(Prior to August 1991, this concept was indexed to LICENSING.)

- RT* licensing
- RT* performance testing
- RT* quality assurance
- RT* standards
- RT* testing

### CERULOPLASMIN

- \*BT1 copper complexes
- \*BT1 globulins-alpha
- \*BT1 metalloproteins

### CESAR REACTOR

*CEA/CEN, Cadarache, St. Paul Lez Durance, France.*

- \*BT1 carbon dioxide cooled reactors
- \*BT1 experimental reactors
- \*BT1 graphite moderated reactors
- \*BT1 natural uranium reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- RT* enriched uranium reactors

### CESIUM

*UF* *caesium*

- \*BT1 alkali metals

### CESIUM 113

*INIS*: 1980-07-24; *ETDE*: 1980-08-12

- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 proton decay radioisotopes

### CESIUM 114

*INIS*: 1979-01-18; *ETDE*: 1979-02-23

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

### CESIUM 115

*INIS*: 1979-01-18; *ETDE*: 1979-02-23

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

### CESIUM 116

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

### CESIUM 117

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

### CESIUM 118

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

### CESIUM 119

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

### CESIUM 120

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes

- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM 121**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**CESIUM 122**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**CESIUM 123**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**CESIUM 124**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**CESIUM 125**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**CESIUM 126**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM 127**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**CESIUM 128**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM 129**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**CESIUM 130**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM 131**

- \*BT1 cesium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**CESIUM 131 TARGET***1988-02-02*

- BT1 targets

**CESIUM 132**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**CESIUM 132 TARGET***INIS: 1979-02-21; ETDE: 1979-03-28*

- BT1 targets

**CESIUM 133**

- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**CESIUM 133 TARGET***ETDE: 1976-07-09*

- BT1 targets

**CESIUM 134**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 years living radioisotopes

**CESIUM 134 TARGET***1988-02-02*

- BT1 targets

**CESIUM 135**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 years living radioisotopes

**CESIUM 135 TARGET***INIS: 1988-02-02; ETDE: 1981-08-21*

- BT1 targets

**CESIUM 136**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**CESIUM 137**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 years living radioisotopes
- RT* radioisotope generators

**CESIUM 137 TARGET***INIS: 1988-08-02; ETDE: 1981-08-21*

- BT1 targets

**CESIUM 138**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM 139**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**CESIUM 140**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM 141**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**CESIUM 142**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**CESIUM 143**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**CESIUM 144**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**CESIUM 145**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**CESIUM 146**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM 147***INIS: 1979-04-27; ETDE: 1978-12-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**CESIUM 148***INIS: 1979-04-27; ETDE: 1979-05-25*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM 149***2002-01-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**CESIUM 150***2002-01-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cesium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**CESIUM ADDITIONS***Alloys containing not more than 1% Cs are listed here.*

- \*BT1 cesium alloys

**CESIUM ALLOYS***Alloys containing more than 1% Cs.*

- BT1 alloys
- NT1 cesium additions
- NT1 cesium base alloys

**CESIUM BASE ALLOYS**

- \*BT1 cesium alloys

**CESIUM BROMIDES**

- \*BT1 bromides
- \*BT1 cesium compounds

**CESIUM CARBIDES**

- \*BT1 carbides
- \*BT1 cesium compounds

**CESIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 cesium compounds

**CESIUM CHLORIDES**

- \*BT1 cesium compounds
- \*BT1 chlorides

**CESIUM COMPLEXES**

- \*BT1 alkali metal complexes

**CESIUM COMPOUNDS***1996-06-26*

- UF cesium nitrides
- BT1 alkali metal compounds
- NT1 cesium bromides
- NT1 cesium carbides
- NT1 cesium carbonates
- NT1 cesium chlorides
- NT1 cesium fluorides
- NT1 cesium hydrides
- NT1 cesium hydroxides
- NT1 cesium iodides
- NT1 cesium nitrates
- NT1 cesium oxides
- NT1 cesium perchlorates
- NT1 cesium phosphates
- NT1 cesium selenides
- NT1 cesium silicates
- NT1 cesium silicides
- NT1 cesium sulfates
- NT1 cesium sulfides
- NT1 cesium tellurides
- NT1 cesium tungstates
- NT1 cesium uranates

**CESIUM FLUORIDES**

- \*BT1 cesium compounds
- \*BT1 fluorides

**CESIUM HYDRIDES**

- \*BT1 cesium compounds
- \*BT1 hydrides

**CESIUM HYDROXIDES**

- \*BT1 cesium compounds
- \*BT1 hydroxides

**CESIUM IODIDES**

- \*BT1 cesium compounds
- \*BT1 inorganic phosphors
- \*BT1 iodides

**CESIUM IONS**

- \*BT1 ions

**CESIUM ISOTOPES***1999-07-16*

- BT1 isotopes
- NT1 cesium 113
- NT1 cesium 114
- NT1 cesium 115
- NT1 cesium 116
- NT1 cesium 117
- NT1 cesium 118
- NT1 cesium 119
- NT1 cesium 120
- NT1 cesium 121
- NT1 cesium 122
- NT1 cesium 123
- NT1 cesium 124
- NT1 cesium 125
- NT1 cesium 126
- NT1 cesium 127
- NT1 cesium 128
- NT1 cesium 129
- NT1 cesium 130
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- NT1 cesium 136
- NT1 cesium 137
- NT1 cesium 138
- NT1 cesium 139
- NT1 cesium 140
- NT1 cesium 141
- NT1 cesium 142
- NT1 cesium 143
- NT1 cesium 144
- NT1 cesium 145
- NT1 cesium 146
- NT1 cesium 147
- NT1 cesium 148
- NT1 cesium 149
- NT1 cesium 150

**CESIUM NITRATES**

- \*BT1 cesium compounds
- \*BT1 nitrates

**cesium nitrides***1996-06-26**(Until June 1996 this was a valid descriptor.)*

- USE cesium compounds
- USE nitrides

**CESIUM OXIDES**

- \*BT1 cesium compounds
- \*BT1 oxides

**CESIUM PERCHLORATES***1978-11-24*

- \*BT1 cesium compounds
- \*BT1 perchlorates

**CESIUM PHOSPHATES**

- \*BT1 cesium compounds
- \*BT1 phosphates

**CESIUM SELENIDES***INIS: 1979-09-18; ETDE: 1979-10-23*

- \*BT1 cesium compounds
- \*BT1 selenides

**CESIUM SILICATES**

- \*BT1 cesium compounds
- \*BT1 silicates
- RT pollucite

**CESIUM SILICIDES***1988-02-02*

- \*BT1 cesium compounds
- \*BT1 silicides

**CESIUM SULFATES**

- \*BT1 cesium compounds
- \*BT1 sulfates

**CESIUM SULFIDES**

- \*BT1 cesium compounds
- \*BT1 sulfides

**CESIUM TELLURIDES***INIS: 1983-02-03; ETDE: 1979-05-03*

- \*BT1 cesium compounds
- \*BT1 tellurides

**CESIUM TUNGSTATES***1978-05-19*

- \*BT1 cesium compounds
- \*BT1 tungstates

**CESIUM URANATES***1975-11-27*

- \*BT1 cesium compounds
- \*BT1 uranates

**CESNEF REACTOR***Centro Studi Nucleari E. Fermi, Milan, Italy.**UF centro studi nucleari enrico fermi reactor**UF enrico fermi nuclear research center reactor**UF l-54 reactor*

- \*BT1 aqueous homogeneous reactors
- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 research reactors
- \*BT1 test reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**CESR STORAGE RING***INIS: 1979-01-18; ETDE: 1979-02-23**UF cornell electron-positron storage ring**BT1 storage rings***CESTODES***1996-11-13**(Prior to March 1997 HYMENOLEPIS was a valid ETDE descriptor.)**UF hymenolepis**UF tapeworms**BT1 parasites**\*BT1 platyhelminths**RT hydatidosis***CETACEANS***INIS: 1991-09-30; ETDE: 1976-05-13**The order of aquatic mammals that includes whales, dolphins, and porpoises.**UF dolphins**UF porpoises**UF whales**BT1 aquatic organisms**\*BT1 mammals*



**cetane number**

2000-04-12

USE antiknock ratings

**cetene number**

2000-04-12

USE antiknock ratings

**ceylon**

USE sri lanka

**cfc**

INIS: 1992-06-19; ETDE: 1992-04-01

USE chlorofluorocarbons

**CFFC PROCESS**

INIS: 2000-04-12; ETDE: 1976-08-24

Coal liquefaction process developed by C-E  
lummus, a subsidiary of Combustion  
Engineering to produce low sulfur, low ash,  
synthetic boiler fuel.

UF clean fuel from coal process

\*BT1 coal liquefaction

**cfff**

INIS: 2000-04-12; ETDE: 1979-05-09

USE mhd generator cfff

**cfg reactor**

USE anex reactor

**CFRMF REACTOR**

INEEL, Idaho Falls, Idaho, USA. Shut down  
in 1991.

UF coupled fast reactor measurement  
facility

\*BT1 fast reactors

\*BT1 zero power reactors

**cfpr program**

INIS: 1994-08-22; ETDE: 1981-03-13

USE consolidated fuel reprocessing  
program**cfu (colony forming units)**

(Prior to January 2005 CFU was a valid  
descriptor.)

USE colony forming units

**CHACALTAYA**

\*BT1 bolivia

**CHAD**

BT1 africa

BT1 developing countries

**CHAIN CONVEYORS**

INIS: 2000-04-12; ETDE: 1982-09-10

\*BT1 conveyors

RT mine haulage

RT mining equipment

RT transport

**CHAIN REACTIONS**

RT criticality

RT fission

RT fissioning plasma

RT natural nuclear reactors

RT nuclear reactions

RT oklo phenomenon

RT thermonuclear reactions

**CHAINS**

INIS: 1999-02-12; ETDE: 1988-01-21

RT cables

RT ropes

RT wires

**CHALCOGENIDES**

NT1 oxides

NT2 aluminium oxides

NT2 americium oxides

NT2 antimony oxides

NT2 argon oxides

NT2 arsenic oxides

NT2 barium oxides

NT2 berkelium oxides

NT2 beryllium oxides

NT2 bismuth oxides

NT2 boron oxides

NT2 bromine oxides

NT2 cadmium oxides

NT2 calcium oxides

NT2 californium oxides

NT2 carbon oxides

NT3 carbon dioxide

NT3 carbon monoxide

NT2 cerium oxides

NT2 cesium oxides

NT2 chlorine oxides

NT2 chromium oxides

NT2 cobalt oxides

NT2 copper oxides

NT2 curium oxides

NT2 dysprosium oxides

NT2 einsteinium oxides

NT2 erbium oxides

NT2 europium oxides

NT2 fluorine oxides

NT2 gadolinium oxides

NT2 gallium oxides

NT2 germanium oxides

NT2 gold oxides

NT2 hafnium oxides

NT2 holmium oxides

NT2 indium oxides

NT2 iodine oxides

NT2 iridium oxides

NT2 iron oxides

NT2 krypton oxides

NT2 lanthanum oxides

NT2 lead oxides

NT2 lithium oxides

NT2 lutetium oxides

NT2 magnesium oxides

NT2 manganese oxides

NT2 mercury oxides

NT2 molybdenum oxides

NT3 molybdenum blue

NT2 neodymium oxides

NT2 neptunium oxides

NT2 nickel oxides

NT2 niobium oxides

NT2 nitrogen oxides

NT3 nitric oxide

NT3 nitrogen dioxide

NT3 nitrous oxide

NT2 osmium oxides

NT2 palladium oxides

NT2 phosphorus oxides

NT2 platinum oxides

NT2 plutonium oxides

NT3 plutonium dioxide

NT2 polonium oxides

NT2 potassium oxides

NT2 praseodymium oxides

NT2 promethium oxides

NT2 protactinium oxides

NT2 radium oxides

NT2 radon oxides

NT2 rhenium oxides

NT2 rhodium oxides

NT2 rubidium oxides

NT2 ruthenium oxides

NT2 samarium oxides

NT2 scandium oxides

NT2 selenium oxides

NT2 silicon oxides

NT2 silver oxides

NT2 sodium oxides

NT3 sodium tungsten bronze

NT2 strontium oxides

NT2 sulfur oxides

NT3 sulfur dioxide

NT3 sulfur trioxide

NT2 tantalum oxides

NT2 technetium oxides

NT2 tellurium oxides

NT2 terbium oxides

NT2 thallium oxides

NT2 thorium oxides

NT3 thorotrast

NT2 thulium oxides

NT2 tin oxides

NT2 titanium oxides

NT2 tritium oxides

NT2 tungsten oxides

NT3 sodium tungsten bronze

NT2 uranium oxides

NT3 uranium dioxide

NT3 uranium oxides u3o8

NT3 uranium trioxide

NT2 vanadium oxides

NT2 xenon oxides

NT2 ytterbium oxides

NT2 yttrium oxides

NT3 alloy-in-853

NT2 zinc oxides

NT2 zirconium oxides

NT1 selenides

NT2 aluminium selenides

NT2 antimony selenides

NT2 arsenic selenides

NT2 beryllium selenides

NT2 bismuth selenides

NT2 cadmium selenides

NT2 cerium selenides

NT2 cesium selenides

NT2 chromium selenides

NT2 cobalt selenides

NT2 copper selenides

NT2 dysprosium selenides

NT2 erbium selenides

NT2 europium selenides

NT2 gadolinium selenides

NT2 gallium selenides

NT2 germanium selenides

NT2 hafnium selenides

NT2 holmium selenides

NT2 indium selenides

NT2 iron selenides

NT2 lanthanum selenides

NT2 lead selenides

NT2 lithium selenides

NT2 manganese selenides

NT2 mercury selenides

NT2 molybdenum selenides

NT2 neptunium selenides

NT2 nickel selenides

NT2 niobium selenides

NT2 palladium selenides

NT2 plutonium selenides

NT2 potassium selenides

NT2 praseodymium selenides

NT2 rhenium selenides

NT2 rhodium selenides

NT2 rubidium selenides

NT2 ruthenium selenides

NT2 samarium selenides

NT2 silver selenides

NT2 sodium selenides

NT2 tantalum selenides

NT2 technetium selenides

NT2 terbium selenides

NT2 thallium selenides

NT2 thorium selenides

NT2 thulium selenides

NT2 tin selenides

NT2 titanium selenides

NT2 tungsten selenides

NT2 uranium selenides

NT2 vanadium selenides  
 NT2 ytterbium selenides  
 NT2 yttrium selenides  
 NT2 zinc selenides  
 NT2 zirconium selenides  
 NT1 sulfides  
 NT2 aluminium sulfides  
 NT2 antimony sulfides  
 NT2 arsenic sulfides  
 NT2 barium sulfides  
 NT2 bismuth sulfides  
 NT2 boron sulfides  
 NT2 cadmium sulfides  
 NT2 calcium sulfides  
 NT2 carbon sulfides  
 NT2 cerium sulfides  
 NT2 cesium sulfides  
 NT2 chromium sulfides  
 NT2 cobalt sulfides  
 NT2 copper sulfides  
 NT2 dimethyl sulfide  
 NT2 dysprosium sulfides  
 NT2 erbium sulfides  
 NT2 europium sulfides  
 NT2 gadolinium sulfides  
 NT2 gallium sulfides  
 NT2 germanium sulfides  
 NT2 hafnium sulfides  
 NT2 holmium sulfides  
 NT2 hydrogen sulfides  
 NT2 indium sulfides  
 NT2 iron sulfides  
 NT2 lanthanum sulfides  
 NT2 lead sulfides  
 NT2 lithium sulfides  
 NT2 lutetium sulfides  
 NT2 magnesium sulfides  
 NT2 manganese sulfides  
 NT2 mercury sulfides  
 NT2 molybdenum sulfides  
 NT2 neodymium sulfides  
 NT2 neptunium sulfides  
 NT2 nickel sulfides  
 NT2 niobium sulfides  
 NT2 osmium sulfides  
 NT2 palladium sulfides  
 NT2 phosphorus sulfides  
 NT2 platinum sulfides  
 NT2 plutonium sulfides  
 NT2 potassium sulfides  
 NT2 praseodymium sulfides  
 NT2 rhenium sulfides  
 NT2 rhodium sulfides  
 NT2 rubidium sulfides  
 NT2 ruthenium sulfides  
 NT2 samarium sulfides  
 NT2 scandium sulfides  
 NT2 selenium sulfides  
 NT2 silicon sulfides  
 NT2 silver sulfides  
 NT2 sodium sulfides  
 NT2 strontium sulfides  
 NT2 tantalum sulfides  
 NT2 technetium sulfides  
 NT2 tellurium sulfides  
 NT2 terbium sulfides  
 NT2 thallium sulfides  
 NT2 thorium sulfides  
 NT2 thulium sulfides  
 NT2 tin sulfides  
 NT2 titanium sulfides  
 NT2 tungsten sulfides  
 NT2 uranium sulfides  
 NT2 vanadium sulfides  
 NT2 ytterbium sulfides  
 NT2 yttrium sulfides  
 NT2 zinc sulfides  
 NT2 zirconium sulfides  
 NT1 tellurides

NT2 aluminium tellurides  
 NT2 antimony tellurides  
 NT2 arsenic tellurides  
 NT2 beryllium tellurides  
 NT2 bismuth tellurides  
 NT2 cadmium tellurides  
 NT2 cerium tellurides  
 NT2 cesium tellurides  
 NT2 chromium tellurides  
 NT2 cobalt tellurides  
 NT2 copper tellurides  
 NT2 dysprosium tellurides  
 NT2 erbium tellurides  
 NT2 europium tellurides  
 NT2 gadolinium tellurides  
 NT2 gallium tellurides  
 NT2 germanium tellurides  
 NT2 gold tellurides  
 NT2 hafnium tellurides  
 NT2 holmium tellurides  
 NT2 indium tellurides  
 NT2 iridium tellurides  
 NT2 iron tellurides  
 NT2 lanthanum tellurides  
 NT2 lead tellurides  
 NT2 lithium tellurides  
 NT2 magnesium tellurides  
 NT2 manganese tellurides  
 NT2 mercury tellurides  
 NT2 molybdenum tellurides  
 NT2 neodymium tellurides  
 NT2 neptunium tellurides  
 NT2 nickel tellurides  
 NT2 niobium tellurides  
 NT2 palladium tellurides  
 NT2 platinum tellurides  
 NT2 plutonium tellurides  
 NT2 potassium tellurides  
 NT2 praseodymium tellurides  
 NT2 rhenium tellurides  
 NT2 rhodium tellurides  
 NT2 rubidium tellurides  
 NT2 ruthenium tellurides  
 NT2 samarium tellurides  
 NT2 selenium tellurides  
 NT2 silver tellurides  
 NT2 sodium tellurides  
 NT2 tantalum tellurides  
 NT2 terbium tellurides  
 NT2 thallium tellurides  
 NT2 thorium tellurides  
 NT2 thulium tellurides  
 NT2 tin tellurides  
 NT2 titanium tellurides  
 NT2 tungsten tellurides  
 NT2 uranium tellurides  
 NT2 vanadium tellurides  
 NT2 ytterbium tellurides  
 NT2 yttrium tellurides  
 NT2 zinc tellurides  
 NT2 zirconium tellurides  
 RT high-*tc* superconductors

### CHALCOPYRITE

*A bright brass-yellow tetragonal mineral.*

\*BT1 sulfide minerals  
 RT copper sulfides  
 RT iron sulfides

### chalk

INIS: 1984-04-04; ETDE: 2002-06-13  
 USE calcite

### CHALK RIVER

\*BT1 ontario

### chalk river cyclotron

INIS: 2000-04-12; ETDE: 1983-03-24  
 USE crnl superconducting cyclotron

### CHALK RIVER NUCLEAR LABS

\*BT1 atomic energy of canada ltd  
 RT canada

### chalk river pool test reactor

USE ptr reactor

### chalk river superconducting cyclotron

INIS: 1993-11-04; ETDE: 2002-06-13  
 USE crnl superconducting cyclotron

### chalk river zed-2 reactor

INIS: 1984-06-21; ETDE: 2002-06-13  
 USE zed-2 reactor

### chalks

INIS: 2000-04-12; ETDE: 1978-06-14  
 USE limestone

### CHAMBER FURNACES

INIS: 2000-04-12; ETDE: 1976-11-17  
 UF chamber kilns  
 UF chamber ovens  
 BT1 furnaces

### chamber kilns

INIS: 2000-04-12; ETDE: 1976-11-17  
 USE chamber furnaces

### chamber ovens

INIS: 2000-04-12; ETDE: 1976-11-17  
 USE chamber furnaces

### CHANDIGARH CYCLOTRON

INIS: 1983-06-01; ETDE: 1983-03-24  
 \*BT1 variable energy cyclotrons

### chandrasekhar-fermi theory

USE chandrasekhar theory

### CHANDRASEKHAR THEORY

UF chandrasekhar-fermi theory  
 RT astrophysics  
 RT stars

### CHANNELING

UF blocking  
 UF coning  
 UF dechanneling  
 NT1 electron channeling  
 NT1 ion channeling  
 NT1 positron channeling  
 NT1 proton channeling

### channels (reactor)

USE reactor channels

### CHAOS THEORY

INIS: 2002-06-24; ETDE: 2002-08-05  
 BT1 mathematics  
 RT fuzzy logic  
 RT mathematical space  
 RT probability  
 RT statistics  
 RT stochastic processes

### CHAPELCROSS-1 REACTOR

Annan, Scotland, United Kingdom.  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 magnox type reactors  
 \*BT1 plutonium production reactors  
 \*BT1 thermal reactors

### CHAPELCROSS-2 REACTOR

Annan, Scotland, United Kingdom.  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 magnox type reactors  
 \*BT1 plutonium production reactors  
 \*BT1 thermal reactors

**CHAPELCROSS-3 REACTOR**

Annan, Scotland, United Kingdom.

- \*BT1 carbon dioxide cooled reactors
- \*BT1 magnox type reactors
- \*BT1 plutonium production reactors
- \*BT1 thermal reactors

**CHAPELCROSS-4 REACTOR**

Annan, Scotland, United Kingdom.

- \*BT1 carbon dioxide cooled reactors
- \*BT1 magnox type reactors
- \*BT1 plutonium production reactors
- \*BT1 thermal reactors

**chaperonins**

1994-07-14

- USE heat-shock proteins

**CHAPMAN-ENSKOG THEORY**

- RT transport theory

**CHAPMAN-FERRARO PROBLEM**

- RT solar wind
- RT transport theory

**CHAPMAN-KOLMOGOROV EQUATION**

A set of equations used in the theory of stochastic processes, giving the state of a system as a probability distribution at a certain time in terms of the known states at previous times.

- SF kolmogorov equation
- \*BT1 differential equations
- RT markov process
- RT reactor kinetics equations
- RT stochastic processes

**char oil energy development process**

2000-04-12

- USE coed process

**CHARCOAL**

1999-01-20

- BT1 adsorbents
- RT activated carbon
- RT solid fuels
- RT wood fuels

**CHARGE CARRIERS**

- RT carrier density
- RT carrier lifetime
- RT carrier mobility
- RT dember effect
- RT electric charges
- RT electron-hole droplets
- RT electrons
- RT holes
- RT point defects

**CHARGE COLLECTION**

- RT charge transport
- RT charged particles

**charge conjugation invariance**

- USE c invariance

**CHARGE CONSERVATION**

- UF conservation (charge)
- RT electric charges
- RT gauge invariance

**CHARGE-COUPLED DEVICES**

INIS: 1979-09-18; ETDE: 1978-04-27

Semiconductor devices arrayed so that the electric charge at the output of one provides the input stimulus to the next.

- UF ccd
- BT1 semiconductor devices

**CHARGE DENSITY**

INIS: 1976-05-05; ETDE: 1976-08-24

- UF density (charge)

- RT electric charges

- RT energy density

**CHARGE DISTRIBUTION**

INIS: 1982-11-29; ETDE: 1975-08-19

Not for CHARGE STATES.

(Prior to January 1983 this concept was indexed by coordination of ELECTRIC CHARGES and SPATIAL DISTRIBUTION.)

- RT electric charges
- RT electrostatics
- RT ion beams
- RT multiple production
- RT nuclear radii
- RT space charge
- RT spatial distribution

**CHARGE EXCHANGE**

- UF exchange (charge)
- RT beam neutralization
- RT beam strippers
- RT electron capture
- RT electron loss
- RT hydrogen transfer
- RT ionization
- RT neutral particle analyzers
- RT plasma potential

**CHARGE-EXCHANGE INTERACTIONS**

- \*BT1 strong interactions
- RT cluster emission model

**CHARGE-EXCHANGE REACTIONS**

- BT1 nuclear reactions

**CHARGE INDEPENDENCE**

- BT1 invariance principles
- RT nucleons
- RT strong interactions

**CHARGE PLUNGER METHOD**

INIS: 1978-08-30; ETDE: 1978-10-19

Method for the determination of lifetimes of nuclear levels.

- UF plunger method
- UF recoil distance method
- BT1 counting techniques
- RT lifetime
- RT time-of-flight method

**charge radius (nuclear)**

- USE nuclear radii

**charge radius (particle)**

- USE particle radii

**charge ratio**

INIS: 2000-04-12; ETDE: 1978-07-05

- USE minus-plus ratio

**CHARGE RENORMALIZATION**

- BT1 renormalization
- RT electrodynamics

**charge state (batteries)**

INIS: 1993-02-04; ETDE: 2002-06-13

- USE battery charge state

**charge state distributions**

INIS: 1984-06-21; ETDE: 2002-06-13

- USE charge states

**CHARGE STATES**

INIS: 1984-06-21; ETDE: 1984-07-10

NOT for electric batteries.

- UF charge state distributions
- RT beam strippers
- RT charged particles
- RT electric charges
- RT electron capture
- RT electron loss
- RT ionization

- RT ions

**CHARGE TRANSPORT**

- RT charge collection
- RT electric charges

**CHARGED-CURRENT INTERACTIONS**

INIS: 1976-08-17; ETDE: 1976-06-07

- \*BT1 particle interactions
- RT basic interactions
- RT charged currents
- RT weinberg angle

**CHARGED CURRENTS**

INIS: 1976-08-17; ETDE: 1976-06-07

- \*BT1 algebraic currents
- NT1 weak charged currents
- RT charged-current interactions
- RT electromagnetic interactions
- RT neutral currents
- RT weak interactions

**CHARGED-PARTICLE ACTIVATION ANALYSIS**

INIS: 1978-11-24; ETDE: 1991-08-20

For the process.

- UF analysis (charged-particle activation)
- \*BT1 activation analysis

**CHARGED PARTICLE DETECTION**

- \*BT1 radiation detection
- NT1 acoustic detection
- NT1 alpha detection
- NT1 beta detection
- NT1 electron detection
- NT1 ion detection
- NT1 muon detection
- NT1 positron detection
- NT1 proton detection
- RT cosmic ray detection
- RT fission fragment detection
- RT radiation detectors
- RT radiation length

**CHARGED-PARTICLE PRECIPITATION**

- NT1 electron precipitation
- NT1 proton precipitation
- RT aurorae
- RT auroral oval
- RT charged particles
- RT midday aurorae
- RT radiation belts

**CHARGED-PARTICLE REACTIONS**

2000-04-12

- BT1 nuclear reactions
- NT1 alpha reactions
- NT1 deuterium reactions
- NT2 antideuteron reactions
- NT1 electron reactions
- NT2 electrofission
- NT1 helium 3 reactions
- NT1 meson reactions
- NT2 kaon reactions
- NT3 kaon minus reactions
- NT3 kaon neutral reactions
- NT3 kaon plus reactions
- NT2 pion reactions
- NT3 pion minus reactions
- NT3 pion plus reactions
- NT1 muon reactions
- NT1 proton reactions
- NT1 triton reactions
- RT charged particles
- RT ions

**CHARGED-PARTICLE TRANSPORT**

- UF transport (charged-particle)
- BT1 radiation transport

NT1 proton transport  
 RT charged-particle transport theory  
 RT charged particles

### CHARGED-PARTICLE TRANSPORT THEORY

BT1 transport theory  
 NT1 neoclassical transport theory  
 NT1 spitzer theory  
 RT charged-particle transport  
 RT charged particles  
 RT elementary particles

### CHARGED PARTICLES

*In addition to the specific charged particles listed below, see also the list under ELEMENTARY PARTICLES.*

NT1 alpha particles  
 NT2 cosmic alpha particles  
 NT2 delayed alpha particles  
 NT2 solar alpha particles  
 NT1 beta particles  
 NT1 deuterons  
 NT2 antideuterons  
 NT1 ions  
 NT2 actinium ions  
 NT2 aluminium ions  
 NT2 americium ions  
 NT2 anions  
 NT3 heteropolyanions  
 NT3 hydrogen ions 1 minus  
 NT2 antimony ions  
 NT2 argon ions  
 NT2 arsenic ions  
 NT2 astatine ions  
 NT2 atomic ions  
 NT2 barium ions  
 NT2 berkelium ions  
 NT2 beryllium ions  
 NT2 bismuth ions  
 NT2 boron ions  
 NT2 bromine ions  
 NT2 cadmium ions  
 NT2 calcium ions  
 NT2 californium ions  
 NT2 carbon ions  
 NT2 cations  
 NT3 hydrogen ions 1 plus  
 NT3 hydrogen ions 2 plus  
 NT3 hydrogen ions 3 plus  
 NT2 cerium ions  
 NT2 cesium ions  
 NT2 chlorine ions  
 NT2 chromium ions  
 NT2 cobalt ions  
 NT2 copper ions  
 NT2 curium ions  
 NT2 deuterium ions  
 NT2 dysprosium ions  
 NT2 einsteinium ions  
 NT2 erbium ions  
 NT2 europium ions  
 NT2 fermium ions  
 NT2 fluorine ions  
 NT2 francium ions  
 NT2 gadolinium ions  
 NT2 gallium ions  
 NT2 germanium ions  
 NT2 gold ions  
 NT2 hafnium ions  
 NT2 heavy ions  
 NT2 helium ions  
 NT3 helium ash  
 NT2 holmium ions  
 NT2 hydrogen ions  
 NT3 hydrogen ions 1 minus  
 NT3 hydrogen ions 1 plus  
 NT3 hydrogen ions 2 plus  
 NT3 hydrogen ions 3 plus  
 NT2 indium ions

NT2 iodine ions  
 NT2 iridium ions  
 NT2 iron ions  
 NT2 krypton ions  
 NT2 lanthanum ions  
 NT2 lead ions  
 NT2 light ions  
 NT2 lithium ions  
 NT2 lutetium ions  
 NT2 magnesium ions  
 NT2 manganese ions  
 NT2 mercury ions  
 NT2 molecular ions  
 NT3 hydrogen ions 2 plus  
 NT3 hydrogen ions 3 plus  
 NT3 oxonium ions  
 NT2 molybdenum ions  
 NT2 multicharged ions  
 NT2 muonic ions  
 NT2 neodymium ions  
 NT2 neon ions  
 NT2 neptunium ions  
 NT2 nickel ions  
 NT2 niobium ions  
 NT2 nitrogen ions  
 NT2 osmium ions  
 NT2 oxygen ions  
 NT2 palladium ions  
 NT2 phosphorus ions  
 NT2 platinum ions  
 NT2 plutonium ions  
 NT2 polonium ions  
 NT2 potassium ions  
 NT2 praseodymium ions  
 NT2 promethium ions  
 NT2 protactinium ions  
 NT2 radium ions  
 NT2 radon ions  
 NT2 rhenium ions  
 NT2 rhodium ions  
 NT2 rubidium ions  
 NT2 ruthenium ions  
 NT2 samarium ions  
 NT2 scandium ions  
 NT2 selenium ions  
 NT2 silicon ions  
 NT2 silver ions  
 NT2 sodium ions  
 NT2 strontium ions  
 NT2 sulfur ions  
 NT2 tail ions  
 NT2 tantalum ions  
 NT2 technetium ions  
 NT2 tellurium ions  
 NT2 terbium ions  
 NT2 thallium ions  
 NT2 thorium ions  
 NT2 thulium ions  
 NT2 tin ions  
 NT2 titanium ions  
 NT2 tritium ions  
 NT2 tungsten ions  
 NT2 uranium ions  
 NT2 vanadium ions  
 NT2 xenon ions  
 NT2 ytterbium ions  
 NT2 yttrium ions  
 NT2 zinc ions  
 NT2 zirconium ions  
 NT1 tritons  
 NT2 antitritons  
 RT battery charge state  
 RT charge collection  
 RT charge states  
 RT charged-particle precipitation  
 RT charged-particle reactions  
 RT charged-particle transport  
 RT charged-particle transport theory  
 RT directed-energy weapons

RT guiding-center approximation  
 RT ion beams  
 RT lorentz force  
 RT ponderomotive force  
 RT stoerner theory  
 RT test particles

### CHARGES

*Pecuniary burden or fees.*  
 (From November 1979 till March 1997 SURCHARGES was a valid ETDE descriptor.)  
 UF assessments  
 UF fees  
 UF financial penalties  
 UF penalties  
 SF surcharges  
 RT cost  
 RT cost overruns  
 RT cost recovery  
 RT emissions trading  
 RT income  
 RT interest rate  
 RT invoices  
 RT prices  
 RT tax credits  
 RT taxes

#### charging (fission reactor)

1982-11-29  
 USE reactor fueling

#### charging (fusion reactor)

INIS: 1982-11-30; ETDE: 2002-06-13  
 USE thermonuclear reactor fueling

#### charging machines (fission reactor)

1993-11-04  
 USE reactor charging machines

#### chariot event

2000-04-12  
 (Prior to March 1996 this was a valid ETDE descriptor.)  
 USE plowshare project

### CHARM PARTICLES

1995-09-08  
 BT1 elementary particles  
 NT1 c quarks  
 NT1 charmed baryons  
 NT2 lambda c-2625 baryons  
 NT2 lambda c plus baryons  
 NT2 omega c neutral baryons  
 NT2 sigma c-2455 baryons  
 NT2 xi c neutral baryons  
 NT2 xi c plus baryons  
 NT1 charmed mesons  
 NT2 b c mesons  
 NT2 d mesons  
 NT3 d minus mesons  
 NT3 d neutral mesons  
 NT4 anti-d neutral mesons  
 NT3 d plus mesons  
 NT2 d s-2536 mesons  
 NT2 d s mesons  
 NT2 d\*-2010 mesons  
 NT2 d\*2-2460 mesons  
 NT2 d\*s-2110 mesons  
 NT2 d1-2420 mesons  
 RT charmonium  
 RT color model  
 RT hadrons  
 RT hypercharge  
 RT isospin  
 RT quark model  
 RT su-3 groups

**charmed baryon resonances**

INIS: 1987-12-21; ETDE: 1978-10-19  
(Prior to December 1987 this was a valid descriptor.)  
USE charmed baryons

**CHARMED BARYONS**

INIS: 1995-07-17; ETDE: 1988-02-05  
(Prior to December 1987 this concept was indexed by CHARMED BARYON RESONANCES.)

- UF charmed baryon resonances
- \*BT1 baryons
- \*BT1 charm particles
- NT1 lambda c-2625 baryons
- NT1 lambda c plus baryons
- NT1 omega c neutral baryons
- NT1 sigma c-2455 baryons
- NT1 xi c neutral baryons
- NT1 xi c plus baryons

**charmed meson resonances**

INIS: 1988-03-08; ETDE: 1978-01-23  
(Prior to December 1987 this was a valid descriptor.)  
USE charmed mesons

**CHARMED MESONS**

INIS: 1995-07-17; ETDE: 1988-02-02  
(Prior to February 1988 CHARMED MESON RESONANCES was used for this concept in ETDE.)

- UF charmed meson resonances
- UF d resonances
- \*BT1 charm particles
- \*BT1 mesons
- NT1 b c mesons
- NT1 d mesons
  - NT2 d minus mesons
  - NT2 d neutral mesons
  - NT3 anti-d neutral mesons
- NT2 d plus mesons
- NT1 d s-2536 mesons
- NT1 d s mesons
- NT1 d\*-2010 mesons
- NT1 d\*-2460 mesons
- NT1 d\*s-2110 mesons
- NT1 d1-2420 mesons

**CHARMONIUM**

INIS: 1995-09-08; ETDE: 1976-11-01  
A bound state of charm and anticharm quarks.

- \*BT1 mesons
- BT1 quarkonium
- NT1 chi0-3415 mesons
- NT1 chi1-3510 mesons
- NT1 chi2-3555 mesons
- NT1 eta c-2980 mesons
- NT1 eta c-3590 mesons
- NT1 j psi-3097 mesons
- NT1 psi-3685 mesons
- NT1 psi-3770 mesons
- NT1 psi-4040 mesons
- NT1 psi-4160 mesons
- NT1 psi-4415 mesons
- RT bound state
- RT c quarks
- RT charm particles
- RT flavor model
- RT muonium

**charpak chambers**

USE multewire proportional chambers

**CHARPY TEST**

- \*BT1 destructive testing
- \*BT1 impact tests

**CHARS**

1991-09-30  
UF coal chars

- BT1 pyrolysis products
- RT by-products
- RT coal
- RT coalcon process
- RT consol stirred bed process

**charts**

USE diagrams

**CHATTAHOOCHEE RIVER**

2000-04-12

- \*BT1 rivers
- RT alabama
- RT florida
- RT georgia

**CHATTANOOGA**

2000-04-12

- \*BT1 tennessee
- BT1 urban areas

**CHATTANOOGA FORMATION**

INIS: 1977-03-14; ETDE: 1976-01-23

- UF chattanooga shale
- \*BT1 appalachian basin
- BT1 geologic formations
- RT alabama
- RT arkansas
- RT black shales
- RT geologic strata
- RT georgia
- RT illinois
- RT kansas
- RT kentucky
- RT mississippi
- RT missouri
- RT ohio
- RT oil shale deposits
- RT oklahoma
- RT tennessee
- RT uranium deposits
- RT uranium ores

**chattanooga shale**

INIS: 1977-03-14; ETDE: 2002-06-13  
USE chattanooga formation

**CHEESE**

- \*BT1 milk products
- RT whey

**CHELATES**

- BT1 complexes
- RT chelating agents

**CHELATING AGENTS**

1996-10-23

- UF complexing agents
- UF cpdta
- UF cyclopentanediaminetetraacetic acid
- UF hexamethylenediaminetetraacetic acid
- UF hmdta
- UF tna
- UF trionylamine
- SF chemicals
- NT1 acetylacetone
- NT1 cdta
- NT1 dcta
- NT1 dedtc
- NT1 deferoxamine
- NT1 dimercaprol
- NT1 dithizone
- NT1 dtpa
- NT1 eddha
- NT1 edta
- NT1 egta
- NT1 hedta
- NT1 heida
- NT1 mdpa
- NT1 nta

- NT1 penicillamine
- NT1 tda
- NT1 tetaha
- NT1 tridodecylamine
- NT1 trioctylamine
- RT chelates
- RT crown ethers
- RT decontamination
- RT drugs

**CHEMICAL ACTIVATION**

1999-05-04

- UF activation (chemical)
- RT activation energy
- RT deactivation
- RT enzyme reactivation
- RT excitation
- RT metabolic activation

**chemical activity**

INIS: 1976-10-07; ETDE: 1977-06-30  
USE thermodynamic activity

**CHEMICAL ANALYSIS**

- UF content analysis
- UF destructive chemical analysis
- UF determination (chemical)
- SF ring oven method
- NT1 ion selective electrode analysis
- NT1 multi-element analysis
- NT1 nondestructive analysis
  - NT2 activation analysis
    - NT3 charged-particle activation analysis
    - NT3 neutron activation analysis
    - NT3 photon activation analysis
  - NT2 delayed neutron analysis
  - NT2 deuteron microprobe analysis
  - NT2 electron microprobe analysis
  - NT2 ion microprobe analysis
  - NT2 ion scattering analysis
  - NT2 nuclear reaction analysis
    - NT3 delayed neutron analysis
  - NT2 proton microprobe analysis
  - NT2 radiation absorption analysis
  - NT2 radiation scattering analysis
  - NT2 x-ray emission analysis
    - NT3 pixe analysis
    - NT3 x-ray fluorescence analysis
- NT1 qualitative chemical analysis
- NT1 quantitative chemical analysis
  - NT2 gravimetric analysis
    - NT3 thermal gravimetric analysis
  - NT2 radio-release analysis
  - NT2 radiochemical analysis
  - NT2 radiometric analysis
  - NT2 volumetric analysis
    - NT3 titration
      - NT4 amperometry
      - NT4 iodometry
      - NT4 potentiometry
      - NT4 thermometric titration
- RT carbon meters
- RT centrifugal fast analyzers
- RT crime detection
- RT derivatization
- RT hydrogen meters
- RT icp mass spectroscopy
- RT ion probes
- RT oxygen meters
- RT polarimetry
- RT post-irradiation examination
- RT structural chemical analysis
- RT sulfur meters
- RT supercritical fluid chromatography
- RT tritium meters
- RT water chemistry

**CHEMICAL ATTRACTANTS**

INIS: 1992-04-16; ETDE: 1992-06-10

- NT1 pheromone
- RT insects
- RT odor
- RT pest control

**CHEMICAL BONDS**

- NT1 double bonds
- RT adducts
- RT binding energy
- RT bond angle
- RT bond lengths
- RT dna adducts

**CHEMICAL COATING**

- \*BT1 surface coating
- NT1 chemical vapor deposition
- NT1 electrochemical coating
- NT2 anodization

**CHEMICAL COMPOSITION**

- UF abundance (chemical)
- RT abundance
- RT ash content
- RT cosmochemistry
- RT element abundance
- RT iodine number
- RT ionic composition
- RT quantitative chemical analysis
- RT stoichiometry
- RT sulfur content
- RT water chemistry

**CHEMICAL DECLADDING**

- \*BT1 decladding

**CHEMICAL DOSEMETERS**

- UF fricke dosimeters
- \*BT1 dosimeters
- RT chemical radiation detectors

**chemical effects of nuclear transformations**

INIS: 1993-11-04; ETDE: 2002-06-13  
USE hot atom chemistry

**CHEMICAL EFFLUENTS**

1975-10-09

- UF effluents (chemical)
- \*BT1 chemical wastes
- RT gaseous wastes
- RT industrial wastes
- RT liquid wastes
- RT nonradioactive waste disposal
- RT particle resuspension
- RT pollutants
- RT pollution abatement
- RT radioactive effluents
- RT stack disposal
- RT water pollution monitors

**CHEMICAL ENGINEERING**

INIS: 1992-02-03; ETDE: 1984-09-05

- BT1 engineering
- RT chemistry

**CHEMICAL EXPLOSIONS**

1996-07-23

- UF cowboy event
- UF events (chemical explosions)
- UF middle gust event
- BT1 explosions
- RT chemical explosives
- RT contained explosions
- RT cratering explosions
- RT explosive fracturing
- RT explosive stimulation
- RT flashback
- RT underground explosions

**CHEMICAL EXPLOSIVES**

(From May 1975 till March 1997

PYROTECHNIC DEVICES was a valid ETDE descriptor. From August 1979 till March 1997 SHAPED CHARGES was a valid ETDE descriptor.)

- UF high explosives
- UF pyrotechnic devices
- UF shaped charges
- BT1 explosives
- NT1 dynamite
- NT1 nitrocellulose
- NT1 nitroglycerin
- NT1 nitromethane
- NT1 petn
- NT1 picric acid
- NT1 tatb
- NT1 tetryl
- NT1 tnt
- RT chemical explosions
- RT detonation limits

**CHEMICAL FEEDSTOCKS**

INIS: 1992-06-30; ETDE: 1977-03-04

- UF petrochemical feedstocks
- \*BT1 raw materials
- RT inorganic compounds
- RT organic compounds
- RT petrochemicals
- RT pyrolytic gases

**chemical heat pipes**

INIS: 2000-04-12; ETDE: 1982-02-09  
(Prior to December 1991 this was a valid ETDE descriptor.)  
USE heat pipes

**CHEMICAL HEAT PUMPS**

INIS: 2000-04-12; ETDE: 1979-09-26  
Systems for transporting and storing high grade thermal energy by the use of reversible, exothermic/endothemic chemical reactions.

- UF hycsos
- BT1 heat pumps
- RT cooling systems
- RT heating systems
- RT thermochemical heat storage

**chemical heat storage**

INIS: 1993-06-04; ETDE: 2002-06-13  
USE thermochemical heat storage

**CHEMICAL INDUSTRY**

INIS: 1977-10-17; ETDE: 1975-08-19  
UF chlor-alkali industry  
BT1 industry  
RT chemical plants

**CHEMICAL LASERS**

The excitation process involves the making or breaking of a chemical bond.  
BT1 lasers  
RT dye lasers

**CHEMICAL LOGGING**

INIS: 2000-04-12; ETDE: 1980-10-28  
Profiling of the concentration of chemical elements found in various geological formation fluids relative to the depth at which they are found.  
BT1 well logging

**CHEMICAL MACHINING**

- UF chemical milling
- BT1 machining
- NT1 electrochemical machining

**chemical milling**

USE chemical machining

**chemical mutagens**

USE mutagens

**CHEMICAL OXYGEN DEMAND**

INIS: 1996-08-05; ETDE: 1978-03-08

- RT aquatic ecosystems
- RT biochemical oxygen demand
- RT liquid wastes
- RT oxygen

**CHEMICAL PHYSICS**

INIS: 2000-04-12; ETDE: 1984-09-05  
BT1 physics  
RT physical chemistry

**CHEMICAL PLANTS**

INIS: 1992-03-05; ETDE: 1978-12-28  
Industrial facilities operated by the chemical industry.

- BT1 industrial plants
- NT1 gasoline plants
- NT1 petrochemical plants
- RT biomass conversion plants
- RT chemical industry
- RT ethanol plants
- RT methanol plants
- RT petrochemicals

**CHEMICAL POLISHING**

- \*BT1 polishing

**CHEMICAL PREPARATION**

- UF preparation (chemical)
- BT1 synthesis
- RT chemical reactions

**CHEMICAL PROPERTIES**

- UF properties (chemical)
- RT affinity
- RT chemical reactions
- RT chemistry
- RT thermal degradation

**CHEMICAL RADIATION DETECTORS**

- \*BT1 radiation detectors
- RT chemical dosimeters

**CHEMICAL RADIATION EFFECTS**

- UF radiation hardening (chemical)
- UF radioinduced reactions
- UF radiopolymerization
- BT1 radiation effects
- NT1 lyoluminescence
- NT1 radiation curing
- NT1 radiolysis
- NT2 autoradiolysis
- RT host-cell reactivation
- RT radiation chemistry
- RT strand breaks

**CHEMICAL REACTION KINETICS**

- \*BT1 reaction kinetics
- NT1 combustion kinetics
- RT activation energy
- RT arrhenius equation
- RT bifurcation
- RT catalysis
- RT enzyme activity
- RT limit cycle
- RT reaction intermediates

**CHEMICAL REACTION YIELD**

- UF yield (chemical reaction)
- BT1 yields
- RT chemical reactions

**CHEMICAL REACTIONS**

- UF ionic reactions
- NT1 acylation
- NT2 acetylation
- NT2 benzoylation
- NT1 alkylation
- NT1 amination
- NT1 aromatization

- NT1 arylation  
 NT1 bosch process  
 NT1 carbonylation  
 NT1 carboxylation  
 NT1 chemisorption  
 NT1 claisen condensation  
 NT1 corrosion  
   NT2 crevice corrosion  
   NT2 electrochemical corrosion  
   NT2 fretting corrosion  
   NT2 intergranular corrosion  
   NT2 nodular corrosion  
   NT2 pitting corrosion  
   NT2 stress corrosion  
 NT1 cyclization  
 NT1 dealkylation  
 NT1 deamination  
 NT1 decarboxylation  
 NT1 decarburization  
 NT1 decomposition  
   NT2 autolysis  
   NT3 autoradiolysis  
   NT2 biodegradation  
   NT2 carbonization  
   NT3 coking  
   NT3 electrocarbonization  
   NT2 depolymerization  
   NT2 destructive distillation  
   NT2 glycolysis  
   NT2 hemolysis  
   NT2 photolysis  
   NT3 biophotolysis  
   NT2 proteolysis  
   NT3 fibrinolysis  
   NT2 pyrolysis  
   NT3 calcination  
   NT3 cracking  
     NT4 catalytic cracking  
     NT4 hydrocracking  
     NT4 thermal cracking  
   NT3 flash hydrolysis process  
   NT2 radiolysis  
   NT3 autoradiolysis  
   NT2 retorting  
   NT3 in-situ retorting  
   NT2 solvolysis  
   NT3 acetolysis  
   NT3 ammonolysis  
   NT3 hydrolysis  
     NT4 acid hydrolysis  
     NT4 alkaline hydrolysis  
     NT4 autohydrolysis  
     NT4 enzymatic hydrolysis  
     NT4 saccharification  
     NT4 saponification  
 NT1 dehalogenation  
   NT2 dechlorination  
   NT2 deiodination  
 NT1 dehydridation  
 NT1 dehydrocyclization  
 NT1 dehydrogenation  
 NT1 denitration  
 NT1 denitrification  
   NT2 combined soxnox processes  
   NT3 noxso process  
   NT2 selective catalytic reduction  
 NT1 dephenolization  
 NT1 derivatization  
 NT1 desulfurization  
   NT2 adip process  
   NT2 alkalinized alumina process  
   NT2 ammonia-ammonium bisulfate process  
   NT2 battelle hydrothermal coal process  
   NT2 beavon process  
   NT2 benfield process  
   NT2 bergbauforschung process  
   NT2 cabf process  
   NT2 cea-adl dual alkali process  
   NT2 chiyoda thoroughbred process  
   NT2 citrate process  
   NT2 claus process  
   NT2 cng process  
   NT2 combined soxnox processes  
   NT3 noxso process  
   NT2 consol fgd process  
   NT2 fmc double alkali process  
   NT2 giammarco vetrocoke sulfur process  
   NT2 girbotol process  
   NT2 gravimelt process  
   NT2 gulf hds process  
   NT2 holmes-stretford process  
   NT2 jpl process  
   NT2 ledgemont process  
   NT2 lime-limestone wet scrubbing processes  
   NT3 bischoff process  
   NT2 magnesium slurry scrubbing process  
   NT2 meyers process  
   NT2 molecular sieve process  
   NT2 otto process  
   NT2 penelec process  
   NT2 perox process  
   NT2 purisol process  
   NT2 rectisol process  
   NT2 resox process  
   NT2 ric process  
   NT2 saarberg-holter process  
   NT2 scot process  
   NT2 selexel process  
   NT2 shell-uop copper oxide process  
   NT2 solinox process  
   NT2 sorbent injection processes  
   NT2 soxal process  
   NT2 stone and webster ionics process  
   NT2 stretford process  
   NT2 sulf-x process  
   NT2 sulfiban process  
   NT2 sulfinol process  
   NT2 sulfreen process  
   NT2 takahax process  
   NT2 thiosorbic process  
   NT2 trw process  
   NT2 ucap process  
   NT2 unisulf process  
   NT2 vacuum carbonate process  
   NT2 w-1 sulfur dioxide recovery process  
   NT2 walther process  
 NT1 deuteration  
 NT1 diazotization  
 NT1 diels-alder reaction  
 NT1 esterification  
 NT1 fischer-tropsch synthesis  
 NT1 friedel-crafts reaction  
 NT1 halogenation  
   NT2 astatination  
   NT2 bromination  
   NT2 chlorination  
   NT3 sulfochlorination  
   NT2 fluorination  
   NT2 iodination  
 NT1 hydridation  
 NT1 hydrogenation  
   NT2 gulf hds process  
 NT1 hydroxylation  
 NT1 isomerization  
 NT1 methanation  
 NT1 methylation  
 NT1 nitration  
 NT1 nitridation  
 NT1 nitrification  
 NT1 oxidation  
   NT2 combustion  
   NT3 cocombustion  
   NT3 fluidized-bed combustion  
   NT3 in-situ combustion  
   NT3 pulse combustion  
   NT3 reverse combustion  
   NT3 spontaneous combustion  
   NT3 staged combustion  
   NT2 roasting  
 NT1 ozonization  
 NT1 partial oxidation processes  
 NT1 phosphorylation  
 NT1 photochemical reactions  
   NT2 photolysis  
   NT3 biophotolysis  
   NT2 photosynthesis  
 NT1 polymerization  
   NT2 copolymerization  
   NT2 cross-linking  
   NT2 dimerization  
   NT2 telomerization  
 NT1 redox reactions  
 NT1 reduction  
   NT2 bomb reduction  
   NT2 selective catalytic reduction  
   NT2 thermite process  
 NT1 reformer processes  
   NT2 autothermal reformer processes  
   NT2 catalytic reforming  
   NT2 steam reformer processes  
 NT1 steam-iron process  
 NT1 sulfation  
 NT1 sulfidation  
 NT1 sulfonation  
   NT2 sulfochlorination  
 NT1 water gas processes  
 RT acidification  
 RT affinity  
 RT catalysis  
 RT chemical preparation  
 RT chemical properties  
 RT chemical reaction yield  
 RT chemical reactions  
 RT chemical state  
 RT chemistry  
 RT equilibrium  
 RT fermentation  
 RT fluidized beds  
 RT fuel-cladding interactions  
 RT fuel-coolant interactions  
 RT hydrogen transfer  
 RT isotopic exchange  
 RT molten metal-water reactions  
 RT phosphoenolpyruvate  
 RT reaction intermediates  
 RT rock-fluid interactions  
 RT seed-slag interactions  
 RT stoichiometry  
 RT thermodynamic activity  
 RT waste-rock interactions

## CHEMICAL REACTORS

INIS: 2000-07-11; ETDE: 1975-08-19

UF vessels (chemical reactions)

- NT1 retorts  
 RT bioreactors  
 RT chemical reactions  
 RT containers  
 RT fluidized beds  
 RT loading rate

## CHEMICAL SHIFT

- RT nuclear magnetic resonance  
 RT spectral shift

## chemical shimming

- USE fluid poison control

## CHEMICAL SPILLS

INIS: 1991-09-30; ETDE: 1980-02-11

- BT1 accidents  
 RT chemical wastes  
 RT gas spills  
 RT hazardous materials spills  
 RT natural attenuation

RT oil spills

## CHEMICAL STATE

UF *speciation (chemical)*  
 RT anions  
 RT cations  
 RT chemical reactions  
 RT recoils

## CHEMICAL VAPOR DEPOSITION

\*BT1 chemical coating  
 RT vapor deposited coatings  
 RT vapor phase epitaxy  
 RT vapor plating

## CHEMICAL WARFARE

INIS: 1992-03-16; ETDE: 1986-02-03  
 BT1 warfare  
 RT chemical warfare agents

## CHEMICAL WARFARE AGENTS

INIS: 1999-03-02; ETDE: 1986-02-03  
 BT1 weapons  
 RT chemical warfare  
 RT toxic materials

## CHEMICAL WASTES

INIS: 1986-07-09; ETDE: 1982-03-11  
*For wastes which are of concern because of their chemical properties. See also RADIOACTIVE WASTES.*

UF *waste chemicals*  
 \*BT1 nonradioactive wastes  
 NT1 chemical effluents  
 RT chemical spills  
 RT hazardous materials  
 RT industrial wastes  
 RT municipal wastes

## chemically active fluidized bed process

2000-04-12  
 USE cafb process

## chemicals

*See specific compounds or classes of compounds, e.g., CARCINOGENS, DETERGENTS, PLASTICIZERS, and ORGANIC COMPOUNDS.*

SEE additives  
 SEE chelating agents  
 SEE detergents  
 SEE developers  
 SEE dyes  
 SEE indicators  
 SEE inorganic compounds  
 SEE organic compounds  
 SEE petrochemicals

## chemico process

2000-04-12  
*Process using an aqueous suspension of magnesium oxide for removal of sulfur dioxide from flue gas.*  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

## CHEMILUMINESCENCE

1999-05-04  
 \*BT1 luminescence  
 RT luminol

## CHEMISORPTION

*Dissolution or adsorption followed by chemical reaction.*  
 BT1 chemical reactions  
 BT1 separation processes  
 BT1 sorption  
 RT adsorbents  
 RT adsorption  
 RT hydrogen storage

RT scrubbing

## CHEMISTRY

NT1 atmospheric chemistry  
 NT1 biochemistry  
 NT2 blood chemistry  
 NT2 cytochemistry  
 NT1 cosmochemistry  
 NT1 electrochemistry  
 NT1 geochemistry  
 NT2 biogeochemistry  
 NT1 nuclear chemistry  
 NT1 petrochemistry  
 NT1 photochemistry  
 NT2 solar photochemistry  
 NT1 physical chemistry  
 NT1 radiation chemistry  
 NT1 radiochemistry  
 NT2 hot atom chemistry  
 NT3 szilard-chalmers reaction  
 NT1 soil chemistry  
 NT1 water chemistry  
 NT2 acid neutralizing capacity  
 RT chemical engineering  
 RT chemical properties  
 RT chemical reactions  
 RT qualitative chemical analysis  
 RT quantitative chemical analysis  
 RT stoichiometry

## chemistry (water)

2000-04-12  
 USE water chemistry

## CHEMONUCLEAR REACTORS

\*BT1 irradiation reactors

## CHEMORECEPTORS

RT flavor  
 RT insects  
 RT odor  
 RT sense organs

## CHEMOSTERILANTS

*A substance producing irreversible sterility in a reproductive system.*

RT alkylating agents  
 RT antimetabolites  
 RT sterilization

## CHEMOTHERAPY

UF *pharmacotherapy*  
 \*BT1 therapy  
 RT antiandrogens  
 RT antimetabolic drugs  
 RT antineoplastic drugs  
 RT combined therapy  
 RT drugs  
 RT liposomes  
 RT misonidazole  
 RT neocarcinostatin

## chemsweet process

INIS: 2000-04-12; ETDE: 1980-05-06  
*Batch process for sweetening low-value sour natural gas using zinc compounds.*  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

## CHENOPODIACEAE

INIS: 1992-01-08; ETDE: 1988-04-15  
 \*BT1 magnoliopsida

## cheralite

INIS: 1984-04-04; ETDE: 2003-01-03  
 (Prior to January 2003 QUARTZITES was used for this concept.)  
 USE monazites

## CHERENKOV COUNTERS

UF *cherenkov detectors*

\*BT1 radiation detectors  
 RT cherenkov counting  
 RT stanford linear collider detector

## CHERENKOV COUNTING

INIS: 1993-05-06; ETDE: 1975-10-28  
 BT1 counting techniques  
 RT cherenkov counters

## cherenkov detectors

USE cherenkov counters

## CHERENKOV RADIATION

UF *vavilov-cherenkov radiation*  
 \*BT1 electromagnetic radiation  
 RT light cone

## CHERNOBYLSK-1 REACTOR

INIS: 1984-08-23; ETDE: 1984-09-20  
*Ukraine.*  
 \*BT1 enriched uranium reactors  
 \*BT1 lwgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

## CHERNOBYLSK-2 REACTOR

INIS: 1984-08-23; ETDE: 1984-09-20  
*Ukraine.*  
 \*BT1 enriched uranium reactors  
 \*BT1 lwgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

## CHERNOBYLSK-3 REACTOR

INIS: 1984-08-23; ETDE: 1984-09-20  
*Ukraine.*  
 \*BT1 enriched uranium reactors  
 \*BT1 lwgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

## CHERNOBYLSK-4 REACTOR

INIS: 1984-08-23; ETDE: 1984-09-20  
*Ukraine.*  
 \*BT1 enriched uranium reactors  
 \*BT1 lwgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors  
 RT pripet river

## chernoff faces

INIS: 2000-04-12; ETDE: 1979-06-06  
*Stylized faces used in analysis of many-dimensional data sets.*  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE computer graphics  
 USE data processing

## CHEROKEE-1 REACTOR

*Duke Power Co., Blacksburg, South Carolina, USA. Canceled in 1983 before construction began.*  
 \*BT1 pwr type reactors

## CHEROKEE-2 REACTOR

*Duke Power Co., Blacksburg, South Carolina, USA. Canceled in 1982 before construction began.*  
 \*BT1 pwr type reactors

## CHEROKEE-3 REACTOR

*Duke Power Co., Blacksburg, South Carolina, USA. Canceled in 1982 before construction began.*  
 \*BT1 pwr type reactors

## CHERRIES

\*BT1 fruits  
 RT fruit trees  
 RT rosaceae



**cherry fruit fly**

INIS: 1996-07-23; ETDE: 1976-01-26  
(From January 1976 till March 1997  
RHAGOLETIS CERASI was used for this  
concept in ETDE.)  
USE fruit flies

**CHERT**

2000-04-12  
\*BT1 sedimentary rocks

**CHESAPEAKE BAY**

\*BT1 atlantic ocean  
\*BT1 bays  
RT maryland  
RT mid-atlantic bight  
RT virginia

**cheshire event**

INIS: 2000-04-12; ETDE: 1977-06-21  
USE anvil project

**CHEST**

1999-04-06  
UF thorax  
BT1 body  
NT1 mediastinum  
RT diaphragm  
RT heart  
RT lungs  
RT mammary glands  
RT pleura  
RT respiratory system  
RT thymus

**CHESTNUT TREES**

INIS: 1992-01-08; ETDE: 1978-09-11  
\*BT1 magnoliopsida  
\*BT1 trees

**CHESTNUTS**

INIS: 1982-01-13; ETDE: 1982-02-11  
\*BT1 nuts

**chevron coal liquefaction process**

INIS: 2000-04-12; ETDE: 1983-01-21  
Processing sequence uses two separate, but  
close-coupled reaction zones. The first is used  
to contain and control dissolution reactions.  
The second contains and controls hydrofining  
reactions.  
(Prior to July 1993, this was a valid ETDE  
descriptor.)

USE coal liquefaction

**CHEW-LOW METHOD**

BT1 calculation methods  
RT strong interactions

**chi-2800 resonances**

INIS: 1988-03-08; ETDE: 1979-10-03  
(Prior to December 1987 this was a valid  
descriptor.)  
USE mesons

**chi-3410 resonances**

INIS: 1987-12-21; ETDE: 1976-08-24  
(Prior to December 1987 this was a valid  
descriptor.)  
USE chi0-3415 mesons

**chi-3455 resonances**

INIS: 1988-03-08; ETDE: 1977-07-23  
(Prior to December 1987 this was a valid  
descriptor.)  
USE mesons

**chi-3500 resonances**

INIS: 1987-12-21; ETDE: 1977-01-28  
(Prior to December 1987 this was a valid  
descriptor.)  
USE chi1-3510 mesons

**chi-3550 resonances**

INIS: 1987-12-21; ETDE: 1977-01-28  
(Prior to December 1987 this was a valid  
descriptor.)  
USE chi2-3555 mesons

**CHI B0-10235 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02  
\*BT1 bottomonium

**CHI B0-9860 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02  
\*BT1 bottomonium

**CHI B1-10255 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02  
\*BT1 bottomonium

**CHI B1-9890 MESONS**

1995-08-07  
(Until July 1995 this concept was indexed by  
CHI B1-9895 MESONS.)  
UF chi b1-9895 mesons  
\*BT1 axial vector mesons  
\*BT1 bottomonium

**chi b1-9895 mesons**

INIS: 1995-08-07; ETDE: 1988-02-02  
(Until July 1995 this was a valid term.)  
USE chi b1-9890 mesons

**CHI B2-10270 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02  
\*BT1 bottomonium

**CHI B2-9915 MESONS**

INIS: 1995-08-07; ETDE: 1988-02-02  
\*BT1 bottomonium  
\*BT1 tensor mesons

**chi resonances**

INIS: 1988-03-08; ETDE: 1977-07-23  
(Prior to December 1987 this was a valid  
descriptor.)  
USE mesons

**CHI0-3415 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01  
(Prior to December 1987 this concept was  
indexed by CHI-3410 RESONANCES.)  
UF chi-3410 resonances  
\*BT1 charmonium  
\*BT1 scalar mesons

**CHI1-3510 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01  
(Prior to December 1987 this concept was  
indexed by CHI-3500 RESONANCES.)  
UF chi-3500 resonances  
\*BT1 axial vector mesons  
\*BT1 charmonium

**CHI2-3555 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01  
(Prior to December 1987 this concept was  
indexed by CHI-3550 RESONANCES.)  
UF chi-3550 resonances  
\*BT1 charmonium  
\*BT1 tensor mesons

**chiberta event**

INIS: 2000-04-12; ETDE: 1977-06-21  
USE anvil project

**CHICAGO**

INIS: 1992-07-08; ETDE: 1977-10-20  
\*BT1 illinois  
BT1 urban areas

**chicago cyclotron**

1994-08-22  
(Prior to June 1994, this was a valid ETDE  
descriptor.)  
USE isochronous cyclotrons

**chicago pile-2 reactor**

USE cp-2 reactor

**chicago synchrocyclotron**

1996-07-18  
(Until July 1996 this was a valid descriptor.)  
USE synchrocyclotrons

**CHICKENS**

1996-07-08  
UF hens  
\*BT1 fowl  
RT ascaridae

**CHILDREN**

BT1 age groups  
\*BT1 man  
NT1 infants  
RT adolescents  
RT education  
RT juveniles  
RT life cycle  
RT pediatrics  
RT progeny

**CHILE**

1997-06-17  
BT1 developing countries  
\*BT1 south america  
RT andes  
RT el tatio geothermal field

**CHILEAN ORGANIZATIONS**

2004-03-31  
BT1 national organizations

**CHIMERAS**

BT1 mosaicism  
NT1 radiation chimeras  
RT immunity  
RT spleen colony formation  
RT transplants

**CHIMNEYS**

1975-08-22  
For gas disposal use STACKS.  
NT1 solar chimneys  
RT cavities  
RT exhaust systems  
RT explosive stimulation  
RT fireplaces  
RT underground explosions

**CHINA**

UF inner mongolia  
UF peoples republic of china  
BT1 asia  
NT1 hong kong  
NT1 taiwan  
NT1 tibet  
RT centrally planned economies  
RT ciae  
RT yangtze river  
RT yellow river

**china clay**

USE kaolin

**china experimental fast reactor**

INIS: 2000-02-22; ETDE: 2000-10-04  
USE cefr reactor

**china institute of atomic energy**

INIS: 1992-08-05; ETDE: 1992-09-10  
USE ciae

**CHINA SEA**

INIS: 1992-01-16; ETDE: 1981-03-16

UF east china sea

UF south china sea

\*BT1 pacific ocean

**chinese bean oil**

USE soybean oil

**chinese hamster**

USE hamsters

**chinese hamster ovary cells**

INIS: 1984-01-18; ETDE: 1983-09-15

USE cho cells

**CHINESE NNSA**

INIS: 1993-03-17; ETDE: 1993-04-16

National Nuclear Safety Administration.

\*BT1 chinese organizations

**CHINESE ORGANIZATIONS**

INIS: 1987-05-26; ETDE: 1980-10-07

BT1 national organizations

NT1 chinese nnsa

NT1 ciae

**chinese tallow tree**

INIS: 2000-04-12; ETDE: 1980-04-14

A hydrocarbon-producing plant; possible source of synthetic petroleum.

(Prior to March 1997 this was a valid ETDE descriptor.)

USE euphorbia

**CHINON-1 REACTOR**

Avoine, Chinon, France.

UF edf-1 reactor

\*BT1 carbon dioxide cooled reactors

\*BT1 gcr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**CHINON-2 REACTOR**

Avoine, Chinon, France.

UF edf-2 reactor

\*BT1 carbon dioxide cooled reactors

\*BT1 gcr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**CHINON-3 REACTOR**

Avoine, Chinon, France.

UF edf-3 reactor

\*BT1 carbon dioxide cooled reactors

\*BT1 gcr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**CHINON-B1 REACTOR**

1995-02-15

\*BT1 pwr type reactors

**chinone**

USE benzoquinones

**CHINSHAN-1 REACTOR**

INIS: 1991-11-06; ETDE: 1992-01-31

Taipei, Taiwan.

(This descriptor was spelled QINSHAN-1 REACTOR for items input in 1991, and prior to 1991 was spelled CHINSAN-1 REACTOR.)

\*BT1 bwr type reactors

**CHINSHAN-2 REACTOR**

INIS: 1991-11-06; ETDE: 1992-01-31

Taipei, Taiwan.

(This descriptor was spelled QINSHAN-2 REACTOR for items input in 1991, and prior to 1991 was spelled CHINSAN-2 REACTOR.)

\*BT1 bwr type reactors

**chipmunks**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE rodents

**chiral molecules**

INIS: 2000-04-12; ETDE: 1976-02-23

USE enantiomorphs

**CHIRAL SYMMETRY**

BT1 symmetry

RT chirality

**CHIRALITY**

BT1 particle properties

RT angular momentum

RT chiral symmetry

RT helicity

RT quantum mechanics

RT spin

**CHITIN**

\*BT1 mucopolysaccharides

RT glucosamine

RT polyacetals

**CHIYODA THOROUGHbred PROCESS**

INIS: 2000-04-12; ETDE: 1977-12-22

Wet process capable of high SOX removal from flue gas producing gypsum for resale or disposal.

\*BT1 desulfurization

RT waste processing

**CHLAMYDOMONAS**

\*BT1 chlorophycota

\*BT1 unicellular algae

**chlor-alkali industry**

INIS: 2000-04-12; ETDE: 1981-04-17

USE chemical industry

USE chlorine

USE sodium carbonates

USE sodium hydroxides

**CHLORAL**

UF trichloroacetaldehyde

\*BT1 aldehydes

\*BT1 organic chlorine compounds

RT acetaldehyde

**CHLORAMBUCIL**

1993-08-03

\*BT1 amines

\*BT1 antineoplastic drugs

\*BT1 monocarboxylic acids

\*BT1 organic chlorine compounds

**chloramine-b**

USE chloramines

**chloramine-t**

USE chloramines

**CHLORAMINES**

UF chloramine-b

UF chloramine-t

\*BT1 amines

\*BT1 organic chlorine compounds

RT amides

RT sulfonic acids

**CHLORAMPHENICOL**

\*BT1 antibiotics

**CHLORANIL**

UF tetrachlorobenzoquinone

\*BT1 benzoquinones

\*BT1 organic chlorine compounds

RT chloranilic acid

**CHLORANILIC ACID**

\*BT1 benzoquinones

RT chloranil

RT organic acids

**CHLORATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

\*BT1 chlorine compounds

BT1 oxygen compounds

RT chloric acid

**CHLORELLA**

\*BT1 chlorophycota

\*BT1 unicellular algae

**CHLORIC ACID**

\*BT1 chlorine compounds

\*BT1 inorganic acids

BT1 oxygen compounds

RT chlorates

**CHLORIDE VOLATILITY PROCESS**

\*BT1 pyrometallurgy

\*BT1 reprocessing

RT distillation

RT refining

RT volatility

**CHLORIDES**

1996-07-18

UF actinium chlorides

UF fermium chlorides

UF francium chlorides

UF polonium chlorides

\*BT1 chlorine compounds

\*BT1 halides

NT1 aluminium chlorides

NT1 americium chlorides

NT1 ammonium chlorides

NT1 antimony chlorides

NT1 argon chlorides

NT1 arsenic chlorides

NT1 astatine chlorides

NT1 barium chlorides

NT1 berkelium chlorides

NT1 beryllium chlorides

NT1 bismuth chlorides

NT1 boron chlorides

NT1 bromine chlorides

NT1 cadmium chlorides

NT1 calcium chlorides

NT1 californium chlorides

NT1 cerium chlorides

NT1 cesium chlorides

NT1 chromium chlorides

NT1 cobalt chlorides

NT1 copper chlorides

NT1 curium chlorides

NT1 dysprosium chlorides

NT1 einsteinium chlorides

NT1 erbium chlorides

NT1 europium chlorides

NT1 gadolinium chlorides

NT1 gallium chlorides

NT1 germanium chlorides

NT1 gold chlorides

NT1 hafnium chlorides

NT1 helium chlorides

NT1 holmium chlorides

**NT1** indium chlorides  
**NT1** iodine chlorides  
**NT1** iridium chlorides  
**NT1** iron chlorides  
**NT1** krypton chlorides  
**NT1** lanthanum chlorides  
**NT1** lead chlorides  
**NT1** lithium chlorides  
**NT1** lutetium chlorides  
**NT1** magnesium chlorides  
**NT1** manganese chlorides  
**NT1** mercury chlorides  
**NT1** methylene blue  
**NT1** molybdenum chlorides  
**NT1** neodymium chlorides  
**NT1** neon chlorides  
**NT1** neptunium chlorides  
**NT1** nickel chlorides  
**NT1** niobium chlorides  
**NT1** nitrogen chlorides  
**NT1** osmium chlorides  
**NT1** palladium chlorides  
**NT1** phosphorus chlorides  
**NT1** platinum chlorides  
**NT1** plutonium chlorides  
**NT1** potassium chlorides  
**NT1** praseodymium chlorides  
**NT1** promethium chlorides  
**NT1** protactinium chlorides  
**NT1** radium chlorides  
**NT1** rhenium chlorides  
**NT1** rhodium chlorides  
**NT1** rubidium chlorides  
**NT1** ruthenium chlorides  
**NT1** rutherfordium chlorides  
**NT1** samarium chlorides  
**NT1** scandium chlorides  
**NT1** selenium chlorides  
**NT1** silicon chlorides  
**NT1** silver chlorides  
**NT1** sodium chlorides  
**NT1** strontium chlorides  
**NT1** sulfur chlorides  
**NT1** tantalum chlorides  
**NT1** technetium chlorides  
**NT1** tellurium chlorides  
**NT1** terbium chlorides  
**NT1** tetrazolium  
**NT1** thallium chlorides  
**NT1** thionyl chlorides  
**NT1** thorium chlorides  
**NT1** thulium chlorides  
**NT1** tin chlorides  
**NT1** titanium chlorides  
**NT1** tungsten chlorides  
**NT1** uranium chlorides  
**NT1** uranyl chlorides  
**NT1** vanadium chlorides  
**NT1** xenon chlorides  
**NT1** ytterbium chlorides  
**NT1** yttrium chlorides  
**NT1** zinc chlorides  
**NT1** zirconium chlorides  
*RT* chlorine additions  
*RT* hydrochloric acid  
*RT* oxychlorides

**CHLORIMET**

2000-04-12

\*BT1 molybdenum alloys  
 \*BT1 nickel base alloys

**CHLORINATED ALICYCLIC HYDROCARBONS**

2000-04-12

\*BT1 halogenated alicyclic hydrocarbons  
 \*BT1 organic chlorine compounds  
**NT1** lindane

**CHLORINATED ALIPHATIC HYDROCARBONS**

1991-09-30

(Prior to October 1991, this concept was indexed by ORGANIC CHLORINE COMPOUNDS.)

\*BT1 halogenated aliphatic hydrocarbons  
 \*BT1 organic chlorine compounds  
**NT1** carbon tetrachloride  
**NT1** chloroform  
**NT1** methyl chloride  
**NT1** pvc  
**NT1** vinyl chloride  
*RT* chlorofluorocarbons

**CHLORINATED AROMATIC HYDROCARBONS**

1991-10-01

\*BT1 halogenated aromatic hydrocarbons  
 \*BT1 organic chlorine compounds  
**NT1** aldrin  
**NT1** polychlorinated biphenyls

**chlorinated hydrocarbons**

ETDE: 2002-06-13

USE organic chlorine compounds

**CHLORINATION**

\*BT1 halogenation  
**NT1** sulfochlorination  
*RT* dechlorination

**CHLORINE***UF* chlor-alkali industry*UF* chlorine chlorides

\*BT1 halogens

**CHLORINE 31**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**CHLORINE 32**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**CHLORINE 33**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**CHLORINE 34**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 light nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**CHLORINE 35**

\*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes  
*RT* chlorine 35 beams

**CHLORINE 35 BEAMS**

1975-11-27

\*BT1 ion beams  
*RT* chlorine 35

**CHLORINE 35 REACTIONS**

\*BT1 heavy ion reactions

**CHLORINE 35 TARGET**

ETDE: 1976-07-09

BT1 targets

**CHLORINE 36**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 years living radioisotopes

**CHLORINE 36 TARGET**

INIS: 1985-07-22; ETDE: 1985-08-08

BT1 targets

**CHLORINE 37**

\*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes  
*RT* chlorine 37 reactions

**CHLORINE 37 BEAMS**

1993-08-03

\*BT1 ion beams

**CHLORINE 37 REACTIONS**

ETDE: 1975-09-11

\*BT1 heavy ion reactions  
*RT* chlorine 37

**CHLORINE 37 TARGET**

ETDE: 1976-07-09

BT1 targets

**CHLORINE 38**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 light nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**CHLORINE 39**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**CHLORINE 39 BEAMS**

INIS: 1986-12-09; ETDE: 1987-02-24

\*BT1 radioactive ion beams

**CHLORINE 40**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 light nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**CHLORINE 41**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 chlorine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**CHLORINE 42**

\*BT1 chlorine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei

**CHLORINE 43**

INIS: 1977-03-01; ETDE: 1976-12-15

\*BT1 chlorine isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

**CHLORINE 44***INIS: 1976-03-17; ETDE: 1976-02-19*

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**CHLORINE 45***INIS: 1986-04-02; ETDE: 1986-07-03*

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**CHLORINE 46***INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**CHLORINE 47***INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**CHLORINE 48***INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**CHLORINE 49***INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**CHLORINE 51***INIS: 1990-04-19; ETDE: 1990-05-16*

- \*BT1 chlorine isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**CHLORINE ADDITIONS**

- RT* chlorides
- RT* crystal doping
- RT* doped materials

**chlorine bromides**

- USE bromine chlorides

**chlorine chlorides**

- USE chlorine

**CHLORINE COMPLEXES**

- BT1 complexes

**CHLORINE COMPOUNDS**

- UF* chlorites
- BT1 halogen compounds
- NT1 chlorates
- NT1 chloric acid
- NT1 chlorides
  - NT2 aluminium chlorides
  - NT2 americium chlorides
  - NT2 ammonium chlorides
  - NT2 antimony chlorides
  - NT2 argon chlorides
  - NT2 arsenic chlorides
  - NT2 astatine chlorides
  - NT2 barium chlorides
  - NT2 berkelium chlorides
  - NT2 beryllium chlorides
  - NT2 bismuth chlorides
  - NT2 boron chlorides
  - NT2 bromine chlorides
  - NT2 cadmium chlorides
  - NT2 calcium chlorides
  - NT2 californium chlorides
  - NT2 cerium chlorides
  - NT2 cesium chlorides
  - NT2 chromium chlorides
  - NT2 cobalt chlorides

- NT2 copper chlorides
- NT2 curium chlorides
- NT2 dysprosium chlorides
- NT2 einsteinium chlorides
- NT2 erbium chlorides
- NT2 europium chlorides
- NT2 gadolinium chlorides
- NT2 gallium chlorides
- NT2 germanium chlorides
- NT2 gold chlorides
- NT2 hafnium chlorides
- NT2 helium chlorides
- NT2 holmium chlorides
- NT2 indium chlorides
- NT2 iodine chlorides
- NT2 iridium chlorides
- NT2 iron chlorides
- NT2 krypton chlorides
- NT2 lanthanum chlorides
- NT2 lead chlorides
- NT2 lithium chlorides
- NT2 lutetium chlorides
- NT2 magnesium chlorides
- NT2 manganese chlorides
- NT2 mercury chlorides
- NT2 methylene blue
- NT2 molybdenum chlorides
- NT2 neodymium chlorides
- NT2 neon chlorides
- NT2 neptunium chlorides
- NT2 nickel chlorides
- NT2 niobium chlorides
- NT2 nitrogen chlorides
- NT2 osmium chlorides
- NT2 palladium chlorides
- NT2 phosphorus chlorides
- NT2 platinum chlorides
- NT2 plutonium chlorides
- NT2 potassium chlorides
- NT2 praseodymium chlorides
- NT2 promethium chlorides
- NT2 protactinium chlorides
- NT2 radium chlorides
- NT2 rhenium chlorides
- NT2 rhodium chlorides
- NT2 rubidium chlorides
- NT2 ruthenium chlorides
- NT2 rutherfordium chlorides
- NT2 samarium chlorides
- NT2 scandium chlorides
- NT2 selenium chlorides
- NT2 silicon chlorides
- NT2 silver chlorides
- NT2 sodium chlorides
- NT2 strontium chlorides
- NT2 sulfur chlorides
- NT2 tantalum chlorides
- NT2 technetium chlorides
- NT2 tellurium chlorides
- NT2 terbium chlorides
- NT2 tetrazolium
- NT2 thallium chlorides
- NT2 thionyl chlorides
- NT2 thorium chlorides
- NT2 thulium chlorides
- NT2 tin chlorides
- NT2 titanium chlorides
- NT2 tungsten chlorides
- NT2 uranium chlorides
- NT2 uranyl chlorides
- NT2 vanadium chlorides
- NT2 xenon chlorides
- NT2 ytterbium chlorides
- NT2 yttrium chlorides
- NT2 zinc chlorides
- NT2 zirconium chlorides
- NT1 chlorine fluorides
- NT1 chlorine nitrates
- NT1 chlorine oxides

- NT1 chlorous acid
- NT1 hydrochloric acid
- NT1 hypochlorous acid
- NT1 oxychlorides
- NT1 perchlorates
  - NT2 aluminium perchlorates
  - NT2 americium perchlorates
  - NT2 ammonium perchlorates
  - NT2 barium perchlorates
  - NT2 cadmium perchlorates
  - NT2 calcium perchlorates
  - NT2 cerium perchlorates
  - NT2 cesium perchlorates
  - NT2 chromium perchlorates
  - NT2 cobalt perchlorates
  - NT2 copper perchlorates
  - NT2 erbium perchlorates
  - NT2 europium perchlorates
  - NT2 gadolinium perchlorates
  - NT2 hafnium perchlorates
  - NT2 holmium perchlorates
  - NT2 indium perchlorates
  - NT2 iron perchlorates
  - NT2 lanthanum perchlorates
  - NT2 lead perchlorates
  - NT2 lithium perchlorates
  - NT2 magnesium perchlorates
  - NT2 mercury perchlorates
  - NT2 neodymium perchlorates
  - NT2 neptunium perchlorates
  - NT2 potassium perchlorates
  - NT2 praseodymium perchlorates
  - NT2 rubidium perchlorates
  - NT2 samarium perchlorates
  - NT2 scandium perchlorates
  - NT2 silver perchlorates
  - NT2 sodium perchlorates
  - NT2 strontium perchlorates
  - NT2 terbium perchlorates
  - NT2 thulium perchlorates
  - NT2 uranium perchlorates
  - NT2 uranyl perchlorates
  - NT2 ytterbium perchlorates
  - NT2 yttrium perchlorates
  - NT2 zinc perchlorates
  - NT2 zirconium perchlorates
- NT1 perchloric acid
- RT* organic chlorine compounds

**CHLORINE FLUORIDES**

- UF* fluorine chlorides
- \*BT1 chlorine compounds
- \*BT1 fluorides

**chlorine iodides**

- USE iodine chlorides

**CHLORINE IONS**

- \*BT1 ions

**CHLORINE ISOTOPES***1999-07-16*

- BT1 isotopes
- NT1 chlorine 31
- NT1 chlorine 32
- NT1 chlorine 33
- NT1 chlorine 34
- NT1 chlorine 35
- NT1 chlorine 36
- NT1 chlorine 37
- NT1 chlorine 38
- NT1 chlorine 39
- NT1 chlorine 40
- NT1 chlorine 41
- NT1 chlorine 42
- NT1 chlorine 43
- NT1 chlorine 44
- NT1 chlorine 45
- NT1 chlorine 46
- NT1 chlorine 47

**NT1** chlorine 48  
**NT1** chlorine 49  
**NT1** chlorine 51  
**chlorine logs**  
*INIS: 2000-04-12; ETDE: 1979-03-27*  
 USE neutron-gamma logging  
**CHLORINE NITRATES**  
*INIS: 2000-04-12; ETDE: 1989-10-24*  
 \*BT1 chlorine compounds  
 \*BT1 nitrates  
**CHLORINE OXIDES**  
 \*BT1 chlorine compounds  
 \*BT1 oxides  
 RT oxychlorides  
**CHLORINS**  
*INIS: 2000-04-12; ETDE: 1981-07-18*  
 \*BT1 porphyrins  
 RT cytochromes  
**CHLORITE MINERALS**  
*Greenish, platyhydrous monoclinic silicates of aluminium, ferrous iron, and magnesium.*  
 UF chlorites (minerals)  
 \*BT1 silicate minerals  
**chlorites**  
*INIS: 1984-04-25; ETDE: 2002-06-13*  
*Salts of chlorous acid.*  
 USE chlorine compounds  
 USE oxygen compounds  
**chlorites (minerals)**  
*INIS: 1984-04-25; ETDE: 2002-06-13*  
 USE chlorite minerals  
**chlormerodrin**  
*ETDE: 1981-04-20*  
 USE neohydrin  
**chlorobutadiene**  
 USE neoprene  
**CHLOROFLUOROCARBONS**  
*INIS: 1992-06-19; ETDE: 1992-04-01*  
 UF cfc  
 \*BT1 organic chlorine compounds  
 \*BT1 organic fluorine compounds  
 RT chlorinated aliphatic hydrocarbons  
 RT fluorinated aliphatic hydrocarbons  
 RT freons  
 RT greenhouse gases  
 RT ozone layer  
 RT refrigerants  
**CHLOROFORM**  
 UF trichloromethane  
 \*BT1 chlorinated aliphatic hydrocarbons  
 RT anesthetics  
 RT methane  
 RT organic solvents  
**chloromethane**  
*INIS: 1982-02-09; ETDE: 2002-06-13*  
 USE methyl chloride  
**CHLOROPHYCOTA**  
*INIS: 1991-12-11; ETDE: 1988-12-20*  
 \*BT1 algae  
**NT1** acetabularia  
**NT1** chlamydomonas  
**NT1** chlorella  
**NT1** nitella  
**NT1** scenedesmus  
**CHLOROPHYLL**  
 \*BT1 phytochromes  
 \*BT1 porphyrins  
 RT chlorophyll-binding proteins  
 RT chloroplasts

RT chlorosis  
 RT leaves  
 RT photosynthesis  
 RT photosynthetic reaction centers  
 RT plants  
**CHLOROPHYLL-BINDING PROTEINS**  
*INIS: 2000-04-12; ETDE: 1986-11-20*  
 BT1 photosynthetic reaction centers  
 \*BT1 proteins  
 RT chlorophyll  
 RT photosynthetic membranes  
**CHLOROPLASTS**  
 BT1 cell constituents  
 RT c4 species  
 RT calvin cycle species  
 RT chlorophyll  
 RT photosynthesis  
 RT plant cells  
 RT ribulose diphosphate carboxylase

**chloroprene**

USE neoprene

**CHLOROSIS***INIS: 1992-06-19; ETDE: 1985-11-19*

BT1 pathological changes  
 RT chlorophyll  
 RT leaves  
 RT plant diseases  
 RT plant tissues  
 RT symptoms

**chlorothiazide***1996-07-18*

(Until July 1996 this was a valid descriptor.)

USE diuretics

**CHLOROURACILS***INIS: 1983-06-02; ETDE: 1982-11-08*

\*BT1 organic chlorine compounds  
 \*BT1 uracils

**CHLOROUS ACID**

\*BT1 chlorine compounds  
 \*BT1 inorganic acids  
 BT1 oxygen compounds

**CHLORPROMAZINE**

\*BT1 amines  
 \*BT1 hypnotics and sedatives  
 \*BT1 organic chlorine compounds  
 \*BT1 phenothiazines  
 \*BT1 tranquilizers

**chlortetracycline***1996-10-22*

(Until October 1996 this was a valid descriptor.)

USE tetracyclines

**CHO CELLS***INIS: 1984-01-18; ETDE: 1983-09-15*

UF chinese hamster ovary cells  
 \*BT1 somatic cells  
 RT cell cultures

**CHOLANTHRENE**

\*BT1 condensed aromatics

**CHOLECALCIFEROL**

UF vitamin d-3

\*BT1 vitamin d

**CHOLERA**

\*BT1 bacterial diseases

**CHOLESTEROL***1996-10-23*

\*BT1 sterols  
 RT lipids

RT myelin

**CHOLIC ACID**

\*BT1 bile acids

**CHOLINE**

\*BT1 alcohols  
 \*BT1 lipotropic factors  
 \*BT1 quaternary compounds  
 RT acetylcholine  
 RT lecithins  
 RT lipids

**CHOLINESTERASE***Code number 3.1.1.7 and 3.1.1.8.*

\*BT1 carboxylesterases  
 RT acetylcholine

**CHONDRITES**

\*BT1 stone meteorites

**CHONDROITIN**

\*BT1 mucopolysaccharides  
 RT mucoproteins

**chondrosarcomas**

USE sarcomas  
 USE skeletal diseases

**chooz b-1 reactor***INIS: 1984-07-23; ETDE: 1984-09-05*

USE ardennes b-1 reactor

**chooz b-2 reactor***2004-05-11*

USE ardennes b-2 reactor

**chooz reactor**

USE ardennes reactor

**choppers (beam)***INIS: 2000-04-12; ETDE: 1979-05-03*

USE beam pulsers

**choppers (neutron)**

USE neutron choppers

**chordates***INIS: 2000-04-12; ETDE: 1981-06-15*

USE vertebrates

**chorioallantoic membrane**

USE fetal membranes

**choroid**

USE uvea

**christmas trees***INIS: 2000-04-12; ETDE: 1986-02-21**Assemblies of valves, tees, crosses, and other fittings at wellheads, used to control oil or gas production and to give access to the well tubing.*

USE wellheads

**CHROMATES***Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

\*BT1 chromium compounds  
 BT1 oxygen compounds  
 RT chromic acid  
 RT chromium oxides

**CHROMATIC ABERRATIONS**

RT beam optics

**chromatid deletions**

USE chromosomal aberrations

**CHROMATIDS**

RT chromatin  
 RT chromosomes

*RT* human chromosomes  
*RT* sister chromatid exchanges

**CHROMATIN**

1995-01-27

**NT1** heterochromatin  
**NT1** nucleosomes  
**NT1** sex chromatin  
*RT* achromatic lesions  
*RT* cell nuclei  
*RT* centromeres  
*RT* chromatids  
*RT* chromosomes  
*RT* human chromosomes

**chromatographic columns**

*INIS*: 1984-04-04; *ETDE*: 1984-05-10

USE extraction columns

**CHROMATOGRAPHY**

*UF* paper chromatography  
*UF* partition chromatography  
**BT1** separation processes  
**NT1** extraction chromatography  
**NT1** gas chromatography  
**NT1** gel permeation chromatography  
**NT1** ion exchange chromatography  
**NT1** liquid column chromatography  
**NT2** high-performance liquid chromatography  
**NT1** radiochromatography  
**NT1** supercritical fluid chromatography  
**NT1** thermochromatography  
**NT1** thin-layer chromatography  
*RT* counter current

**chrome violet**

1996-10-22

(Prior to March 1997 ALUMINON was used for this concept in ETDE.)

USE hydroxy acids  
 USE triphenylmethane dyes

**CHROMEL**

1996-01-25

\***BT1** nickel base alloys  
**NT1** alloy-ni60fe24cr16  
**NT2** nichrome  
**NT1** alloy-ni80cr20

**chromel a**

*INIS*: 1983-11-07; *ETDE*: 2002-06-13

USE alloy-ni80cr20

**chromel c**

*INIS*: 1983-11-07; *ETDE*: 2002-06-13

USE alloy-ni60fe24cr16

**CHROMIC ACID**

\***BT1** chromium compounds  
 \***BT1** inorganic acids  
**BT1** oxygen compounds  
*RT* chromates  
*RT* chromium oxides

**CHROMITES**

1996-07-16

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

\***BT1** chromium compounds  
**BT1** oxygen compounds  
*RT* chromium oxides

**CHROMIUM**

\***BT1** transition elements

**CHROMIUM 42**

*INIS*: 1988-11-16; *ETDE*: 1988-12-02

\***BT1** beta-plus decay radioisotopes  
 \***BT1** chromium isotopes

\***BT1** even-even nuclei  
 \***BT1** intermediate mass nuclei

**CHROMIUM 43**

\***BT1** chromium isotopes  
 \***BT1** even-odd nuclei  
 \***BT1** intermediate mass nuclei

**CHROMIUM 44**

\***BT1** chromium isotopes  
 \***BT1** even-even nuclei  
 \***BT1** intermediate mass nuclei

**CHROMIUM 45**

\***BT1** beta-plus decay radioisotopes  
 \***BT1** chromium isotopes  
 \***BT1** even-odd nuclei  
 \***BT1** intermediate mass nuclei  
 \***BT1** milliseconds living radioisotopes

**CHROMIUM 46**

\***BT1** beta-plus decay radioisotopes  
 \***BT1** chromium isotopes  
 \***BT1** even-even nuclei  
 \***BT1** intermediate mass nuclei  
 \***BT1** milliseconds living radioisotopes

**CHROMIUM 47**

\***BT1** beta-plus decay radioisotopes  
 \***BT1** chromium isotopes  
 \***BT1** even-odd nuclei  
 \***BT1** intermediate mass nuclei  
 \***BT1** milliseconds living radioisotopes

**CHROMIUM 48**

\***BT1** chromium isotopes  
 \***BT1** electron capture radioisotopes  
 \***BT1** even-even nuclei  
 \***BT1** hours living radioisotopes  
 \***BT1** intermediate mass nuclei

**CHROMIUM 49**

\***BT1** beta-plus decay radioisotopes  
 \***BT1** chromium isotopes  
 \***BT1** electron capture radioisotopes  
 \***BT1** even-odd nuclei  
 \***BT1** intermediate mass nuclei  
 \***BT1** minutes living radioisotopes

**CHROMIUM 50**

\***BT1** chromium isotopes  
 \***BT1** even-even nuclei  
 \***BT1** intermediate mass nuclei  
 \***BT1** stable isotopes

**CHROMIUM 50 TARGET**

*ETDE*: 1976-07-09

**BT1** targets

**CHROMIUM 51**

\***BT1** chromium isotopes  
 \***BT1** days living radioisotopes  
 \***BT1** electron capture radioisotopes  
 \***BT1** even-odd nuclei  
 \***BT1** intermediate mass nuclei

**CHROMIUM 52**

\***BT1** chromium isotopes  
 \***BT1** even-even nuclei  
 \***BT1** intermediate mass nuclei  
 \***BT1** stable isotopes

**CHROMIUM 52 REACTIONS**

*INIS*: 1977-04-07; *ETDE*: 1977-06-02

\***BT1** heavy ion reactions

**CHROMIUM 52 TARGET**

*ETDE*: 1976-07-09

**BT1** targets

**CHROMIUM 53**

\***BT1** chromium isotopes  
 \***BT1** even-odd nuclei  
 \***BT1** intermediate mass nuclei

\***BT1** stable isotopes

**CHROMIUM 53 TARGET**

*ETDE*: 1976-07-09

**BT1** targets

**CHROMIUM 54**

\***BT1** chromium isotopes  
 \***BT1** even-even nuclei  
 \***BT1** intermediate mass nuclei  
 \***BT1** stable isotopes

**CHROMIUM 54 REACTIONS**

*INIS*: 1978-02-23; *ETDE*: 1978-04-28

\***BT1** heavy ion reactions

**CHROMIUM 54 TARGET**

*ETDE*: 1976-07-09

**BT1** targets

**CHROMIUM 55**

\***BT1** beta-minus decay radioisotopes  
 \***BT1** chromium isotopes  
 \***BT1** even-odd nuclei  
 \***BT1** intermediate mass nuclei  
 \***BT1** minutes living radioisotopes

**CHROMIUM 56**

\***BT1** beta-minus decay radioisotopes  
 \***BT1** chromium isotopes  
 \***BT1** even-even nuclei  
 \***BT1** intermediate mass nuclei  
 \***BT1** minutes living radioisotopes

**CHROMIUM 56 TARGET**

*INIS*: 1981-07-13; *ETDE*: 1981-08-04

**BT1** targets

**CHROMIUM 57**

\***BT1** beta-minus decay radioisotopes  
 \***BT1** chromium isotopes  
 \***BT1** even-odd nuclei  
 \***BT1** intermediate mass nuclei  
 \***BT1** seconds living radioisotopes

**CHROMIUM 58**

\***BT1** beta-minus decay radioisotopes  
 \***BT1** chromium isotopes  
 \***BT1** even-even nuclei  
 \***BT1** intermediate mass nuclei  
 \***BT1** seconds living radioisotopes

**CHROMIUM 59**

1980-11-07

\***BT1** beta-minus decay radioisotopes  
 \***BT1** chromium isotopes  
 \***BT1** even-odd nuclei  
 \***BT1** intermediate mass nuclei  
 \***BT1** seconds living radioisotopes

**CHROMIUM 60**

*INIS*: 1986-08-19; *ETDE*: 1981-01-30

\***BT1** beta-minus decay radioisotopes  
 \***BT1** chromium isotopes  
 \***BT1** even-even nuclei  
 \***BT1** intermediate mass nuclei  
 \***BT1** milliseconds living radioisotopes

**CHROMIUM 61**

*INIS*: 1986-08-19; *ETDE*: 1986-09-05

\***BT1** chromium isotopes  
 \***BT1** even-odd nuclei  
 \***BT1** intermediate mass nuclei

**CHROMIUM 62**

*INIS*: 1986-08-19; *ETDE*: 1986-09-05

\***BT1** beta-minus decay radioisotopes  
 \***BT1** chromium isotopes  
 \***BT1** even-even nuclei  
 \***BT1** intermediate mass nuclei  
 \***BT1** milliseconds living radioisotopes

**CHROMIUM 63**

2005-03-11

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**CHROMIUM 64**

2005-03-11

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 milliseconds living radioisotopes

**CHROMIUM 65**

2005-03-11

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nanoseconds living radioisotopes

**CHROMIUM 66**

2005-03-11

- \*BT1 beta-minus decay radioisotopes
- \*BT1 chromium isotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 nanoseconds living radioisotopes

**CHROMIUM ADDITIONS**

*Alloys containing not more than 1% Cr are listed here.*

- \*BT1 chromium alloys
- NT1 alloy-ni65mo28fe5
- NT2 hastelloy b
- NT1 alloy-zr98sn-2
- NT2 zircaloy 2
- NT1 alloy-zr98sn-4
- NT2 zircaloy 4
- NT1 steel-crmo
- NT1 steel-crni
- NT1 steel-mncumo
- NT2 steel-astm-a537
- NT1 steel-ni3cr
- NT1 steel-nicr
- NT1 steel-nicrmo
- NT1 steel-nimocr

**CHROMIUM ALLOYS**

1996-11-13

*Alloys containing more than 1% Cr.*

- UF alloy-50kh4n6g12j2v
- UF alloy-co64cr29w4
- UF alloy-co66cr26w6
- UF alloy-ehi 868
- UF alloy-ehp-567
- UF alloy-fe48cr24mi24
- UF alloy-in-519
- UF alloy-khn60b
- UF alloy-khn60v
- UF alloy-ni60cr25w15
- UF alloy-ni65mo16cr15w4
- UF alloy-ni78cr16al4
- UF alloy-vzh98
- UF in 519
- UF inconel 702
- UF manaurite 900
- UF nickel-chromium steels
- UF refractaloy
- UF rezistal
- UF sichromal alloys
- UF steel-000kh20n20
- UF steel-1-kh18n20t3p
- UF steel-37khn3t

- UF steel-40kh2n5sm
- UF steel-kh12n20t3p
- UF steel-kh18n22v2t2
- UF steel-khn35vt
- UF steel-n26kht1
- UF steel-vzh102
- UF stellite 156
- SF alloy-0kh12n13m
- SF steel-60kh3g8n8v
- \*BT1 transition element alloys
- NT1 alloy-b-1900
- NT1 alloy-co36cr22ni22w15fe3
- NT2 haynes 188 alloy
- NT1 alloy-co43cr20fe18ni13w3
- NT2 havar
- NT1 alloy-co54cr20w15ni10
- NT2 alloy-hs-25
- NT2 haynes 25 alloy
- NT1 alloy-co60cr30w4
- NT2 stellite 6
- NT1 alloy-d-979
- NT1 alloy-fe40ni35cr22
- NT1 alloy-fe44ni33cr21
- NT2 incoloy 800h
- NT1 alloy-fe46ni33cr21
- NT2 incoloy 800
- NT2 incoloy 802
- NT1 alloy-in-102
- NT1 alloy-khn50mbvyu
- NT1 alloy-mar-m246
- NT1 alloy-mn-21
- NT1 alloy-mo-re-1
- NT1 alloy-mp35n
- NT1 alloy-ni41fe40cr16nb3
- NT2 inconel 706
- NT1 alloy-ni43fe30cr22mo3
- NT2 incoloy 825
- NT1 alloy-ni43fe33cr16mo3
- NT2 nimonic pe16
- NT1 alloy-ni45fe34cr20
- NT1 alloy-ni46cr23co19ti5al4
- NT2 alloy-in-939
- NT1 alloy-ni49cr22fe18mo9
- NT2 hastelloy x
- NT1 alloy-ni50co20cr15al5mo5
- NT2 nimonic 105
- NT1 alloy-ni50cr22fe18mo9
- NT2 hastelloy xr
- NT1 alloy-ni50mo32cr15si3
- NT1 alloy-ni51cr48
- NT2 inconel 671
- NT1 alloy-ni53cr19fe19nb5mo3
- NT2 inconel 718
- NT1 alloy-ni54cr22co13mo9
- NT2 inconel 617
- NT1 alloy-ni54mo17cr16fe6w4
- NT2 hastelloy c
- NT1 alloy-ni55co17cr15mo5al4ti4
- NT2 astroloy
- NT1 alloy-ni55cr19co11mo10ti3
- NT2 rene 41
- NT1 alloy-ni58cr20co14mo4ti3
- NT2 waspaloy
- NT1 alloy-ni59cr20co17ti2
- NT1 alloy-ni59cr30fe9
- NT2 inconel 690
- NT1 alloy-ni60co15cr10al6ti5mo3
- NT2 alloy-in-100
- NT1 alloy-ni60fe24cr16
- NT2 nichrome
- NT1 alloy-ni61cr16co9al3ti3w3
- NT2 alloy-in-738
- NT1 alloy-ni61cr22mo9nb4fe3
- NT2 inconel 625
- NT1 alloy-ni61cr23fe14
- NT1 alloy-ni62cr16mo15fe3
- NT2 hastelloy s
- NT1 alloy-ni65cr25mo10
- NT2 nimonic 86

- NT1 alloy-ni70mo17cr7fe5
- NT2 hastelloy n
- NT2 inor-8
- NT1 alloy-ni73cr15fe7ti3
- NT2 inconel x750
- NT1 alloy-ni73cr20mn3nb3
- NT2 inconel 82
- NT1 alloy-ni74cr13al6mo4
- NT2 inconel 713c
- NT1 alloy-ni75cr12al6mo5
- NT2 inconel 713lc
- NT1 alloy-ni76cr15fe8
- NT2 inconel 600
- NT1 alloy-ni76cr20ti2
- NT2 nimonic 80a
- NT1 alloy-ni77cr20ti2
- NT1 alloy-ni78cr21
- NT1 alloy-ni80cr20
- NT1 alloy-ra-333
- NT1 alloy-s-590
- NT1 alloy-s-816
- NT1 alloy-ti78cr11mo7al3
- NT1 alloy-ti88mo8al3
- NT1 alloy-ti91al5cr2
- NT1 alloy-v-36
- NT1 alloy-v87cr9fe3
- NT1 ascology
- NT1 chromium additions
- NT2 alloy-ni65mo28fe5
- NT3 hastelloy b
- NT2 alloy-zr98sn-2
- NT3 zircaloy 2
- NT2 alloy-zr98sn-4
- NT3 zircaloy 4
- NT2 steel-crmo
- NT2 steel-crni
- NT2 steel-mncumo
- NT3 steel-astm-a537
- NT2 steel-ni3cr
- NT2 steel-nicr
- NT2 steel-nicrmo
- NT2 steel-nimocr
- NT1 chromium base alloys
- NT2 alloy-mo-re-2
- NT1 chromium-nickel steels
- NT2 alloy-d-9
- NT2 carpenter
- NT2 chromium-nickel-molybdenum steels
- NT3 alloy-m-813
- NT3 steel-cr11ni10mo2ti-1
- NT3 steel-cr15ni15motib
- NT3 steel-cr16ni13monbv
- NT3 steel-cr16ni15mo3nb
- NT3 steel-cr16ni16monb
- NT3 steel-cr16ni8mo2
- NT4 stainless steel-16-8-2
- NT3 steel-cr16ni9mo2
- NT3 steel-cr17ni12mo3
- NT4 stainless steel-316
- NT3 steel-cr17ni12mo3-1
- NT4 stainless steel-316l
- NT4 stainless steel-zcnd17-13
- NT3 steel-cr17ni12monb
- NT3 steel-cr17ni13mo2ti
- NT3 steel-cr17ni13mo3ti
- NT3 steel-ni26cr15ti2movalb
- NT4 alloy-a-286
- NT2 durco
- NT2 enduro
- NT2 stainless steel-17-7ph
- NT2 stainless steel-303
- NT2 stainless steel-329
- NT2 stainless steel-ph-15-7-mo
- NT2 steel-cr17ni13
- NT2 steel-cr17ni7
- NT3 stainless steel-301
- NT2 steel-cr18ni10
- NT3 stainless steel-18-10

NT2 steel-cr18ni10-l  
 NT2 steel-cr18ni10ti  
 NT3 stainless steel-321  
 NT2 steel-cr18ni11  
 NT3 steel-x6crni1811  
 NT2 steel-cr18ni11nb  
 NT3 stainless steel-347  
 NT2 steel-cr18ni11nbco  
 NT3 stainless steel-348  
 NT2 steel-cr18ni12  
 NT3 stainless steel-305  
 NT2 steel-cr18ni12ti  
 NT2 steel-cr18ni8  
 NT3 stainless steel-18-8  
 NT2 steel-cr18ni9  
 NT3 stainless steel-302  
 NT2 steel-cr18ni9ti  
 NT2 steel-cr19ni10  
 NT3 stainless steel-304  
 NT2 steel-cr19ni10-l  
 NT3 stainless steel-304l  
 NT2 steel-cr20ni11  
 NT3 stainless steel-308  
 NT2 steel-cr20ni11-l  
 NT3 stainless steel-308l  
 NT2 steel-cr23ni14  
 NT3 stainless steel-309  
 NT3 stainless steel-309s  
 NT2 steel-cr23ni18  
 NT2 steel-cr25ni20  
 NT3 alloy-hk-40  
 NT3 stainless steel-310  
 NT2 steel-ni25cr20  
 NT3 stainless steel-20-25  
 NT2 steel-ni36cr12ti3al-l  
 NT2 timken alloys  
 NT1 chromium steels  
 NT2 chromium-molybdenum steels  
 NT3 chromium-nickel-molybdenum steels  
 NT4 alloy-m-813  
 NT4 steel-cr11ni10mo2ti-l  
 NT4 steel-cr15ni15motib  
 NT4 steel-cr16ni13monbv  
 NT4 steel-cr16ni15mo3nb  
 NT4 steel-cr16ni16monb  
 NT4 steel-cr16ni8mo2  
 NT5 stainless steel-16-8-2  
 NT4 steel-cr16ni9mo2  
 NT4 steel-cr17ni12mo3  
 NT5 stainless steel-316  
 NT4 steel-cr17ni12mo3-l  
 NT5 stainless steel-316l  
 NT5 stainless steel-zcnd17-13  
 NT4 steel-cr17ni12monb  
 NT4 steel-cr17ni13mo2ti  
 NT4 steel-cr17ni13mo3ti  
 NT4 steel-ni26cr15ti2movalb  
 NT5 alloy-a-286  
 NT2 magnet steel-ks  
 NT2 miduale  
 NT2 stainless steel-406  
 NT2 steel-cr10mo2  
 NT2 steel-cr12  
 NT3 stainless steel-403  
 NT2 steel-cr12moniv  
 NT2 steel-cr12mov  
 NT3 alloy-ht-9  
 NT2 steel-cr13  
 NT3 stainless steel-410  
 NT2 steel-cr13al  
 NT3 stainless steel-405  
 NT2 steel-cr16  
 NT3 stainless steel-430  
 NT2 steel-cr16ni  
 NT2 steel-cr17cu4ni4nb-l  
 NT3 stainless steel-17-4ph  
 NT2 steel-cr17mo  
 NT3 stainless steel-440

NT2 steel-cr17ni4mo3  
 NT2 steel-cr18  
 NT2 steel-cr25  
 NT3 stainless steel-446  
 NT2 steel-cr9mo  
 NT2 steel-cr9monbv  
 NT1 colmonoy  
 NT1 discaloy  
 NT1 ge 2541  
 NT1 hoskins 875  
 NT1 illium  
 NT1 incoloy 901  
 NT1 kanthal  
 NT1 konel  
 NT1 magnesium alloy-zr  
 NT1 misco metal  
 NT1 ni-hard  
 NT1 ni-o-nel  
 NT1 microbraz 50  
 NT1 nimonic 115  
 NT1 rene-100  
 NT1 rene 80  
 NT1 rene 95  
 NT1 sicromo 9m  
 NT1 steel-cd-4mcu  
 NT1 steel-cr21mn9ni6  
 NT2 stainless steel-21-6-9  
 NT1 steel-cr2mo  
 NT2 steel-astm-a542  
 NT1 steel-cr2moninb  
 NT1 steel-cr2mov  
 NT1 steel-cr2nimov  
 NT1 steel-cr5mo  
 NT1 steel-cralnimo  
 NT1 steel-crmov  
 NT1 steel-ni3crmo  
 NT2 steel-astm-a543  
 NT1 steel-ni3crmov  
 NT1 steel-ni4crw  
 NT1 supertherm  
 NT1 sweetalloy  
 NT1 td-nickel chromium  
 NT1 tophet  
 NT1 tribaloy 400  
 NT1 tribaloy 800  
 NT1 udimet alloys  
 NT2 alloy-ni53co19cr15mo5al4ti3  
 NT3 udimet 700  
 NT2 udimet 500  
 NT1 vitallium

#### CHROMIUM BASE ALLOYS

\*BT1 chromium alloys  
 NT1 alloy-mo-re-2

#### CHROMIUM BORIDES

\*BT1 borides  
 \*BT1 chromium compounds

#### CHROMIUM BROMIDES

\*BT1 bromides  
 \*BT1 chromium compounds

#### CHROMIUM CARBIDES

\*BT1 carbides  
 \*BT1 chromium compounds

#### CHROMIUM CHLORIDES

\*BT1 chlorides  
 \*BT1 chromium compounds

#### CHROMIUM COMPLEXES

\*BT1 transition element complexes

#### CHROMIUM COMPOUNDS

1996-07-15

BT1 transition element compounds  
 NT1 chromates  
 NT1 chromic acid  
 NT1 chromites  
 NT1 chromium borides

NT1 chromium bromides  
 NT1 chromium carbides  
 NT1 chromium chlorides  
 NT1 chromium fluorides  
 NT1 chromium hydrides  
 NT1 chromium hydroxides  
 NT1 chromium iodides  
 NT1 chromium nitrates  
 NT1 chromium nitrides  
 NT1 chromium oxides  
 NT1 chromium perchlorates  
 NT1 chromium phosphates  
 NT1 chromium selenides  
 NT1 chromium silicates  
 NT1 chromium silicides  
 NT1 chromium sulfates  
 NT1 chromium sulfides  
 NT1 chromium tellurides  
 NT1 dichromates

#### CHROMIUM FLUORIDES

\*BT1 chromium compounds  
 \*BT1 fluorides

#### CHROMIUM HYDRIDES

1978-07-03

\*BT1 chromium compounds  
 \*BT1 hydrides

#### CHROMIUM HYDROXIDES

\*BT1 chromium compounds  
 \*BT1 hydroxides

#### CHROMIUM IODIDES

\*BT1 chromium compounds  
 \*BT1 iodides

#### CHROMIUM IONS

\*BT1 ions

#### CHROMIUM ISOTOPES

1999-07-16

BT1 isotopes  
 NT1 chromium 42  
 NT1 chromium 43  
 NT1 chromium 44  
 NT1 chromium 45  
 NT1 chromium 46  
 NT1 chromium 47  
 NT1 chromium 48  
 NT1 chromium 49  
 NT1 chromium 50  
 NT1 chromium 51  
 NT1 chromium 52  
 NT1 chromium 53  
 NT1 chromium 54  
 NT1 chromium 55  
 NT1 chromium 56  
 NT1 chromium 57  
 NT1 chromium 58  
 NT1 chromium 59  
 NT1 chromium 60  
 NT1 chromium 61  
 NT1 chromium 62  
 NT1 chromium 63  
 NT1 chromium 64  
 NT1 chromium 65  
 NT1 chromium 66



**CHROMIUM-MOLYBDENUM STEELS**

1994-09-30

Steels containing Cr and Mo as main alloying elements; Cr content is higher than Mo content.

(Until November 1983 this was a valid descriptor. From November 1983 until September 1994 the concept was indexed to CHROMIUM ALLOYS, MOLYBDENUM ALLOYS and the most specific appropriate term from the STEELS hierarchy.)

UF steel-15khg2sfmr

UF steel-20khmf

UF steel-2kh8v8m2k8

UF steel-38kh5msfa

UF steel-z10cdv7

\*BT1 chromium steels

\*BT1 molybdenum alloys

NT1 chromium-nickel-molybdenum steels

NT2 alloy-m-813

NT2 steel-cr11ni10mo2ti-1

NT2 steel-cr15ni15motib

NT2 steel-cr16ni13monbv

NT2 steel-cr16ni15mo3nb

NT2 steel-cr16ni16monb

NT2 steel-cr16ni8mo2

NT3 stainless steel-16-8-2

NT2 steel-cr16ni9mo2

NT2 steel-cr17ni12mo3

NT3 stainless steel-316

NT2 steel-cr17ni12mo3-1

NT3 stainless steel-316l

NT3 stainless steel-zcnd17-13

NT2 steel-cr17ni12monb

NT2 steel-cr17ni13mo2ti

NT2 steel-cr17ni13mo3ti

NT2 steel-ni26cr15ti2moyalb

NT3 alloy-a-286

**CHROMIUM-NICKEL-MOLYBDENUM STEELS**

INIS: 1996-11-13; ETDE: 1988-12-16

Cr-Ni steels containing Mo.

UF steel-13cr6nimo

UF steel-42kh2gsnm

UF steel-cr13ni6mo-1

UF steel-ehp699

UF steel-kh14k9n6m5

UF steel-kh15n20m2t2

UF steel-kh17n5m3

UF steel-ni17cr14moti-1

\*BT1 chromium-molybdenum steels

\*BT1 chromium-nickel steels

NT1 alloy-m-813

NT1 steel-cr11ni10mo2ti-1

NT1 steel-cr15ni15motib

NT1 steel-cr16ni13monbv

NT1 steel-cr16ni15mo3nb

NT1 steel-cr16ni16monb

NT1 steel-cr16ni8mo2

NT2 stainless steel-16-8-2

NT1 steel-cr16ni9mo2

NT1 steel-cr17ni12mo3

NT2 stainless steel-316

NT1 steel-cr17ni12mo3-1

NT2 stainless steel-316l

NT2 stainless steel-zcnd17-13

NT1 steel-cr17ni12monb

NT1 steel-cr17ni13mo2ti

NT1 steel-cr17ni13mo3ti

NT1 steel-ni26cr15ti2moyalb

NT2 alloy-a-286

**CHROMIUM-NICKEL STEELS**

1996-11-13

High alloy steels containing Cr and Ni as important alloying elements.

(Prior to November 1983 this descriptor included only steels in which the Cr content was higher than the Ni content.)

UF stainless steel-330

UF stainless steel-z2cn18-10n

UF stainless steel-z3cmm18-8-6n

UF stainless steel-z3cnd18-13

UF stainless steel-z6cnd17-13b

UF stainless steel-z6cndt17-13b

UF stainless steel-z6cnt18-12b

UF steel-000kh18n13

UF steel-000kh20n16ag6

UF steel-03kh11n10m2tk6

UF steel-0kh19nt

UF steel-18kh16n6

UF steel-1kh16n14v2br ehp17

UF steel-1kh16n4b

UF steel-20kh2n2m

UF steel-20khn3mf

UF steel-2kh18n8v2

UF steel-3kh15n13yu3

UF steel-40kh13n8g8

UF steel-4kh12n8g8mfb

UF steel-4kh14n2m

UF steel-cr13mn8ni8

UF steel-din-1-4449

UF steel-kh14n8yum2

UF steel-kh15n7yum2

UF steel-kh15n9yu

UF steel-kh18n8

UF steel-ni36cr18

\*BT1 chromium alloys

\*BT1 nickel alloys

\*BT1 stainless steels

NT1 alloy-d-9

NT1 carpenter

NT1 chromium-nickel-molybdenum steels

NT2 alloy-m-813

NT2 steel-cr11ni10mo2ti-1

NT2 steel-cr15ni15motib

NT2 steel-cr16ni13monbv

NT2 steel-cr16ni15mo3nb

NT2 steel-cr16ni16monb

NT2 steel-cr16ni8mo2

NT3 stainless steel-16-8-2

NT2 steel-cr16ni9mo2

NT2 steel-cr17ni12mo3

NT3 stainless steel-316

NT2 steel-cr17ni12mo3-1

NT3 stainless steel-316l

NT3 stainless steel-zcnd17-13

NT2 steel-cr17ni12monb

NT2 steel-cr17ni13mo2ti

NT2 steel-cr17ni13mo3ti

NT2 steel-ni26cr15ti2moyalb

NT3 alloy-a-286

NT1 durco

NT1 enduro

NT1 stainless steel-17-7ph

NT1 stainless steel-303

NT1 stainless steel-329

NT1 stainless steel-ph-15-7-mo

NT1 steel-cr17ni13

NT1 steel-cr17ni7

NT2 stainless steel-301

NT1 steel-cr18ni10

NT2 stainless steel-18-10

NT1 steel-cr18ni10-l

NT1 steel-cr18ni10ti

NT2 stainless steel-321

NT1 steel-cr18ni11

NT2 steel-x6crni1811

NT1 steel-cr18ni11nb

NT2 stainless steel-347

NT1 steel-cr18ni11nbc

NT2 stainless steel-348

NT1 steel-cr18ni12

NT2 stainless steel-305

NT1 steel-cr18ni12ti

NT1 steel-cr18ni8

NT2 stainless steel-18-8

NT1 steel-cr18ni9

NT2 stainless steel-302

NT1 steel-cr18ni9ti

NT1 steel-cr19ni10

NT2 stainless steel-304

NT1 steel-cr19ni10-l

NT2 stainless steel-304l

NT1 steel-cr20ni11

NT2 stainless steel-308

NT1 steel-cr20ni11-l

NT2 stainless steel-308l

NT1 steel-cr23ni14

NT2 stainless steel-309

NT2 stainless steel-309s

NT1 steel-cr23ni18

NT1 steel-cr25ni20

NT2 alloy-hk-40

NT2 stainless steel-310

NT1 steel-ni25cr20

NT2 stainless steel-20-25

NT1 steel-ni36cr12ti3al-l

NT1 timken alloys

RT nickel steels

**CHROMIUM NITRATES**

\*BT1 chromium compounds

\*BT1 nitrates

**CHROMIUM NITRIDES**

\*BT1 chromium compounds

\*BT1 nitrides

**CHROMIUM ORES**

BT1 ores

**CHROMIUM OXIDES**

1996-07-15

UF lanthanum chromites

\*BT1 chromium compounds

\*BT1 oxides

RT chromates

RT chromic acid

RT chromites

RT dichromates

**CHROMIUM PERCHLORATES**

INIS: 1983-06-02; ETDE: 1977-04-12

\*BT1 chromium compounds

\*BT1 perchlorates

**CHROMIUM PHOSPHATES**

\*BT1 chromium compounds

\*BT1 phosphates

**CHROMIUM SELENIDES**

INIS: 1976-11-17; ETDE: 1976-08-24

\*BT1 chromium compounds

\*BT1 selenides

**CHROMIUM SILICATES**

\*BT1 chromium compounds

\*BT1 silicates

**CHROMIUM SILICIDES**

1982-04-14

\*BT1 chromium compounds

\*BT1 silicides

**CHROMIUM STEELS**

1996-11-13

High alloy steels containing Cr as main alloying element.

UF crocar

UF stainless steel-44ln

UF steel-0kh21n5t

UF steel-0kh22n5t

UF steel-1kh12v2mf  
 UF steel-40k14g18f  
 UF steel-9khs  
 UF steel-cr21ni5ti  
 UF steel-cr22ni5ti  
 UF steel-cr26ni5mo-1  
 UF steel-kh13s2yu2bt  
 UF steel-r18  
 \*BT1 chromium alloys  
 \*BT1 stainless steels  
 NT1 chromium-molybdenum steels  
 NT2 chromium-nickel-molybdenum steels  
 NT3 alloy-m-813  
 NT3 steel-cr11ni10mo2ti-1  
 NT3 steel-cr15ni15motib  
 NT3 steel-cr16ni13monbv  
 NT3 steel-cr16ni15mo3nb  
 NT3 steel-cr16ni16monb  
 NT3 steel-cr16ni8mo2  
 NT4 stainless steel-16-8-2  
 NT3 steel-cr16ni9mo2  
 NT3 steel-cr17ni12mo3  
 NT4 stainless steel-316  
 NT3 steel-cr17ni12mo3-1  
 NT4 stainless steel-316l  
 NT4 stainless steel-zcnd17-13  
 NT3 steel-cr17ni12monb  
 NT3 steel-cr17ni13mo2ti  
 NT3 steel-cr17ni13mo3ti  
 NT3 steel-ni26cr15ti2moyalb  
 NT4 alloy-a-286  
 NT1 magnet steel-ks  
 NT1 miduale  
 NT1 stainless steel-406  
 NT1 steel-cr10mo2  
 NT1 steel-cr12  
 NT2 stainless steel-403  
 NT1 steel-cr12moniv  
 NT1 steel-cr12mov  
 NT2 alloy-ht-9  
 NT1 steel-cr13  
 NT2 stainless steel-410  
 NT1 steel-cr13al  
 NT2 stainless steel-405  
 NT1 steel-cr16  
 NT2 stainless steel-430  
 NT1 steel-cr16ni  
 NT1 steel-cr17cu4ni4nb-1  
 NT2 stainless steel-17-4ph  
 NT1 steel-cr17mo  
 NT2 stainless steel-440  
 NT1 steel-cr17ni4mo3  
 NT1 steel-cr18  
 NT1 steel-cr25  
 NT2 stainless steel-446  
 NT1 steel-cr9mo  
 NT1 steel-cr9monbv

**CHROMIUM SULFATES**

\*BT1 chromium compounds  
 \*BT1 sulfates

**CHROMIUM SULFIDES**

\*BT1 chromium compounds  
 \*BT1 sulfides

**CHROMIUM TELLURIDES**

INIS: 1978-11-24; ETDE: 1978-06-14

\*BT1 chromium compounds  
 \*BT1 tellurides

**chromizing**

USE diffusion coating

**chromodynamics**

INIS: 2000-04-12; ETDE: 1977-11-28

USE quantum chromodynamics

**chromone**

INIS: 2000-04-12; ETDE: 1979-10-23  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE pyrones

**CHROMOPHYCOTA**

INIS: 1991-12-11; ETDE: 1988-12-20

\*BT1 algae  
 NT1 diatoms  
 NT1 fucus  
 NT1 laminaria

**CHROMOSOMAL ABERRATIONS**

1998-02-16

UF abnormalities (chromosomal)  
 UF chromatid deletions  
 UF chromosome aberrations  
 UF chromosome exchanges  
 UF chromosome fragments  
 UF deletions (chromosomal)  
 UF reciprocal translocations  
 BT1 mutations  
 NT1 chromosome breakage  
 NT1 sister chromatid exchanges  
 RT acrocentric chromosomes  
 RT banding techniques  
 RT biological indicators  
 RT chromosomes  
 RT dicentric chromosomes  
 RT dna damages  
 RT downs syndrome  
 RT genetic control  
 RT hereditary diseases  
 RT heterochromosomes  
 RT human chromosomes  
 RT karyotype  
 RT telomeres

**chromosome aberrations**

USE chromosomal aberrations

**CHROMOSOME BREAKAGE**

\*BT1 chromosomal aberrations  
 RT heterochromatin

**chromosome exchanges**

USE chromosomal aberrations

**chromosome fragments**

USE chromosomal aberrations

**CHROMOSOME LOSSES**

INIS: 1976-05-05; ETDE: 1976-06-07

BT1 losses  
 RT chromosomes  
 RT genetic radiation effects

**CHROMOSOME SORTING**

INIS: 1988-04-15; ETDE: 1987-04-24  
 The physical separation of a karyotype to provide large quantities of an individual chromosome.

BT1 cytological techniques  
 RT cell flow systems  
 RT chromosomes  
 RT human chromosomes

**CHROMOSOMES**

1997-06-17

NT1 acrocentric chromosomes  
 NT1 dicentric chromosomes  
 NT1 heterochromosomes  
 NT2 x chromosome  
 NT3 human x chromosome  
 NT2 y chromosome  
 NT3 human y chromosome  
 NT1 human chromosomes  
 NT2 human chromosome 1  
 NT2 human chromosome 12  
 NT2 human chromosome 13

NT2 human chromosome 14  
 NT2 human chromosome 15  
 NT2 human chromosome 16  
 NT2 human chromosome 17  
 NT2 human chromosome 18  
 NT2 human chromosome 19  
 NT2 human chromosome 2  
 NT2 human chromosome 21  
 NT2 human chromosome 22  
 NT2 human chromosome 3  
 NT2 human chromosome 5  
 NT2 human chromosome 6  
 NT2 human chromosome 7  
 NT2 human chromosome 8  
 NT2 human chromosome 9  
 NT2 human x chromosome  
 NT2 human y chromosome  
 NT2 philadelphia chromosome

NT1 ring chromosomes

RT banding techniques  
 RT cell nuclei  
 RT centromeres  
 RT chromatids  
 RT chromatin  
 RT chromosomal aberrations  
 RT chromosome losses  
 RT chromosome sorting  
 RT contigs  
 RT crossing-over  
 RT dna  
 RT dna repair  
 RT gene operons  
 RT gene regulation  
 RT genes  
 RT genetic effects  
 RT genetic mapping  
 RT in-situ hybridization  
 RT karyotype  
 RT mitosis  
 RT nucleoli  
 RT rflps  
 RT telomeres

**CHROMOSPHERE**

\*BT1 solar atmosphere  
 RT photosphere  
 RT plages  
 RT solar flares  
 RT sun

**CHROMOTROPIC ACID**

\*BT1 hydroxy compounds  
 \*BT1 sulfonic acids  
 RT dyes

**chronic administration**

USE chronic intake

**CHRONIC EXPOSURE**

INIS: 1985-12-10; ETDE: 1978-06-14

For chronic exposure to radiation use CHRONIC IRRADIATION.

NT1 chronic irradiation  
 RT biological effects  
 RT biological stress  
 RT environmental exposure  
 RT toxicity

**CHRONIC INTAKE**

UF chronic administration  
 UF continuous intake  
 UF long term intake  
 BT1 intake  
 RT chronic irradiation

**CHRONIC IRRADIATION**

UF continuous irradiation  
 UF long term irradiation  
 UF protracted irradiation  
 BT1 chronic exposure  
 BT1 irradiation

RT chronic intake  
 RT low dose irradiation  
 RT radiation doses  
 RT radiation syndrome  
 RT temporal dose distributions

**chronic radiation effects**

USE delayed radiation effects

**CHRONOTRONS**

1996-07-08

(Prior to August 1996 VERNIER CHRONOTRONS was a valid ETDE descriptor.)

UF vernier chronotrons

\*BT1 time interval analyzers

**CHRYSENE**

\*BT1 condensed aromatics

\*BT1 hydrocarbons

**CHRYSOBERYL**

INIS: 2000-04-12; ETDE: 1980-06-23

Beryllium aluminate.

\*BT1 oxide minerals

RT aluminium oxides

RT beryllium oxides

**chrysothamnus nauseosus**

INIS: 2000-04-12; ETDE: 1982-03-11

USE shrubs

**CHS TORSATRON**

1991-02-11

National Institute for Fusion Science, Nagoya, Japan.

UF compact helical system torsatron

\*BT1 torsatron stellarators

**chubu-1 reactor**

USE hamaoka-1 reactor

**chubu-2 reactor**

USE hamaoka-2 reactor

**chubu-3 reactor**

USE hamaoka-3 reactor

**chubu-4 reactor**

1992-11-03

USE hamaoka-4 reactor

**chubu-5 reactor**

2000-01-31

USE hamaoka-5 reactor

**chugoku-1 reactor**

USE shimane-1 reactor

**chugoku-2 reactor**

INIS: 1985-11-16; ETDE: 1985-08-08

USE shimane-2 reactor

**chugoku electric power company reactor**

1993-11-04

USE shimane-1 reactor

**CHUKCHI SEA**

INIS: 1997-08-20; ETDE: 1985-07-19

Part of Arctic Ocean north of Bering Strait between Asia and North America.

\*BT1 arctic ocean

RT alaska

RT arctic regions

RT siberia

**chukotka reactor**

USE bilibin reactor

**CHYLOMICRONS**

RT blood plasma

RT lipids

**CHYMOTRYPSIN**

Code numbers 3.4.21.1 and 3.4.21.2.

\*BT1 serine proteinases

RT digestion

RT pancreas

**CIAE**

INIS: 1992-08-05; ETDE: 1992-09-10

UF china institute of atomic energy

\*BT1 chinese organizations

RT china

RT mnsr-ciae reactor

**cigarettes**

INIS: 2000-04-12; ETDE: 1980-01-15

SEE tobacco products

**cii computers**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE digital computers

**CILIATA**

INIS: 1993-07-13; ETDE: 1981-06-17

\*BT1 protozoa

NT1 paramecium

NT1 tetrahymena

**CIM MODEL**

INIS: 1978-08-14; ETDE: 1978-04-27

Constituent interchange model shows importance of forces involving the interchange of constituents of hadrons and accounts for very strong binding force in color singlet states.

UF constituent interchange model

\*BT1 composite models

RT exchange interactions

RT hadrons

RT quantum chromodynamics

RT quark-hadron interactions

RT strong interactions

**cimarron plutonium plant**

INIS: 1994-08-12; ETDE: 2002-06-13

USE cimarron plutonium production plant

**CIMARRON PLUTONIUM PRODUCTION PLANT**

1994-08-12

(Until August 1994 this descriptor in INIS was spelled CIMARRON PLUTONIUM PLANT.)

UF cimarron plutonium plant

\*BT1 fuel fabrication plants

BT1 industrial plants

RT cimarron uranium fuel plant

**CIMARRON URANIUM FUEL PLANT**

INIS: 1994-08-12; ETDE: 1975-11-28

(Until August 1994 this descriptor was spelled CIMARRON URANIUM PLANT.)

UF cimarron uranium plant

\*BT1 fuel fabrication plants

BT1 industrial plants

RT cimarron plutonium production plant

**cimarron uranium plant**

INIS: 1994-08-12; ETDE: 1976-05-17

(Until August 1994 this was a valid descriptor.)

USE cimarron uranium fuel plant

**cinchonine**

1996-07-18

See also ANTIMICROBIAL AGENTS and ANTIPYRETICS.

(Until July 1996 this was a valid descriptor.)

USE alkaloids

**CINDA**

Computer Index of Nuclear Data.

BT1 information systems

RT cross sections

RT data

RT neutrons

RT nuclear data collections

RT nuclear reactions

**CINEMATOGRAPHY**

INIS: 1986-01-21; ETDE: 1986-03-04

Motion picture photography.

BT1 photography

**cinnabar**

INIS: 2000-04-12; ETDE: 1977-03-08

HgS mineral.

(Prior to February 1995, this was a valid ETDE descriptor.)

USE sulfide minerals

**CINNAMIC ACID**

UF phenylacrylic acid-beta

\*BT1 monocarboxylic acids

**cir reactor**

USE cirus reactor

**circadian variations**

USE daily variations

**CIRCE DEVICES**

1996-07-18

\*BT1 magnetic mirrors

**CIRCLE CLIFFS DEPOSIT**

INIS: 2000-04-12; ETDE: 1983-07-07

\*BT1 oil sand deposits

RT oil sands

RT utah

**CIRCUIT BREAKERS**

UF breakers (circuit)

\*BT1 electrical equipment

BT1 equipment protection devices

RT current limiters

RT electric fuses

RT electronic circuits

RT insulating oils

RT lightning arresters

RT switches

RT switching circuits

**CIRCUIT THEORY**

RT electronic circuits

RT network analysis

**circuits (electronic)**

USE electronic circuits

**circuits (magnetic)**

USE magnetic circuits

**CIRCULAR CONFIGURATION**

BT1 configuration

**circular point collectors**

INIS: 1992-03-30; ETDE: 1978-10-25

USE parabolic dish collectors

**circulating fluidized bed boilers**

INIS: 2000-04-12; ETDE: 1993-01-20

USE circulating systems

USE fluidized bed boilers

**circulating fluidized beds**

INIS: 1993-02-18; ETDE: 2002-06-13

USE circulating systems

USE fluidized beds

**CIRCULATING SYSTEMS**

INIS: 1993-02-18; ETDE: 1979-11-07

*Fluid systems in which the process fluid is taken from and pumped back into the system.*

UF circulating fluidized bed boilers

UF circulating fluidized beds

NT1 self-pumping systems

RT coolant loops

RT pumping

RT pumps

RT thermosyphon effect

**circulation (blood)**

USE blood circulation

**CIRENE REACTOR***Cirene, Latina, Italy.*

\*BT1 hwlwr type reactors

\*BT1 pressure tube reactors

\*BT1 thermal reactors

**CIRUS REACTOR***Bhabha Atomic Research Centre, Trombay, Maharashtra, India.*

UF canada-india reactor

UF cir reactor

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 natural uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 training reactors

\*BT1 water cooled reactors

**CISE**

UF centro informazioni studi esperienze

\*BT1 italian organizations

**cistrons**

USE genes

**cit synchrotron**

1996-07-18

*Caltech Synchrotron.*

USE synchrotrons

**cities**

USE urban areas

**CITRATE PROCESS**

2000-04-12

*Process for clean up of tail gas emissions from sulfur recovery plants, e.g. Claus Process plant.*

\*BT1 desulfurization

**CITRATES**

UF sodium citrates

BT1 carboxylic acid salts

RT citric acid esters

**citrex process**

INIS: 2000-04-12; ETDE: 1983-03-23

*Flue gas desulfurization process licensed by Peabody.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

USE waste processing

**CITRIC ACID**

\*BT1 hydroxy acids

**CITRIC ACID ESTERS**

\*BT1 carboxylic acid esters

RT citrates

**CITROVORUM FACTOR**

UF folic acid

UF leucovorin

RT folic acid

RT vitamin b group

**CITRULLINE**

UF ureidoaminovaleric acid

\*BT1 amino acids

RT urea

**CITRUS**

\*BT1 magnoliopsida

RT fruit trees

RT grapefruits

RT lemons

RT oranges

**CIVAUX-1 REACTOR**

2004-05-11

*Electricite de France, Civaux, France.*

\*BT1 pwr type reactors

**CIVAUX-2 REACTOR**

2004-05-11

*Electricite de France, Civaux, France.*

\*BT1 pwr type reactors

**CIVEX PROCESS**

INIS: 1978-11-24; ETDE: 1978-06-14

\*BT1 reprocessing

RT fbr type reactors

RT nuclear materials diversion

RT plutonium recycle

RT solvent extraction

**CIVIL DEFENSE**

BT1 national defense

RT evacuation

RT human populations

RT local fallout

RT nuclear explosions

RT nuclear weapons

RT population relocation

RT radiation protection

RT safety

RT shelters

RT subsurface structures

**CIVIL ENGINEERING**

INIS: 1991-10-01; ETDE: 1982-08-11

BT1 engineering

**CIVIL LIABILITY**

BT1 liabilities

RT bcoclmnm

RT bcolons

RT bcstpc

RT pcotpl

RT price-anderson act

RT solas convention

RT vcoclnd

RT workmens compensation

**CLADDING***For the process only.*

\*BT1 surface coating

RT canning

RT decladding

RT fuel cans

RT hard facing

RT plating

RT rolling

**cladding-fuel interactions**

USE fuel-cladding interactions

**CLAISEN CONDENSATION**

BT1 chemical reactions

RT esters

**CLAMS**

INIS: 1986-12-18; ETDE: 1981-06-17

\*BT1 molluscs

**CLARKEITE**

\*BT1 oxide minerals

\*BT1 uranium minerals

RT potassium oxides

RT sodium oxides

RT uranium oxides

**clasp device**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE stellarators

**CLASSICAL MECHANICS**

UF newton mechanics

BT1 mechanics

RT hamiltonian function

**CLASSIFICATION**

INIS: 1999-02-12; ETDE: 1976-04-19

NT1 standard industrial classification

RT particle size classifiers

RT sorting

**CLASSIFIED INFORMATION**

INIS: 1991-12-11; ETDE: 1980-04-14

BT1 information

RT declassification

RT national security

RT secrecy protection

RT security

**CLATHRATES**

UF inclusion complexes

UF intercalates

UF occlusion complexes

RT adducts

RT crystals

RT matrix isolation

RT organic compounds

RT rare gases

**CLAUS PROCESS**

2000-04-12

*A process for recovery of elemental sulfur from hydrogen sulfide gas. Oxygen reacts with the hydrogen sulfide to produce dry sulfur and steam.*

\*BT1 desulfurization

RT ucap process

**claviceps**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE eumycota

USE parasites

**CLAYS**

\*BT1 silicate minerals

NT1 attapulgite

NT1 bentonite

NT1 boom clay

NT1 clinoptilolite

NT1 fullers earth

NT1 illite

NT1 kaolin

NT1 montmorillonite

NT1 sepiolite

NT1 smectite

RT adobe

RT alluvial deposits

RT ceramics

RT decontamination

RT ground water

RT loam

RT marlstone

RT radionuclide migration

RT sand

RT shales

RT soils

**CLEAN AIR ACTS**

INIS: 1994-01-24; ETDE: 1993-08-10

(Prior to November 1991 this concept in ETDE was indexed to CLEAN AIR ACT. From November 1991 to August 1993 this concept in ETDE was indexed to US CLEAN AIR ACT.)

UF *us clean air act*

\*BT1 pollution laws

RT air pollution

RT air quality

RT environment

RT environmental policy

RT pollution regulations

**CLEAN COKE PROCESS**

INIS: 2000-04-12; ETDE: 1976-03-11

Process that combines carbonization and hydrogenation reactions to convert nonmetallurgical-grade coal to low-sulfur metallurgical coke, chemical feedstocks, and liquid and gaseous fuels. Carbonization is carried out at 650 to 760 degrees C with a fluidizing gas containing 33% hydrogen.

RT carbonization

RT coal liquefaction

RT coking

RT hydrogenation

**clean fuel from coal process**

INIS: 2000-04-12; ETDE: 1976-08-24

USE cfc process

**CLEAN ROOMS**

INIS: 1983-02-03; ETDE: 1979-08-07

RT contamination

RT controlled atmospheres

RT remote handling

**CLEAN WATER ACTS**

INIS: 1994-01-24; ETDE: 1993-08-10

(Prior to April 1980 this concept in ETDE was indexed to FEDERAL WATER POLLUTION CONTROL ACT. from April 1980 to December 1991 this was a valid ETDE descriptor. From December 1991 to August 1993 this concept in ETDE was indexed to US CLEAN WATER ACT.)

UF *federal water pollution control act*

UF *fwpc*

UF *us clean water act*

UF *us water pollution control act*

\*BT1 pollution laws

RT environment

RT environmental policy

RT pollution regulations

RT water pollution

RT water quality

**cleanair process**

2000-04-12

Process for recovery of 99.9% of S from Claus plant tail gas, leaving no more than 200 ppm sulfur dioxide equivalent in the effluent.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**CLEANING**

NT1 air cleaning

NT1 decontamination

NT1 surface cleaning

NT1 washing

RT coal preparation

RT coolant cleanup systems

RT deashing

RT decarbonization

RT detergents

RT dishwashers

RT electropolishing

RT heavy media separation

RT purification

RT scrubbing

RT stains

**CLEARANCE**

NT1 blood-plasma clearance

NT1 excretion

NT2 exhalation

NT2 lung clearance

NT2 renal clearance

RT nuclear medicine

**clearance (renal)**

2000-04-12

USE renal clearance

**CLEAVAGE**

BT1 microstructure

RT crystal growth

RT crystallization

**CLEBSCH-GORDAN COEFFICIENTS**

UF *3j-symbols*

RT angular momentum

RT group theory

RT racah coefficients

RT wigner coefficients

**CLEMENTINE REACTOR**

LASL, Los Alamos, New Mexico, USA. Shut down in 1953.

\*BT1 fast reactors

\*BT1 mercury cooled reactors

\*BT1 plutonium reactors

\*BT1 research reactors

**CLEO STELLARATOR**

\*BT1 stellarators

RT proto-cleo stellarators

**clerical personnel**

INIS: 2000-04-12; ETDE: 1980-08-25

(Prior to April 1994, this was a valid ETDE descriptor.)

USE personnel

**CLEVELAND**

2000-04-12

\*BT1 ohio

BT1 urban areas

**CLIFFORD ALGEBRA**

RT group theory

**CLIMATE MODELS**

INIS: 1991-12-18; ETDE: 1986-01-24

BT1 mathematical models

RT ambient temperature

RT atmospheric circulation

RT box models

RT climates

RT general circulation models

RT meteorology

RT paleoclimatology

RT seasonal variations

**CLIMATES**

NT1 microclimates

RT antarctic regions

RT arctic regions

RT atmospheric circulation

RT atmospheric precipitations

RT boreal regions

RT climate models

RT degree days

RT deserts

RT droughts

RT little ice age

RT meteorology

RT nuclear winter

RT outdoors

RT paleoclimatology

RT phenology

RT seasons

RT temperate zones

RT tropical regions

RT tundra

RT weather

RT wind

RT wmo

**CLIMATIC CHANGE**

INIS: 1999-05-05; ETDE: 1991-10-28

UF *global climate change*

NT1 greenhouse effect

RT acid rain

RT ambient temperature

RT emissions tax

RT emissions trading

RT environmental protection

RT kyoto protocol

RT ozone layer

RT paleoclimatology

RT rio declaration

**CLINCH RIVER**

1997-06-19

\*BT1 rivers

RT tennessee

RT tennessee valley region

**CLINCH RIVER BREEDER REACTOR**

Project Management Corp./US DOE/TVA, Oak Ridge, Tennessee, USA. Canceled in 1983 after site preparation but before construction began.

UF *crbr reactor*

\*BT1 lmfbr type reactors

\*BT1 power reactors

\*BT1 sodium cooled reactors

RT enriched uranium reactors

RT plutonium reactors

**CLINICAL TRIALS**

2002-08-01

BT1 testing

RT diagnostic uses

RT drugs

**CLINOPTILOLITE**

A zeolite mineral.

\*BT1 clays

\*BT1 zeolites

**CLINTON-1 REACTOR**

AmerGen Energy Co., LLC, Clinton, Illinois, USA.

\*BT1 bwr type reactors

**CLINTON-2 REACTOR**

Illinois Power Co., Clinton, Illinois, USA.

Canceled in 1983 before construction began.

\*BT1 bwr type reactors

**clinton p. anderson meson physics facility**

2000-04-12

USE lampf linac

**clipping circuits**

USE pulse shapers

**CLONE CELLS**

BT1 cell cultures

RT animal cells

RT cloning

RT hela cells

RT in vitro

RT l cells

RT monoclonal antibodies

RT plant cells

RT plaque formation

**CLONING***INIS: 1977-10-17; ETDE: 1977-11-10*

- NT1 dna-cloning
- NT1 vegetative propagation
- RT cell cultures
- RT cell proliferation
- RT clone cells
- RT colony formation

**close-in fallout**

USE local fallout

**CLOSED CONFIGURATIONS***1996-01-24*

- UF magnetic traps (closed)
- BT1 magnetic field configurations
- NT1 minimum average-b configurations
- NT1 multipolar configurations
  - NT2 hexapolar configurations
  - NT2 octupolar configurations
  - NT2 quadrupolar configurations
- NT1 toroidal configuration
- RT closed plasma devices

**CLOSED-CYCLE COOLING SYSTEMS***1977-09-06*

- UF dry-type cooling towers
- \*BT1 cooling systems
- RT closed-cycle systems
- RT coolant loops
- RT cooling towers
- RT reactor cooling systems

**CLOSED-CYCLE MHD GENERATORS**

- \*BT1 mhd generators
- NT1 liquid-metal mhd generators
- RT open-cycle mhd generators

**CLOSED-CYCLE SYSTEMS***INIS: 1999-05-05; ETDE: 1975-12-16*

- RT closed-cycle cooling systems

**CLOSED-LOOP CONTROL***INIS: 1976-09-06; ETDE: 1976-11-01**With feedback.*

- BT1 control
- RT feedback

**CLOSED PLASMA DEVICES**

- BT1 thermonuclear devices
- NT1 astron
- NT1 blascon devices
- NT1 compact torus
  - NT2 field-reversed theta pinch devices
  - NT2 rotamak devices
- NT1 heliotron
- NT1 internal ring devices
  - NT2 fm devices
  - NT2 levitron devices
  - NT2 lm devices
  - NT2 spherator
  - NT2 tokapole devices
  - NT2 tornado devices
- NT1 lhd device
- NT1 stellarators
  - NT2 cleo stellarator
  - NT2 heliac stellarators
    - NT3 h-1 heliac
    - NT3 hsx stellarator
    - NT3 sheila heliac
    - NT3 tj-ii heliac
  - NT2 heliotron-e stellarator
  - NT2 ims stellarator
  - NT2 jipp stellarator
  - NT2 jippt-2 device
  - NT2 l-2 stellarator
  - NT2 proto-cleo stellarators
  - NT2 sirius device
  - NT2 stellarator model c

- NT2 torsatron stellarators
- NT3 atf torsatron
- NT3 chs torsatron
- NT3 tj-ii torsatron
- NT3 vint torsatron
- NT2 uragan stellarator
- NT2 wega stellarator
- NT2 wendelstein-2b stellarator
- NT2 wendelstein-7 stellarator
- NT1 tokamak devices
  - NT2 act devices
  - NT2 aditya tokamak
  - NT2 alcator device
  - NT2 asdex tokamak
  - NT2 atc devices
  - NT2 castor tokamak
  - NT2 columbia high-beta tokamak
  - NT2 compact ignition tokamak
  - NT2 compass-d tokamak
  - NT2 continuous current tokamak
  - NT2 ct-6b tokamak
  - NT2 dante tokamak
  - NT2 dite tokamak
  - NT2 doublet-2 device
  - NT2 doublet-3 device
  - NT2 eft tokamak
  - NT2 ft tokamak
  - NT2 hl-1 tokamak
  - NT2 hl-1m tokamak
  - NT2 hl-2 tokamak
  - NT2 hl-2a tokamak
  - NT2 ht-2 tokamak
  - NT2 ht-6b tokamak
  - NT2 ht-6m tokamak
  - NT2 ht-7 tokamak
  - NT2 ht-7u tokamak
  - NT2 hybtok tokamaks
  - NT2 ignition spherical torus
  - NT2 intor tokamak
  - NT2 isttok tokamak
  - NT2 isx tokamak
  - NT2 iter tokamak
  - NT2 jet tokamak
  - NT2 jft-2 tokamak
  - NT2 jft-2a tokamak
  - NT2 jft-2m tokamak
  - NT2 jippt-2 device
  - NT2 jt-60 tokamak
  - NT2 jt-60u tokamak
  - NT2 jxfr tokamak
  - NT2 kt-2 tokamak
  - NT2 lt-3 tokamak
  - NT2 lt-4 tokamak
  - NT2 mt-1 tokamak
  - NT2 mtx tokamak
  - NT2 net tokamak
  - NT2 ormak devices
  - NT2 pbx devices
  - NT2 pdx devices
  - NT2 petula tokamak
  - NT2 phaedrus-t tokamak
  - NT2 plt devices
  - NT2 pulsator devices
  - NT2 rtp tokamak
  - NT2 sinp tokamak
  - NT2 spheromak devices
    - NT3 cdx-u spheromak
    - NT3 ctx spheromak
    - NT3 globus-m spheromak
    - NT3 mast tokamak
    - NT3 nstx device
    - NT3 sspcx device
    - NT3 sunist spheromak
    - NT3 ts-3 device
  - NT2 st tokamak
  - NT2 starfire tokamak
  - NT2 start tokamak
  - NT2 stor-m tokamak
  - NT2 stx devices

- NT2 surmac tokamak
- NT2 t-10 tokamak
- NT2 t-14 tokamak
- NT2 t-15 tokamak
- NT2 t-7 tokamak
- NT2 tbr tokamak
- NT2 tca tokamak
- NT2 tcabr tokamak
- NT2 tcv tokamak
- NT2 text devices
- NT2 textor tokamak
- NT2 tfr tokamak
- NT2 tftt tokamak
- NT2 tiber-x tokamak
- NT2 tj-1 tokamak
- NT2 tnt-a tokamak
- NT2 tokapole devices
- NT2 tokoloshe tokamak
- NT2 tore supra tokamak
- NT2 tormac devices
- NT2 tortus tokamak
- NT2 torus-ii tokamak
- NT2 toska tokamak
- NT2 tpx device
- NT2 triam-1 tokamak
- NT2 tuman devices
- NT2 two-component torus
- NT2 uwmak devices
- NT2 varennes tokamak
- NT2 versator tokamak
- NT2 wt-3 tokamak
- NT1 toroidal pinch devices
  - NT2 reversed-field pinch devices
    - NT3 artemis device
    - NT3 extrap-t2 device
    - NT3 hbt devices
    - NT3 mst device
    - NT3 rfx device
    - NT3 tpe-1rm15 device
    - NT3 tpe-rx device
    - NT3 zt-40 devices
    - NT3 zt-p devices
  - NT2 tlp devices
    - NT3 zeta devices
- NT2 toroidal screw pinch devices
  - NT3 stp-3m device
  - NT3 tpe-2 device
- NT2 toroidal theta pinch devices
  - NT3 scyllac devices
- RT aspect ratio
- RT closed configurations
- RT trapped-particle instability

**CLOSTRIDIUM***1997-06-17*

- \*BT1 bacteria
- NT1 clostridium acetobutylicum
- NT1 clostridium botulinum
- NT1 clostridium butyricum
- NT1 clostridium perfringens
- NT1 clostridium thermocellum
- NT1 clostridium thermosaccharolyticum
- RT proteolysis
- RT toxins

**CLOSTRIDIUM ACETOBUTYLICUM***INIS: 1985-09-09; ETDE: 1981-07-18*

- \*BT1 clostridium
- \*BT1 methanogenic bacteria

**CLOSTRIDIUM BOTULINUM**

\*BT1 clostridium

**CLOSTRIDIUM BUTYRICUM***INIS: 1985-09-09; ETDE: 1981-07-18*

\*BT1 clostridium

**CLOSTRIDIUM PERFRINGENS**UF *clostridium welchii*

\*BT1 clostridium

**CLOSTRIDIUM THERMOCELLUM**

INIS: 2000-04-12; ETDE: 1979-10-23

- \*BT1 clostridium
- RT enzymatic hydrolysis
- RT fermentation

**CLOSTRIDIUM THERMOSACCHAROLYTICUM**

INIS: 2000-04-12; ETDE: 1981-07-18

- \*BT1 clostridium

**clostridium welchii**

- USE clostridium perfringens

**CLOSURES**

- UF plugs
- RT joints
- RT seals
- RT valves

**CLOTHES DRYERS**

INIS: 1993-07-29; ETDE: 1977-06-21

- \*BT1 appliances
- BT1 dryers
- RT clothes washers
- RT clothing
- RT electric appliances
- RT gas appliances

**CLOTHES WASHERS**

INIS: 1993-07-29; ETDE: 1977-06-21

- UF washers, clothes
- \*BT1 appliances
- RT clothes dryers
- RT clothing
- RT electric appliances
- RT gas appliances
- RT washing

**CLOTHING**

- UF laundries
- UF shoes
- NT1 protective clothing
- NT2 gloves
- RT clothes dryers
- RT clothes washers
- RT consumer products
- RT textiles

**CLOUD CHAMBERS**

- \*BT1 gas track detectors
- NT1 diffusion chambers
- NT1 expansion chambers

**CLOUD COVER**

1992-03-25

- UF cloudiness (meteorology)
- RT clouds
- RT meteorology
- RT sky
- RT storms

**cloudiness (meteorology)**

1992-03-25

- USE cloud cover

**CLOUDS**

Limited to clouds in the earth atmosphere; for interstellar clouds see COSMIC DUST or COSMIC GASES.

- NT1 noctilucent clouds
- NT1 radioactive clouds
- RT atmospheric precipitations
- RT cloud cover
- RT meteorology
- RT sky
- RT storms
- RT water
- RT weather

**CLOUDY CRYSTAL BALL MODEL**

- \*BT1 nuclear models

- RT optical models

**CLOVER**

- \*BT1 leguminosae
- RT forage

**CLUFF LAKE MINE**

INIS: 1981-02-27; ETDE: 1981-03-13

- \*BT1 uranium mines
- RT saskatchewan

**CLUSTER BEAM INJECTION**

- BT1 beam injection
- RT cluster beams

**CLUSTER BEAMS**

INIS: 1976-03-25; ETDE: 1976-08-24

- BT1 beams
- RT atomic clusters
- RT cluster beam injection
- RT molecular clusters

**CLUSTER EMISSION MODEL**

INIS: 1976-02-11; ETDE: 1975-10-01

A particle interaction model describing the emission of clusters having the potential to transfer charge from one center of mass hemisphere to the other, depending upon the rapidities of the clusters.

- UF cluster model (particle)
- UF hadronic clusters
- \*BT1 multiperipheral model
- NT1 space-time model
- RT charge-exchange interactions
- RT fireball model
- RT multiple production
- RT pionization

**CLUSTER EXPANSION**

A virial expansion in which the virial coefficients (of inverse powers of the volume of the gas in question) are obtained from integrals, over positions of a small number of molecules, of functions involving intermolecular potentials.

- BT1 series expansion
- RT differential equations

**CLUSTER MODEL**

- UF alpha particle model
- UF cluster model (nuclear)
- \*BT1 nuclear models
- RT quartet model
- RT vibron model

**cluster model (nuclear)**

INIS: 1976-02-11; ETDE: 2002-06-13

- USE cluster model

**cluster model (particle)**

INIS: 1976-02-11; ETDE: 2002-06-13

- USE cluster emission model

**clusters (fuel elements)**

- USE fuel element clusters

**clusters (galaxy)**

- USE galaxy clusters

**clusters (ion)**

- USE ion pairs

**clusters (solid)**

- USE solid clusters

**clusters (star)**

- USE star clusters

**cmb radiation**

2003-05-30

- USE relict radiation

**cmea**

ETDE: 1979-05-03

- USE comecon

**CML REACTOR**

Battelle Pacific Northwest Laboratories, Richland, Washington, USA. Shut down in 1988.

- UF critical mass laboratory pnl
- UF pnl-cml reactor
- \*BT1 zero power reactors

**cmni**

INIS: 1996-10-22; ETDE: 1981-09-22

5-chloro-1-methyl-4-nitroimidazole.

(Until October 1996 this was a valid descriptor.)

- USE imidazoles

**CMPO**

1993-06-10

Octyl(phenyl)-N, N-diisobutylcarbamoylmethylphosphine oxide.

- \*BT1 organic phosphorus compounds
- \*BT1 phosphine oxides
- RT solvent extraction
- RT truex process

**cn method**

INIS: 1984-04-04; ETDE: 1984-05-10

- USE spherical harmonics

**cna reactor**

- USE atucha reactor

**cnea (argentina)**

INIS: 1993-10-01; ETDE: 1993-11-08

- USE argentine cnea

**cnea (paraguay)**

2005-07-06

- USE paraguay cnea

**CNEN**

Name changed to Comitato Nazionale per la Ricerca e lo Sviluppo dell'Energia Nucleare e delle Energie Alternative in April 1982, and more recent material should be indexed to ITALIAN ENEA.

- UF comitato nazionale per l'energia nucleare
- \*BT1 italian enea

**cnen brazil**

INIS: 1982-08-27; ETDE: 1982-09-10

- USE brazilian cnen

**CNG PROCESS**

INIS: 2000-04-12; ETDE: 1983-03-23

Proprietary process for removing hydrogen sulfide, carbon dioxide, sulfur compounds, and trace elements from fuel gas.

- \*BT1 desulfurization
- BT1 separation processes
- RT coal gasification

**CNIDARIA**

- \*BT1 coelenterata
- NT1 corals
- NT1 hydra

**CNO CYCLE**

INIS: 1978-09-28; ETDE: 1978-10-19

Astrophysical processes only.

- UF bethe-weizsaecker cycle
- UF carbon-nitrogen-oxygen cycle
- BT1 star burning
- RT main sequence stars
- RT nucleosynthesis
- RT star evolution
- RT star models

**CNRS SOLAR FACILITY**

INIS: 2000-04-12; ETDE: 1982-02-08  
The Solar Furnace Facility at the National Center for Scientific Research (CNRS) at Odeillo, France.

BT1 test facilities  
RT france  
RT solar furnaces

**cns depressants**

INIS: 1984-05-28; ETDE: 2002-06-13  
USE central nervous system depressants

**cns stimulants**

INIS: 1984-05-24; ETDE: 1981-04-20  
USE analeptics

**co-generation**

INIS: 1982-12-03; ETDE: 1977-01-28  
(Prior to November 1980 this was a valid ETDE descriptor.)  
USE cogeneration

**co2 flooding**

INIS: 1992-01-15; ETDE: 1978-08-08  
USE carbon dioxide injection

**COAGULANTS**

INIS: 1984-05-24; ETDE: 1981-04-20  
(From April 1981 to March 1997 HEMOSTATICS and HEPARIN ANTAGONISTS were valid ETDE descriptors.)

UF hemostatics  
UF heparin antagonists  
\*BT1 hematologic agents  
NT1 protamines  
RT anticoagulants  
RT blood substitutes  
RT fibrinolytic agents  
RT hematinics

**coagulation (blood)**

USE blood coagulation

**coagulation (colloid)**

USE flocculation

**COAL**

1997-06-19

UF coal-oil mixtures  
SF rexco process  
\*BT1 carbonaceous materials  
\*BT1 fossil fuels  
NT1 black coal  
NT2 anthracite  
NT2 bituminous coal  
NT1 brown coal  
NT2 lignite  
NT1 coal fines  
NT1 sapropelic coal  
NT2 boghead coal  
NT3 torbanite  
NT2 cannel coal  
NT1 subbituminous coal  
RT ash content  
RT chars  
RT coal deposits  
RT coal extracts  
RT coal-fired mhd generators  
RT coal gas  
RT coal gasification  
RT coal liquefaction  
RT coal pastes  
RT coal rank  
RT coal reserves  
RT coalification  
RT coke  
RT coking  
RT culm  
RT fluidized-bed combustion

RT fluidized-bed combustors  
RT gasification  
RT lithotypes  
RT macerals  
RT national coal model  
RT peat  
RT slurry pipelines  
RT solid fuels  
RT solvent-refined coal  
RT soot  
RT stokers  
RT sulfur content  
RT volatile matter

**COAL BURNING APPLIANCES**

INIS: 1993-01-22; ETDE: 1982-03-29  
UF stoves (coal burning)  
\*BT1 appliances  
RT stoves

**coal chars**

INIS: 1984-04-04; ETDE: 2002-06-13  
USE chars

**coal chemicals**

INIS: 2000-04-12; ETDE: 1979-09-27  
SEE coal extracts  
SEE petrochemicals

**COAL DEPOSITS**

1991-10-01  
UF coalbed methane  
BT1 geologic deposits  
\*BT1 mineral resources  
NT1 coal seams  
RT coal  
RT coal producing districts  
RT coal reserves  
RT geophysical surveys  
RT illinois basin  
RT powder river basin

**coal-derived gases**

INIS: 2000-04-12; ETDE: 1993-10-07  
USE coal gas

**coal-derived liquids**

INIS: 1993-06-01; ETDE: 1976-12-16  
USE coal liquids

**COAL EXTRACTS**

2000-04-12  
SF coal chemicals  
RT coal

**COAL FINES**

1992-04-02  
\*BT1 coal  
RT briquets  
RT pulverized fuels

**COAL-FIRED GAS TURBINES**

INIS: 1992-03-10; ETDE: 1980-03-04  
(Prior to February 1980 GAS TURBINES was used for this concept in ETDE.)  
\*BT1 gas turbines  
RT coal gasification  
RT combined-cycle power plants  
RT fossil-fuel power plants  
RT gas turbine engines  
RT gas turbine power plants

**COAL-FIRED MHD GENERATORS**

1993-03-10  
\*BT1 mhd generators  
NT1 mhd generator cdif  
NT1 mhd generator cfff  
NT1 mhd generator etf  
NT1 mhd generator utsi  
RT coal  
RT seed-slag interactions  
RT spent seed

**COAL FUEL CELLS**

1992-05-20  
\*BT1 fuel cells

**COAL GAS**

1991-10-02  
UF coal-derived gases  
UF coke-oven gas  
\*BT1 gases  
BT1 pyrolysis products  
RT coal  
RT fuel gas  
RT town gas

**COAL GASIFICATION**

1997-06-17  
UF atgas process  
UF avg process  
UF bcr process  
UF bublag-didier process  
UF carbon dioxide acceptor process  
UF conoco gasification process  
UF csiro process  
UF fw-stoic process  
UF hoffman process  
UF hylflex process  
UF lichtenberg process  
UF liquid phase methanation process  
UF mcdowell-wellman process  
UF merc process  
UF migas process  
UF panindco process  
UF patgas process  
UF riley-morgan process  
UF rockgas process  
UF rombach process  
UF schmalfeldt-wintershall process  
UF selox process  
UF simplex process  
UF stone and webster coal solution gasification process  
UF stone and webster gasification process  
UF tri-gas process  
UF wilputte process  
UF zhuravlev process  
SF cs-sr process  
SF fischer-tropsch/mobil process  
SF thyssen-galocoy process  
\*BT1 gasification  
NT1 agglomerating ash process  
NT1 arc coal process  
NT1 babcock and wilcox-dupont process  
NT1 beacon process  
NT1 bgc-lurgi slagging process  
NT1 bi-gas process  
NT1 ce entrained fuel process  
NT1 coalcon process  
NT1 cogas process  
NT1 combined-cycle fw process  
NT1 consol synthetic gas process  
NT1 cs-r process  
NT1 dow gasification process  
NT1 exxon gasification process  
NT1 flash hydrolysis process  
NT1 gegas process  
NT1 gkt process  
NT1 htw process  
NT1 humboldt gasification process  
NT1 hydrane process  
NT1 hygas process  
NT1 i g process  
NT1 kbw gasification process  
NT1 kellogg process  
NT1 kilngas process  
NT1 kloekner-iron bath coal gasification process  
NT1 koppers process  
NT1 koppers-totzek process



**NT1** krw gasification process  
**NT1** lurgi cfb gasification process  
**NT1** lurgi process  
**NT1** lurgi slagging process  
**NT1** molten iron puregas process  
**NT1** molten salt coal gasification process  
**NT1** moving-burden process  
**NT1** occidental flash pyrolysis process  
**NT1** otto rummel slag bath process  
**NT1** peatgas process  
**NT1** prenflo process  
**NT1** ruhr 100 gasification process  
**NT1** saarberg-otto gasification process  
**NT1** seacoke process  
**NT1** shell-koppers gasification process  
**NT1** synthane process  
**NT1** texaco gasification process  
**NT1** toscodyne process  
**NT1** toscocoal process  
**NT1** u-gas process  
**NT1** wellman-galusha process  
**NT1** wellman-incandescent process  
**NT1** westinghouse gasification process  
**NT1** woodall-duckham process  
*RT* cng process  
*RT* coal  
*RT* coal-fired gas turbines  
*RT* coal gasification plants  
*RT* fluidized bed refuse gasification  
*RT* gasoline plants  
*RT* hot gas cleanup  
*RT* in-situ gasification  
*RT* methanol plants  
*RT* shift processes  
*RT* sng processes  
*RT* synthetic fuels  
*RT* thunderbird project

**COAL GASIFICATION PLANTS**

*INIS: 1991-10-02; ETDE: 1975-11-26*

**BT1** industrial plants  
*RT* coal gasification

**COAL INDUSTRY**

*1991-10-02*

**BT1** industry  
*RT* mineral industry

**COAL LIQUEFACTION**

*1982-12-03*

*UF* adl process  
*UF* arthur d little coal liquefaction process  
*UF* ce lummus cfc process  
*UF* chevron coal liquefaction process  
*UF* coil process  
*UF* consol synthetic fuel process  
*UF* csf process  
*UF* friambient process  
*UF* lcfc process  
*UF* lummus clean fuel firm coal process  
*UF* pott-broche process  
*UF* riser cracking  
*UF* uhde-pfirrmann process  
*UF* zinc halide process  
*SF* cresap process  
*SF* cs-sr process  
*SF* fischer-tropsch/mobil process  
**\*BT1** liquefaction  
**NT1** bcl process  
**NT1** bergius process  
**NT1** catalytic hydrosolvation process  
**NT1** cfc process  
**NT1** coed process  
**NT1** costeam process  
**NT1** dow liquefaction process  
**NT1** Exxon liquefaction process  
**NT1** flash hydrolysis process  
**NT1** h-coal process  
**NT1** liquid phase methanol process

**NT1** occidental flash pyrolysis process  
**NT1** pamco process  
**NT1** pyrosol process  
**NT1** sasol-ii process  
**NT1** sasol process  
**NT1** src-ii process  
**NT1** synthoil process  
**NT1** synthol process  
**NT1** tsl process  
*RT* clean coke process  
*RT* coal  
*RT* coal liquefaction plants  
*RT* coal liquids  
*RT* supercritical gas extraction  
*RT* synthetic fuels

**COAL LIQUEFACTION PLANTS**

*INIS: 1994-07-01; ETDE: 1976-02-19*

**BT1** industrial plants  
*RT* coal liquefaction

**COAL LIQUIDS**

*INIS: 1993-06-01; ETDE: 1976-02-19*

(Until June 1993, this concept was indexed by HYDROCARBONS.)

*UF* coal-derived liquids  
**\*BT1** liquids  
*RT* coal liquefaction  
*RT* lc-finng  
*RT* liquid fuels  
*RT* pyrolytic oils  
*RT* supercritical gas extraction  
*RT* synthetic petroleum

**COAL MINERS**

*INIS: 1992-05-08; ETDE: 1976-03-11*

**\*BT1** miners

**COAL MINES**

*1991-08-09*

*UF* collieries  
*UF* mine-mouth generating plants  
**\*BT1** mines  
*RT* abandoned shafts  
*RT* backfilling  
*RT* coal mining  
*RT* heading machines  
*RT* mine draining  
*RT* rock dusting

**COAL MINING**

*1991-08-09*

**BT1** mining  
*RT* acid mine drainage  
*RT* advance mining  
*RT* belt conveyors  
*RT* coal mines  
*RT* coal producing districts  
*RT* cutter loaders  
*RT* cutting machines  
*RT* longwall mining  
*RT* mining engineering  
*RT* retreat mining  
*RT* room and pillar mining  
*RT* shearer loaders  
*RT* shortwall mining  
*RT* slice mining  
*RT* surface mining  
*RT* underground mining  
*RT* us osm

**coal-oil mixtures**

*INIS: 2000-04-12; ETDE: 1980-12-08*

*USE* coal  
*USE* fuel oils  
*USE* fuel slurries

**COAL PASTES**

*2000-04-12*

*RT* coal

**coal planers**

*INIS: 2000-04-12; ETDE: 1979-06-06*  
*USE* coal plows

**coal ploughs**

*INIS: 2000-04-12; ETDE: 1979-06-06*  
*USE* coal plows

**COAL PLOWS**

*INIS: 2000-04-12; ETDE: 1979-06-06*

*UF* coal planers  
*UF* coal ploughs  
*UF* plows (coal)  
**\*BT1** cutter loaders

**COAL PREPARATION**

*INIS: 1999-05-06; ETDE: 1975-08-19*

*Grinding, screening, powdering, cleaning, etc., to prepare coal for industrial uses.*

*UF* convertol process  
*SF* syracuse chemical comminution process

**NT1** licado process  
*RT* cleaning  
*RT* coal preparation plants  
*RT* comminution  
*RT* crushing  
*RT* drying  
*RT* flotation  
*RT* heavy media separation  
*RT* jpl process  
*RT* rhodococcus  
*RT* trw process  
*RT* us clean coal technology program  
*RT* washing  
*RT* water removal

**COAL PREPARATION PLANTS**

*INIS: 1997-06-19; ETDE: 1976-06-07*

*SF* solvent-refining coal plants  
**BT1** industrial plants  
*RT* coal preparation  
*RT* solvent-refined coal

**COAL PRODUCING DISTRICTS**

*INIS: 1992-04-08; ETDE: 1979-09-27*

*RT* coal deposits  
*RT* coal mining

**COAL RANK**

*1991-10-02*

*The degree of metamorphosis that the original plant debris has undergone during the geological ages since it was deposited.*

*RT* coal  
*RT* coalification

**COAL RESERVES**

*1991-10-02*

**\*BT1** reserves  
*RT* coal  
*RT* coal deposits

**COAL SEAMS**

*INIS: 1991-10-01; ETDE: 1978-05-03*

**\*BT1** coal deposits  
*RT* geologic strata  
*RT* inclined strata  
*RT* water influx

**COAL TAR**

**\*BT1** bitumens  
*RT* bituminous materials  
*RT* coal tar acids  
*RT* coal tar bases  
*RT* coal tar oils  
*RT* creosote

**COAL TAR ACIDS**

*INIS: 2000-04-12; ETDE: 1976-04-19*

**\*BT1** organic acids  
*RT* coal tar

RT coal tar oils

## COAL TAR BASES

INIS: 2000-04-12; ETDE: 1976-04-19

BT1 bases  
BT1 organic compounds  
RT coal tar  
RT coal tar oils

## COAL TAR OILS

1992-07-22

\*BT1 oils  
RT coal tar  
RT coal tar acids  
RT coal tar bases

## coalbed methane

INIS: 2000-04-12; ETDE: 1994-10-20

USE coal deposits  
USE methane

## COALCON PROCESS

INIS: 2000-04-12; ETDE: 1975-11-28

*Low-temperature, intermediate-pressure process for hydrocarbonization of finely divided low-rank coal or high-boiling tars in a fluidized bed to produce chars, tars, and gases. It was originally designed for a subbituminous coal having high tar and potentially high phenolic yields during carbonization, but it is currently being developed for high-sulfur, high-volatile bituminous coals.*

\*BT1 coal gasification  
RT carbonization  
RT chars

## COALESCENCE

RT adhesion  
RT agglomeration  
RT blood coagulation  
RT bonding  
RT coprecipitation

## COALIFICATION

INIS: 2000-04-12; ETDE: 1977-07-23

RT coal  
RT coal rank  
RT diagenesis  
RT geochemistry  
RT petrology

## coaltek process

INIS: 2000-04-12; ETDE: 1976-07-07

USE fuel feeding systems

## coarse control rods

USE shim rods

## coarse mesh method

INIS: 1984-04-04; ETDE: 1984-05-10

USE finite difference method

## coast

USE shores

## COASTAL REGIONS

INIS: 1997-06-17; ETDE: 1976-02-19

*Land areas of unspecified dimensions near sea or lake coastlines.*

NT1 river deltas  
NT1 shores  
RT coastal waters  
RT coastal zone management acts  
RT flood control

## COASTAL WATERS

1997-06-19

*For use only in its geographic connotation; for the legal connotation use TERRITORIAL WATERS.*

BT1 surface waters

NT1 bays

NT2 bay of biscay  
NT2 bay of fundy  
NT2 biscayne bay  
NT2 chesapeake bay  
NT2 delaware bay  
NT2 galveston bay  
NT2 matagorda bay  
NT2 onslow bay  
NT2 prudhoe bay  
NT2 sequim bay

NT1 estuaries  
NT2 fiords  
NT2 long island sound

RT coastal regions  
RT coastal zone management acts  
RT continental margin  
RT continental shelf  
RT continental slope  
RT mid-atlantic bight  
RT offshore sites  
RT seas  
RT shores  
RT south atlantic bight  
RT territorial waters

## coastal zone management act

INIS: 2000-04-12; ETDE: 1994-08-18

USE coastal zone management acts

## COASTAL ZONE MANAGEMENT ACTS

INIS: 2000-04-12; ETDE: 1994-08-17

*Before August 1994, this term was used in the singular form.*

UF coastal zone management act

BT1 laws  
RT coastal regions  
RT coastal waters  
RT continental shelf

## COATED FUEL PARTICLES

BT1 fuel particles  
RT amoeba effect

## coating (surface)

USE surface coating

## coating processes

USE surface coating

## COATINGS

NT1 antireflection coatings  
NT1 black coatings  
NT2 black nickel  
NT1 diffusion coatings  
NT1 dipped coatings  
NT1 electrodeposited coatings  
NT1 enamels  
NT1 glazes  
NT1 lacquers  
NT1 paints  
NT2 luminous paints  
NT1 protective coatings  
NT1 reflective coatings  
NT1 spin-on coatings  
NT1 sprayed coatings  
NT1 vapor deposited coatings  
NT1 varnishes  
RT corrosion protection  
RT coverings  
RT deposits  
RT films  
RT heat mirrors  
RT latex  
RT masking  
RT screen printing  
RT solar absorbers  
RT solar control films  
RT surface coating

RT surface finishing

RT thin films  
RT waterproofing

## COAXIAL CABLES

\*BT1 electric cables

## COAXIAL FLOW REACTORS

\*BT1 gas fueled reactors

## COBALT

\*BT1 transition elements

## COBALT 50

INIS: 1992-09-22; ETDE: 1984-05-08

\*BT1 cobalt isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei

## COBALT 52

1995-02-27

\*BT1 beta-plus decay radioisotopes  
\*BT1 cobalt isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 proton decay radioisotopes

## COBALT 53

\*BT1 beta-plus decay radioisotopes  
\*BT1 cobalt isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 proton decay radioisotopes

## COBALT 54

\*BT1 beta-plus decay radioisotopes  
\*BT1 cobalt isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

## COBALT 55

\*BT1 beta-plus decay radioisotopes  
\*BT1 cobalt isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei

## COBALT 56

\*BT1 beta-plus decay radioisotopes  
\*BT1 cobalt isotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei

## COBALT 56 TARGET

INIS: 1982-10-28; ETDE: 1982-11-30

BT1 targets

## COBALT 57

\*BT1 cobalt isotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei

## COBALT 57 TARGET

INIS: 1977-01-25; ETDE: 1977-04-13

BT1 targets

## COBALT 58

\*BT1 beta-plus decay radioisotopes  
\*BT1 cobalt isotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 internal conversion radioisotopes

- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei

**COBALT 58 TARGET**

*INIS: 1976-07-06; ETDE: 1976-08-24*

- BT1 targets

**COBALT 59**

- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**COBALT 59 REACTIONS**

*1984-11-30*

- \*BT1 heavy ion reactions

**COBALT 59 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**COBALT 60**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 years living radioisotopes

**COBALT 60 TARGET**

*INIS: 1975-12-09; ETDE: 1976-07-12*

- BT1 targets

**COBALT 61**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**COBALT 62**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**COBALT 63**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**COBALT 64**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**COBALT 65**

*INIS: 1979-09-18; ETDE: 1979-10-23*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**COBALT 66**

*INIS: 1986-01-21; ETDE: 1986-02-21*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**COBALT 67**

*INIS: 1986-01-21; ETDE: 1986-02-21*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 cobalt isotopes

- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**COBALT 68**

*INIS: 1986-08-19; ETDE: 1986-09-05*

- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**COBALT 69**

*INIS: 1986-08-19; ETDE: 1986-09-05*

- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**COBALT 70**

*INIS: 1986-08-19; ETDE: 1986-09-05*

- \*BT1 cobalt isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**COBALT ADDITIONS**

*Alloys containing not more than 1% Co are listed here.*

- \*BT1 cobalt alloys
- NT1 alloy-ni43fe33cr16mo3
- NT2 nimonic pe16
- NT1 alloy-ni62cr16mo15fe3
- NT2 hastelloy s
- NT1 steel-cr18ni11nbco
- NT2 stainless steel-348

**COBALT ALLOYS**

*1996-11-13*

*Alloys containing more than 1% Co.*

- \*BT1 transition element alloys
- NT1 alloy-b-1900
- NT1 alloy-fe44ni33cr21
- NT2 incoloy 800h
- NT1 alloy-fe53ni29co18
- NT2 kovar
- NT1 alloy-mar-m246
- NT1 alloy-mp35n
- NT1 alloy-ni46cr23co19ti5al4
- NT2 alloy-in-939
- NT1 alloy-ni49cr22fe18mo9
- NT2 hastelloy x
- NT1 alloy-ni50co20cr15al5mo5
- NT2 nimonic 105
- NT1 alloy-ni54cr22co13mo9
- NT2 inconel 617
- NT1 alloy-ni54mo17cr16fe6w4
- NT2 hastelloy c
- NT1 alloy-ni55co17cr15mo5al4ti4
- NT2 astrolloy
- NT1 alloy-ni55cr19co11mo10ti3
- NT2 rene 41
- NT1 alloy-ni58cr20co14mo4ti3
- NT2 waspaloy
- NT1 alloy-ni59cr20co17ti2
- NT1 alloy-ni60co15cr10al6ti5mo3
- NT2 alloy-in-100
- NT1 alloy-ni61cr16co9al3ti3w3
- NT2 alloy-in-738
- NT1 alloy-ni65mo28fe5
- NT2 hastelloy b
- NT1 alloy-ra-333
- NT1 alloy-s-590
- NT1 alloy-s-816
- NT1 alloy-v-36
- NT1 alloy-yundk 25ba
- NT1 alnico alloys
- NT1 carboloy
- NT1 cobalt additions
- NT2 alloy-ni43fe33cr16mo3
- NT3 nimonic pe16
- NT2 alloy-ni62cr16mo15fe3
- NT3 hastelloy s
- NT2 steel-cr18ni11nbco
- NT3 stainless steel-348

- NT1 cobalt base alloys
- NT2 alloy-co43cr20fe18ni13w3
- NT3 havar

NT2 alloy-co50fe50

NT3 permendur

NT2 alloy-co52fe35v10

NT2 haynes alloys

NT3 alloy-co36cr22ni22w15fe3

NT4 haynes 188 alloy

NT3 alloy-co54cr20w15ni10

NT4 alloy-hs-25

NT4 haynes 25 alloy

NT3 alloy-co60cr30w4

NT4 stellite 6

NT2 mar-m509 alloys

NT2 stellite

NT3 alloy-co54cr20w15ni10

NT4 alloy-hs-25

NT4 haynes 25 alloy

NT3 alloy-co60cr30w4

NT4 stellite 6

NT3 alloy-hs-31

NT2 tribaloy 400

NT2 tribaloy 800

NT1 cunico

NT1 hiperco

NT1 kanthal

NT1 konel

NT1 magnet steel-ks

NT1 nimonic 115

NT1 rene-100

NT1 rene 80

NT1 rene 95

NT1 supertherm

NT1 timken alloys

NT1 udimet alloys

NT2 alloy-ni53co19cr15mo5al4ti3

NT3 udimet 700

NT2 udimet 500

NT1 vitallium

**COBALT ARSENIDES**

*INIS: 1991-09-16; ETDE: 1976-08-04*

- \*BT1 arsenides

- \*BT1 cobalt compounds

**COBALT BASE ALLOYS**

*1996-11-13*

(The UF terms below have been valid ETDE descriptors.)

UF alloy-co52cr17fe15mo3si3

UF alloy-co52fe35v13

UF alloy-l-605

UF vikalloy 1

UF vikalloy 2

- \*BT1 cobalt alloys

NT1 alloy-co43cr20fe18ni13w3

NT2 havar

NT1 alloy-co50fe50

NT2 permendur

NT1 alloy-co52fe35v10

NT1 haynes alloys

NT2 alloy-co36cr22ni22w15fe3

NT3 haynes 188 alloy

NT2 alloy-co54cr20w15ni10

NT3 alloy-hs-25

NT3 haynes 25 alloy

NT2 alloy-co60cr30w4

NT3 stellite 6

NT1 mar-m509 alloys

NT1 stellite

NT2 alloy-co54cr20w15ni10

NT3 alloy-hs-25

NT3 haynes 25 alloy

NT2 alloy-co60cr30w4

NT3 stellite 6

NT2 alloy-hs-31

NT1 tribaloy 400

NT1 tribaloy 800

**COBALT BORIDES**

- \*BT1 borides
- \*BT1 cobalt compounds

**COBALT BROMIDES**

- \*BT1 bromides
- \*BT1 cobalt compounds

**COBALT CARBIDES**

- \*BT1 carbides
- \*BT1 cobalt compounds

**COBALT CARBONATES**

- \*BT1 carbonates
- \*BT1 cobalt compounds

**COBALT CHLORIDES**

- \*BT1 chlorides
- \*BT1 cobalt compounds

**COBALT COMPLEXES**

- \*BT1 transition element complexes

**COBALT COMPOUNDS**

1997-06-17

- BT1 transition element compounds
- NT1 cobalt arsenides
- NT1 cobalt borides
- NT1 cobalt bromides
- NT1 cobalt carbides
- NT1 cobalt carbonates
- NT1 cobalt chlorides
- NT1 cobalt fluorides
- NT1 cobalt hydrides
- NT1 cobalt hydroxides
- NT1 cobalt iodides
- NT1 cobalt nitrates
- NT1 cobalt oxides
- NT1 cobalt perchlorates
- NT1 cobalt phosphates
- NT1 cobalt phosphides
- NT1 cobalt selenides
- NT1 cobalt silicates
- NT1 cobalt silicides
- NT1 cobalt sulfates
- NT1 cobalt sulfides
- NT1 cobalt tellurides
- NT1 cobalt tungstates

**COBALT FLUORIDES**

- \*BT1 cobalt compounds
- \*BT1 fluorides

**COBALT HYDRIDES**

- \*BT1 cobalt compounds
- \*BT1 hydrides

**COBALT HYDROXIDES**

- \*BT1 cobalt compounds
- \*BT1 hydroxides

**COBALT IODIDES**

- \*BT1 cobalt compounds
- \*BT1 iodides

**COBALT IONS**

- \*BT1 ions

**COBALT ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 cobalt 50
- NT1 cobalt 52
- NT1 cobalt 53
- NT1 cobalt 54
- NT1 cobalt 55
- NT1 cobalt 56
- NT1 cobalt 57
- NT1 cobalt 58
- NT1 cobalt 59
- NT1 cobalt 60
- NT1 cobalt 61
- NT1 cobalt 62

NT1 cobalt 63

NT1 cobalt 64

NT1 cobalt 65

NT1 cobalt 66

NT1 cobalt 67

NT1 cobalt 68

NT1 cobalt 69

NT1 cobalt 70

**COBALT NITRATES**

- \*BT1 cobalt compounds
- \*BT1 nitrates

**COBALT ORES**

BT1 ores

**COBALT OXIDES**

- \*BT1 cobalt compounds
- \*BT1 oxides
- RT kirchheimerite
- RT oxide minerals

**COBALT PERCHLORATES**

INIS: 2000-04-12; ETDE: 1975-12-16

- \*BT1 cobalt compounds
- \*BT1 perchlorates

**COBALT PHOSPHATES**

- \*BT1 cobalt compounds
- \*BT1 phosphates

**COBALT PHOSPHIDES**

INIS: 1977-07-05; ETDE: 1975-09-11

- \*BT1 cobalt compounds
- \*BT1 phosphides

**COBALT SELENIDES**

INIS: 1991-09-16; ETDE: 1980-03-04

- \*BT1 cobalt compounds
- \*BT1 selenides

**COBALT SILICATES**

- \*BT1 cobalt compounds
- \*BT1 silicates

**COBALT SILICIDES**

1978-08-30

- \*BT1 cobalt compounds
- \*BT1 silicides

**COBALT SULFATES**

- \*BT1 cobalt compounds
- \*BT1 sulfates

**COBALT SULFIDES**

- \*BT1 cobalt compounds
- \*BT1 sulfides

**COBALT TELLURIDES**

INIS: 1991-09-16; ETDE: 1978-06-14

- \*BT1 cobalt compounds
- \*BT1 tellurides

**COBALT TUNGSTATES**

INIS: 1991-09-16; ETDE: 1978-07-05

- \*BT1 cobalt compounds
- \*BT1 tungstates

**COBOL**

BT1 programming languages

**cobordism theory**

2000-04-12

(Prior to September 1994, this was a valid ETDE descriptor.)

USE topology

**cobra reactor**

1995-01-11

USE kbr-1 reactor

**COCAINE**

- \*BT1 alkaloids
- \*BT1 anesthetics

\*BT1 antidepressants

**COCKCROFT-WALTON ACCELERATORS**

\*BT1 electrostatic accelerators

**COCKROACHES**

\*BT1 dictyoptera

**cocoa beans**

INIS: 1977-01-26; ETDE: 2002-06-13

USE cocoa products

**COCOA PRODUCTS**

UF cocoa beans  
 BT1 food  
 RT cacao trees

**COCOMBUSTION**

INIS: 1991-10-03; ETDE: 1981-08-04

The simultaneous burning of two fuels in a boiler, e.g., coal and biomass.

UF cofiring

\*BT1 combustion

**COCONUT PALMS**

\*BT1 liliopsida  
 \*BT1 trees  
 RT coconuts

**COCONUTS**

\*BT1 fruits  
 RT coconut palms

**CODEINE**

1996-07-08

\*BT1 alkaloids  
 \*BT1 analgesics  
 \*BT1 hypnotics and sedatives  
 RT heroin  
 RT morphine

**codeinone**

INIS: 1984-04-04; ETDE: 1978-07-06

(Prior to April 1994, this was a valid ETDE descriptor.)

USE alkaloids

**CODFISH**

\*BT1 fishes

**coding circuits**

USE digital circuits

**CODLING MOTH**

UF carpocapsa pomonella

\*BT1 moths  
 RT apples

**CODONS**

RT gene operons  
 RT gene regulation  
 RT genes  
 RT nucleotides  
 RT ribosomes

**COED PROCESS**

2000-04-12

FMC corporation process that converts coal to synthetic crude oil, gas, and char in four fluidized-bed gasification stages at 315, 450, 540, and 840 degrees C.

UF char oil energy development process

\*BT1 coal liquefaction

**COEFFICIENT OF PERFORMANCE**

INIS: 2000-04-12; ETDE: 1979-01-30

RT air conditioners  
 RT efficiency  
 RT heat pumps  
 RT performance  
 RT refrigerating machinery  
 RT refrigerators

*RT* thermodynamics

**COELENTERATA**  
*ETDE: 1977-01-28*  
(Prior to October 1990 this subject was indexed to CNIDARIA.)  
*UF* *coelenterates*  
\*BT1 invertebrates  
NT1 cnidaria  
NT2 corals  
NT2 hydra

**coelenterates**  
*INIS: 1975-09-12; ETDE: 2002-06-13*  
*USE* coelenterata

**coenzyme i**  
*USE* nad

**coenzyme ii**  
*USE* nadp

**COENZYMES**  
NT1 nad  
NT1 nadh2  
NT1 nadp  
NT1 ubiquinone  
*RT* apolipoproteins  
*RT* biochemistry  
*RT* biosynthesis  
*RT* catalysis  
*RT* cytochromes  
*RT* enzymes  
*RT* isoalloxazines  
*RT* metabolism  
*RT* pyridoxal  
*RT* redox process  
*RT* vitamin b group

**coercion**  
*INIS: 2000-04-12; ETDE: 1983-03-23*  
*Compulsion, constraint, or compelling by force.*  
(Prior to September 1994, this was a valid ETDE descriptor.)  
*USE* legal aspects

**COERCIVE FORCE**  
*RT* magnetic properties

**coesite**  
*INIS: 2000-04-12; ETDE: 1978-07-06*  
*A polymorph of silicon dioxide.*  
(Prior to February 1995, this was a valid ETDE descriptor.)  
*USE* oxide minerals  
*USE* silicon oxides

**COEXTRUSION**  
\*BT1 extrusion

**coffee**  
*USE* beverages

**COFFEE BEANS**  
*INIS: 1978-11-24; ETDE: 1978-12-20*  
BT1 seeds  
*RT* beverages  
*RT* coffee plants

**COFFEE PLANTS**  
\*BT1 magnoliopsida  
*RT* coffee beans

**COFFINITE**  
\*BT1 silicate minerals  
\*BT1 uranium minerals

**cofiring**  
*INIS: 1991-10-03; ETDE: 1981-10-24*  
*USE* cocombustion

**COFRENTES REACTOR**  
*INIS: 1977-04-07; ETDE: 1977-06-02*  
*Cofrents, Valencia, Spain.*  
\*BT1 bwr type reactors

**COGAS PROCESS**  
*2000-04-12*  
*A two step coal conversion process involving pyrolysis followed by gasification of the resultant char.*  
\*BT1 coal gasification

**COGEMA**  
*INIS: 1977-03-29; ETDE: 1977-06-02*  
*UF* *compagnie generale des matieres nucleaires*  
\*BT1 french organizations  
NT1 cogema la hague  
NT1 cogema marcoule  
NT1 cogema pierrelatte

**COGEMA LA HAGUE**  
*INIS: 1977-03-29; ETDE: 1977-06-02*  
\*BT1 cogema  
\*BT1 fuel reprocessing plants

**COGEMA MARCOULE**  
*INIS: 1977-03-29; ETDE: 1977-06-03*  
\*BT1 cogema

**COGEMA PIERRELATTE**  
*INIS: 1977-03-29; ETDE: 1977-06-03*  
\*BT1 cogema  
\*BT1 gaseous diffusion plants

**COGENERATION**  
*INIS: 1982-12-03; ETDE: 1980-10-27*  
(Prior to November 1980, this concept in ETDE was indexed to co-generation. From November 1978 till February 1997 DEUS was a valid ETDE descriptor.)  
*UF* *co-generation*  
*UF* *combined heat-power generation*  
*UF* *combined steam-power generation*  
*UF* *deus*  
*UF* *dual energy use systems*  
BT1 power generation  
BT1 steam generation  
*RT* district heating  
*RT* dual-purpose power plants  
*RT* energy systems  
*RT* refuse-fueled power plants  
*RT* thermal transmission ices  
*RT* total energy systems  
*RT* waste heat  
*RT* waste heat boilers  
*RT* waste heat utilization  
*RT* waste product utilization

**cogeneration plants**  
*INIS: 2000-04-12; ETDE: 1981-06-13*  
*USE* dual-purpose power plants

**COHERENCE LENGTH**  
*1999-07-20*  
*The range of interaction between the electrons of a Cooper pair.*  
\*BT1 length  
*RT* cooper pairs  
*RT* ginzburg-landau theory  
*RT* superconductivity

**COHERENT ACCELERATORS**  
*1985-12-10*  
(Prior to 1986 COLLECTIVE ACCELERATORS was used for this concept.)  
BT1 accelerators  
*RT* collective accelerators

**coherent anti-stokes raman spectroscopy**  
*INIS: 1986-04-04; ETDE: 1983-03-07*  
*USE* raman spectroscopy

**COHERENT PRODUCTION**  
\*BT1 particle interactions  
BT1 particle production  
*RT* coherent tube model

**COHERENT RADIATION**  
\*BT1 electromagnetic radiation

**COHERENT SCATTERING**  
BT1 scattering  
NT1 brillouin effect  
NT1 diffraction  
NT2 atomic beam diffraction  
NT2 diffuse scattering  
NT2 electron diffraction  
NT2 neutron diffraction  
NT2 x-ray diffraction  
NT1 rayleigh scattering  
*RT* anharmonic crystals  
*RT* elastic scattering

**coherent states**  
*INIS: 1984-04-04; ETDE: 2002-06-13*  
*Eigenstates of annihilation operators.*  
*USE* annihilation operators  
*USE* eigenstates

**COHERENT TUBE MODEL**  
*INIS: 1977-06-13; ETDE: 1977-10-20*  
*UF* *collective tube model*  
*UF* *tube model*  
\*BT1 nuclear models  
\*BT1 particle models  
*RT* coherent production  
*RT* incoherent production  
*RT* multiple production  
*RT* nuclear reactions  
*RT* particle interactions

**coil process**  
*INIS: 2000-04-12; ETDE: 1978-04-06*  
*A process for hydrogenating a mixture of petroleum and coal.*  
(Prior to March 1994, this was a valid ETDE descriptor.)  
*USE* coal liquefaction

**coils (electric)**  
*USE* electric coils

**coils (magnetic)**  
*USE* magnet coils

**COINCIDENCE CIRCUITS**  
BT1 electronic circuits  
*RT* anticoincidence  
*RT* coincidence methods  
*RT* pulse circuits  
*RT* telescope counters  
*RT* time measurement

**COINCIDENCE METHODS**  
BT1 counting techniques  
NT1 coincidence spectrometry  
NT1 tagged photon method  
*RT* coincidence circuits  
*RT* positron cameras  
*RT* synchronization

**COINCIDENCE SPECTROMETRY**  
\*BT1 coincidence methods  
*RT* radiation detection  
*RT* spectrometers

**COKE**  
*1999-07-09*  
*UF* *beehive coke*

UF petroleum coke  
 NTI coke breeze  
 NTI oven coke  
 RT coal  
 RT coke ovens  
 RT coking  
 RT formed coke processes  
 RT fossil fuels  
 RT semicoke  
 RT semicoking  
 RT solid fuels

**COKE BREEZE**

INIS: 2000-04-12; ETDE: 1979-12-10

BT1 coke

**coke-oven gas**

1991-10-02

USE coal gas

**COKE OVENS**

INIS: 1992-06-30; ETDE: 1975-07-29

Ovens for carbonization of coal to produce coke.

UF slot ovens  
 RT carbonization  
 RT coke  
 RT coking  
 RT coking plants  
 RT formed coke processes

**COKING**

1991-10-03

Destructive distillation of coal to make coke.

\*BT1 carbonization  
 RT clean coke process  
 RT coal  
 RT coke  
 RT coke ovens  
 RT coking plants  
 RT retorting  
 RT semicoke  
 RT semicoking

**COKING PLANTS**

INIS: 1991-10-03; ETDE: 1979-06-06

BT1 industrial plants  
 RT coke ovens  
 RT coking

**colby event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**COLCHICINE**

\*BT1 alkaloids  
 \*BT1 antimittotic drugs  
 \*BT1 antipyretics  
 RT polyploidy

**COLD CATHODE TUBES**

BT1 electron tubes

**COLD EFFLUENTS**

INIS: 2000-04-12; ETDE: 1976-08-04

RT thermal effluents

**COLD FISSION**

INIS: 1992-05-07; ETDE: 1992-08-12

\*BT1 fission  
 RT heavy ion emission decay  
 RT kinetic energy

**COLD FUSION**

1991-07-02

BT1 nuclear reactions  
 RT thermonuclear reactions

**COLD LAKE DEPOSIT**

1992-03-05

\*BT1 oil sand deposits  
 RT alberta  
 RT canada

RT oil sands  
 RT saskatchewan

**COLD NEUTRONS**

Neutrons of less velocity than thermal neutrons; at 15 c their energy is below 0.01 eV.

\*BT1 neutrons  
 NTI ultracold neutrons

**COLD PLASMA**

BT1 plasma

**COLD PRESSING**

\*BT1 pressing  
 RT cold working

**cold recovery**

INIS: 2000-04-12; ETDE: 1981-05-18  
 (Prior to February 1997 this was a valid ETDE descriptor.)

SEE heat sinks  
 SEE refrigeration

**COLD STORAGE**

INIS: 1993-01-18; ETDE: 1979-02-23

\*BT1 energy storage  
 RT evaporative cooling  
 RT heat storage  
 RT rock beds  
 RT solar cooling systems

**COLD TRAPS**

BT1 traps  
 BT1 vapor condensers

**COLD-WATER PROCESSES**

INIS: 2000-04-12; ETDE: 1976-06-07  
 Processes used for recovery of bitumens from tar sands using various types of cationic, anionic and nonanionic wetting agents.

BT1 fluid injection processes  
 RT bitumens  
 RT oil sands

**COLD WORKING**

\*BT1 materials working  
 NTI shot peening  
 RT cold pressing  
 RT dislocation pinning  
 RT drawing  
 RT extrusion  
 RT forging  
 RT hardening  
 RT rolling  
 RT strain aging  
 RT strain hardening  
 RT surface hardening

**COLEOPTERA**

INIS: 1993-07-13; ETDE: 1981-06-16

\*BT1 insects  
 NT1 beetles  
 NT2 boll weevil  
 NT2 tribolium

**COLEOPTILE**

RT germination  
 RT seedlings

**coleus**

1997-01-28  
 (Until October 1996 this was a valid descriptor.)

USE herbs  
 USE magnoliopsida

**COLIFORMS**

Restricted to papers on water purity analysis.

\*BT1 bacteria  
 RT aerobacter  
 RT escherichia coli

**COLLAGEN**

\*BT1 scleroproteins  
 RT connective tissue  
 RT fibroblasts  
 RT hydroxyproline  
 RT proline

**collapse (gravitational)**

INIS: 1984-02-22; ETDE: 2002-06-13

USE gravitational collapse

**COLLECTIVE ACCELERATORS**

BT1 accelerators  
 NTI electron-ring accelerators  
 NTI ionization front accelerators  
 NTI plasma betatrons  
 RT coherent accelerators

**COLLECTIVE EXCITATIONS**

1985-12-10

See also COLLECTIVE MODEL.

\*BT1 excitation  
 RT superconductivity

**COLLECTIVE MODEL**

UF collective motion (in nuclei)  
 \*BT1 nuclear models  
 NTI rotation-vibration model  
 RT boson expansion  
 RT davydov-filipov model  
 RT hill-wheeler theory  
 RT quasiparticle-phonon model

**collective motion (in nuclei)**

INIS: 1975-11-27; ETDE: 2002-06-13

USE collective model

**collective states (rotational)**

INIS: 1984-06-25; ETDE: 2002-06-13

USE rotational states

**collective states (vibrational)**

INIS: 1993-11-04; ETDE: 2002-06-13

USE vibrational states

**collective tube model**

INIS: 2000-04-12; ETDE: 1980-03-04

USE coherent tube model

**collector module test facility**

INIS: 2000-04-12; ETDE: 1980-11-08

USE msstf

**collector properties**

INIS: 2000-04-12; ETDE: 1984-03-06

For reservoir rock.  
 USE permeability  
 USE porosity

**collector properties (rocks)**

INIS: 2000-04-12; ETDE: 1984-02-23

USE permeability  
 USE porosity

**collectors (dust)**

INIS: 1976-10-07; ETDE: 2002-06-13

USE dust collectors

**collectrons**

USE self-powered neutron detectors

**college station texas training reactor**

INIS: 1993-11-04; ETDE: 2002-06-13

USE nscr reactor

**colleges**

INIS: 1983-06-30; ETDE: 1983-07-20

USE educational facilities

**collider detector at fermilab**

INIS: 1991-12-17; ETDE: 1985-12-13

USE fermilab collider detector

**COLLIDING BEAMS**

- UF* crossed beams  
*UF* intersecting beams  
*BT1* beams  
*RT* beam-beam interactions  
*RT* beam luminosity  
*RT* interactions  
*RT* linear colliders

**collieries**

- INIS: 2000-04-12; ETDE: 1977-06-24*  
 USE coal mines

**COLLIMATORS**

- RT* beam optics  
*RT* radiotherapy  
*RT* shielding  
*RT* shutters  
*RT* tomography

**COLLISION INTEGRALS**

- BT1* integrals  
*RT* boltzmann equation  
*RT* collision probability method

**collision matrix**

- USE s matrix

**COLLISION PROBABILITY METHOD**

- 2005-02-25  
*Numerical method for solving integral neutron transport equations.*  
*BT1* calculation methods  
 \**BT1* numerical solution  
*RT* boltzmann equation  
*RT* collision integrals  
*RT* neutron transport theory

**COLLISIONAL HEATING**

- \**BT1* magnetic-pumping heating

**COLLISIONAL PLASMA**

- BT1* plasma  
*RT* pfirsch-schlueter regime

**collisionless boltzmann equation**

- INIS: 2000-04-12; ETDE: 1995-09-22*  
 USE boltzmann-vlasov equation

**COLLISIONLESS PLASMA**

- BT1* plasma

**COLLISIONS**

*For low-energy interactions involving photons, electrons, ions, atoms, and molecules; not for the concept covered by NUCLEAR REACTIONS. For collisions with elementary particles and radiations, see also INTERACTIONS.*

- NT1* atom collisions  
*NT2* atom-atom collisions  
*NT2* atom-molecule collisions  
*NT2* electron-atom collisions  
*NT2* ion-atom collisions  
*NT2* muon-atom collisions  
*NT2* photon-atom collisions  
*NT2* positron-atom collisions  
*NT1* electron collisions  
*NT2* electron-atom collisions  
*NT2* electron-electron collisions  
*NT2* electron-ion collisions  
*NT2* electron-molecule collisions  
*NT2* electron-positron collisions  
*NT2* photon-electron collisions  
*NT1* ion collisions  
*NT2* electron-ion collisions  
*NT2* ion-atom collisions  
*NT2* ion-ion collisions  
*NT2* ion-molecule collisions  
*NT2* photon-ion collisions  
*NT2* positron-ion collisions

- NT1* molecule collisions  
*NT2* atom-molecule collisions  
*NT2* electron-molecule collisions  
*NT2* ion-molecule collisions  
*NT2* molecule-molecule collisions  
*NT2* photon-molecule collisions  
*NT2* positron-molecule collisions  
*NT1* photon collisions  
*NT2* photon-atom collisions  
*NT2* photon-electron collisions  
*NT2* photon-ion collisions  
*NT2* photon-molecule collisions  
*NT2* photon-positron collisions  
*NT1* positron collisions  
*NT2* electron-positron collisions  
*NT2* photon-positron collisions  
*NT2* positron-atom collisions  
*NT2* positron-ion collisions  
*NT2* positron-molecule collisions  
*NT2* positron-positron collisions  
*RT* brownian movement  
*RT* colloids  
*RT* coupled channel theory  
*RT* dynamics  
*RT* interactions  
*RT* kinetic equations  
*RT* kinetics  
*RT* landau-zener formula  
*RT* particle kinematics  
*RT* pss method  
*RT* scattering  
*RT* sudden approximation

**collodion**

- USE nitrocellulose

**colloid coagulation**

- USE flocculation

**COLLOIDS**

- BT1* dispersions  
*NT1* agar  
*NT1* alginate acid  
*NT1* emulsions  
*NT2* microemulsions  
*NT2* photographic emulsions  
*NT1* foams  
*NT2* plastic foams  
*NT2* urea-formaldehyde foams  
*NT1* gelatin  
*NT1* gels  
*NT2* hydrogels  
*NT2* hydrophobic polymers  
*NT1* radiocolloids  
*NT2* thorotrast  
*NT1* sols  
*NT2* aerosols  
*NT3* radioactive aerosols  
*NT3* smokes  
*NT4* tobacco smokes  
*RT* brownian movement  
*RT* collisions  
*RT* dialysis  
*RT* gelation  
*RT* gums  
*RT* micellar systems  
*RT* particle size  
*RT* particles  
*RT* sol-gel process  
*RT* superconducting colloid detectors

**COLMONOY**

- \**BT1* boron alloys  
 \**BT1* chromium alloys  
 \**BT1* corrosion resistant alloys  
 \**BT1* iron alloys  
 \**BT1* nickel base alloys  
 \**BT1* silicon alloys

**cologne spirits**

- USE ethanol

**COLOMBIA**

- BT1* developing countries  
 \**BT1* south america  
*RT* andes

**COLOMBIAN ORGANIZATIONS**

- INIS: 1987-04-28; ETDE: 1987-06-09*  
*BT1* national organizations  
*NT1* ian

**colon**

- USE large intestine

**colonies**

- USE populations

**COLONY FORMATION**

- INIS: 1976-07-30; ETDE: 1976-11-01*  
*NT1* spleen colony formation  
*RT* animal cells  
*RT* cell cultures  
*RT* cloning

**COLONY FORMING UNITS**

- ETDE: 2005-01-28*  
*Limited to colony formation on spleen.*  
 (Prior to January 2005 CFU was used for this concept.)  
*UF* cfu (colony forming units)  
*RT* spleen colony formation  
*RT* stem cells

**COLOR**

- \**BT1* optical properties  
*BT1* organoleptic properties  
*RT* dichroism  
*RT* electrochromism

**COLOR CENTERS**

- 1996-07-23  
 (B CENTERS and Q CENTERS have also been valid ETDE descriptors.)  
*UF* b centers  
*UF* q centers  
 \**BT1* vacancies  
*NT1* a centers  
*NT1* e centers  
*NT1* f centers  
*NT1* h centers  
*NT1* i centers  
*NT1* m centers  
*NT1* r centers  
*NT1* s centers  
*NT1* u centers  
*NT1* v centers  
*NT1* x centers  
*NT1* z centers

**COLOR MODEL**

- 1975-09-16  
 \**BT1* quark model  
*RT* charm particles  
*RT* glueballs  
*RT* preons  
*RT* quantum chromodynamics

**COLORADO**

- 1997-06-19  
*UF* crystal river  
 \**BT1* usa  
*NT1* mahogany zone  
*NT1* sand wash basin  
*RT* colorado river basin  
*RT* green river formation  
*RT* gunnison river  
*RT* north platte river basin  
*RT* paradox basin  
*RT* permian basin  
*RT* piceance creek

RT piceance creek basin  
 RT rio blanco oil shale project  
 RT rio grande rift  
 RT rio grande river  
 RT rocky flats plant  
 RT uinta basin  
 RT uinta formation  
 RT us naval oil shale reserves  
 RT wasatch formation  
 RT white river  
 RT yellow creek  
 RT yellow creek basin

**COLORADO PLATEAU**

BT1 mountains

**COLORADO RIVER**

\*BT1 rivers  
 RT colorado river basin

**COLORADO RIVER BASIN**

1991-10-03

BT1 watersheds  
 RT colorado  
 RT colorado river

**COLORADO TRIGA-MK-3 REACTOR**

2000-04-12

SF triga-mk-3 reactor  
 \*BT1 training reactors  
 \*BT1 triga type reactors

**COLORATION**

RT bleaching

**COLORIMETRIC DOSEMETERS**

\*BT1 dosimeters  
 RT dyes  
 RT glass  
 RT polymers

**colorimetry**

USE absorption spectroscopy

**columbia generating station**

2005-09-15

USE wnp-2 reactor

**COLUMBIA HIGH-BETA TOKAMAK**

INIS: 1991-08-12; ETDE: 1991-09-13

UF hbt-ep  
 \*BT1 tokamak devices

**columbia missouri research reactor**

INIS: 1984-06-21; ETDE: 2002-06-13

USE murr reactor

**COLUMBIA RIVER**

\*BT1 rivers  
 RT columbia river basin  
 RT washington

**COLUMBIA RIVER BASIN**

INIS: 1991-10-03; ETDE: 1978-10-23

BT1 watersheds  
 NT1 pasco basin  
 RT columbia river  
 RT idaho  
 RT oregon  
 RT washington

**columbium**

USE niobium

**COLUMN PACKING**

UF berl saddles  
 UF packing (column)  
 UF raschig rings  
 BT1 packings  
 RT extraction columns

**column separation (fluid mechanics)**

INIS: 1990-12-07; ETDE: 2002-06-13  
 (Prior to December 1990, this was a valid descriptor.)  
 USE cavitation

**column separation (isotopes)**

INIS: 1990-12-07; ETDE: 2002-06-13  
 USE isotope separation

**columns (extraction)**

USE extraction columns

**columns (mechanical)**

2000-04-12  
 USE mechanical structures

**columns (structural)**

INIS: 1983-09-06; ETDE: 2002-06-13  
 (Prior to October 1983 MECHANICAL STRUCTURES was used for this concept.)  
 USE supports

**columns (thermal)**

USE thermal columns

**COMANCHE PEAK-1 REACTOR**

TXU Generating Co. LP, Glen Rose, Texas, USA.

\*BT1 pwr type reactors

**COMANCHE PEAK-2 REACTOR**

TXU Generating Co. LP, Glen Rose, Texas, USA.

\*BT1 pwr type reactors

**COMBINED COLLECTORS**

INIS: 2000-04-12; ETDE: 1978-09-11  
 Combined photovoltaic/thermal collectors.  
 \*BT1 solar collectors  
 RT photovoltaic cells  
 RT solar cells

**COMBINED-CYCLE FW PROCESS**

INIS: 2000-04-12; ETDE: 1977-05-07  
 Process using a two-stage entrained gasifier similar to the bi-gas design, operating at moderate pressure and using air, that can be modified to oxygen blowing.  
 UF foster wheeler gasification process  
 \*BT1 coal gasification  
 RT entrainment

**COMBINED-CYCLE POWER PLANTS**

INIS: 1991-10-03; ETDE: 1976-03-11  
 (Prior to March 1976 the descriptors COMBINED CYCLES and FOSSIL-FUEL POWER PLANTS or THERMAL POWER PLANTS were used for indexing this concept in ETDE.)

UF combined gas and steam cycle power plants

\*BT1 thermal power plants  
 NT1 mhd generator etf  
 RT coal-fired gas turbines  
 RT combined cycles  
 RT gas turbine power plants  
 RT hot gas cleanup  
 RT tosco-dyne process

**COMBINED CYCLES**

1991-10-03  
 BT1 thermodynamic cycles  
 RT combined-cycle power plants  
 RT electric power  
 RT power plants  
 RT total energy systems

**combined gas and steam cycle power plants**

INIS: 1991-10-03; ETDE: 1976-03-11  
 Combined gas and steam cycle power plants.  
 USE combined-cycle power plants

**combined heat-power generation**

INIS: 1982-12-03; ETDE: 2002-06-13  
 USE cogeneration

**combined pinch devices (linear)**

USE linear screw pinch devices

**COMBINED SOXNOX PROCESSES**

INIS: 1992-07-20; ETDE: 1990-05-15  
 Processes capable of removing SOX and NOX from flue gas.

UF argonox process  
 UF desonox process  
 \*BT1 denitrification  
 \*BT1 desulfurization  
 NT1 noxso process

**combined steam-power generation**

INIS: 1982-12-03; ETDE: 1977-05-07  
 USE cogeneration

**COMBINED THERAPY**

INIS: 1993-08-04; ETDE: 1986-01-16  
 The use of both radiotherapy and chemotherapy to achieve a synergistic effect.

\*BT1 therapy  
 RT antineoplastic drugs  
 RT chemotherapy  
 RT neoplasms  
 RT radiotherapy  
 RT side effects

**COMBUSTION**

UF incineration  
 \*BT1 oxidation  
 BT1 thermochemical processes  
 NT1 cocombustion  
 NT1 fluidized-bed combustion  
 NT1 in-situ combustion  
 NT1 pulse combustion  
 NT1 reverse combustion  
 NT1 spontaneous combustion  
 NT1 staged combustion  
 RT afterburners  
 RT burners  
 RT calorific value  
 RT combustion instability  
 RT combustion kinetics  
 RT combustion products  
 RT combustion properties  
 RT combustion waves  
 RT detonation waves  
 RT dry ashing  
 RT exhaust recirculation systems  
 RT fire prevention  
 RT fires  
 RT flames  
 RT flammability  
 RT flaring  
 RT fuel-air ratio  
 RT fuel injection systems  
 RT gas burners  
 RT ignition  
 RT ignition quality  
 RT ignition systems  
 RT incinerators  
 RT knock control  
 RT oil burners  
 RT spark ignition engines  
 RT stratified charge engines  
 RT wet ashing



**COMBUSTION CHAMBERS**

1997-06-19

*Containers in which the actual burning of fuel takes place.*

- RT combustors
- RT engines
- RT fuel injection systems
- RT furnaces
- RT pulse combustion
- RT pulse combustors
- RT spark ignition engines

**COMBUSTION CONTROL**

INIS: 1997-06-19; ETDE: 1979-03-28

*Control of factors (temperature, preheating, draft, excess or deficient air, etc.) which affect combustion efficiency.*

- BT1 control
- RT boilers
- RT combustors
- RT fuel-air ratio
- RT pulse combustion
- RT pulse combustors

**combustion engineering gasification process**

INIS: 2000-04-12; ETDE: 1977-05-07

USE ce entrained fuel process

**combustion engineering standard reactor**

1999-04-21

USE ce standard reactor

**combustion gases**

INIS: 1976-07-16; ETDE: 2002-06-13

USE flue gas

**COMBUSTION HEAT**

UF heat of combustion

- BT1 combustion properties
- \*BT1 heat
- \*BT1 reaction heat
- RT calorific value

**COMBUSTION INSTABILITY**

INIS: 2000-04-12; ETDE: 1976-08-24

- BT1 instability
- RT combustion

**COMBUSTION KINETICS**

INIS: 1991-10-03; ETDE: 1976-08-24

- \*BT1 chemical reaction kinetics
- RT combustion
- RT flame propagation

**COMBUSTION PRODUCTS**

INIS: 1983-03-15; ETDE: 1975-10-01

- NT1 ashes
- NT2 fly ash
- NT1 soot
- RT 3-methylcholanthrene
- RT combustion
- RT exhaust gases
- RT flue gas
- RT gaseous wastes
- RT pyrolysis products
- RT solid wastes

**COMBUSTION PROPERTIES**

INIS: 1992-07-10; ETDE: 1975-11-11

- UF flame temperature
- UF flash point
- NT1 calorific value
- NT1 combustion heat
- NT1 flammability
- RT combustion
- RT thermodynamic properties

**COMBUSTION WAVES**

INIS: 2000-06-27; ETDE: 1976-09-14

*Narrow zones of burning propagated through a combustible medium.*

- RT combustion
- RT detonation waves
- RT explosions
- RT ignition
- RT shock waves

**COMBUSTORS**

INIS: 1997-06-19; ETDE: 1976-11-01

*Combustion chambers together with their associated burners, igniters, and fuel injection devices.*

- NT1 catalytic combustors
- NT1 cyclone combustors
- NT1 fluidized-bed combustors
- NT1 pulse combustors
- RT burners
- RT combustion chambers
- RT combustion control
- RT ignition systems

**COMECON**

UF cmea

UF council for mutual economic assistance

- BT1 international organizations

**COMETS**

NT1 halley comet

RT solar system

**comissao nacional energia nuclear de brazil**

INIS: 1993-11-05; ETDE: 2002-06-13

USE brazilian cnen

**comitato nazionale energia nucleare e alternativa**

INIS: 1993-11-05; ETDE: 2002-06-13

*Comitato Nazionale per la Ricerca e lo Sviluppo dell'Energia Nucleare e delle Energie Alternative.*

USE italian enea

**comitato nazionale per l'energia nucleare**

INIS: 1999-05-06; ETDE: 1976-06-07

USE cnen

**commensalism**

INIS: 1984-12-04; ETDE: 1980-01-15

USE symbiosis

**commerce**

INIS: 2000-04-12; ETDE: 1977-12-22

USE trade

**commerce (nuclear)**

INIS: 1976-12-08; ETDE: 1978-03-03

USE nuclear trade

**COMMERCIAL BUILDINGS**

1993-01-28

- UF banks
- UF stores
- BT1 buildings
- NT1 hotels
- NT1 shopping centers
- RT apartment buildings
- RT commercial sector
- RT office buildings
- RT restaurants
- RT skating rinks

**commercial demonstration fast reactor**

INIS: 1999-04-19; ETDE: 1979-10-23

USE cdf reactor

**commercial licenses**

INIS: 1994-08-12; ETDE: 1996-02-09

*(Until August 1994 this was a valid descriptor.)*

USE licenses

**commercial nuclear ships**

INIS: 1976-11-17; ETDE: 1976-08-24

USE nuclear merchant ships

**COMMERCIAL SECTOR**

INIS: 1986-07-09; ETDE: 1976-12-15

- SF end use sector
- RT commercial buildings
- RT commercialization
- RT economic development
- RT market
- RT marketers
- RT resellers
- RT residential sector
- RT restaurants
- RT retailers
- RT sectoral analysis
- RT service sector
- RT small businesses
- RT trade

**COMMERCIALIZATION**

INIS: 1984-10-23; ETDE: 1977-03-04

*Establishment of a new technology for large-scale use after research, development, and demonstration.*

- SF technology development
- RT biotechnology
- RT commercial sector
- RT demonstration programs
- RT economic development
- RT feasibility studies
- RT gasoline plants
- RT industry
- RT manufacturers
- RT market
- RT technology impacts
- RT technology transfer
- RT technology utilization

**COMMUNITION**

1999-05-06

- UF pulverization
- NT1 crushing
- NT1 grinding
- RT coal preparation
- RT fracturing
- RT fragmentation
- RT pulverizers

**commissariat a l'energie atomique**

INIS: 1993-11-05; ETDE: 2002-06-13

USE cea

**COMMISSIONING**

1996-04-29

- NT1 reactor commissioning
- RT decommissioning

**commissioning (reactor)**

USE reactor commissioning

**commodities**

INIS: 2000-04-12; ETDE: 1975-07-29

*(Prior to February 1997 this was a valid ETDE descriptor.)*

SEE sales

**common market**

1997-01-28

*(Until December 1994 this was a valid descriptor.)*

USE internal market

**COMMUNICATIONS**

(From July 1984 till April 1997  
CRYPTOGRAPHY was a valid ETDE  
descriptor.)

- NT1 data transmission
- NT2 telemetry
- RT advertising
- RT cryptography
- RT data transmission systems
- RT information theory
- RT man-machine systems
- RT radio equipment
- RT redundancy
- RT signals
- RT speech
- RT telephones
- RT television

**COMMUNITIES**

1992-03-17  
(From September 1977 till March 1997  
PLANNED COMMUNITIES was a valid  
ETDE descriptor.)

- SF *planned communities*
- RT human populations
- RT ices program
- RT residential sector
- RT socio-economic factors

**communities (ecological)**

USE ecosystems

**COMMUTATION RELATIONS**

- RT canonical dimension
- RT current algebra
- RT mathematical operators
- RT quantum mechanics

**COMMUTATORS**

- \*BT1 quantum operators
- NT1 current commutators
- NT2 sigma terms
- RT current algebra

**COMPACT COMMISSIONS**

INIS: 1992-08-20; ETDE: 1984-03-19  
*Joint negotiating and coordinating body for a  
compact's member states.*

- RT intergovernmental cooperation
- RT low-level radioactive wastes
- RT radioactive waste management
- RT state government

**compact helical system torsatron**

1991-02-11

USE chs torsatron

**COMPACT IGNITION TOKAMAK**

INIS: 1987-04-28; ETDE: 1986-11-20  
*A tokamak proposed as a next step after  
TFTR.*

- \*BT1 tokamak devices
- \*BT1 tokamak type reactors
- RT thermonuclear ignition

**compact toroids**

INIS: 1990-12-07; ETDE: 2002-06-13

USE compact torus

**COMPACT TORUS**

INIS: 1983-03-15; ETDE: 1982-10-05  
*Torus with aspect ratio nearly equal to one.*

- UF *compact toroids*
- \*BT1 closed plasma devices
- BT1 tori
- NT1 field-reversed theta pinch devices
- NT1 rotamak devices
- RT ignition spherical torus
- RT plasma
- RT plasma rings
- RT toroidal configuration

**COMPACTIFICATION**

INIS: 1985-10-23; ETDE: 1985-11-19  
*Process by which the number of space-time  
dimensions may be reduced.*

- UF *dimensional compactification*
- RT dimensions
- RT kaluza-klein theory
- RT space-time
- RT supergravity
- RT symmetry breaking

**COMPACTING**

- BT1 fabrication
- RT agglomeration
- RT briquetting
- RT caking
- RT cementing
- RT compactors
- RT compacts
- RT pelletizing
- RT powder metallurgy
- RT pressing
- RT rolling

**COMPACTORS**

INIS: 1992-08-20; ETDE: 1977-06-21

- BT1 equipment
- RT compacting
- RT compacts

**COMPACTS**

- RT compacting
- RT compactors
- RT powders

**compagnie generale des matieres  
nucleaires**

INIS: 1977-03-29; ETDE: 2002-06-13

USE cogema

**COMPARATIVE EVALUATIONS**

*Use in coordination with the concepts being  
compared. In the case of numerical data see  
also EVALUATED DATA or COMPILED  
DATA.*

- BT1 evaluation
- RT bioassay
- RT correlations
- RT cost benefit analysis
- RT data
- RT efficiency
- RT errors
- RT feasibility studies
- RT functional models
- RT hypothesis
- RT interlaboratory comparisons
- RT mathematical models
- RT measuring methods
- RT radiation effects
- RT resolution
- RT structural models

**COMPARATOR CIRCUITS**

*Provide indication of agreement or  
disagreement between signals.*

- BT1 electronic circuits

**COMPARTMENTS**

- RT biophysics
- RT extracellular space
- RT radionuclide kinetics
- RT retention
- RT retention functions

**COMPASS-D TOKAMAK**

INIS: 1999-03-24; ETDE: 1999-08-30

*Culham Science Center, Abingdon,  
Oxfordshire, UK.*

- \*BT1 tokamak devices

**COMPATIBILITY**

*Mutual behaviour of 2 or more materials  
joined or mixed together.*

- RT interchangeability
- RT joining
- RT joints
- RT mixtures

**compatibility (immunological)**

USE immunity

**compensation (workmens)**

USE workmens compensation

**COMPETITION**

INIS: 1986-07-09; ETDE: 1976-07-07

*Contest among individuals; may be used in  
any field.*

- UF *market shares*
- RT antitrust laws
- RT behavior
- RT cartels
- RT ecological succession
- RT economics
- RT horizontal integration
- RT marketers
- RT population dynamics
- RT resellers
- RT retailers
- RT sales
- RT trade
- RT vertical divestiture
- RT vertical integration

**competitive protein binding**

USE cpb

**COMPILED DATA**

INIS: 1978-10-20; ETDE: 1979-02-27

*Use only in conjunction with literary indicator  
N for data flagging.*

- \*BT1 numerical data
- RT data acquisition
- RT data compilation
- RT nuclear data collections

**COMPLEMENT**

*A system of 18 proteins found in blood which  
plays a central role in the organism's response  
to microbial infection.*

- UF *properdin*
- \*BT1 proteins
- RT antibodies
- RT antigen-antibody reactions
- RT blood plasma
- RT hemolysins
- RT immune system diseases
- RT lymphokines
- RT zymosan

**COMPLEX MANIFOLDS**

BT1 mathematical manifolds

**COMPLEX TERRAIN**

INIS: 1992-06-05; ETDE: 1983-03-07

*Land sites that are made up of a combination  
of mountains, valleys, plateaus, watersheds,  
etc.*

- RT mountains
- RT topography
- RT valleys
- RT watersheds

**COMPLEXES**

1996-07-23

- NT1 actinide complexes
- NT2 actinium complexes
- NT2 americium complexes
- NT2 berkelium complexes
- NT2 californium complexes
- NT2 curium complexes

NT2 einsteinium complexes  
 NT2 fermium complexes  
 NT2 mendelevium complexes  
 NT2 neptunium complexes  
   NT3 neptunyl complexes  
 NT2 nobelium complexes  
 NT2 plutonium complexes  
   NT3 plutonyl complexes  
 NT2 protactinium complexes  
 NT2 thorium complexes  
 NT2 uranium complexes  
   NT3 uranyl complexes  
 NT1 alkali metal complexes  
   NT2 cesium complexes  
   NT2 potassium complexes  
   NT2 rubidium complexes  
   NT2 sodium complexes  
 NT1 alkaline earth metal complexes  
   NT2 barium complexes  
   NT2 beryllium complexes  
   NT2 calcium complexes  
   NT2 magnesium complexes  
   NT2 radium complexes  
   NT2 strontium complexes  
 NT1 aluminium complexes  
 NT1 amines  
 NT1 ammonium complexes  
 NT1 antimony complexes  
 NT1 argon complexes  
 NT1 arsenic complexes  
 NT1 astatine complexes  
 NT1 bismuth complexes  
 NT1 boron complexes  
 NT1 bromine complexes  
 NT1 cadmium complexes  
 NT1 carbon complexes  
 NT1 chelates  
 NT1 chlorine complexes  
 NT1 fluorine complexes  
 NT1 gallium complexes  
 NT1 germanium complexes  
 NT1 helium complexes  
 NT1 heteropolyanions  
 NT1 hydrogen complexes  
 NT1 indium complexes  
 NT1 iodine complexes  
 NT1 krypton complexes  
 NT1 lead complexes  
 NT1 lithium complexes  
 NT1 mercury complexes  
 NT1 neon complexes  
 NT1 nitrogen complexes  
 NT1 oxygen complexes  
 NT1 phosphorus complexes  
 NT1 polonium complexes  
 NT1 rare earth complexes  
   NT2 cerium complexes  
   NT2 dysprosium complexes  
   NT2 erbium complexes  
   NT2 europium complexes  
   NT2 gadolinium complexes  
   NT2 holmium complexes  
   NT2 lanthanum complexes  
   NT2 lutetium complexes  
   NT2 neodymium complexes  
   NT2 praseodymium complexes  
   NT2 promethium complexes  
   NT2 samarium complexes  
   NT2 terbium complexes  
   NT2 thulium complexes  
   NT2 ytterbium complexes  
 NT1 rutherfordium complexes  
 NT1 selenium complexes  
 NT1 silicon complexes  
 NT1 sulfur complexes  
 NT1 tellurium complexes  
 NT1 thallium complexes  
 NT1 tin complexes  
 NT1 transition element complexes

NT2 chromium complexes  
 NT2 cobalt complexes  
 NT2 copper complexes  
   NT3 ceruloplasmin  
 NT2 gold complexes  
 NT2 hafnium complexes  
 NT2 iridium complexes  
 NT2 iron complexes  
   NT3 ferricyanides  
   NT3 ferritin  
   NT3 ferrocene  
   NT3 ferrocyanides  
 NT2 manganese complexes  
 NT2 molybdenum complexes  
 NT2 nickel complexes  
 NT2 niobium complexes  
 NT2 osmium complexes  
 NT2 palladium complexes  
 NT2 platinum complexes  
 NT2 rhenium complexes  
 NT2 rhodium complexes  
 NT2 ruthenium complexes  
 NT2 scandium complexes  
 NT2 silver complexes  
 NT2 tantalum complexes  
 NT2 technetium complexes  
 NT2 titanium complexes  
 NT2 tungsten complexes  
 NT2 vanadium complexes  
 NT2 yttrium complexes  
 NT2 zirconium complexes  
 NT1 transuranium complexes  
   NT2 americium complexes  
   NT2 berkelium complexes  
   NT2 californium complexes  
   NT2 curium complexes  
   NT2 einsteinium complexes  
   NT2 fermium complexes  
   NT2 mendelevium complexes  
   NT2 neptunium complexes  
     NT3 neptunyl complexes  
   NT2 nobelium complexes  
   NT2 plutonium complexes  
     NT3 plutonyl complexes  
 NT1 xenon complexes  
 NT1 zinc complexes  
 RT adducts  
 RT complexometry  
 RT coordination number  
 RT coordination valences  
 RT crown ethers  
 RT ligands  
 RT ligases  
 RT metalloproteins

### complexing agents

INIS: 2000-04-12; ETDE: 1985-05-31

USE chelating agents

### COMPLEXOMETRY

RT complexes

### COMPLIANCE

INIS: 1993-07-28; ETDE: 1976-11-01

SF escrow accounts

RT administrative procedures

RT enforcement

RT laws

RT legal aspects

RT recommendations

RT regulations

RT standards

RT violations

### COMPLIANCE AUDITS

INIS: 1994-09-29; ETDE: 1983-05-21

BT1 audits

### component cooling systems

2000-04-12

USE auxiliary water systems

### COMPOSITE MATERIALS

UF materials (composite)

BT1 materials

NT1 cermets

  NT2 td-nickel

  NT2 td-nickel chromium

NT1 concrete-plastic composites

NT1 fiberglass

NT1 prestressed concrete

NT1 reinforced concrete

NT1 superconducting composites

NT1 wood-plastic composites

RT building materials

RT reinforced materials

### COMPOSITE MODELS

UF rishon model

\*BT1 particle models

NT1 bootstrap model

NT1 cim model

NT1 quark model

  NT2 bag model

  NT2 color model

  NT2 flavor model

  NT2 string models

  NT3 superstring models

RT preons

RT quarks

### COMPOST

INIS: 1992-03-17; ETDE: 1981-07-18

\*BT1 organic wastes

RT composting

RT sewage

### COMPOSTING

INIS: 1992-03-17; ETDE: 1975-09-11

\*BT1 waste processing

RT compost

RT decomposition

### COMPOUND NUCLEI

RT hauser-feshbach theory

RT jackson model

RT nuclear models

RT peierls method

RT porter-thomas distribution

### COMPOUND-NUCLEUS REACTIONS

BT1 nuclear reactions

RT deep inelastic heavy ion reactions

RT evaporation model

RT heavy ion fusion reactions

RT incomplete fusion reactions

RT quasi-fission

### COMPOUND PARABOLIC CONCENTRATORS

INIS: 2000-04-12; ETDE: 1976-11-17

UF winston collectors

\*BT1 solar concentrators

RT parabolic reflectors

### compounds (inorganic)

INIS: 1986-07-10; ETDE: 1980-11-25

USE inorganic compounds

### compounds (organic)

USE organic compounds

### COMPREIGNACITE

2000-04-12

\*BT1 oxide minerals

\*BT1 uranium minerals

RT uranium oxides

**COMPRESSED AIR**

1992-01-16

- \*BT1 air
- \*BT1 compressed gases
- RT compressed air energy storage
- RT compressed air energy storage equipment
- RT compressed air storage power plants

**COMPRESSED AIR ENERGY STORAGE**

INIS: 1993-01-27; ETDE: 1976-09-28

- UF caes
- \*BT1 energy storage
- RT compressed air
- RT compressed air energy storage equipment
- RT compressed air storage power plants
- RT compressed gases

**COMPRESSED AIR ENERGY STORAGE EQUIPMENT**

INIS: 2000-04-12; ETDE: 1977-09-19

- BT1 equipment
- RT compressed air
- RT compressed air energy storage
- RT compressed air storage power plants
- RT compressed gases
- RT energy storage systems
- RT peaking power plants

**COMPRESSED AIR STORAGE POWER PLANTS**

INIS: 1993-01-27; ETDE: 1978-09-13

Compressed air storage power plants.

- UF caes plant
- \*BT1 peaking power plants
- RT compressed air
- RT compressed air energy storage
- RT compressed air energy storage equipment
- RT compressed gases

**COMPRESSED GASES**

INIS: 1985-01-17; ETDE: 1976-03-11

- \*BT1 gases
- NT1 compressed air
- RT compressed air energy storage
- RT compressed air energy storage equipment
- RT compressed air storage power plants
- RT compressibility
- RT compression
- RT gas compressors

**compressed work week**

INIS: 2000-04-12; ETDE: 1984-05-08

- USE alternative work schedules

**COMPRESSIBILITY**

- BT1 mechanical properties
- RT compressed gases
- RT dilatancy
- RT grueneisen constant

**COMPRESSIBLE FLOW**

- BT1 fluid flow
- RT aerodynamics
- RT gas flow
- RT subsonic flow
- RT supersonic flow
- RT transonic flow

**COMPRESSION**

- NT1 magnetic compression
- RT compressed gases
- RT compression ratio
- RT pressurization

**COMPRESSION RATIO**

INIS: 2000-04-12; ETDE: 1981-03-17

- In internal combustion engines, the ratio between the volume displaced by the piston plus the clearance space to the volume of the clearance space.
- BT1 dimensionless numbers
- RT compression
- RT internal combustion engines

**COMPRESSION STRENGTH**

UF strength (compression)

- BT1 mechanical properties
- RT tensile properties

**COMPRESSOR BLADES**

INIS: 1999-03-02; ETDE: 1975-10-01

(Until March 1999, this concept was indexed by the combination of COMPRESSORS and TURBINE BLADES.)

- UF blades (compressor)
- RT compressors
- RT turbine blades

**COMPRESSORS**

- SF condensers
- NT1 gas compressors
- NT1 magnetoplasma compressors
- NT1 superchargers
- NT2 turbochargers
- RT blowers
- RT compressor blades
- RT pressurizers
- RT pumps
- RT reactor cooling systems
- RT turbomachinery

**COMPTON DIODE DETECTORS**

- \*BT1 radiation detectors
- RT gamma detection
- RT self-powered detectors

**COMPTON EFFECT**

1998-02-18

- UF compton scattering
- \*BT1 elastic scattering
- \*BT1 electromagnetic interactions
- RT compton scattering tomography
- RT compton wavelength
- RT klein-nishina formula

**compton scattering**

- USE compton effect

**COMPTON SCATTERING TOMOGRAPHY**

INIS: 1980-04-02; ETDE: 1980-05-06

Based on the detection by a gamma camera of the 90 degree Compton scattering of a planar gamma beam produced by an external source.

- \*BT1 tomography
- RT biomedical radiography
- RT compton effect
- RT gamma cameras

**COMPTON SPECTROMETERS**

- \*BT1 gamma spectrometers

**COMPTON WAVELENGTH**

1998-02-18

Wavelength characteristic of particles; its value is  $h/(mc)$ .

- RT compton effect

**computational fluid dynamics**

2006-04-25

- USE computerized simulation
- USE fluid mechanics

**computed tomography**

INIS: 1980-04-02; ETDE: 1980-05-07

- USE computerized tomography

**COMPUTER-AIDED DESIGN**

INIS: 1977-07-05; ETDE: 1976-02-19

- BT1 design
- RT computer-aided manufacturing
- RT computer graphics
- RT computer-graphics devices
- RT computers
- RT mathematical models
- RT planning

**COMPUTER-AIDED INSTRUCTION**

INIS: 2000-03-28; ETDE: 1987-12-10

- \*BT1 training

**COMPUTER-AIDED MANUFACTURING**

INIS: 1984-01-18; ETDE: 1983-07-07

- UF cam
- BT1 manufacturing
- RT automation
- RT computer-aided design
- RT fabrication
- RT machine tools
- RT on-line control systems
- RT production

**COMPUTER ARCHITECTURE**

INIS: 1987-02-25; ETDE: 1986-07-25

Assembly of logical elements to form a computing system.

- RT array processors
- RT computer output devices
- RT computers
- RT digital systems
- RT distributed structures
- RT electronic equipment
- RT equipment interfaces
- RT neural networks
- RT real time systems

**computer axial tomography scanning**

INIS: 1978-01-16; ETDE: 1978-03-03

- USE cat scanning

**COMPUTER CALCULATIONS**

Methods, not results.

- UF calculations (computer)
- RT boundary element method
- RT computer graphics
- RT computer-graphics devices
- RT computerized simulation
- RT computers
- RT data analysis
- RT mathematical models
- RT mesh generation
- RT numerical analysis
- RT sensitivity analysis

**COMPUTER CODES**

Computer codes are indexed by their initial letter and CODES, e.g., A CODES. If the code name begins with a number the code is indexed to NUMBER CODES.

- UF computer programs
- SF random number generators
- SF text editors
- NT1 a codes
- NT1 b codes
- NT1 c codes
- NT1 d codes
- NT1 e codes
- NT1 executive codes
- NT1 f codes
- NT1 g codes
- NT1 h codes
- NT1 i codes
- NT1 j codes
- NT1 k codes
- NT1 l codes
- NT1 m codes

**NT1** n codes  
**NT1** number codes  
**NT1** o codes  
**NT1** p codes  
**NT1** q codes  
**NT1** r codes  
**NT1** s codes  
**NT1** t codes  
**NT1** translators  
**NT1** u codes  
**NT1** v codes  
**NT1** w codes  
**NT1** x codes  
**NT1** y codes  
**NT1** z codes  
*RT* algorithms  
*RT* computer program documentation  
*RT* programming  
*RT* programming languages  
*RT* speech synthesizers

## COMPUTER GRAPHICS

1982-12-03

*The technique of combining computer calculations with various display devices, printers, plotters, etc., to render information in graphical or pictorial format.*

*UF* chernoff faces  
*RT* computer-aided design  
*RT* computer calculations  
*RT* computer-graphics devices  
*RT* computer output devices  
*RT* diagrams  
*RT* display devices  
*RT* interactive display devices  
*RT* plotters

## COMPUTER-GRAPHICS DEVICES

**BT1** computer output devices  
**NT1** display devices  
**NT2** interactive display devices  
**NT1** plotters  
*RT* computer-aided design  
*RT* computer calculations  
*RT* computer graphics  
*RT* diagrams

## computer languages

*USE* programming languages

## COMPUTER NETWORKS

*INIS: 1995-10-27; ETDE: 1976-11-01*

*A complex consisting of two or more interconnected computing units.*

*UF* networks (computer)  
**NT1** internet  
**NT1** local area networks  
*RT* computers  
*RT* data transmission  
*RT* information systems  
*RT* on-line systems  
*RT* real time systems

## COMPUTER OUTPUT DEVICES

*INIS: 1990-12-06; ETDE: 1976-03-22*

**NT1** computer-graphics devices  
**NT2** display devices  
**NT3** interactive display devices  
**NT2** plotters  
*RT* computer architecture  
*RT* computer graphics  
*RT* computers

## COMPUTER PROGRAM DOCUMENTATION

*INIS: 1987-09-22; ETDE: 1987-10-23*

*Use only in conjunction with literary indicator V for indexing the actual documentation which enables the installation and use of a computer code.*

*RT* computer codes

*RT* manuals  
*RT* programming  
*RT* programming languages

## computer programming

*USE* programming

## computer programs

*USE* computer codes

## computer simulation

*INIS: 1984-04-04; ETDE: 2002-06-13*

*USE* computerized simulation

## COMPUTERIZED CONTROL SYSTEMS

*INIS: 1991-10-07; ETDE: 1980-03-04*

**\*BT1** on-line control systems  
**NT1** adaptive systems  
*RT* computers  
*RT* control equipment  
*RT* energy management systems  
*RT* fault tolerant computers  
*RT* redundancy

## COMPUTERIZED SIMULATION

*INIS: 1996-04-16; ETDE: 1979-04-11*

*Computer calculated representation of a process, device or concept in mathematical form.*

*UF* computational fluid dynamics  
*UF* computer simulation  
**BT1** simulation  
*RT* computer calculations  
*RT* energy models  
*RT* molecular dynamics method  
*RT* numerical analysis

## COMPUTERIZED TOMOGRAPHY

*INIS: 1980-04-02; ETDE: 1980-05-06*

*An imaging technique in which transmission measurements of a narrow beam of rays, photons or particles made at several different angles around an object may be used with a computer program to obtain a clear image of one plane of the object.*

*UF* computed tomography  
**\*BT1** tomography  
**NT1** cat scanning  
**NT1** emission computed tomography  
**NT2** ecat scanning  
**NT2** positron computed tomography  
**NT2** single photon emission computed tomography  
**NT1** photon computed tomography  
**NT1** proton computed tomography  
*RT* biomedical radiography  
*RT* image processing  
*RT* image scanners  
*RT* sequential scanning

## COMPUTERS

1996-11-13

(Most *UF* terms below have been valid *ETDE* descriptors.)

*UF* amdahl computers  
*UF* atlas computers  
*UF* burroughs computers  
*UF* denelcor computers  
*UF* ferranti computers  
*UF* fluidic computers  
*UF* ge computers  
*UF* illiac computers  
*UF* kdf computers  
*UF* maniac computers  
*UF* midas computer  
*UF* on-line computers  
*UF* optical computers  
*UF* orion computers  
*UF* philco computers  
*UF* servers (computers)

*UF* tosbac computers  
*UF* ural computers  
*UF* varian computers  
*UF* xds computers  
*UF* xerox data systems computers

**NT1** analog computers  
**NT1** apple computers  
**NT1** besm computers  
**NT1** cdc computers  
**NT1** cray computers  
**NT1** dec computers  
**NT2** pdp computers  
**NT1** digital computers  
**NT2** array processors  
**NT2** calculators  
**NT2** fault tolerant computers  
**NT2** microcomputers  
**NT3** personal computers  
**NT2** supercomputers  
**NT1** es computers  
**NT1** facom computers  
**NT1** fujitsu computers  
**NT1** hitachi computers  
**NT1** honeywell computers  
**NT1** hp computers  
**NT1** hybrid computers  
**NT1** hypercube computers  
**NT1** ibm computers  
**NT1** icl computers  
**NT1** minsk computers  
**NT1** nec computers  
**NT1** nord computers  
**NT1** process computers  
**NT1** quantum computers  
**NT1** razdan computers  
**NT1** sds computers  
**NT1** siemens computers  
**NT1** univac computers  
*RT* analog systems  
*RT* artificial intelligence  
*RT* camac system  
*RT* computer-aided design  
*RT* computer architecture  
*RT* computer calculations  
*RT* computer networks  
*RT* computer output devices  
*RT* computerized control systems  
*RT* data-flow processing  
*RT* data processing  
*RT* digital systems  
*RT* electronic equipment  
*RT* equipment interfaces  
*RT* fastbus system  
*RT* machine translations  
*RT* magnetic cores  
*RT* memory management  
*RT* microprocessors  
*RT* nuclear instrument modules  
*RT* parallel processing  
*RT* programming  
*RT* real time systems  
*RT* vector processing

## CONCANAVALIN A

*INIS: 1981-02-27; ETDE: 1981-03-13*

(Prior to November 1990, this material was indexed to CONCANAVALIN.)

**\*BT1** hemagglutinins  
**BT1** lectins  
*RT* cell cycle  
*RT* cell proliferation  
*RT* lymphocytes  
*RT* mitosis

## concentrates (ore)

1982-08-27

*USE* ore concentrates

**CONCENTRATING COLLECTORS**

INIS: 1992-03-11; ETDE: 1977-06-21

- \*BT1 solar collectors
- NT1 fixed mirror collectors
- NT1 parabolic collectors
  - NT2 parabolic dish collectors
  - NT2 parabolic trough collectors
- NT1 slat type collectors
- NT1 tower focus collectors
- NT1 v trough collectors
- RT solar concentrators
- RT solar receivers

**concentration**

INIS: 2000-04-12; ETDE: 1978-12-20

- SEE abundance
- SEE concentration ratio
- SEE ecological concentration

**concentration (analytical)**

2000-03-27

- SEE abundance

**concentration dependence**

2000-03-27

- SEE abundance

**concentration processes (ecological)**

INIS: 1993-11-05; ETDE: 2002-06-13

- USE ecological concentration

**CONCENTRATION RATIO**

INIS: 1993-07-12; ETDE: 1978-04-06

See also ISOTOPE RATIO.

(Until July 1993, this concept was indexed in INIS by QUANTITY RATIO.)

- UF quantity ratio
- SF concentration
- BT1 dimensionless numbers
- RT abundance
- RT concentrator solar cells
- RT ecological concentration
- RT quantitative chemical analysis
- RT radioecological concentration
- RT radionuclide kinetics
- RT solar concentrators
- RT thermodynamic activity

**concentrations (radionuclides)**

- USE radioactivity

**CONCENTRATOR SOLAR CELLS**

INIS: 1992-05-28; ETDE: 1979-07-18

(Prior to July 1979 SOLAR CELLS or specific solar cells descriptors and solar concentrators were used to index this concept in ETDE.)

- \*BT1 solar cells
- RT concentration ratio
- RT solar concentrators
- RT solar receivers

**CONCENTRATORS**

INIS: 1994-06-27; ETDE: 1976-02-19

- NT1 centrifuges
  - NT2 gas centrifuges
  - NT2 plasma centrifuges
  - NT2 ultracentrifuges
- NT1 cyclone separators
- NT1 dewatering equipment
- NT1 jigs
- NT1 magnetic separators
- RT screens
- RT separation processes
- RT sorting

**CONCRETE BLOCKS**

INIS: 2000-04-12; ETDE: 1979-07-18

- \*BT1 building materials
- RT concretes

**CONCRETE-PLASTIC COMPOSITES**

1975-11-27

- \*BT1 composite materials
- RT concretes
- RT organic polymers
- RT plastics

**CONCRETE STRINGERS**

- RT reinforced concrete

**CONCRETES**

- \*BT1 building materials
- NT1 prestressed concrete
- NT1 reinforced concrete
- RT cements
- RT concrete blocks
- RT concrete-plastic composites
- RT mortars
- RT pavements
- RT sand
- RT shielding materials

**CONCRETIONS**

2000-01-20

Bodies within host rocks representing local concentrations of cementing materials.

- BT1 geologic deposits
- RT minerals
- RT rocks

**CONDENSATES**

- NT1 gas condensates
- RT vapor condensation

**condensation (organic compounds)**

INIS: 2000-04-12; ETDE: 1983-04-28

- USE dehydrocyclization

**condensation (vapor)**

- USE vapor condensation

**CONDENSATION CHAMBERS**

- RT control equipment
- RT pressure suppression
- RT reactor components
- RT reactor cooling systems
- RT reactor safety
- RT vapor condensation

**CONDENSATION NUCLEI**

INIS: 1981-09-17; ETDE: 1978-04-06

Small particles upon which gases can condense, such as dust in the earth's atmosphere.

- RT aerosols
- RT aiten nuclei
- RT meteorology
- RT particles
- RT vapor condensation

**CONDENSED AROMATICS**

1996-07-08

- UF fluoranthene
- UF polynuclear hydrocarbons
- UF violanthrone

- \*BT1 aromatics
- NT1 3-methylcholanthrene
- NT1 acenaphthene
- NT1 anthracene
- NT1 benzantracene
- NT1 benzopyrene
- NT1 calixarenes
- NT1 cholanthrene
- NT1 chrysene
- NT1 dimethylbenzantracene
- NT1 fluorene
- NT1 indene
- NT1 indocyanine green
- NT1 methylnaphthalenes
- NT1 naphthalene
- NT1 pentacene

- NT1 perylene
- NT1 phenanthrene
- NT1 pyrene
- NT1 tetracene
- NT1 triphenylene

**condensed cycloalkanes**

INIS: 2000-04-12; ETDE: 1976-12-16

(Prior to February 1995, this was a valid ETDE descriptor.)

- USE cycloalkanes

**CONDENSER COOLING SYSTEMS**

1980-07-24

For heat dissipation in either nuclear or fossil fueled power plants. May be of open circuit or closed cycle design.

- \*BT1 auxiliary water systems
- \*BT1 cooling systems
- RT reactor cooling systems

**CONDENSER IONIZATION CHAMBERS**

- UF pocket chambers

- \*BT1 dosimeters
- \*BT1 ionization chambers
- RT electrometers

**condensers**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

- SEE compressors
- SEE heat exchangers
- SEE vapor condensers

**condensers (electric)**

- USE capacitors

**condensers (steam)**

- USE steam condensers

**condensers (using ice)**

INIS: 1977-01-25; ETDE: 2002-06-13

Steam condensers using ice as the heat sink.

- USE ice condensers

**condensers (vapor)**

- USE vapor condensers

**condiments**

2000-04-12

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE food

**condition ratio**

INIS: 2000-04-12; ETDE: 1983-01-21

- USE formation damage

**CONDITIONED REFLEXES**

- BT1 reflexes
- RT avoidance
- RT cerebral cortex
- RT learning

**conduction (thermal)**

INIS: 1978-09-28; ETDE: 2002-06-13

- USE thermal conduction

**conductivity (electric)**

- USE electric conductivity

**conductivity (thermal)**

- USE thermal conductivity

**CONDUCTOR DEVICES**

- \*BT1 electrical equipment
- NT1 connectors
- NT1 electric cables
  - NT2 coaxial cables
  - NT2 cryogenic cables

- NT2 gas-insulated cables
- NT2 oil-filled cables
- NT2 superconducting cables
- NT1 electric fuses
- RT electric conductors
- RT resistors

**conductors (electric)**

- USE electric conductors

**CONES**

- 1983-09-05
- RT shape

**conferences**

- USE meetings

**CONFIGURATION**

*For the relative arrangement of component parts; for electron configuration in atoms and molecules use ELECTRONIC STRUCTURE; for nuclear configuration use NUCLEAR STRUCTURE; for molecular configuration use MOLECULAR STRUCTURE.*

- UF fuel rod consolidation
- NT1 annular space
- NT2 toroidal configuration
- NT1 circular configuration
- NT1 conical configuration
- NT1 cylindrical configuration
- NT1 elliptical configuration
- NT1 helical configuration
- NT1 hexagonal configuration
- NT1 hyperbolic configuration
- NT1 prismatic configuration
- NT1 rectangular configuration
- NT2 square configuration
- NT1 spherical configuration
- NT1 spiral configuration
- NT1 triangular configuration
- RT anisotropy
- RT asymmetry
- RT crystal structure
- RT geometry
- RT isotropy
- RT mass distribution
- RT morphology
- RT network analysis
- RT orientation
- RT reactor lattices
- RT rings
- RT shape
- RT symmetry

**CONFIGURATION CONTROL**

1999-05-12

*Reactor control by varying the configuration of the fuel, reflector, coolant or moderator.*

- BT1 control
- NT1 spectral shift control
- RT moderators
- RT neutron reflectors
- RT reactor control systems
- RT reactor lattices
- RT reflector savings

**configuration dependence**

- INIS: 2000-04-12; ETDE: 1979-08-07
- USE space dependence

**CONFIGURATION INTERACTION**

*Not for interactions of elementary particles; for which see INTERACTIONS.*

- RT atomic models
- RT conformational changes
- RT electronic structure
- RT molecular structure

**CONFIGURATION MIXING**

- BT1 interactions
- RT kobayashi-maskawa matrix

**CONFINEMENT**

- NT1 plasma confinement
- NT2 inertial confinement
- NT2 magnetic confinement
- NT3 h-mode plasma confinement
- NT3 l-mode plasma confinement
- RT electron rings
- RT energy balance
- RT ion rings
- RT magnetic field configurations
- RT magnetic insulation
- RT mass balance

**CONFINEMENT TIME**

- RT h-mode plasma confinement
- RT lawson criterion
- RT plasma confinement
- RT plasma disruption
- RT thermonuclear devices
- RT thermonuclear reactors
- RT time dependence

**CONFLICTS OF INTEREST**

- INIS: 1993-07-28; ETDE: 1980-08-25
- RT antitrust laws
- RT contracts
- RT legal aspects

**CONFORMAL GROUPS**

- \*BT1 lie groups
- RT conformal invariance
- RT conformal mapping

**CONFORMAL INVARIANCE**

- BT1 invariance principles
- RT conformal groups
- RT scale dimension
- RT scale invariance

**CONFORMAL MAPPING**

- \*BT1 topological mapping
- RT conformal groups
- RT mathematics
- RT smooth manifolds

**CONFORMATIONAL CHANGES**

- INIS: 1993-09-01; ETDE: 1980-02-11
- RT configuration interaction
- RT electronic structure
- RT molecular structure

**CONGENITAL DISEASES**

- UF xeroderma pigmentosum
- BT1 diseases
- NT1 downs syndrome
- RT congenital malformations
- RT hereditary diseases

**CONGENITAL MALFORMATIONS**

- \*BT1 malformations
- NT1 downs syndrome
- RT congenital diseases
- RT delayed radiation effects
- RT fetuses
- RT genetic effects
- RT mutations
- RT pediatrics
- RT teratogenesis
- RT teratogens

**CONGLOMERATES**

*Limited to geological formations.*

- \*BT1 sedimentary rocks
- NT1 calcretes
- RT graywacke

**congo democratic republic**

- (Prior to September 1997 ZAIRE REPUBLIC was used for this concept in ETDE.)
- USE democratic republic of the congo

**congo kinshasa triga reactor**

- USE trico reactor

**CONGO PEOPLES REPUBLIC**

- BT1 africa
- BT1 developing countries
- NT1 brazzaville

**congo red**

1996-10-22

(Until October 1996 this was a valid descriptor.)

- USE amines
- USE azo dyes
- USE indicators
- USE sulfonic acids

**congressional hearings**

- INIS: 2000-04-12; ETDE: 1975-11-11
- USE hearings

**CONGRESSIONAL INQUIRIES**

- INIS: 2000-04-12; ETDE: 1983-03-23
- Requests by members of congress for information; not to be used for CONGRESSIONAL HEARINGS.*
- RT information

**CONICAL CONFIGURATION**

- ETDE: 1975-09-11
- BT1 configuration

**CONIDIA**

- BT1 spores
- RT fungi

**CONFIFERS**

1997-06-17

- \*BT1 pinophyta
- NT1 cedars
- NT1 firs
- NT1 hemlocks
- NT1 larches
- NT1 pines
- NT1 spruces
- RT shrubs
- RT trees

**coning**

- INIS: 2000-04-12; ETDE: 1976-03-11
- USE channeling

**conjugate points**

- USE geomagnetic conjugacy

**CONJUNCTIVA**

- \*BT1 eyes
- \*BT1 mucous membranes
- RT conjunctivitis
- RT epithelium

**CONJUNCTIVITIS**

- \*BT1 sense organs diseases
- RT conjunctiva

**CONNAH QUAY-B REACTOR**

- \*BT1 agr type reactors
- \*BT1 carbon dioxide cooled reactors
- \*BT1 power reactors

**connate water**

2000-04-12

*Water entrapped in the interstices of a sedimentary or extrusive igneous rock at the time of its deposition.*

(Prior to February 1997 this was a valid ETDE descriptor.)

- USE interstitial water

**CONNECTICUT**

1997-06-17

- \*BT1 usa
- RT connecticut river

RT connecticut river basin  
 RT long island sound  
 RT us east coast

**CONNECTICUT RIVER**

1997-06-17

\*BT1 rivers  
 RT connecticut  
 RT connecticut river basin  
 RT massachusetts  
 RT new hampshire  
 RT vermont

**CONNECTICUT RIVER BASIN**

INIS: 2000-04-12; ETDE: 1977-09-19

BT1 watersheds  
 RT connecticut  
 RT connecticut river  
 RT massachusetts  
 RT new hampshire  
 RT vermont

**CONNECTICUT YANKEE REACTOR**

Connecticut Yankee Atomic Co., Haddam Neck, Connecticut, USA. Shut down in 1996. Decommissioned.

UF haddam neck reactor  
 UF yankee connecticut reactor  
 \*BT1 pwr type reactors

**connecting**

USE fastening

**connections**

USE joints

**CONNECTIVE TISSUE**

\*BT1 animal tissues  
 NT1 adipose tissue  
 NT1 bone tissues  
 NT2 antlers  
 NT2 trabecular bone  
 NT1 cartilage  
 NT1 fascia  
 NT1 ligaments  
 NT1 tendons  
 RT blood  
 RT collagen  
 RT connective tissue cells  
 RT fibrosis  
 RT reticuloendothelial system

**CONNECTIVE TISSUE CELLS**

UF osteoblasts  
 \*BT1 somatic cells  
 NT1 bone cells  
 NT1 bone marrow cells  
 NT1 fat cells  
 NT1 fibroblasts  
 NT1 lymphocytes  
 NT1 macrophages  
 NT1 mast cells  
 NT1 plasma cells  
 RT connective tissue

**CONNECTORS**

SF junctions  
 \*BT1 conductor devices  
 RT potheads  
 RT switches

**conoco gasification process**

INIS: 2000-04-12; ETDE: 1981-06-13

The process is based on British gas/Lurgi slagging gasification technology and shift/methanation technology developed by Conoco inc.

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

**conoco process**

INIS: 2000-04-12; ETDE: 1976-11-01  
 Desulfurization of low btu gas from coal gasification by reacting hydrogen sulfide with calcium carbonate magnesiumoxide at 1775 degrees F and 15 atm to form calcium sulfide magnesium oxide.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**consent orders**

INIS: 2000-04-12; ETDE: 1979-12-10  
 (Prior to March 1997 this was a valid ETDE descriptor.)

USE orders

**conservation (charge)**

INIS: 1982-12-03; ETDE: 2002-06-13

USE charge conservation

**conservation (energy)**

INIS: 1982-12-03; ETDE: 1979-11-23

USE energy conservation

**conservation (resource)**

INIS: 2000-04-12; ETDE: 1975-09-11

USE resource conservation

**conservation (resources)**

INIS: 1982-12-03; ETDE: 2002-06-13

USE resource conservation

**CONSERVATION LAWS**

RT basic interactions  
 RT continuity equations  
 RT invariance principles  
 RT particle kinematics

**CONSOL FGD PROCESS**

INIS: 2000-04-12; ETDE: 1977-08-24

Concentrated aqueous solution of potassium thiosulfate is circulated through a pump-around loop containing a packed bed scrubber for sulfur dioxide removal and an external reaction drum.

\*BT1 desulfurization  
 RT scrubbers

**CONSOL STIRRED BED PROCESS**

INIS: 2000-04-12; ETDE: 1975-11-28

Fluidized-bed carbonization of ground coal in vessel equipped with stirrer blades.

RT carbonization  
 RT chars

**consol synthetic fuel process**

2000-04-12

USE coal liquefaction

**CONSOL SYNTHETIC GAS PROCESS**

2000-04-12

Coarse caking coal and non-caking pellets are gasified conventionally in a fixed bed to produce a low btu gas with air or a synthesis gas with oxygen.

\*BT1 coal gasification

**CONSOLES**

RT control rooms  
 RT display devices  
 RT electronic equipment

**consolidated edison thorium reactor**

1993-11-05

USE indian point-1 reactor

**CONSOLIDATED FUEL****REPROCESSING PROGRAM**

INIS: 1994-08-22; ETDE: 1980-10-27

A comprehensive program to develop and demonstrate breeder reprocessing and recycle.

(Until August 1994 this descriptor was spelled CFRP PROGRAM.)

UF cfrp program  
 \*BT1 coordinated research programs  
 RT hef  
 RT reprocessing

**consolidation (sand)**

INIS: 2000-04-12; ETDE: 1981-05-18

USE sand consolidation

**CONSORT-2 REACTOR**

Imperial College of Science and Technology for Univ. of London, Ascot, Berkshire, United Kingdom.

\*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**CONSPIRACY RELATIONS**

RT regge poles  
 RT scattering

**CONSTANTAN**

1993-10-03

\*BT1 alloy-cu52ni47

**CONSTIPATION**

BT1 symptoms  
 RT diarrhea  
 RT digestive system diseases  
 RT intestines

**constituent interchange model**

INIS: 1978-08-14; ETDE: 1978-04-27

USE cim model

**constraints**

INIS: 2000-04-12; ETDE: 1981-07-18

Used to denote all barriers to development.

(Until March 1996 this was a valid ETDE descriptor.)

SEE limiting values

**CONSTRUCTION**

2000-04-03

For manufacturing see FABRICATION.

UF building (constructing)

NT1 cwip  
 RT afudc  
 RT building codes  
 RT buildings  
 RT construction industry  
 RT contracts  
 RT excavation  
 RT foundations  
 RT installation  
 RT mechanical structures  
 RT mine drivage  
 RT modifications  
 RT modular structures  
 RT nuclear industry  
 RT planning  
 RT retrofitting  
 RT schedules  
 RT structural beams  
 RT vernacular architecture

**CONSTRUCTION INDUSTRY**

INIS: 1992-04-06; ETDE: 1977-09-19

BT1 industry  
 RT architects



RT builders  
 RT buildings  
 RT construction  
 RT engineers  
 RT modular structures

**CONSTRUCTION PERMITS**

INIS: 1976-12-08; ETDE: 1978-03-08  
 BT1 licenses

**construction work in progress**

INIS: 2000-04-03; ETDE: 1978-11-14  
 USE cwip

**CONSTRUCTIVE FIELD THEORY**

INIS: 1977-11-21; ETDE: 1978-03-08  
 UF euclidean quantum field theory  
 \*BT1 quantum field theory  
 NT1 lattice field theory

**CONSULTANTS**

INIS: 1999-08-19; ETDE: 1980-07-09  
 BT1 personnel  
 RT contracts

**consultation mechanism on sea dumping**

INIS: 1993-11-05; ETDE: 2002-06-13  
*Multilateral Consultation and surveillance Mechanism for Sea Dumping of Radioactive Waste.*  
 USE oecd memsdrw

**consumer guides**

INIS: 2000-04-12; ETDE: 1977-06-21  
 Use DIRECTORIES or RECOMMENDATIONS and the descriptor below.  
 (Prior to February 1997 this was a valid ETDE descriptor.)  
 USE consumer products

**consumer price index**

INIS: 2000-04-12; ETDE: 1979-09-27  
 (Prior to March 1996 this was a valid ETDE descriptor.)  
 USE retail prices

**consumer prices**

INIS: 2000-04-12; ETDE: 1996-03-28  
 USE retail prices

**CONSUMER PRODUCTS**

INIS: 1980-09-12; ETDE: 1977-10-20  
*Articles of commerce available to the general public. When possible, use descriptors for the specific products, e.g., food, clothing, instruments and pharmaceuticals.*  
 UF consumer guides  
 UF cosmetics  
 RT advertising  
 RT clothing  
 RT consumer protection  
 RT drugs  
 RT food

**CONSUMER PROTECTION**

INIS: 1992-02-03; ETDE: 1977-06-21  
 RT consumer products  
 RT interest groups  
 RT legal aspects  
 RT product labeling  
 RT public relations  
 RT regulations  
 RT us natural gas policy act  
 RT warranties

**consumers michigan palisades reactor**

USE palisades-1 reactor

**consumers power company midland-1**

2000-04-12  
 USE midland-1 reactor

**consumers power company midland-1 reactor**

INIS: 1993-11-05; ETDE: 2002-06-13  
 USE midland-1 reactor

**consumers power company midland-2**

2000-04-12  
 USE midland-2 reactor

**consumers power company midland-2 reactor**

INIS: 1993-11-05; ETDE: 2002-06-13  
 USE midland-2 reactor

**CONSUMPTION RATES**

1993-06-03  
*For actions, ratios, percentages; not for consumption as a function of time.*  
 RT energy consumption  
 RT fuel consumption

**CONTACT HANDLING**

INIS: 1985-12-10; ETDE: 1984-10-24  
*Handling by touch, perhaps made allowable because of low surface radiation dose rate.*  
 RT materials handling  
 RT materials handling equipment  
 RT remote handling

**contact radiotherapy**

USE radiotherapy

**contactors**

USE switches

**contacts (electric)**

USE electric contacts

**CONTAINED EXPLOSIONS**

1996-07-16  
 UF monique event  
 UF pokhran event  
 UF wagon wheel event  
 \*BT1 underground explosions  
 RT anvil project  
 RT bedrock project  
 RT chemical explosions  
 RT crosstie operation  
 RT grommet operation  
 RT latchkey operation  
 RT mandrel operation  
 RT mining  
 RT nougat operation  
 RT nuclear explosions  
 RT praetorian project  
 RT sun beam operation  
 RT surface mining  
 RT toggle operation  
 RT whetstone operation

**CONTAINERS**

UF canisters  
 UF vessels  
 NT1 calandrias  
 NT1 capsules  
 NT1 casks  
 NT2 spent fuel casks  
 NT1 dewars  
 NT1 gas cylinders  
 NT1 hoppers  
 NT1 pressure vessels  
 NT1 reactor vessels  
 NT1 tanks  
 NT2 floating roof tanks

**NT2 hydraulic accumulators**

RT chemical reactors  
 RT containment  
 RT coverings  
 RT liners  
 RT packaging  
 RT radiation sources  
 RT reactor components  
 RT shielding  
 RT transport

**CONTAINMENT**

*Means and methods for preventing the escape of radioactive materials to the biosphere, particularly in the case of reactor accidents and including entombment.*

UF entombment (radioactive materials)  
 NT1 containment buildings  
 NT1 containment shells  
 NT1 containment systems  
 NT2 containment spray systems  
 RT containers  
 RT containment mockup facility  
 RT containment research installation  
 RT fission product release  
 RT fission products  
 RT gloveboxes  
 RT leaks  
 RT radiation protection  
 RT reactor components  
 RT reactor safety  
 RT sealed sources  
 RT source terms

**CONTAINMENT BUILDINGS**

UF buildings (containment)  
 BT1 buildings  
 BT1 containment

**CONTAINMENT MOCKUP FACILITY**

BT1 reactor safety experiments  
 RT containment

**CONTAINMENT RESEARCH INSTALLATION**

BT1 reactor safety experiments  
 RT containment

**CONTAINMENT SHELLS**

UF shells (containment)  
 BT1 containment

**CONTAINMENT SPRAY SYSTEMS**

UF spray systems (containment)  
 \*BT1 containment systems  
 RT pressure suppression  
 RT reactor safety

**CONTAINMENT SYSTEMS**

BT1 containment  
 BT1 engineered safety systems  
 NT1 containment spray systems  
 RT containment systems experiment  
 RT fission products  
 RT ice condensers

**CONTAINMENT SYSTEMS EXPERIMENT**

BT1 reactor safety experiments  
 RT containment systems

**CONTAMINATION**

*For radioactive contamination only; see also POLLUTION.*

NT1 indoor air contamination  
 NT1 surface contamination  
 NT1 transfrontier contamination  
 RT body burden  
 RT clean rooms  
 RT contamination regulations  
 RT environment

RT fallout  
 RT fission product release  
 RT fouling  
 RT global aspects  
 RT impurities  
 RT lcpmpdpw  
 RT liquid contamination monitors  
 RT maximum acceptable contamination  
 RT medical surveillance  
 RT oecd mcmsdrw  
 RT pollutants  
 RT radioactive wastes  
 RT radioactivity  
 RT radioactivity transport  
 RT radioecological concentration  
 RT remedial action

**contamination (internal)**

USE radionuclide kinetics

**contamination (surface)**

2000-04-12

USE surface contamination

**CONTAMINATION REGULATIONS**

*Regulations for radioactive contamination only; see also POLLUTION REGULATIONS.*

\*BT1 regulations

NT1 maximum acceptable contamination  
 RT contamination  
 RT pollution regulations  
 RT transfrontier contamination

**content analysis**

USE chemical analysis

**CONTIGS**

INIS: 2000-04-12; ETDE: 1994-02-24

*Chromosomal fragments produced by cleavage of a chromosome into overlapping sections of DNA of 0.5 to 5 million base pairs.*

\*BT1 dna

RT chromosomes  
 RT endonucleases  
 RT genetic mapping

**CONTINENTAL CRUST**

INIS: 1981-09-18; ETDE: 1977-09-19

BT1 earth crust  
 RT earth planet  
 RT oceanic crust

**CONTINENTAL MARGIN**

INIS: 1991-10-07; ETDE: 1978-12-11

*The ocean floor that is between the shoreline and the abyssal ocean floor including the continental borderland, the continental shelf, the continental slope, and the continental rise.*

NT1 continental shelf  
 NT1 continental slope  
 RT coastal waters

**CONTINENTAL SHELF**

1997-06-19

UF outer continental shelf

BT1 continental margin  
 RT coastal waters  
 RT coastal zone management acts  
 RT continental slope  
 RT mid-atlantic bight  
 RT new york bight  
 RT santa barbara channel  
 RT south atlantic bight  
 RT submarine canyons  
 RT territorial waters

**CONTINENTAL SLOPE**

INIS: 1991-10-07; ETDE: 1978-06-14

*That part of the continental margin that is between the continental shelf and the continental rise.*

BT1 continental margin

RT coastal waters  
 RT continental shelf  
 RT submarine canyons

**CONTINUED FRACTIONS**

*Finite or infinite.*

RT analytic functions  
 RT series expansion

**CONTINUITY EQUATIONS**

\*BT1 partial differential equations  
 RT conservation laws  
 RT electromagnetism  
 RT fluid flow  
 RT heat transfer

**CONTINUOUS CULTURE**

INIS: 1997-06-19; ETDE: 1978-06-14

RT aerobic digestion  
 RT anaerobic digestion  
 RT batch culture  
 RT culture media  
 RT fermentation  
 RT semibatch culture  
 RT single cell protein

**CONTINUOUS CURRENT****TOKAMAK**

INIS: 1991-08-12; ETDE: 1991-09-13

\*BT1 tokamak devices

**continuous intake**

USE chronic intake

**continuous irradiation**

USE chronic irradiation

**CONTINUOUS MINERS**

INIS: 2000-04-12; ETDE: 1978-05-03

\*BT1 cutter loaders

**continuous vacuum casting**

USE vacuum casting

**continuum shell model**

INIS: 1976-01-28; ETDE: 2002-06-13

USE shell models

**contract administration**

INIS: 2000-04-12; ETDE: 1983-03-24

USE contract management

**CONTRACT MANAGEMENT**

INIS: 1993-03-23; ETDE: 1980-09-05

(Prior to March 1983 this concept in ETDE was indexed to PROGRAM MANAGEMENT.)

UF contract administration

\*BT1 program management  
 RT contractors  
 RT contracts  
 RT schedules

**contracting of energy services**

2004-02-11

*Delivery of energy services (energy supplied in the form of heat and/or power) to a user by a third party under contract.*

USE contractors  
 USE energy supplies

**CONTRACTION**

RT expansion  
 RT expansion joints  
 RT shrinkage  
 RT thermal expansion

**CONTRACTOR PERSONNEL**

INIS: 1993-07-28; ETDE: 1983-03-23

*Persons employed by a contractor.*

BT1 personnel  
 RT contractors  
 RT contracts

**CONTRACTORS**

INIS: 1986-07-09; ETDE: 1983-03-23

*Persons or companies which supply services under contract.*

UF contracting of energy services

UF subcontractors  
 RT contract management  
 RT contractor personnel  
 RT contracts

**CONTRACTS**

UF fixed-price contracts

NT1 leases  
 RT agreements  
 RT conflicts of interest  
 RT construction  
 RT consultants  
 RT contract management  
 RT contractor personnel  
 RT contractors  
 RT delivery  
 RT leasing  
 RT proposals  
 RT third-party use  
 RT time delay

**contractual liability**

INIS: 1990-12-15; ETDE: 2002-06-13

(Prior to December 1990, this was a valid descriptor.)

USE liabilities

**CONTRAST MEDIA**

1996-10-23

UF diodrast

UF iodopyracet

NT1 hippuran  
 NT1 iohexol  
 NT1 iopamidol  
 NT1 lipiodol  
 NT1 metrizamide  
 NT1 thorotrast  
 RT biomedical radiography  
 RT nuclear magnetic resonance

**CONTROL**

*Regulating a process, property or component in a qualitative or quantitative sense. Not to be confused with MONITORING which refers only to detection or measurement.*

UF attitude control

NT1 atomic energy control  
 NT2 international control  
 NT2 national control  
 NT1 closed-loop control  
 NT1 combustion control  
 NT1 configuration control  
 NT2 spectral shift control  
 NT1 erosion control  
 NT1 flood control  
 NT1 fluid poison control  
 NT1 frequency control  
 NT1 humidity control  
 NT1 knock control  
 NT1 mode control  
 NT1 open-loop control  
 NT1 optimal control  
 NT1 pest control  
 NT2 genetic control  
 NT2 pest eradication  
 NT1 pollution control  
 NT2 air pollution control  
 NT3 carbon sequestration  
 NT2 land pollution control  
 NT2 noise pollution control  
 NT2 oil pollution containment  
 NT2 water pollution control  
 NT1 pressure control  
 NT1 process control  
 NT1 quality control

**NT1** remote control  
**NT1** scale control  
**NT1** temperature control  
**NT1** traffic control  
*RT* bifurcation  
*RT* control systems  
*RT* control theory  
*RT* cybernetics  
*RT* decision tree analysis  
*RT* detection  
*RT* fault tree analysis  
*RT* feedback  
*RT* mitigation  
*RT* monitoring  
*RT* optimization

**control (inspection)**

USE inspection

**control (radioactivity)**

USE radiation monitoring

**CONTROL ELEMENTS**

*UF* control rods  
*UF* reactor control rods  
*UF* rods (control)  
**BT1** reactor components  
**NT1** regulating rods  
**NT1** scram rods  
**NT1** shim rods  
*RT* burnable poisons  
*RT* control rod drives  
*RT* control rod worths  
*RT* guide tubes  
*RT* neutron absorbers  
*RT* reactor control systems  
*RT* reactor cores  
*RT* reactor kinetics  
*RT* rod drop accidents  
*RT* rod drop method  
*RT* rod ejection accidents

**CONTROL EQUIPMENT**

**BT1** equipment  
**NT1** electric controllers  
**NT1** flow regulators  
   **NT2** baffles  
   **NT2** valves  
   **NT3** relief valves  
   **NT3** water faucets  
**NT1** fluidic control devices  
**NT1** humidistats  
**NT1** hydraulic control devices  
**NT1** pneumatic controllers  
**NT1** pressure regulators  
**NT1** servomechanisms  
**NT1** speed regulators  
**NT1** thermostats  
   **NT2** cryostats  
*RT* actuators  
*RT* computerized control systems  
*RT* condensation chambers  
*RT* control rooms  
*RT* control systems  
*RT* excitation systems  
*RT* knock control  
*RT* reactor components  
*RT* robots  
*RT* solar tracking

**CONTROL ROD DRIVES**

**BT1** reactor components  
*RT* control elements  
*RT* reactor control systems

**control rod effectiveness**

USE control rod worths

**CONTROL ROD WORTHS**

*UF* control rod effectiveness  
*RT* control elements

*RT* nordheim-scalettar method  
*RT* reactor kinetics

**control rods**

USE control elements

**CONTROL ROOMS**

*INIS: 1979-12-20; ETDE: 1977-08-09*  
*In the sense of the fully instrumented complex of control equipment, displays and instruments and their layout in a room at a particular facility and not in the limited sense of a part of a building.*

*RT* consoles  
*RT* control equipment  
*RT* display devices  
*RT* man-machine systems  
*RT* reactor control systems  
*RT* reactor instrumentation  
*RT* reactor simulators

**CONTROL SYSTEMS**

*For automated processes including feedback.*

**NT1** electronic guidance  
**NT1** energy management systems  
**NT1** entry control systems  
**NT1** on-line control systems  
   **NT2** computerized control systems  
   **NT3** adaptive systems  
**NT1** reactor control systems  
**NT1** var control systems  
*RT* control  
*RT* control equipment  
*RT* heliostats  
*RT* identification systems  
*RT* interlocks  
*RT* man-machine systems  
*RT* optimization  
*RT* power conditioning circuits  
*RT* real time systems  
*RT* robots  
*RT* systems analysis

**CONTROL THEORY**

*INIS: 1976-09-06; ETDE: 1976-11-01*  
*RT* control  
*RT* differential equations  
*RT* feedback  
*RT* optimization

**control theory (fission reactor)**

*INIS: 1993-11-05; ETDE: 2002-06-13*  
 USE reactor kinetics

**control theory (reactor)**

2000-04-12  
 USE reactor kinetics

**CONTROLLED AREAS**

*INIS: 1976-12-08; ETDE: 1978-03-08*  
*Areas designated by radiation protection regulations for special monitoring.*  
*RT* nuclear facilities  
*RT* radiation monitoring  
*RT* radiation protection

**CONTROLLED ATMOSPHERES**

1999-03-17  
**BT1** atmospheres  
**NT1** inert atmosphere  
   **NT2** cover gas  
*RT* clean rooms  
*RT* environment  
*RT* exposure chambers  
*RT* heat treatments

**controlled terminology**

USE standardized terminology

**conv assist nuc acc/rad emerg**

*INIS: 1989-02-24; ETDE: 2002-06-13*  
 USE canare

**CONVECTION**

*Heat transfer by convection.*

\***BT1** heat transfer  
**BT1** mass transfer  
**NT1** forced convection  
**NT1** natural convection  
**NT1** thermosiphon effect  
*RT* advection  
*RT* richardson number

**CONVECTIVE INSTABILITIES**

*A class of plasma instabilities growing exponentially with time in velocity space.*

\***BT1** plasma instability  
*RT* absolute instabilities  
*RT* briggs criterion

**convective loop houses**

*INIS: 1992-08-25; ETDE: 1981-06-13*  
 USE double envelope buildings

**CONVECTORS**

2006-03-31  
**BT1** heat exchangers  
 \***BT1** space heaters

**convention on early notification of nuclear accident**

*INIS: 1993-11-05; ETDE: 1989-03-20*  
 USE cenna

**convention on nuclear safety**

*INIS: 2002-01-22; ETDE: 1999-12-15*  
 USE international convention on nuclear safety

**convention on physical protection of nuclear material**

1993-11-05  
 USE cppnm

**convention on supplementary compensation for nuclear damage**

2000-10-18  
 USE escnd

**convention on the physical protection of nuclear materials**

*INIS: 2000-04-12; ETDE: 1990-11-26*  
 USE cppnm

**CONVENTIONAL WARFARE**

*INIS: 2000-04-12; ETDE: 1986-02-03*  
**BT1** warfare

**conventions**

USE agreements

**CONVERGENCE**

1982-12-07  
*Approach to a limit, e.g. (by an infinite sequence; prior to December 1982 this concept was indexed by SERIES EXPANSION.)*

*RT* mathematics  
*RT* series expansion  
*RT* superconvergence relations

**CONVERSION**

**NT1** energy conversion  
**NT2** direct energy conversion  
   **NT3** photovoltaic conversion  
   **NT3** thermionic conversion  
   **NT3** thermoelectric conversion  
   **NT3** thermomagnetic conversion  
   **NT3** thermophotovoltaic conversion  
**NT2** electrochemical energy conversion  
**NT2** geothermal energy conversion  
**NT2** heat production  
**NT2** solar energy conversion  
**NT3** ocean thermal energy conversion

- NT3 solar thermal conversion
- NT1 external conversion
- NT1 internal conversion
- NT2 k conversion
- NT2 l conversion
- NT2 m conversion

**conversion (nuclear fuel)**

USE nuclear fuel conversion

**CONVERSION RATIO**

- BT1 dimensionless numbers
- NT1 breeding ratio
- RT nuclear fuel conversion

**converters (analog-digital)**

USE analog-to-digital converters

**converters (digital-analog)**

USE digital-to-analog converters

**converters (electric)**

INIS: 2000-04-12; ETDE: 1977-05-07

USE dc to dc converters

**converters (image)**

USE image converters

**converters (pulse)**

USE pulse converters

**convertol process**

INIS: 2000-04-12; ETDE: 1977-06-24  
Process developed in Germany for cleaning and dewatering coal-washery slurries. (Prior to September 1994, this was a valid ETDE descriptor.)

USE coal preparation

**CONVEX MANIFOLDS**

INIS: 1976-09-06; ETDE: 1976-11-01

BT1 mathematical manifolds

**CONVEYORS**

INIS: 1985-12-10; ETDE: 1977-03-04

- \*BT1 haulage equipment
- NT1 belt conveyors
- NT1 chain conveyors
- RT materials handling
- RT mining equipment
- RT transport

**cony**

1996-07-08

(Prior to July 1996 PIKAS was a valid ETDE descriptor.)

USE mammals

**COOK-1 REACTOR**

Indiana Michigan Power Co., Bridgman, Michigan, USA.

UF donald c. cook-1 reactor

\*BT1 pwr type reactors

**COOK-2 REACTOR**

Indiana Michigan Power Co., Bridgman, Michigan, USA.

UF donald c. cook-2 reactor

\*BT1 pwr type reactors

**cook inlet**

INIS: 1992-06-04; ETDE: 1977-01-28

USE gulf of alaska

**cooking**

INIS: 2000-04-12; ETDE: 1979-12-10

SEE food processing

**cooking (food)**

INIS: 1984-04-04; ETDE: 2002-06-13

USE food processing

**COOLANT CLEANUP SYSTEMS**

1977-10-17

- \*BT1 primary coolant circuits
- RT cleaning
- RT decontamination
- RT extraction apparatuses
- RT filters
- RT purification

**coolant-fuel interactions**

USE fuel-coolant interactions

**COOLANT LOOPS**

For reactors use REACTOR COOLING SYSTEMS or IN PILE LOOPS.

- UF loops (coolant)
- \*BT1 cooling systems
- RT auxiliary water systems
- RT bypasses
- RT circulating systems
- RT closed-cycle cooling systems
- RT cooling
- RT heat transfer
- RT open-cycle cooling systems

**COOLANTS**

See also specific coolant materials.

- NT1 organic coolants
- RT cooling
- RT cutting fluids
- RT fuel-coolant interactions
- RT gases
- RT heavy water
- RT liquid metals
- RT loss of coolant
- RT molten salts
- RT oils
- RT reactor cooling systems
- RT reactor materials
- RT refrigerants
- RT steam
- RT water
- RT water chemistry

**coolers**

USE heat exchangers

**COOLING**

- SF heat dissipation
- NT1 district cooling
- NT1 evaporative cooling
- NT1 film cooling
- NT1 fog cooling
- NT1 gas cooling
- NT1 radiative cooling
- NT1 refrigeration
- NT2 geothermal refrigeration
- NT2 helium dilution refrigeration
- NT2 solar refrigeration
- NT1 splat cooling
- NT1 spray cooling
- NT1 subcooling
- NT1 sublimation cooling
- RT air conditioning
- RT coolant loops
- RT coolants
- RT cooling ponds
- RT cooling systems
- RT cooling time
- RT cooling towers
- RT fuel cooling time
- RT heat exchangers
- RT heat extraction
- RT heat pumps
- RT heat transfer
- RT heating
- RT ice condensers
- RT once-through cooling systems
- RT reactor cooling systems
- RT temperature control

- RT temperature noise
- RT vapor condensation
- RT water
- RT water coolers

**COOLING LOAD**

INIS: 2000-04-12; ETDE: 1975-10-01

- RT air conditioning
- RT heat gain
- RT heating load
- RT solar heating
- RT sun shades

**COOLING PONDS**

1992-06-05

- UF ponds (cooling)
- UF spray ponds
- \*BT1 ponds
- \*BT1 water reservoirs
- RT cooling
- RT cooling systems
- RT lakes

**COOLING SYSTEMS**

1976-02-11

- SF thermally active structural components
- BT1 energy systems
- NT1 closed-cycle cooling systems
- NT1 condenser cooling systems
- NT1 coolant loops
- NT1 once-through cooling systems
- NT1 open-cycle cooling systems
- NT1 reactor cooling systems
- NT2 direct cycle cooling systems
- NT2 dual cycle cooling systems
- NT2 integrated cooling systems
- NT2 primary coolant circuits
- NT3 coolant cleanup systems
- NT2 rcic systems
- NT2 rhr systems
- NT2 secondary coolant circuits
- NT2 shrouds
- NT1 thermonuclear reactor cooling systems
- RT absorption refrigeration cycle
- RT ceiling fans
- RT chemical heat pumps
- RT cooling
- RT cooling ponds
- RT cooling towers
- RT discharge canals
- RT evaporative cooling
- RT intake structures
- RT legionella pneumophila
- RT refrigerating machinery
- RT refrigerators
- RT vapor compression refrigeration cycle

**cooling systems (fission reactor)**

1993-11-05

USE reactor cooling systems

**cooling systems (fusion reactor)**

INIS: 1993-11-05; ETDE: 2002-06-13

USE thermonuclear reactor cooling systems

**COOLING TIME**

INIS: 1984-04-04; ETDE: 1979-09-26

- NT1 fuel cooling time
- RT cooling
- RT heat extraction

**cooling tower packing grids**

2000-04-12

USE packings

**COOLING TOWERS**

- UF counterflow cooling towers
- UF crossflow cooling towers

UF *dry-type cooling towers*  
 UF *forced draft cooling towers*  
 UF *mechanical draft cooling towers*  
 UF *natural draft cooling towers*  
 UF *wet-type cooling towers*  
 SF *towers*  
 RT closed-cycle cooling systems  
 RT cooling  
 RT cooling systems  
 RT counterflow systems  
 RT crossflow systems  
 RT evaporative cooling  
 RT heat exchangers  
 RT open-cycle cooling systems  
 RT packings  
 RT reactor components  
 RT vapor condensers

**cooling water chemical treatment**

1993-11-05

USE water chemistry

**COOPER PAIRS**

RT bose-einstein statistics  
 RT coherence length  
 RT electrons  
 RT fermi level  
 RT superconductivity

**COOPER REACTOR**

*Nebraska Public Power District, Brownville, Nebraska, USA.*

\*BT1 bwr type reactors

**COOPERATION**

INIS: 1986-07-10; ETDE: 1979-12-17

NT1 interagency cooperation  
 NT1 intergovernmental cooperation  
 NT1 international cooperation  
 NT1 joint ventures  
 NT1 regional cooperation  
 RT agreements  
 RT cooperatives  
 RT coordinated research programs  
 RT interlaboratory comparisons

**cooperative spontaneous emission**

INIS: 1993-11-05; ETDE: 2002-06-13

USE superradiance

**COOPERATIVES**

INIS: 2000-06-27; ETDE: 1980-01-15

*To be used in coordination with the descriptor for the pertinent industry or utility.*

UF *agricultural cooperatives*  
 UF *electric cooperatives*  
 UF *petroleum cooperatives*  
 RT cooperation  
 RT electric utilities  
 RT farms  
 RT market  
 RT monopolies  
 RT small businesses  
 RT socio-economic factors

**COORDINATED RESEARCH PROGRAMS**

*Research based on a common plan but carried out in various locations. This descriptor to be used in coordination with descriptors for the institutions or countries involved.*

UF *large coil program*  
 BT1 research programs  
 NT1 consolidated fuel reprocessing program  
 NT1 ifip  
 RT cooperation  
 RT dumand project  
 RT interlaboratory comparisons  
 RT international agreements  
 RT international cooperation

RT international organizations  
 RT planning

**COORDINATES**

(From December 1975 till February 1997 AZIMUTH was a valid ETDE descriptor.)

UF *grids (coordinates)*  
 UF *position (optical)*  
 UF *position (radio)*  
 SF *azimuth*  
 NT1 cartesian coordinates  
 NT1 curvilinear coordinates  
 NT2 magnetic flux coordinates  
 NT1 geomagnetic coordinates  
 NT1 hylleraas coordinates  
 RT center-of-mass system  
 RT global positioning system  
 RT laboratory system  
 RT mathematics  
 RT mesh generation  
 RT position operators  
 RT space dependence  
 RT sun charts

**COORDINATION NUMBER**

RT complexes  
 RT coordination valences  
 RT ligands

**COORDINATION VALENCES**

BT1 valence  
 RT complexes  
 RT coordination number  
 RT crystal lattices  
 RT structural chemical analysis

**copaiba**

INIS: 2000-04-12; ETDE: 1983-02-09

(Prior to March 1997 COPAIFERA was used for this concept in ETDE.)

USE trees

**copaifera**

INIS: 2000-04-12; ETDE: 1981-06-17

*Trees that produce an oil which can be used directly, without processing, in diesel engines.*  
 (Prior to March 1997 this was a valid ETDE descriptor.)

USE trees

**COPEPODS**

INIS: 1992-07-17; ETDE: 1976-05-13

(Until July 1992, this concept was indexed to CRUSTACEANS.)

\*BT1 crustaceans  
 RT zooplankton

**COPOLYMERIZATION**

*Polymerization of molecules of different types.*

\*BT1 polymerization

**COPOLYMERS**

INIS: 1975-11-07; ETDE: 1975-12-16

\*BT1 organic polymers

**COPPER**

\*BT1 transition elements

**COPPER 56**

INIS: 2001-09-05; ETDE: 2002-02-06

\*BT1 beta-plus decay radioisotopes  
 \*BT1 copper isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**COPPER 57**

INIS: 1980-05-14; ETDE: 1977-11-09

\*BT1 beta-plus decay radioisotopes  
 \*BT1 copper isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**COPPER 58**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 copper isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**COPPER 59**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 copper isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**COPPER 60**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 copper isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**COPPER 61**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 copper isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

**COPPER 61 TARGET**

ETDE: 1976-07-09

BT1 targets

**COPPER 62**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 copper isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**COPPER 63**

\*BT1 copper isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes  
 RT copper 63 reactions

**COPPER 63 BEAMS**

INIS: 1978-11-24; ETDE: 1979-05-03

\*BT1 ion beams

**COPPER 63 REACTIONS**

\*BT1 heavy ion reactions  
 RT copper 63

**COPPER 63 TARGET**

ETDE: 1976-07-09

BT1 targets

**COPPER 64**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 copper isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei

**COPPER 64 TARGET**

INIS: 1978-04-21; ETDE: 1978-07-06

BT1 targets

**COPPER 65**

\*BT1 copper isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes

**COPPER 65 REACTIONS**

\*BT1 heavy ion reactions

**COPPER 65 TARGET**

ETDE: 1976-07-09

BT1 targets

**COPPER 66**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 copper isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**COPPER 67**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 copper isotopes  
 \*BT1 days living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

**COPPER 68**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 copper isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**COPPER 69**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 copper isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**COPPER 70**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 copper isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**COPPER 71**

1982-07-22

\*BT1 beta-minus decay radioisotopes  
 \*BT1 copper isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**COPPER 72**

1982-07-22

\*BT1 beta-minus decay radioisotopes  
 \*BT1 copper isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**COPPER 73**

1982-07-22

\*BT1 beta-minus decay radioisotopes  
 \*BT1 copper isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**COPPER 74**

1989-07-19

\*BT1 beta-minus decay radioisotopes  
 \*BT1 copper isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**COPPER 75**

INIS: 1990-05-17; ETDE: 1990-06-01

\*BT1 beta-minus decay radioisotopes  
 \*BT1 copper isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**COPPER 76**

1992-03-17

\*BT1 beta-minus decay radioisotopes  
 \*BT1 copper isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**COPPER 77**

1992-03-18

\*BT1 beta-minus decay radioisotopes  
 \*BT1 copper isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**COPPER 78**

1992-03-18

\*BT1 beta-minus decay radioisotopes  
 \*BT1 copper isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**COPPER 79**

1992-03-18

\*BT1 beta-minus decay radioisotopes  
 \*BT1 copper isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**COPPER ADDITIONS**

1996-07-17

Alloys containing not more than 1% Cu are listed here.

\*BT1 copper alloys  
 NT1 alloy-ni43fe33cr16mo3  
 NT2 nimonic pe16  
 NT1 alloy-ni60co15cr10al6ti5mo3  
 NT2 alloy-in-100  
 NT1 duranickel  
 NT1 steel-cr2mov  
 NT1 steel-cr2nimov  
 NT1 steel-crmov  
 NT1 steel-crni  
 NT1 steel-mncumo  
 NT2 steel-astm-a537  
 NT1 steel-ni3cr  
 NT1 steel-ni4crw  
 NT1 steel-nicr  
 NT1 steel-nicrmo

**COPPER ALLOYS**

1996-11-13

Alloys containing more than 1% Cu.

UF alloy-ge  
 \*BT1 transition element alloys  
 NT1 alloy-al95cu4  
 NT2 duralumin  
 NT1 alloy-ni43fe30cr22mo3  
 NT2 incoloy 825  
 NT1 alloy-ni66cu32  
 NT2 monel 400  
 NT1 alloy-yundk 25ba  
 NT1 bondur  
 NT1 copper additions  
 NT2 alloy-ni43fe33cr16mo3  
 NT3 nimonic pe16  
 NT2 alloy-ni60co15cr10al6ti5mo3  
 NT3 alloy-in-100  
 NT2 duranickel  
 NT2 steel-cr2mov  
 NT2 steel-cr2nimov  
 NT2 steel-crmov  
 NT2 steel-crni  
 NT2 steel-mncumo  
 NT3 steel-astm-a537  
 NT2 steel-ni3cr

NT2 steel-ni4crw  
 NT2 steel-nicr  
 NT2 steel-nicrmo  
 NT1 copper base alloys  
 NT2 alloy-cu52ni47  
 NT3 constantan  
 NT2 alloy-cu70ni30  
 NT2 alloy-cu90ni10  
 NT2 brass  
 NT3 brass-alpha  
 NT3 brass-beta  
 NT2 bronze  
 NT2 heusler alloys  
 NT2 manganin  
 NT2 muntz metal  
 NT2 nickeline alloy  
 NT2 ounce metal  
 NT2 tungsten bronze

NT1 cunico  
 NT1 heddur  
 NT1 illium  
 NT1 lynite  
 NT1 magnalium  
 NT1 ni-o-nel  
 NT1 steel-cd-4mcu  
 NT1 steel-cr17cu4ni4nb-l  
 NT2 stainless steel-17-4ph  
 NT1 steel-in-787  
 NT1 zamak

**COPPER ARSENIDES**

INIS: 1991-09-16; ETDE: 1985-09-24

\*BT1 arsenides  
 \*BT1 copper compounds

**COPPER BASE ALLOYS**

1996-06-28

UF german silver  
 UF nickel silver  
 UF resistal  
 UF white copper  
 \*BT1 copper alloys  
 NT1 alloy-cu52ni47  
 NT2 constantan  
 NT1 alloy-cu70ni30  
 NT1 alloy-cu90ni10  
 NT1 brass  
 NT2 brass-alpha  
 NT2 brass-beta  
 NT1 bronze  
 NT1 heusler alloys  
 NT1 manganin  
 NT1 muntz metal  
 NT1 nickeline alloy  
 NT1 ounce metal  
 NT1 tungsten bronze

**COPPER BORIDES**

\*BT1 borides  
 \*BT1 copper compounds

**COPPER BROMIDES**

\*BT1 bromides  
 \*BT1 copper halides

**COPPER CARBIDES**

\*BT1 carbides  
 \*BT1 copper compounds

**COPPER CARBONATES**

\*BT1 carbonates  
 \*BT1 copper compounds

**COPPER CHLORIDES**

\*BT1 chlorides  
 \*BT1 copper halides

**COPPER COMPLEXES**

\*BT1 transition element complexes  
 NT1 ceruloplasmin  
 RT phthalocyanines

**COPPER COMPOUNDS**

- BT1 transition element compounds
- NT1 copper arsenides
- NT1 copper borides
- NT1 copper carbides
- NT1 copper carbonates
- NT1 copper halides
- NT2 copper bromides
- NT2 copper chlorides
- NT2 copper fluorides
- NT2 copper iodides
- NT1 copper hydrides
- NT1 copper hydroxides
- NT1 copper nitrates
- NT1 copper nitrides
- NT1 copper oxides
- NT1 copper perchlorates
- NT1 copper phosphates
- NT1 copper phosphides
- NT1 copper selenides
- NT1 copper silicates
- NT1 copper silicides
- NT1 copper sulfates
- NT1 copper sulfides
- NT1 copper tellurides
- NT1 copper tungstates
- NT1 cuprates

**COPPER FLUORIDES**

- \*BT1 copper halides
- \*BT1 fluorides

**COPPER HALIDES**

1986-04-03

- \*BT1 copper compounds
- \*BT1 halides
- NT1 copper bromides
- NT1 copper chlorides
- NT1 copper fluorides
- NT1 copper iodides

**COPPER HYDRIDES**

- \*BT1 copper compounds
- \*BT1 hydrides

**COPPER HYDROXIDES**

- \*BT1 copper compounds
- \*BT1 hydroxides

**COPPER IODIDES**

- \*BT1 copper halides
- \*BT1 iodides

**COPPER IONS**

- \*BT1 ions

**COPPER ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 copper 56
- NT1 copper 57
- NT1 copper 58
- NT1 copper 59
- NT1 copper 60
- NT1 copper 61
- NT1 copper 62
- NT1 copper 63
- NT1 copper 64
- NT1 copper 65
- NT1 copper 66
- NT1 copper 67
- NT1 copper 68
- NT1 copper 69
- NT1 copper 70
- NT1 copper 71
- NT1 copper 72
- NT1 copper 73
- NT1 copper 74
- NT1 copper 75
- NT1 copper 76
- NT1 copper 77

NT1 copper 78

NT1 copper 79

**COPPER NITRATES**

- \*BT1 copper compounds
- \*BT1 nitrates

**COPPER NITRIDES**

1989-12-08

- \*BT1 copper compounds
- \*BT1 nitrides

**COPPER ORES**

BT1 ores

**COPPER OXIDE SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-08-04

- \*BT1 solar cells

**COPPER OXIDES**

- \*BT1 copper compounds
- \*BT1 oxides
- RT cuprates
- RT oxide minerals
- RT sengierite

**COPPER PERCHLORATES**

- \*BT1 copper compounds
- \*BT1 perchlorates

**COPPER PHOSPHATES**

- \*BT1 copper compounds
- \*BT1 phosphates
- RT phosphate minerals
- RT torbernite

**COPPER PHOSPHIDES**

1991-09-16

- \*BT1 copper compounds
- \*BT1 phosphides

**COPPER SELENIDE SOLAR CELLS**

INIS: 1992-05-28; ETDE: 1981-07-18

- \*BT1 solar cells

**COPPER SELENIDES**

INIS: 1976-07-08; ETDE: 1975-10-01

- \*BT1 copper compounds
- \*BT1 selenides

**COPPER SILICATES**

1996-11-13

- \*BT1 copper compounds
- \*BT1 silicates

**COPPER SILICIDES**

1977-01-26

- \*BT1 copper compounds
- \*BT1 silicides

**COPPER SULFATES**

1996-07-18

- \*BT1 copper compounds
- \*BT1 sulfates
- RT sulfate minerals

**COPPER SULFIDE SOLAR CELLS**

INIS: 1992-05-28; ETDE: 1981-07-18

- \*BT1 solar cells

**COPPER SULFIDES**

- \*BT1 copper compounds
- \*BT1 sulfides
- RT chalcopyrite
- RT sulfide minerals

**COPPER TELLURIDES**

1978-02-23

- \*BT1 copper compounds
- \*BT1 tellurides

**COPPER TUNGSTATES**

- \*BT1 copper compounds
- \*BT1 tungstates

**copper vapor lasers**

INIS: 1984-04-04; ETDE: 1984-05-10

(Until August 1992, this was indexed by GAS LASERS.)

USE metal vapor lasers

**COPPICES**

INIS: 1993-07-14; ETDE: 1981-10-24

Forests or thickets originating mainly from shoots or root suckers of stumps rather than from seed.

- BT1 forests
- RT biomass plantations
- RT forest litter

**COPRECIPITATION**

- \*BT1 precipitation
- RT coalescence
- RT flocculation

**COPROCESSING**

INIS: 2000-06-27; ETDE: 1988-02-26

Processing coal and petroleum residues together.

- BT1 processing

**CORAL-1 REACTOR**

Uncooled. Junta de Energia Nuclear, Madrid, Spain.

- \*BT1 enriched uranium reactors
- \*BT1 fast reactors
- \*BT1 research reactors
- \*BT1 zero power reactors

**CORALS**

- \*BT1 cnidaria

**CORCHORUS**

- \*BT1 magnoliopsida
- NT1 jute

**cordillera de los andes**

USE andes

**CORDOBA REACTOR**

INIS: 1978-02-23; ETDE: 1978-04-28

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors

**cordova quad cities-1 reactor**

USE quad cities-1 reactor

**cordova quad cities-2 reactor**

USE quad cities-2 reactor

**cordylite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE carbonate minerals
- USE radioactive minerals

**core (earth)**

INIS: 1988-02-02; ETDE: 2002-06-13

USE earth core

**core barrel**

INIS: 2000-04-12; ETDE: 1978-07-05

(Prior to April 1997 CORING EQUIPMENT was used for this concept in ETDE.)

USE drilling equipment

**CORE CATCHERS**

Structures under core for retaining molten debris following meltdown accident.

- BT1 reactor components
- RT corium
- RT meltdown
- RT reactor cores

**CORE FLOODING SYSTEMS**

- \*BT1 eccs
- RT loss of coolant

**core polarization (nuclei)**

INIS: 1984-04-04; ETDE: 2000-11-20

- USE excitation  
USE nuclear cores

**CORE SPRAY SYSTEMS**

- \*BT1 eccs  
RT fog cooled reactors  
RT fog cooling  
RT loss of coolant

**cores (drill)**

- USE drill cores

**cores (magnet)**

- USE magnet cores

**cores (magnetic)**

- USE magnetic cores

**cores (nuclear)**

- USE nuclear cores

**cores (reactor)**

- USE reactor cores

**coring equipment**

INIS: 2000-04-12; ETDE: 1978-07-05

(Prior to April 1997 this was a valid ETDE descriptor.)

- USE drilling equipment

**CORING FLUIDS**

INIS: 2000-04-12; ETDE: 1981-12-14

- RT cuttings removal  
RT drill cores  
RT drilling fluids

**CORIOLIS FORCE**

- RT backbending  
RT rotation

**CORIUM**

INIS: 1977-10-17; ETDE: 1977-06-02

Molten mixture of fuel, cladding and other core structural material resulting from a meltdown accident.

- RT core catchers  
RT meltdown  
RT reactor accidents  
RT reactor cores

**CORK**

- RT bark  
RT wood

**corn (maize)**

- USE maize

**CORN OIL**

- UF maize oil  
\*BT1 triglycerides  
\*BT1 vegetable oils

**corn stover**

INIS: 2000-04-12; ETDE: 1979-04-11

- USE agricultural wastes  
USE maize

**CORNEA**

- \*BT1 eyes

**CORNELL 10-GEV SYNCHROTRON**

- \*BT1 synchrotrons

**cornell electron-positron storage ring**

INIS: 1979-01-18; ETDE: 1979-02-23

- USE cesr storage ring

**CORNELL TRIGA-MK-2 REACTOR**

Cornell, Univ., Ithaca, New York, USA.

- UF triga-2-cornell reactor  
\*BT1 training reactors

- \*BT1 triga type reactors

**cornell university zero power reactor**

1993-11-05

- USE zpr reactor

**corona (solar)**

- USE solar corona

**CORONA COUNTERS**

- \*BT1 radiation detectors  
RT proportional counters  
RT spark counters

**CORONA DISCHARGES**

- BT1 electric discharges  
RT lichtenberg figures

**coronae (stellar)**

INIS: 1984-02-22; ETDE: 2002-06-13

- USE stellar coronae

**CORONARIES**

- \*BT1 arteries  
RT heart  
RT heart failure  
RT myocardial infarction  
RT myocardium

**corporation law**

INIS: 1990-12-15; ETDE: 2002-06-13

(Prior to December 1990, this was a valid descriptor.)

- USE laws

**corps of engineers**

INIS: 2000-04-12; ETDE: 1980-08-25

(Prior to December 1991 this was a valid ETDE descriptor.)

- USE us corps of engineers

**corral canyon nuclear power reactor-1**

2000-04-12

- USE malibu-1 reactor

**CORRECTIONS**

See also REMEDIAL ACTION.

- NT1 coulomb correction  
NT1 radiative corrections  
NT1 rydberg correction  
RT errors  
RT modifications

**CORRELATED-PARTICLE MODELS**

- \*BT1 particle models  
RT correlation functions  
RT multiple production

**correlation energy**

- USE electron correlation

**CORRELATION FUNCTIONS**

- BT1 functions  
RT correlated-particle models  
RT reactor noise

**CORRELATIONS**

- NT1 angular correlation  
NT2 perturbed angular correlation  
NT3 differential pac  
NT3 integral pac  
NT1 electron correlation  
NT1 kramers-kronig correlation  
RT comparative evaluations  
RT multivariate analysis  
RT regression analysis

**CORROSION**

- BT1 chemical reactions  
NT1 crevice corrosion  
NT1 electrochemical corrosion  
NT1 fretting corrosion

- NT1 intergranular corrosion

- NT1 nodular corrosion  
NT1 pitting corrosion  
NT1 stress corrosion  
RT antifoulants  
RT corrosion denting  
RT corrosion fatigue  
RT corrosion pickling  
RT corrosion products  
RT corrosion protection  
RT corrosion resistance  
RT corrosive effects  
RT erosion  
RT failures  
RT fouling  
RT materials testing  
RT oxidation  
RT passivity  
RT scaling  
RT surface properties  
RT thermochemical diagrams  
RT weathering

**CORROSION DENTING**

INIS: 1979-05-28; ETDE: 1979-09-06

UF denting (corrosion)

- BT1 deformation  
RT corrosion  
RT tubes  
RT water chemistry

**CORROSION FATIGUE**

INIS: 1981-07-06; ETDE: 1975-12-16

- \*BT1 fatigue  
RT corrosion

**corrosion inhibition**

- USE corrosion protection

**CORROSION INHIBITORS**

- UF inhibitors (corrosion)  
RT corrosion protection

**CORROSION PICKLING**

- \*BT1 pickling  
RT corrosion

**CORROSION PRODUCTS**

- RT corrosion  
RT electromagnetic filters  
RT oxidation  
RT oxides  
RT scaling

**CORROSION PROTECTION**

- UF anticorrosion  
UF corrosion inhibition  
UF protection (corrosion)  
NT1 anodization  
NT1 cathodic protection  
RT coatings  
RT corrosion  
RT corrosion inhibitors  
RT corrosion resistance  
RT paints  
RT passivation  
RT scale control  
RT surface coating

**CORROSION RESISTANCE**

- RT corrosion  
RT corrosion protection  
RT passivity

**CORROSION RESISTANT ALLOYS**

1996-11-13

- BT1 alloys  
NT1 alloy-co36cr22ni22w15fe3  
NT2 haynes 188 alloy  
NT1 alloy-co54cr20w15ni10  
NT2 alloy-hs-25  
NT2 haynes 25 alloy



**NT1** alloy-co60cr30w4  
**NT2** stellite 6  
**NT1** alloy-fe44ni33cr21  
**NT2** incoloy 800h  
**NT1** alloy-fe46ni33cr21  
**NT2** incoloy 800  
**NT2** incoloy 802  
**NT1** alloy-mo99  
**NT2** alloy-tzm  
**NT2** alloy-zm-2a  
**NT1** alloy-ni41fe40cr16nb3  
**NT2** inconel 706  
**NT1** alloy-ni43fe30cr22mo3  
**NT2** incoloy 825  
**NT1** alloy-ni43fe33cr16mo3  
**NT2** nimonic pel6  
**NT1** alloy-ni45fe34cr20  
**NT1** alloy-ni46cr23co19ti5al4  
**NT2** alloy-in-939  
**NT1** alloy-ni49cr22fe18mo9  
**NT2** hastelloy x  
**NT1** alloy-ni50co20cr15al5mo5  
**NT2** nimonic 105  
**NT1** alloy-ni50cr22fe18mo9  
**NT2** hastelloy xr  
**NT1** alloy-ni50mo32cr15si3  
**NT1** alloy-ni51cr48  
**NT2** inconel 671  
**NT1** alloy-ni53co19cr15mo5al4ti3  
**NT2** udimet 700  
**NT1** alloy-ni53cr19fe19nb5mo3  
**NT2** inconel 718  
**NT1** alloy-ni54cr22co13mo9  
**NT2** inconel 617  
**NT1** alloy-ni54mo17cr16fe6w4  
**NT2** hastelloy c  
**NT1** alloy-ni55cr19co11mo10ti3  
**NT2** rene 41  
**NT1** alloy-ni58cr20co14mo4ti3  
**NT2** waspaloy  
**NT1** alloy-ni59cr20co17ti2  
**NT1** alloy-ni59cr30fe9  
**NT2** inconel 690  
**NT1** alloy-ni60co15cr10al6ti5mo3  
**NT2** alloy-in-100  
**NT1** alloy-ni60fe24cr16  
**NT2** nichrome  
**NT1** alloy-ni61cr16co9al3ti3w3  
**NT2** alloy-in-738  
**NT1** alloy-ni61cr22mo9nb4fe3  
**NT2** inconel 625  
**NT1** alloy-ni62cr16mo15fe3  
**NT2** hastelloy s  
**NT1** alloy-ni65cr25mo10  
**NT2** nimonic 86  
**NT1** alloy-ni65mo28fe5  
**NT2** hastelloy b  
**NT1** alloy-ni70mo17cr7fe5  
**NT2** hastelloy n  
**NT2** inor-8  
**NT1** alloy-ni73cr15fe7ti3  
**NT2** inconel x750  
**NT1** alloy-ni73cr20mn3nb3  
**NT2** inconel 82  
**NT1** alloy-ni74cr13al6mo4  
**NT2** inconel 713c  
**NT1** alloy-ni75cr12al6mo5  
**NT2** inconel 713lc  
**NT1** alloy-ni76cr15fe8  
**NT2** inconel 600  
**NT1** alloy-ni76cr20ti2  
**NT2** nimonic 80a  
**NT1** alloy-ni77cr20ti2  
**NT1** alloy-ra-333  
**NT1** alloy-zr98sn-2  
**NT2** zircaloy 2  
**NT1** alloy-zr98sn-4  
**NT2** zircaloy 4  
**NT1** colmonoy  
**NT1** heusler alloys  
**NT1** incoloy 901  
**NT1** rene 80  
**NT1** rene 95  
**NT1** steel-cd-4mcu  
**NT1** steel-cr11ni10mo2ti-1  
**NT1** steel-cr12  
**NT2** stainless steel-403  
**NT1** steel-cr12moniv  
**NT1** steel-cr12mov  
**NT2** alloy-ht-9  
**NT1** steel-cr13  
**NT2** stainless steel-410  
**NT1** steel-cr13al  
**NT2** stainless steel-405  
**NT1** steel-cr15ni15motib  
**NT1** steel-cr16  
**NT2** stainless steel-430  
**NT1** steel-cr16ni  
**NT1** steel-cr16ni13monbv  
**NT1** steel-cr16ni15mo3nb  
**NT1** steel-cr16ni16monb  
**NT1** steel-cr16ni8mo2  
**NT2** stainless steel-16-8-2  
**NT1** steel-cr17cu4ni4nb-1  
**NT2** stainless steel-17-4ph  
**NT1** steel-cr17mo  
**NT2** stainless steel-440  
**NT1** steel-cr17ni12mo3  
**NT2** stainless steel-316  
**NT1** steel-cr17ni12mo3-1  
**NT2** stainless steel-316l  
**NT2** stainless steel-zcnd17-13  
**NT1** steel-cr17ni12monb  
**NT1** steel-cr17ni13  
**NT1** steel-cr17ni13mo2ti  
**NT1** steel-cr17ni13mo3ti  
**NT1** steel-cr17ni4mo3  
**NT1** steel-cr17ni7  
**NT2** stainless steel-301  
**NT1** steel-cr18  
**NT1** steel-cr18ni10  
**NT2** stainless steel-18-10  
**NT1** steel-cr18ni10-1  
**NT1** steel-cr18ni10ti  
**NT2** stainless steel-321  
**NT1** steel-cr18ni11  
**NT2** steel-x6crni1811  
**NT1** steel-cr18ni11nb  
**NT2** stainless steel-347  
**NT1** steel-cr18ni11nbco  
**NT2** stainless steel-348  
**NT1** steel-cr18ni12  
**NT2** stainless steel-305  
**NT1** steel-cr18ni12ti  
**NT1** steel-cr18ni8  
**NT2** stainless steel-18-8  
**NT1** steel-cr18ni9  
**NT2** stainless steel-302  
**NT1** steel-cr18ni9ti  
**NT1** steel-cr19ni10  
**NT2** stainless steel-304  
**NT1** steel-cr19ni10-1  
**NT2** stainless steel-304l  
**NT1** steel-cr20ni11  
**NT2** stainless steel-308  
**NT1** steel-cr20ni11-1  
**NT2** stainless steel-308l  
**NT1** steel-cr21mn9ni6  
**NT2** stainless steel-21-6-9  
**NT1** steel-cr23ni14  
**NT2** stainless steel-309  
**NT2** stainless steel-309s  
**NT1** steel-cr23ni18  
**NT1** steel-cr25  
**NT2** stainless steel-446  
**NT1** steel-cr25ni20  
**NT2** alloy-hk-40  
**NT2** stainless steel-310

**NT1** steel-ni25cr20  
**NT2** stainless steel-20-25  
**NT1** steel-ni26cr15ti2movalb  
**NT2** alloy-a-286  
**NT1** steel-ni36cr12ti3al-1  
**NT1** tribaloy 800  
*RT* austenitic steels  
*RT* ferritic steels  
*RT* hastelloys  
*RT* stainless steels

**CORROSIVE EFFECTS**

1992-03-12

*RT* corrosion**cortex (adrenal)**

USE adrenal glands

**cortex (cerebral)**

USE cerebral cortex

**corticoids**

USE corticosteroids

**CORTICOSTEROIDS***UF* corticoids

\*BT1 adrenal hormones

\*BT1 hydroxy compounds

\*BT1 ketones

\*BT1 pregnanes

\*BT1 steroid hormones

**NT1** glucocorticoids**NT2** corticosterone**NT2** cortisone**NT2** dexamethasone**NT2** hydrocortisone**NT2** prednisolone**NT2** prednisone**NT1** mineralocorticoids**NT2** aldosterone*RT* acth*RT* androgens*RT* cushing syndrome**CORTICOSTERONE**

\*BT1 glucocorticoids

**cortisol**

USE hydrocortisone

**CORTISONE**

\*BT1 glucocorticoids

**CORUNDUM**

\*BT1 oxide minerals

**NT1** ruby**NT1** sapphire*RT* aluminium oxides**CORVUSITE**

2000-04-12

\*BT1 oxide minerals

\*BT1 radioactive minerals

*RT* vanadium oxides**CORYNEBACTERIUM FASCIANS***INIS: 1993-07-14; ETDE: 1983-05-21*

\*BT1 bacteria

*RT* microbial eor**CORYNEBACTERIUM PARVUM***INIS: 1978-09-28; ETDE: 1978-06-14*

\*BT1 bacteria

*RT* immunotherapy**cosmetics***INIS: 1984-04-04; ETDE: 1984-05-10*

USE consumer products

**COSMIC ALPHA PARTICLES**

1983-03-14

(Prior to March 1983 this concept was indexed by coordination of COSMIC RADIATION and ALPHA PARTICLES.)

- \*BT1 alpha particles
- \*BT1 primary cosmic radiation

**COSMIC DUST**

- BT1 dusts
- RT interstellar grains
- RT interstellar space
- RT nebulae
- RT star accretion

**COSMIC ELECTRONS**

INIS: 1983-03-14; ETDE: 1975-07-29

(Prior to March 1983 this concept was indexed by coordination of COSMIC RADIATION and ELECTRONS.)

- \*BT1 electrons
- \*BT1 secondary cosmic radiation

**COSMIC GAMMA BURSTS**

- \*BT1 primary cosmic radiation
- RT cosmic gamma sources
- RT cosmic x-ray bursts

**cosmic gamma rays**

INIS: 2000-04-12; ETDE: 1979-02-23

- USE cosmic photons

**COSMIC GAMMA SOURCES**

- BT1 cosmic ray sources
- RT cosmic gamma bursts
- RT cosmic photons
- RT gamma astronomy
- RT gamma radiation
- RT primary cosmic radiation

**COSMIC GASES**

- \*BT1 gases
- RT interstellar grains
- RT interstellar space
- RT nebulae
- RT optical depth curve
- RT spectroscopic curve of growth

**COSMIC KAONS**

INIS: 1985-12-10; ETDE: 1975-07-29

(Prior to July 1975 KAONS was used for this concept in ETDE.)

- \*BT1 kaons
- \*BT1 secondary cosmic radiation

**cosmic microwave background**

2003-05-30

- USE relict radiation

**COSMIC MUONS**

INIS: 1983-03-14; ETDE: 1975-07-29

(Prior to March 1983 this concept was indexed by coordination of COSMIC RADIATION and MUONS.)

- \*BT1 muons
- \*BT1 secondary cosmic radiation

**COSMIC NEUTRINOS**

INIS: 1983-03-14; ETDE: 1975-07-29

(Prior to July 1975 NEUTRINOS was used for this concept in ETDE.)

- \*BT1 cosmic radiation
- \*BT1 neutrinos

**COSMIC NEUTRONS**

INIS: 1983-03-14; ETDE: 1975-07-29

(Prior to March 1983 this concept was indexed by coordination of COSMIC RADIATION and NEUTRONS.)

- \*BT1 neutrons
- \*BT1 secondary cosmic radiation

**cosmic noise**

- USE radio noise

**COSMIC NUCLEI**

INIS: 1983-03-14; ETDE: 1975-07-29

(Prior to March 1983 this concept was indexed by coordination of COSMIC RADIATION and NUCLEI.)

- BT1 nuclei
- \*BT1 primary cosmic radiation

**cosmic particles**

- USE cosmic radiation

**COSMIC PHOTONS**

INIS: 1983-03-14; ETDE: 1975-07-29

(Prior to July 1975 PHOTONS was used for this concept in ETDE.)

- UF cosmic gamma rays
- UF cosmic x rays
- \*BT1 cosmic radiation
- \*BT1 photons
- RT cosmic gamma sources
- RT cosmic x-ray sources
- RT x-ray galaxies

**COSMIC PIONS**

INIS: 1983-03-14; ETDE: 1975-07-29

(Prior to July 1975 PIONS was used for this concept in ETDE.)

- \*BT1 pions
- \*BT1 secondary cosmic radiation

**COSMIC POSITRONS**

INIS: 1983-03-14; ETDE: 1975-07-29

(Prior to March 1983 this concept was indexed by coordination of COSMIC RADIATION and POSITRONS.)

- \*BT1 positrons
- \*BT1 secondary cosmic radiation

**COSMIC PROTONS**

INIS: 1983-03-14; ETDE: 1975-07-29

(Prior to July 1975 PROTONS was used for this concept in ETDE.)

- \*BT1 cosmic radiation
- \*BT1 protons

**COSMIC RADIATION**

1996-07-08

Not for radiation from the sun for which see SOLAR RADIATION.

- UF cosmic particles
- SF positive excess
- \*BT1 ionizing radiations
- NT1 cosmic neutrinos
- NT1 cosmic photons
- NT1 cosmic protons
- NT1 hard component
- NT1 primary cosmic radiation
- NT2 cosmic alpha particles
- NT2 cosmic gamma bursts
- NT2 cosmic nuclei
- NT2 cosmic x-ray bursts
- NT1 secondary cosmic radiation
- NT2 cosmic electrons
- NT2 cosmic kaons
- NT2 cosmic muons
- NT2 cosmic neutrons
- NT2 cosmic pions
- NT2 cosmic positrons
- NT2 cosmic showers
- NT3 extensive air showers
- NT1 soft component
- RT background radiation
- RT centauro-type events
- RT cosmic radio sources
- RT cosmic ray detection
- RT cosmic ray flux
- RT cosmic ray propagation
- RT cosmic x-ray sources

- RT east-west asymmetry
- RT forbush decrease
- RT gamma astronomy
- RT north-south asymmetry
- RT relict radiation
- RT solar radiation
- RT space flight
- RT stellar activity
- RT stellar radiation
- RT supersonic transport
- RT threshold rigidity
- RT x-ray galaxies

**COSMIC RADIO SOURCES**

- NT1 bl lacertae objects
- NT1 h1 regions
- NT1 h2 regions
- NT1 pulsars
- NT1 quasars
- NT2 blue stellar objects
- NT1 radio galaxies
- NT1 supernova remnants
- NT2 crab nebula
- RT cosmic radiation
- RT cosmic ray sources
- RT markarian galaxies
- RT radioastronomy
- RT radiowave radiation

**COSMIC RAY DETECTION**

- \*BT1 radiation detection
- RT charged particle detection
- RT cosmic radiation
- RT cosmic ray spectrometers
- RT muon detection
- RT radiation detectors
- RT shower counters
- RT telescope counters

**COSMIC RAY FLUX**

- UF flux (cosmic ray)
- BT1 radiation flux
- RT cosmic radiation
- RT cosmic ray propagation

**COSMIC RAY PROPAGATION**

- RT cosmic radiation
- RT cosmic ray flux

**COSMIC RAY SOURCES**

- NT1 cosmic gamma sources
- NT1 cosmic x-ray sources
- NT2 cosmic x-ray bursts
- NT2 x-ray galaxies
- RT cosmic radio sources
- RT primary cosmic radiation

**COSMIC RAY SPECTROMETERS**

- \*BT1 spectrometers
- RT cosmic ray detection

**COSMIC SHOWERS**

- \*BT1 secondary cosmic radiation
- BT1 showers
- NT1 extensive air showers
- RT cascade showers
- RT centauro-type events

**COSMIC X-RAY BURSTS**

INIS: 1983-02-04; ETDE: 1981-03-17

- \*BT1 cosmic x-ray sources
- \*BT1 primary cosmic radiation
- RT cosmic gamma bursts
- RT x radiation

**COSMIC X-RAY SOURCES**

- BT1 cosmic ray sources
- NT1 cosmic x-ray bursts
- NT1 x-ray galaxies
- RT accretion disks
- RT cosmic photons
- RT cosmic radiation

RT gamma astronomy  
RT x radiation

**cosmic x rays**

INIS: 2000-04-12; ETDE: 1979-02-23  
USE cosmic photons

**COSMIDS**

INIS: 2000-04-12; ETDE: 1988-04-15  
DNA-cloning vectors constructed of both plasmid sequences and phage factors.  
RT bacteriophages  
RT dna-cloning

**COSMOCHEMISTRY**

BT1 chemistry  
RT chemical composition  
RT element abundance  
RT nucleosynthesis

**cosmogony**

USE cosmology

**COSMOLOGICAL CONSTANT**

INIS: 1984-04-04; ETDE: 1984-05-08  
Multiplicative constant for a term proportional to the metric in Einstein's equation relating the curvature of space to the energy-momentum tensor.  
RT einstein field equations  
RT general relativity theory  
RT space-time

**COSMOLOGICAL MODELS**

UF einstein-de sitter model  
UF models (cosmological)  
BT1 mathematical models  
NT1 inflationary universe  
RT expansion  
RT galactic evolution  
RT general relativity theory  
RT planet-system accretion  
RT protoplanets  
RT protostars  
RT solar nebula  
RT star accretion  
RT universe

**COSMOLOGY**

UF cosmogony  
NT1 dirac cosmology  
RT astrophysics  
RT fundamental constants  
RT galactic evolution  
RT general relativity theory  
RT hubble effect  
RT mach principle  
RT matter  
RT origin  
RT red shift  
RT schwarzschild metric  
RT space-time  
RT star evolution  
RT universe  
RT white holes

**cosmos**

USE universe

**COSMOTRON**

\*BT1 synchrotrons

**COSO HOT SPRINGS**

INIS: 1992-06-04; ETDE: 1979-07-18  
\*BT1 california

**cosorb process**

INIS: 2000-04-12; ETDE: 1975-09-11  
Process for the separation of CO from gaseous mixtures by selective adsorption in unique solvent.  
(Prior to February 1995, this was a valid ETDE descriptor.)  
USE carbon monoxide  
USE solvent extraction

**COST**

UF excess costs  
SF values  
NT1 capitalized cost  
NT1 cost overruns  
NT1 external cost  
NT1 life-cycle cost  
NT1 operating cost  
RT budgets  
RT capital  
RT charges  
RT cost benefit analysis  
RT cost estimation  
RT cost recovery  
RT economics  
RT energy expenses  
RT expenditures  
RT financing  
RT fuel cycle  
RT inflation  
RT investment  
RT nuclear materials management  
RT payback period  
RT present worth method  
RT prices  
RT procurement

**COST BENEFIT ANALYSIS**

\*BT1 economic analysis  
RT comparative evaluations  
RT cost  
RT cost estimation  
RT cost overruns  
RT external cost  
RT life-cycle cost  
RT technology impacts

**COST ESTIMATION**

INIS: 1985-12-10; ETDE: 1982-08-11  
UF appraisal  
RT cost  
RT cost benefit analysis  
RT forecasting  
RT life-cycle cost

**COST OVERRUNS**

INIS: 1985-12-10; ETDE: 1983-03-24  
BT1 cost  
RT charges  
RT cost benefit analysis  
RT procurement

**COST RECOVERY**

INIS: 1992-04-09; ETDE: 1983-03-23  
UF reimbursement  
RT charges  
RT cost  
RT financing

**COSTA RICA**

\*BT1 central america  
BT1 developing countries

**COSTEAM PROCESS**

2000-04-12  
A process involving the pumping of a slurry consisting of pulverized coal in lignite-derived oil and a stream of carbon monoxide and/or synthesis gas into a stirred reactor at 400 degrees-450 degrees C and 4, 000 psig.  
\*BT1 coal liquefaction

**COSTER-KRONIG TRANSITIONS**

BT1 auger effect  
BT1 energy-level transitions

**COSY STORAGE RING**

INIS: 1992-04-16; ETDE: 1992-08-12  
Cooled synchrotron storage ring at KFZ Juelich, Federal Republic of Germany.  
UF juelich storage ring  
BT1 storage rings  
\*BT1 synchrotrons

**COTE D'IVOIRE**

INIS: 1997-01-07; ETDE: 1996-12-24  
(Until January 1997 this concept was indexed to IVORY COAST.)  
UF ivory coast  
BT1 africa  
BT1 developing countries

**COTTON**

RT cotton plants  
RT fibers  
RT textiles

**cotton-mouton effect**

USE voigt effect

**COTTON PLANTS**

\*BT1 magnoliopsida  
RT boll weevil  
RT bollworm  
RT cotton  
RT cottonseed oil

**COTTONSEED OIL**

INIS: 1981-08-06; ETDE: 1980-09-22  
\*BT1 vegetable oils  
RT cotton plants

**COTTONWOODS**

INIS: 1992-01-10; ETDE: 1979-03-27  
\*BT1 poplars  
RT aspens

**COUETTE FLOW**

\*BT1 viscous flow

**coulomb attraction**

USE coulomb field

**coulomb barrier**

USE coulomb field

**COULOMB CORRECTION**

BT1 corrections  
RT electromagnetic interactions

**COULOMB ENERGY**

BT1 energy  
RT binding energy  
RT nolen-schiffner anomaly

**COULOMB EXCITATION**

\*BT1 excitation  
RT coulomb scattering

**COULOMB FIELD**

UF coulomb attraction  
UF coulomb barrier  
UF coulomb potential  
UF coulomb repulsion  
BT1 electric fields  
RT central potential  
RT coulomb ionization  
RT nuclear screening  
RT ponderomotive force

**COULOMB IONIZATION**

INIS: 1977-09-15; ETDE: 1977-11-10  
Ionization produced by Coulomb forces between a projectile and the target.  
BT1 ionization

*RT* coulomb field  
*RT* inner-shell ionization

**coulomb potential**

USE coulomb field

**coulomb repulsion**

USE coulomb field

**COULOMB SCATTERING**

\*BT1 elastic scattering  
 \*BT1 electromagnetic interactions  
*RT* coulomb excitation  
*RT* electron cooling  
*RT* potential scattering

**coulometry**

USE voltametry

**COUMARIN**

*SF* coumarins  
 \*BT1 anticoagulants  
 \*BT1 lactones  
 \*BT1 pyrans  
*RT* psoralen

**coumarins**

*INIS*: 2000-04-12; *ETDE*: 1981-04-20  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 SEE anticoagulants  
 SEE coumarin

**council for mutual economic assistance**

1993-11-05  
 USE comecon

**council on environmental quality**

*INIS*: 2000-04-12; *ETDE*: 1981-03-17  
 USE us ceq

**COUNTER CURRENT**

*RT* chromatography  
*RT* counterflow systems  
*RT* solvent extraction

**counterflow cooling towers**

1985-12-10  
 USE cooling towers  
 USE counterflow systems

**COUNTERFLOW SYSTEMS**

1985-12-10  
*UF* counterflow cooling towers  
*RT* cooling towers  
*RT* counter current  
*RT* evaporators  
*RT* hydrodynamics  
*RT* vapor condensers

**counters (radiation)**

USE radiation detectors

**COUNTING CIRCUITS**

BT1 electronic circuits  
*RT* counting ratemeters  
*RT* counting tubes  
*RT* pulse circuits  
*RT* pulse techniques  
*RT* radiation detection  
*RT* radiation detectors  
*RT* scalars  
*RT* switching circuits

**COUNTING RATEMETERS**

*UF* ratemeters (counting)  
 \*BT1 electronic equipment  
 NT1 linear ratemeters  
 NT1 logarithmic ratemeters  
*RT* counting circuits  
*RT* counting rates

*RT* exposure ratemeters  
*RT* pulse integrators  
*RT* pulse techniques

**COUNTING RATES**

*RT* counting ratemeters

**COUNTING TECHNIQUES**

NT1 absolute counting  
 NT1 charge plunger method  
 NT1 cherenkov counting  
 NT1 coincidence methods  
 NT2 coincidence spectrometry  
 NT2 tagged photon method  
 NT1 dsa method  
 NT1 four-pi counting  
 NT1 low level counting  
 NT1 photoelectron counting  
 NT1 radioisotope scanning  
 NT2 scintiscanning  
 NT3 radioimmunoscintigraphy  
 NT1 scintillation counting  
 NT1 sequential scanning  
 NT1 whole-body counting  
*RT* activity meters  
*RT* anticoincidence  
*RT* electronic circuits  
*RT* electronic equipment  
*RT* hodoscopes  
*RT* position sensitive detectors  
*RT* pulse techniques  
*RT* radiation detectors  
*RT* radioassay  
*RT* recording systems  
*RT* telescope counters

**COUNTING TUBES**

*UF* dekatrons  
*UF* trochotrons  
 BT1 electron tubes  
*RT* counting circuits  
*RT* pulse techniques  
*RT* scalars

**county buildings**

*INIS*: 2000-04-12; *ETDE*: 1981-01-09  
 USE public buildings

**couple corrosion**

USE electrochemical corrosion

**COUPLED CHANNEL BORN APPROXIMATION**

*UF* ccba  
 \*BT1 born approximation  
*RT* coupled channel theory  
*RT* nuclear reaction kinetics  
*RT* nuclear reactions  
*RT* scattering

**COUPLED CHANNEL THEORY**

*RT* collisions  
*RT* coupled channel born approximation  
*RT* nuclear reactions

**coupled fast reactor measurement facility**

1993-11-05  
 USE cfrmf reactor

**COUPLED REACTOR CORES**

\*BT1 reactor cores

**COUPLING**

*Not for the concept covered by JOINING.*

NT1 electron-electron coupling  
 NT1 electron-hole coupling  
 NT1 electron-ion coupling  
 NT1 electron-phonon coupling  
 NT1 intermediate coupling  
 NT2 j-j coupling  
 NT2 l-s coupling

NT1 pseudovector coupling  
 NT1 ruderman-kittel coupling  
*RT* aligned coupling scheme  
*RT* bootstrap model  
*RT* bound state  
*RT* coupling constants  
*RT* decoupling  
*RT* goldberger-treiman relation  
*RT* impulse approximation  
*RT* interactions  
*RT* particle-core coupling model  
*RT* quasibound state  
*RT* strong-coupling model  
*RT* weak-coupling model

**COUPLING CONSTANTS**

*RT* coupling

**COUPLINGS**

*INIS*: 1996-04-22; *ETDE*: 1976-09-28  
 (Until April 1996 this concept was indexed to MACHINE PARTS.)  
*RT* fasteners  
*RT* joining

**couplings (machine parts)**

*INIS*: 2000-04-12; *ETDE*: 1984-05-10  
 USE machine parts

**court buildings**

*INIS*: 2000-04-12; *ETDE*: 1981-01-09  
 USE public buildings

**COURTS**

*INIS*: 1976-12-08; *ETDE*: 1977-06-24  
*RT* dispute settlements  
*RT* hearings  
*RT* lawsuits

**COVALENCE**

*UF* covalency  
*RT* binding energy

**covalency**

USE covalence

**COVER GAS**

*The inert gas blanket over the liquid metal in a liquid metal cooled reactor.*

\*BT1 gases  
 \*BT1 inert atmosphere

**COVERINGS**

1999-05-27  
*UF* casings  
*RT* coatings  
*RT* containers  
*RT* double glazing  
*RT* glazing materials  
*RT* masking  
*RT* shells  
*RT* shutters  
*RT* tubes

**cow-milkers**

USE radioisotope generators

**cowboy event**

1997-01-28  
 (Prior to February 1996 this was a valid ETDE descriptor.)  
 USE chemical explosions  
 USE vela project

**cowpea plants**

*INIS*: 1992-05-07; *ETDE*: 2002-06-13  
 USE vigna

**COWS**

\*BT1 cattle  
*RT* milk

**COYOTES**

INIS: 1993-02-18; ETDE: 1981-04-17

UF *canis latrans*

\*BT1 mammals

RT foxes

RT wild animals

RT wolves

**cp-11 reactor**

USE argonaut reactor

**CP-2 REACTOR**

ANL, Argonne, Illinois, USA. Shut down in 1954.

UF *chicago pile-2 reactor*

\*BT1 graphite moderated reactors

\*BT1 materials testing reactors

\*BT1 natural uranium reactors

\*BT1 research reactors

\*BT1 thermal reactors

**cp-3' reactor**

2000-04-12

USE cp-3m reactor

**CP-3 REACTOR**

ANL, Argonne, Illinois, USA. Shut down in 1963.

UF *argonne heavy water reactor*

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 natural uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

**CP-3M REACTOR**

2000-04-12

ANL, Argonne, Illinois, USA.

UF *argonne heavy water modified reactor*

UF *cp-3' reactor*

\*BT1 enriched uranium reactors

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

**CP-5 REACTOR**

ANL, Argonne, Illinois, USA. Shut down in 1979.

UF *argonne research reactor*

\*BT1 enriched uranium reactors

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

**CP-6 REACTOR**

2000-04-12

ANL, Argonne, Illinois, USA.

UF *ahfr reactor*

UF *argonne advanced research reactor*

UF *argonne high flux reactor*

\*BT1 pool type reactors

\*BT1 research reactors

**CP INVARIANCE**

BT1 invariance principles

RT kobayashi-maskawa matrix

**CPB**

UF *competitive protein binding*

\*BT1 biochemical reaction kinetics

RT antigen-antibody reactions

RT enzyme immunoassay

RT pbi

RT proteins

RT radioimmunoassay

RT radiopharmaceuticals

**cpdta**

1996-07-18

*Cyclopentanediaminetetraacetic acid.*

(Until July 1996 this was a valid descriptor.)

USE amino acids

USE chelating agents

**cpm**

INIS: 1985-10-23; ETDE: 2002-06-13

*Critical Path Method.*

USE pert method

**CPPNM**

INIS: 1985-06-10; ETDE: 1990-11-26

*Convention on the Physical Protection of Nuclear Materials.*

UF *convention on physical protection of nuclear material*

UF *convention on the physical protection of nuclear materials*

UF *nuclear materials, convention on physical protection*

UF *physical protection of nuclear material, convention*

\*BT1 international agreements

RT nuclear materials diversion

RT nuclear materials management

RT physical protection

**cpr**

INIS: 2000-04-12; ETDE: 1983-04-07

USE first aid

**CPT THEOREM**

BT1 invariance principles

**cpu-400 combustion plant**

INIS: 2000-04-12; ETDE: 1976-01-23

(Prior to February 1995, this was a valid ETDE descriptor.)

USE waste processing plants

**CRAB NEBULA**

BT1 nebulae

\*BT1 supernova remnants

RT pulsars

**CRABS**

INIS: 1993-07-14; ETDE: 1981-06-15

\*BT1 decapods

RT seafood

**crack growth**

INIS: 1980-09-12; ETDE: 1980-10-07

USE crack propagation

**CRACK PROPAGATION**

INIS: 1980-09-12; ETDE: 1980-10-07

UF *crack growth*

SF *failure propagation*

RT brittleness

RT cracks

RT fatigue

RT fracture mechanics

RT fractures

RT stress intensity factors

**CRACKING**

1998-01-28

\*BT1 pyrolysis

NT1 catalytic cracking

NT1 hydrocracking

NT1 thermal cracking

RT petrochemistry

**CRACKS**

RT ceramography

RT crack propagation

RT defects

RT fracture mechanics

RT fracture properties

RT fractures

RT geologic fissures

RT geologic fractures

RT hydraulic fractures

RT notches

RT stress intensity factors

RT thermal fractures

**CRACOW AIC-144 CYCLOTRON**

INIS: 1982-07-22; ETDE: 1982-08-11

UF *aic-144 cyclotron*

\*BT1 isochronous cyclotrons

**cracow c-48 cyclotron**

INIS: 1996-07-18; ETDE: 1979-02-23

(Until July 1996 this was a valid descriptor.)

USE isochronous cyclotrons

**CRACOW U-120 CYCLOTRON**

INIS: 1979-04-27; ETDE: 1979-05-25

\*BT1 cyclotrons

\*BT1 heavy ion accelerators

**CRAFTSMEN**

INIS: 1996-05-15; ETDE: 1978-08-07

UF *artisans*

BT1 personnel

RT builders

RT occupations

**CRANES**

\*BT1 remote handling equipment

RT hoists

RT materials handling

**CRANKING MODEL**

\*BT1 nuclear models

RT deformed nuclei

RT governor model

**CRATERING EXPLOSIONS**

1996-07-23

UF *cabriolet event*

UF *danny boy event*

UF *palanquin event*

UF *schooner event*

BT1 explosions

NT1 sedan event

RT chemical explosions

RT craters

RT mining

RT nuclear excavation

RT nuclear explosions

RT plowshare project

RT surface explosions

RT surface mining

RT underground explosions

RT underground mining

**CRATERS**

BT1 cavities

RT cratering explosions

RT excavation

RT openings

RT surface explosions

RT underground explosions

**CRAY COMPUTERS**

INIS: 1980-04-02; ETDE: 1977-07-23

BT1 computers

RT supercomputers

**crbr reactor**

INIS: 1977-04-07; ETDE: 2002-06-13

USE clinch river breeder reactor

**cre**

USE cumulative radiation effects

**CREATINE**

- \*BT1 amino acids
- RT creatinine
- RT guanidines
- RT phosphocreatine

**CREATININE**

- \*BT1 imidazoles
- \*BT1 imines
- RT creatine

**CREATION OPERATORS**

- \*BT1 quantum operators
- RT second quantization
- RT vacuum states

**credit accounts**

INIS: 2000-04-12; ETDE: 1983-05-21  
(Prior to March 1996 this was a valid ETDE descriptor.)  
SEE financing

**credit cards**

INIS: 2000-04-12; ETDE: 1979-11-23  
(Prior to February 1995, this was a valid ETDE descriptor.)  
SEE financing

**credits**

INIS: 2000-04-12; ETDE: 1979-12-10  
SEE financial data

**creeks**

- USE streams

**CREEP**

- BT1 mechanical properties
- RT plasticity
- RT ratcheting
- RT stress relaxation

**CREOSOTE**

INIS: 1991-10-08; ETDE: 1980-01-24  
*A yellowish oily liquid containing a mixture of phenolic compounds obtained by distillation of coal or wood tars.*  
RT coal tar  
RT cresols  
RT preservatives  
RT wood

**CREPIS**

- \*BT1 magnoliopsida

**eresap process**

INIS: 2000-04-12; ETDE: 1979-11-07  
SEE coal liquefaction

**CRESOLS**

- UF cresylic acid
- UF hydroxytoluenes
- UF methyl phenols
- \*BT1 phenols
- RT creosote

**cresylic acid**

- USE cresols

**CRETACEOUS PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19  
\*BT1 mesozoic era

**CREVICE CORROSION**

1980-11-07  
\*BT1 corrosion

**creys-malville reactor**

INIS: 1977-03-01; ETDE: 2002-06-13  
USE super phenix reactor

**CRG PROCESSES**

INIS: 2000-04-12; ETDE: 1976-03-22  
UF british gas corporation process

- UF catalytic rich gas process
- RT high btu gas
- RT synthetic fuels

**cricketulus**

- USE hamsters

**CRIME**

INIS: 1993-02-18; ETDE: 1983-05-21

- NT1 fraud
- NT1 theft
- RT crime detection
- RT criminology

**CRIME DETECTION**

- UF forensic science
- BT1 detection
- RT activation analysis
- RT chemical analysis
- RT crime
- RT criminology
- RT tracer techniques

**CRIMEA**

INIS: 2000-04-12; ETDE: 1978-07-05  
\*BT1 ukraine

**CRIMINOLOGY**

INIS: 2000-04-12; ETDE: 1976-11-17  
RT crime  
RT crime detection

**CRISTOBALITE**

*A mineral like quartz present in many siliceous volcanic rocks.*

- \*BT1 oxide minerals
- \*BT1 silicate minerals
- RT quartz
- RT silicon oxides

**critical assemblies**

- USE zero power reactors

**CRITICAL CURRENT**

- \*BT1 electric currents
- RT superconductivity

**critical experiments facility oak ridge**

1993-11-05  
USE or-cef reactor

**CRITICAL FIELD**

- BT1 magnetic fields
- RT superconductivity

**CRITICAL FLOW**

*Fluid flow at a critical velocity, e.g. flow at the point at which it changes from laminar to turbulent.*

- BT1 fluid flow
- RT critical velocity
- RT laminar flow
- RT turbulent flow

**CRITICAL FREQUENCY**

1982-10-29  
*The frequency below which radiation emitted at any angle from an antenna on the earth is reflected back.*  
RT ionosphere  
RT radiowave radiation

**critical group (icrp)**

INIS: 1984-04-04; ETDE: 1984-05-10  
*Out of a general population, the group of persons most highly exposed to radiation by virtue of their occupations, diets, habits, etc.*  
USE icrp critical group

**critical heat flow**

- USE departure nucleate boiling

**CRITICAL HEAT FLUX**

- BT1 heat flux
- RT heat transfer

**CRITICAL MASS**

- BT1 mass
- RT criticality
- RT reflector savings

**critical mass laboratory pnl**

- USE cml reactor

**CRITICAL ORGANS**

- \*BT1 organs
- RT annual limit of intake
- RT internal irradiation
- RT nonuniform irradiation
- RT radiation doses
- RT radionuclide kinetics
- RT retention

**critical path method**

- USE pert method

**CRITICAL PRESSURE**

- UF pressure (critical)
- \*BT1 thermodynamic properties
- RT supercritical state

**CRITICAL SIZE**

- BT1 size
- RT criticality
- RT reflector savings

**CRITICAL TEMPERATURE**

*For superconducting transition use TRANSITION TEMPERATURE.*

- \*BT1 transition temperature
- RT heat treatments
- RT phase diagrams
- RT phase transformations
- RT supercritical state

**CRITICAL VELOCITY**

- BT1 velocity
- RT critical flow

**CRITICALITY**

- UF criticality accidents
- UF subcriticality
- RT buckling
- RT chain reactions
- RT critical mass
- RT critical size
- RT fission
- RT multiplication factors
- RT natural nuclear reactors
- RT oklo phenomenon
- RT reactor kinetics
- RT reactor safety
- RT reactors
- RT reflector savings
- RT response matrix method

**criticality accidents**

- USE criticality
- USE radiation accidents

**CRNL MP TANDEM ACCELERATOR**

INIS: 1976-06-23; ETDE: 1976-08-24

- UF mp tandem accelerator
- \*BT1 tandem electrostatic accelerators
- \*BT1 van de graaff accelerators

**CRNL SUPERCONDUCTING CYCLOTRON**

INIS: 1982-09-21; ETDE: 1982-10-20

- UF chalk river cyclotron
- UF chalk river superconducting cyclotron
- \*BT1 heavy ion accelerators
- \*BT1 isochronous cyclotrons

**CROATIA**

1993-01-14

SF yugoslavia

\*BT1 eastern europe

RT alps

**CROATIAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**crocar**

2000-04-12

USE chromium steels

**CROCUS REACTOR**Atomic Engineering Lab. of the Lausanne  
Federal Polytechnic School, Lausanne,  
Switzerland.

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 zero power reactors

**CROLOY**

1996-07-23

For unspecified Croloy alloys.

\*BT1 steels

NT1 steel-cr13

NT2 stainless steel-410

NT1 steel-cr16

NT2 stainless steel-430

NT1 steel-cr18ni10

NT2 stainless steel-18-10

NT1 steel-cr2mo

NT2 steel-astm-a542

NT1 steel-cr5mo

**croloy 12**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-cr13

**croloy 18**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-cr16

**croloy 2**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-cr2mo

**croloy 299**

INIS: 1996-07-23; ETDE: 1997-03-17

USE stainless steels

**croloy 3035**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-cr18ni10

**croloy 5**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-cr5mo

**cropping systems**

INIS: 1981-08-31; ETDE: 1981-09-22

USE cultivation techniques

**CROPS**

RT agriculture

RT biomass plantations

RT cereals

RT cultivation

RT cultivation techniques

RT food

RT fruits

RT ground cover

RT harvesting

RT hydroponic culture

RT soil conservation

RT sugar cane

RT tobacco

RT vegetables

RT vernalization

**CROSS-LINKING**

\*BT1 polymerization

RT radiation curing

**cross-ridge mining**

INIS: 2000-04-12; ETDE: 1978-07-05

Mining beginning and progressing  
perpendicularly to the long axis of a mountain  
ridge.

(Prior to February 1995, this was a valid

ETDE descriptor.)

USE surface mining

**CROSS SECTIONS**Whenever appropriate see the more specific  
descriptors listed below.

NT1 differential cross sections

NT2 excitation functions

NT1 group constants

NT1 integral cross sections

NT1 total cross sections

RT breit-wigner formula

RT cinda

RT detailed balance principle

RT four momentum transfer

RT giant resonance

RT giant resonance model

RT intermediate resonance

RT intermediate structure

RT mean free path

RT multilevel analysis

RT nuclear reactions

RT peierls method

RT reciprocal v law

RT rosenbluth formula

RT shadow effect

RT transfer matrix method

**crossed beams**

INIS: 2000-04-12; ETDE: 1978-11-14

USE colliding beams

**CROSSED FIELDS**

UF fields (crossed)

RT electric fields

RT magnetic fields

**crossflow cooling towers**

1985-12-10

USE cooling towers

USE crossflow systems

**CROSSFLOW SYSTEMS**

1985-12-10

UF crossflow cooling towers

RT cooling towers

RT evaporators

RT hydrodynamics

RT vapor condensers

**CROSSING-OVER**

RT chromosomes

RT gene recombination

RT gene recombination proteins

RT meiosis

RT mitosis

RT recombinant dna

**CROSSING SYMMETRY**

BT1 symmetry

RT scattering amplitudes

**CROSSROADS PROJECT**

1999-05-19

UF project crossroads

\*BT1 nuclear explosions

RT atmospheric explosions

RT underwater explosions

**CROSSTIE OPERATION**

INIS: 2000-04-12; ETDE: 1979-11-23

\*BT1 nuclear explosions

\*BT1 underground explosions

NT1 gasbuggy event

RT contained explosions

**croton oil**

1996-10-22

(Until October 1996 this was a valid  
descriptor.)

USE triglycerides

USE vegetable oils

**CROTONIC ACID**

\*BT1 monocarboxylic acids

**CROWDIONS**

\*BT1 line defects

RT interstitials

**crowfoot**

USE ranunculaceae

**CROWN ETHERS**

INIS: 1992-01-28; ETDE: 1992-02-14

\*BT1 ethers

RT chelating agents

RT complexes

RT ligands

RT solvent extraction

**CRUAS-2 REACTOR**

INIS: 1989-11-24; ETDE: 1989-12-08

Cruas, France.

\*BT1 pwr type reactors

**CRUAS-3 REACTOR**

INIS: 1989-11-24; ETDE: 1989-12-08

Cruas, France.

\*BT1 pwr type reactors

**CRUAS-4 REACTOR**

1992-09-07

Cruas, France.

\*BT1 pwr type reactors

**CRUCIBLES**

RT casting

RT furnaces

RT melting

**crude carriers**

INIS: 2000-04-12; ETDE: 1976-08-04

USE tanker ships

**crude oil**

USE petroleum

**CRUISE MISSILES**

INIS: 2000-04-12; ETDE: 1979-05-02

BT1 missiles

**CRUSHING**(Prior to February 1992, this descriptor was  
used to index the concept of pulverizing,  
which is now indexed by COMMUNION.)

BT1 comminution

RT coal preparation

RT fragmentation

RT ore processing

RT pulverizers

**CRUSTACEANS**

BT1 aquatic organisms

\*BT1 arthropods

NT1 branchiopods

NT2 artemia

NT2 daphnia

NT1 copepods

NT1 decapods

NT2 crabs

NT2 lobsters

NT2 prawns

NT2 shrimp

RT zooplankton

**CRYOBIOLOGY**

INIS: 2000-04-12; ETDE: 1981-04-17

- BT1 biology
- RT cryogenics
- RT freezing
- RT thawing

**cryocables**

1985-12-10

- USE cryogenic cables

**CRYOGENIC BUBBLE CHAMBERS**

- \*BT1 bubble chambers

**CRYOGENIC CABLES**

1985-12-10

(Prior to 1986 SUPERCONDUCTING CABLES was used for this concept.)

- UF cryocables
- \*BT1 electric cables
- RT superconducting cables

**CRYOGENIC FLUIDS**

INIS: 1976-03-25; ETDE: 1975-10-28

- UF cryogens
- BT1 fluids
- RT cryogenics
- RT helium
- RT hydrogen
- RT liquefied gases
- RT methane
- RT nitrogen
- RT oxygen
- RT refrigerants

**CRYOGENIC STORAGE DEVICES**

- BT1 memory devices

**CRYOGENICS**

- RT adiabatic demagnetization
- RT cryobiology
- RT cryogenic fluids
- RT cryopumps
- RT cryostats
- RT cryotrons
- RT dewars
- RT freons
- RT helium dilution refrigeration
- RT hydrogen storage
- RT magnetic refrigerators
- RT superconductivity
- RT superfluidity
- RT temperature range 0000-0013 k
- RT temperature range 0013-0065 k
- RT temperature range 0065-0273 k
- RT temperature zero k

**cryogens**

INIS: 1976-03-25; ETDE: 1975-10-28

- USE cryogenic fluids

**CRYOPUMPS**

- \*BT1 vacuum pumps
- RT cryogenics

**CRYOSCOPY**

Measurement of freezing-point depression produced in a solvent by a solute to determine molecular weight of the solute or properties of solutions.

- UF freezing point depression
- RT molecular weight

**CRYOSPHERE**

INIS: 2000-04-12; ETDE: 1993-05-28

The portion of the climate system consisting of the world's ice masses and snow deposits, which include the continental ice sheets, mountain glaciers, sea ice, surface snow cover, and lake and river ice.

- NT1 polar regions
- NT2 antarctic regions

NT3 antarctica

- NT2 arctic regions
- RT boreal regions
- RT glaciers
- RT hydrosphere
- RT ice
- RT ice caps
- RT icebergs
- RT snow

**CRYOSTATS**

- \*BT1 thermostats
- RT cryogenics
- RT equipment protection devices
- RT helium dilution refrigerators
- RT magnetic refrigerators
- RT refrigerators

**CRYOTRONS**

Switching devices based on the magnetic control of superconductivity.

- BT1 superconducting devices
- \*BT1 switches
- RT cryogenics

**CRYPT CELLS**

- \*BT1 somatic cells
- RT epithelium
- RT intestines

**CRYPTOGRAPHY**

INIS: 2000-04-12; ETDE: 1984-07-20

The enciphering and deciphering of messages in secret code.

(Prior to April 1997 this was a valid ETDE descriptor; it is re-introduced into the Joint Thesaurus in October 2005.)

- NT1 quantum cryptography
- RT communications
- RT data transmission
- RT information
- RT secrecy protection
- RT security

**CRYSTAL COUNTERS**

- UF diamond counters
- \*BT1 radiation detectors
- NT1 filament crystal counters
- RT bulk semiconductor detectors

**CRYSTAL DEFECTS**

1996-01-24

- UF lattice defects
- BT1 crystal structure
- NT1 line defects
  - NT2 crowdions
  - NT2 dislocations
  - NT3 edge dislocations
  - NT3 screw dislocations
- NT1 point defects
  - NT2 interstitials
  - NT3 i centers
  - NT2 vacancies
    - NT3 color centers
    - NT4 a centers
    - NT4 e centers
    - NT4 f centers
    - NT4 h centers
    - NT4 i centers
    - NT4 m centers
    - NT4 r centers
    - NT4 s centers
    - NT4 u centers
    - NT4 v centers
    - NT4 x centers
    - NT4 z centers
  - NT3 frenkel defects
  - NT3 schottky defects
- NT1 stacking faults
- RT cavities
- RT crystal lattices

- RT inclusions
- RT internal friction
- RT microstructure
- RT radiation effects
- RT thermal spikes

**CRYSTAL DOPING**

- UF doping (crystal)
- RT bromine additions
- RT chlorine additions
- RT doped materials
- RT fluorine additions
- RT ion implantation
- RT trace amounts

**crystal faces**

INIS: 1995-12-11; ETDE: 1979-06-06

- USE crystals
- USE surfaces

**CRYSTAL FIELD**

- RT crystal structure
- RT electronic structure

**CRYSTAL GROWTH**

1996-04-15

- UF growth (crystal)
- RT bridgman method
- RT cast method
- RT cleavage
- RT crystal growth methods
- RT crystallization
- RT crystals
- RT czochralski method
- RT dendritic web growth method
- RT efg method
- RT epitaxy
- RT grain growth
- RT heat exchanger method
- RT inverted stepanov method
- RT liquid phase epitaxy
- RT molecular beam epitaxy
- RT nucleation
- RT ribbon-to-ribbon method
- RT stockbarger method
- RT vapor phase epitaxy
- RT verneuil method
- RT zone melting

**CRYSTAL GROWTH METHODS**

INIS: 1996-04-15; ETDE: 1980-02-11

- UF lass growth method
- UF low-angle silicon-sheet growth method
- NT1 bridgman method
- NT1 cast method
- NT1 czochralski method
- NT1 dendritic web growth method
- NT1 efg method
- NT1 epitaxy
  - NT2 liquid phase epitaxy
  - NT2 molecular beam epitaxy
  - NT2 vapor phase epitaxy
- NT1 heat exchanger method
- NT1 inverted stepanov method
- NT1 ribbon-to-ribbon method
- NT1 ribbon-to-sheet method
- NT1 stockbarger method
- NT1 verneuil method
- NT1 zone melting
- RT crystal growth

**CRYSTAL LATTICES**

- UF lattices (crystal)
- UF space lattices
- BT1 crystal structure
- NT1 beta-w lattices
- NT1 cubic lattices
  - NT2 bcc lattices
  - NT2 fcc lattices
- NT1 hexagonal lattices



**NT2** hcp lattices  
**NT1** monoclinic lattices  
**NT1** orthorhombic lattices  
**NT1** pentagonal lattices  
**NT1** tetragonal lattices  
**NT1** triclinic lattices  
**NT1** trigonal lattices  
*RT* coordination valences  
*RT* crystal defects  
*RT* crystallography  
*RT* crystals  
*RT* diffraction methods  
*RT* electron channeling  
*RT* electron-phonon coupling  
*RT* habit planes  
*RT* ion channeling  
*RT* lattice parameters  
*RT* laue method  
*RT* laves phases  
*RT* microstructure  
*RT* miller indices  
*RT* muon spin relaxation  
*RT* space groups  
*RT* trapping  
*RT* vegard law

### CRYSTAL MODELS

*For theories only.*

*UF* models (crystal)  
**BT1** mathematical models  
**NT1** heisenberg model  
**NT1** hubbard model  
**NT1** ising model  
*RT* crystal structure  
*RT* replicas

### CRYSTAL-PHASE

#### TRANSFORMATIONS

*UF* crystal phase transitions  
**BT1** phase transformations  
*RT* crystal structure  
*RT* graphitization  
*RT* order-disorder transformations

#### crystal phase transitions

*INIS: 1984-04-04; ETDE: 1984-05-10*  
*USE* crystal-phase transformations

#### crystal river

*INIS: 2000-04-12; ETDE: 1975-11-28*  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
*USE* colorado  
*USE* rivers

### CRYSTAL RIVER-3 REACTOR

*Florida Power Co., Red Level, Florida, USA.*  
*UF* red level-3 reactor  
 \***BT1** pwr type reactors

### CRYSTAL RIVER-4 REACTOR

*Florida Power Co., Red Level, Florida, USA.*  
 Canceled in 1972 before construction began.  
*UF* red level-4 reactor  
 \***BT1** pwr type reactors

### CRYSTAL STRUCTURE

*UF* structure (crystal)  
**NT1** crystal defects  
**NT2** line defects  
**NT3** crowdions  
**NT3** dislocations  
**NT4** edge dislocations  
**NT4** screw dislocations  
**NT2** point defects  
**NT3** interstitials  
**NT4** i centers  
**NT3** vacancies  
**NT4** color centers  
**NT5** a centers  
**NT5** e centers

**NT5** f centers  
**NT5** h centers  
**NT5** i centers  
**NT5** m centers  
**NT5** r centers  
**NT5** s centers  
**NT5** u centers  
**NT5** v centers  
**NT5** x centers  
**NT5** z centers  
**NT4** frenkel defects  
**NT4** schottky defects  
**NT2** stacking faults  
**NT1** crystal lattices  
**NT2** beta-w lattices  
**NT2** cubic lattices  
**NT3** bcc lattices  
**NT3** fcc lattices  
**NT2** hexagonal lattices  
**NT3** hcp lattices  
**NT2** monoclinic lattices  
**NT2** orthorhombic lattices  
**NT2** pentagonal lattices  
**NT2** tetragonal lattices  
**NT2** triclinic lattices  
**NT2** trigonal lattices  
*RT* allotropy  
*RT* axial ratio  
*RT* configuration  
*RT* crystal field  
*RT* crystal models  
*RT* crystal-phase transformations  
*RT* crystallography  
*RT* guinier-preston zones  
*RT* kikuchi lines  
*RT* lattice vibrations  
*RT* metamict state  
*RT* morphology  
*RT* optical activity  
*RT* order parameters  
*RT* peierls-nabarro force  
*RT* physical metallurgy  
*RT* solid state physics  
*RT* structure factors  
*RT* texture  
*RT* twinning

#### crystal violet

*INIS: 2000-04-12; ETDE: 1979-07-18*  
*USE* methyl violet

### CRYSTALLINE LENS

*UF* lens (crystalline)  
 \***BT1** eyes  
*RT* cataracts

#### crystalline rocks

*INIS: 2000-04-12; ETDE: 1983-02-09*  
 General term for igneous and metamorphic rocks as opposed to sedimentary rocks.  
*USE* igneous rocks  
*USE* metamorphic rocks

### CRYSTALLIZATION

**BT1** phase transformations  
*RT* agglomeration  
*RT* amorphous state  
*RT* cleavage  
*RT* crystal growth  
*RT* crystals  
*RT* epitaxy  
*RT* frost  
*RT* mineralization  
*RT* nucleation  
*RT* precipitation  
*RT* purification  
*RT* recrystallization  
*RT* separation processes  
*RT* solidification  
*RT* solubility

*RT* zone refining

### CRYSTALLOGRAPHY

*UF* radiocrystallography  
*RT* atomic beam diffraction  
*RT* crystal lattices  
*RT* crystal structure  
*RT* crystals  
*RT* diffraction methods  
*RT* electron diffraction  
*RT* gamma diffractometers  
*RT* neutron diffraction  
*RT* neutron diffractometers  
*RT* patterson method  
*RT* x-ray diffraction  
*RT* x-ray diffractometers

### CRYSTALS

1996-01-24

(From June 1979 till February 1997  
 CRYSTAL FACES was a valid ETDE  
 descriptor; from February 1975 till March  
 1997 QUANTUM CRYSTALS was a valid  
 ETDE descriptor; from February 1975 till  
 February 1995 RIEHL-SCHON MODEL was  
 a valid ETDE descriptor.)

*UF* crystal faces  
*UF* quantum crystals  
*UF* riehl-schon model  
**NT1** anharmonic crystals  
**NT1** dendrites  
**NT1** ionic crystals  
**NT1** liquid crystals  
**NT1** molecular crystals  
**NT1** monocrystals  
**NT2** whiskers  
**NT1** polycrystals  
**NT2** bicrystals  
*RT* clathrates  
*RT* crystal growth  
*RT* crystal lattices  
*RT* crystallization  
*RT* crystallography  
*RT* ion implantation  
*RT* solids  
*RT* umklapp processes

### CS-R PROCESS

*INIS: 2000-04-12; ETDE: 1981-08-04*  
 Hydrogasification process, developed by  
 Cities Service and Rockwell International, in  
 which entrained coal particles are  
 hydrogenated using hot hydrogen.  
*UF* rockwell flash hydroliquefaction  
 process  
 \***BT1** coal gasification  
*RT* high btu gas  
*RT* hydrogenation

#### cs-sr process

*INIS: 2000-04-12; ETDE: 1978-10-23*  
 Cities Service process for non-catalytic vapor-  
 phase hydrogenation of carbonaceous  
 feedstocks.  
 (Prior to July 1993, this was a valid ETDE  
 descriptor.)  
*SEE* coal gasification  
*SEE* coal liquefaction

### CSCND

2000-10-18

Convention on Supplementary Compensation  
 for Nuclear Damage.  
*UF* convention on supplementary  
 compensation for nuclear damage  
 nuclear damage, conv. on  
 supplementary compensation for  
 international agreements  
 \***BT1** international agreements  
*RT* iaea  
*RT* nuclear liability

**csf process**

2000-04-12

*Consolidation Coal Company process for the direct conversion of coal to synthetic crude oil by hydrogenation after solvent extraction (extension and improvement over pott-broche process).*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal liquefaction

**csiro process**

INIS: 2000-04-12; ETDE: 1975-11-28

*Commonwealth Scientific and Industrial Research Organization process for fluidized-bed hydrocarbonization of non-caking brown coal to produce methane, liquor, tar, and residual char.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal gasification

**CSREX PROCESS**

\*BT1 reprocessing

RT solvent extraction

**CT-6B TOKAMAK**

INIS: 1989-12-07; ETDE: 1990-01-03

*Academia Sinica, Beijing, China.*

\*BT1 tokamak devices

**ct scanning**

INIS: 1978-01-16; ETDE: 1978-03-03

USE cat scanning

**CTBT**

INIS: 1998-06-10; ETDE: 1998-10-19

*Comprehensive Nuclear-Test-Ban Treaty.*

BT1 treaties

RT arms control

RT ctbt

RT non-proliferation policy

RT nuclear disarmament

RT nuclear explosion detection

RT nuclear explosions

RT nuclear freeze

RT nuclear weapons

RT safeguards

**CTBTO**

INIS: 1998-06-10; ETDE: 1998-10-19

*Comprehensive Nuclear-Test-Ban Treaty Organization.*

BT1 international organizations

RT arms control

RT austria

RT ctbt

RT non-proliferation policy

RT nuclear disarmament

RT nuclear explosions

RT nuclear freeze

RT nuclear weapons

RT safeguards

RT united nations

**CTX SPHEROMAK**

INIS: 1984-11-30; ETDE: 1984-05-08

*A LASL facility to investigate the production, equilibrium, stability and confinement properties of compact toroids of the spheromak type in the absence of externally supported toroidal fields.*

\*BT1 spheromak devices

**CUBA**

BT1 developing countries

\*BT1 greater antilles

BT1 latin america

**CUBAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**CUBIC LATTICES**

UF perovskite crystal structure

\*BT1 crystal lattices

NT1 bcc lattices

NT1 fcc lattices

**CUCUMBERS**

\*BT1 magnoliopsida

\*BT1 vegetables

**cucurbita foetidissima**

INIS: 2000-04-12; ETDE: 1980-11-25

USE buffalo gourd

**CUEX**

INIS: 1975-11-07; ETDE: 1975-12-16

UF cumulative exposure index

RT human populations

RT icrp

RT integral doses

**CULHAM LABORATORY**

INIS: 1983-02-04; ETDE: 1983-03-07

\*BT1 ukaea

**CULM**

INIS: 2000-04-12; ETDE: 1979-09-27

*Coal dust or slack; formations of shale or sandstone containing beds of impure anthracite.*

\*BT1 mineral wastes

RT anthracite

RT coal

RT surface mining

**CULTIVATION**

INIS: 1999-03-02; ETDE: 1977-12-22

RT agriculture

RT crops

RT cultivation techniques

**CULTIVATION TECHNIQUES**

UF cropping systems

UF plant cultivation

NT1 hydroponic culture

NT1 short rotation cultivation

RT agriculture

RT crops

RT cultivation

RT drought resistance

RT irrigation

**CULTURAL OBJECTS**

INIS: 1981-12-23; ETDE: 1982-02-09

*Objects of historical and/or artistic value.*

UF art objects

UF museum objects

UF paintings

RT age estimation

RT archaeological sites

RT archaeological specimens

RT historical aspects

RT preservation

**CULTURAL RESOURCES**

INIS: 1999-05-20; ETDE: 1978-12-11

*Archaeological and historical sites.*

BT1 resources

RT archaeological specimens

RT architecture

**culture (safety)**

2003-01-17

USE safety culture

**CULTURE MEDIA**

1997-06-19

RT batch culture

RT cell cultures

RT continuous culture

RT in vitro

RT nutrients

RT semibatch culture

RT single cell protein

RT tissue cultures

**cultures (cells)**

USE cell cultures

**cultures (tissue)**

USE tissue cultures

**CUMBERLAND RIVER**

1997-06-19

\*BT1 rivers

RT kentucky

RT tennessee

**CUMENE**

UF isopropylbenzene

\*BT1 aromatics

\*BT1 hydrocarbons

**cumulative effect**

INIS: 1984-04-04; ETDE: 1984-05-10

*Production of particles in the region of limiting fragmentation of nuclei outside the limits allowed by one-nucleon collision kinematics.*

USE limiting fragmentation

USE particle production

**cumulative exposure index**

INIS: 1975-11-07; ETDE: 1975-12-22

USE cuex

**cumulative liability**

INIS: 1990-12-15; ETDE: 2002-06-13

(Prior to December 1990, this was a valid descriptor.)

USE liabilities

**CUMULATIVE RADIATION EFFECTS**

UF cre

BT1 radiation effects

RT fractionated irradiation

RT radiation doses

RT radiotherapy

RT temporal dose distributions

**CUNICO**

2000-04-12

\*BT1 cobalt alloys

\*BT1 copper alloys

\*BT1 nickel alloys

**CUPFERRON**

UF phenylhydroxylamine

\*BT1 amines

\*BT1 hydroxy compounds

BT1 reagents

**CUPRATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

\*BT1 copper compounds

BT1 oxygen compounds

RT copper oxides

**cuprosklodowskite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE silicate minerals

USE uranium minerals

**CURCUMIN**

- BT1 dyes
- \*BT1 ethers
- \*BT1 ketones
- \*BT1 polyphenols

**curie law**

USE curie-weiss law

**CURIE POINT**

- UF curie temperature
- \*BT1 transition temperature
- RT ferromagnetism
- RT magnetic susceptibility

**curie temperature**

USE curie point

**CURIE-WEISS LAW**

- UF curie law
- RT magnetic susceptibility

**CURING**

INIS: 1982-10-29; ETDE: 1978-03-03

- NT1 radiation curing
- RT drying
- RT heat treatments
- RT polymerization
- RT vulcanization

**curite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE oxide minerals
- USE uranium minerals

**CURIUM**

- \*BT1 actinides
- \*BT1 transplutonium elements

**CURIUM 232**

INIS: 1997-02-07; ETDE: 1979-11-23

- \*BT1 actinide nuclei
- \*BT1 beta-plus decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei

**CURIUM 236**

INIS: 1986-03-04; ETDE: 1986-04-11

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes

**CURIUM 237**

2003-09-03

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes

**CURIUM 238**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes

**CURIUM 239**

- \*BT1 actinide nuclei
- \*BT1 curium isotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes

**CURIUM 240**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes

- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes

**CURIUM 241**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 spontaneous fission radioisotopes

**CURIUM 242**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes

**CURIUM 242 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CURIUM 243**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-odd nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CURIUM 243 TARGET**

INIS: 1976-10-29; ETDE: 1976-11-29

- BT1 targets

**CURIUM 244**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CURIUM 244 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CURIUM 245**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-odd nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CURIUM 245 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CURIUM 246**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CURIUM 246 TARGET**

INIS: 1976-10-29; ETDE: 1976-09-29

- BT1 targets

**CURIUM 247**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-odd nuclei
- \*BT1 years living radioisotopes

**CURIUM 247 TARGET**

INIS: 1978-07-03; ETDE: 1978-03-08

- BT1 targets

**CURIUM 248**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CURIUM 248 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CURIUM 249**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes

**CURIUM 249 TARGET**

INIS: 1992-09-22; ETDE: 1984-09-05

- BT1 targets

**CURIUM 250**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**CURIUM 250 TARGET**

ETDE: 1976-07-09

- BT1 targets

**CURIUM 251**

INIS: 1978-02-23; ETDE: 1977-05-07

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 curium isotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes

**CURIUM 252**

- \*BT1 actinide nuclei
- \*BT1 curium isotopes
- \*BT1 even-even nuclei

**CURIUM ADDITIONS**

Alloys containing not more than 1% Cm are listed here.

- \*BT1 curium alloys

**CURIUM ALLOYS**

1996-07-18

Alloys containing more than 1% Cm.

- UF curium base alloys
- \*BT1 actinide alloys
- NT1 curium additions

**curium arsenides**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE arsenides
- USE curium compounds

**curium base alloys**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE curium alloys

**curium bromides**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE bromides
- USE curium compounds

**curium carbonates**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE carbonates
- USE curium compounds

**CURIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 curium compounds

**CURIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes

**CURIUM COMPOUNDS**

1996-11-13

- UF curium arsenides
- UF curium bromides
- UF curium carbonates
- UF curium hydrides
- UF curium hydroxides
- UF curium nitrides
- UF curium phosphides
- UF curium selenides
- UF curium silicates
- UF curium sulfides
- UF curium tellurides
- BT1 actinide compounds
- \*BT1 transplutonium compounds
- NT1 curium chlorides
- NT1 curium fluorides
- NT1 curium iodides
- NT1 curium nitrates
- NT1 curium oxides

**CURIUM FLUORIDES**

- \*BT1 curium compounds
- \*BT1 fluorides

**curium hydrides**

INIS: 1997-01-28; ETDE: 1984-12-27

(Until October 1996 this was a valid descriptor.)

- USE curium compounds
- USE hydrides

**curium hydroxides**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE curium compounds
- USE hydroxides

**CURIUM IODIDES**

INIS: 1987-08-27; ETDE: 1987-03-24

- \*BT1 curium compounds
- \*BT1 iodides

**CURIUM IONS**

- \*BT1 ions

**CURIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 curium 232
- NT1 curium 236
- NT1 curium 237
- NT1 curium 238
- NT1 curium 239
- NT1 curium 240
- NT1 curium 241
- NT1 curium 242
- NT1 curium 243
- NT1 curium 244
- NT1 curium 245
- NT1 curium 246
- NT1 curium 247
- NT1 curium 248
- NT1 curium 249
- NT1 curium 250
- NT1 curium 251
- NT1 curium 252

**CURIUM NITRATES**

- \*BT1 curium compounds
- \*BT1 nitrates

**curium nitrides**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE curium compounds
- USE nitrides

**CURIUM OXIDES**

- \*BT1 curium compounds
- \*BT1 oxides

**curium phosphides**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE curium compounds
- USE phosphides

**curium selenides**

INIS: 2000-04-12; ETDE: 1975-10-28

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE curium compounds
- USE selenides

**curium silicates**

INIS: 1997-01-28; ETDE: 1984-09-05

(Until October 1996 this was a valid descriptor.)

- USE curium compounds
- USE silicates

**curium sulfides**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE curium compounds
- USE sulfides

**curium tellurides**

INIS: 2000-04-12; ETDE: 1976-11-01

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE curium compounds
- USE tellurides

**current (alternating)**

- USE alternating current

**current (direct)**

- USE direct current

**current (leakage)**

- USE leakage current

**CURRENT ALGEBRA**

- RT algebraic currents
- RT cabibbo angle
- RT commutation relations
- RT commutators
- RT current commutators
- RT current divergences
- RT cvc theory
- RT field algebra
- RT low-energy theorem
- RT pcac theory
- RT pcvc theory
- RT quantum field theory
- RT symmetry groups
- RT v-a theory

**CURRENT COMMUTATORS**

For operators in current algebra; in electric circuitry use SWITCHES.

- \*BT1 commutators
- NT1 sigma terms
- RT algebraic currents
- RT current algebra
- RT schwinger terms

**CURRENT DENSITY**

- UF density (current)
- RT beam currents
- RT carrier density

RT electric currents

RT electron density

**CURRENT DIVERGENCES**

- RT algebraic currents
- RT current algebra

**CURRENT-DRIVE HEATING**

INIS: 1983-03-16; ETDE: 1982-10-05

Techniques for inducing steady-state currents in tokamaks, hence, overcoming the problems associated with pulsed operation. Heating mechanisms which can lend themselves efficiently to continuous current generation include neutral beam, alfvén waves, ion-cyclotron waves, lower-hybrid waves, and electron cyclotron waves.

- \*BT1 joule heating
- RT non-inductive current drive

**CURRENT LIMITERS**

INIS: 1978-08-30; ETDE: 1977-03-08

Devices that restrict the flow of current to a certain amount, regardless of the applied voltage.

- UF demand limiters
- \*BT1 electrical equipment
- RT circuit breakers
- RT electric currents
- RT power transmission lines
- RT threshold current

**current limiting fuses**

INIS: 2000-04-12; ETDE: 1981-10-24

(Prior to April 1997 THRESHOLD CURRENT was used for this concept in ETDE.)

- USE electric fuses

**CURRENT-TO-FREQUENCY CONVERTERS**

2000-04-12

- \*BT1 pulse converters

**current-voltage curves**

2006-01-19

- USE electric conductivity

**CURRENTS**

- NT1 algebraic currents
- NT2 axial-vector currents
- NT2 charged currents
- NT3 weak charged currents
- NT2 neutral currents
- NT3 weak neutral currents
- NT2 second-class currents
- NT2 vector currents
- NT1 beam currents
- NT2 amp beam currents
- NT2 kilo amp beam currents
- NT2 mega amp beam currents
- NT2 micro amp beam currents
- NT2 milli amp beam currents
- NT2 nano amp beam currents
- NT2 pico amp beam currents
- NT1 electric currents
- NT2 alternating current
- NT2 bootstrap current
- NT2 critical current
- NT2 direct current
- NT2 eddy currents
- NT2 electric arcs
- NT2 electrojets
- NT2 faraday current
- NT2 leakage current
- NT2 overcurrent
- NT2 photocurrents
- NT2 ring currents
- NT2 threshold current
- NT1 water currents
- NT2 gulf stream

RT atmospheric circulation  
RT voltametry

**currents (algebraic)**

2000-04-12

USE algebraic currents

**currents (beam)**

2000-04-12

USE beam currents

**currents (electric)**

2000-04-12

USE electric currents

**currents (neutral)**

2000-04-12

USE neutral currents

**currents (water)**

INIS: 2000-04-12; ETDE: 1979-07-18

USE water currents

**curriculum guides**

INIS: 2000-04-12; ETDE: 1977-06-21

(Prior to April 1997 this was a valid ETDE descriptor.)

USE educational tools

**curtailments**

INIS: 1985-12-10; ETDE: 1978-03-03

USE allocations

**CURTAINS**

INIS: 2000-04-12; ETDE: 1979-02-27

UF draperies

RT air curtains

RT buildings

RT passive solar cooling systems

RT passive solar heating systems

RT screens

RT shading

RT shutters

RT sun shades

RT thermal insulation

RT windows

**curve of growth (spectroscopic)**

INIS: 1993-11-05; ETDE: 2002-06-13

USE spectroscopic curve of growth

**curves**

USE diagrams

**CURVILINEAR COORDINATES**

INIS: 1985-07-23; ETDE: 1985-08-09

BT1 coordinates

NT1 magnetic flux coordinates

RT metrics

RT riemann space

**CUSHING SYNDROME**

\*BT1 endocrine diseases

RT corticosteroids

RT pituitary gland

**cusp**

USE cusped geometries

**CUSPED GEOMETRIES**

UF cusp

UF picket fence

\*BT1 open configurations

RT geometry

**CUTTER LOADERS**

INIS: 2000-04-12; ETDE: 1977-06-02

\*BT1 cutting machines

\*BT1 loaders

NT1 coal plows

NT1 continuous miners

NT1 heading machines

NT1 shearer loaders

RT coal mining

**CUTTING**

BT1 machining

RT cutting tools

RT mechanical decladding

**CUTTING FLUIDS**

INIS: 1994-07-01; ETDE: 1982-05-12

BT1 fluids

RT coolants

RT lubricants

RT machining

**CUTTING MACHINES**

INIS: 2000-04-12; ETDE: 1985-04-09

\*BT1 mining equipment

NT1 cutter loaders

NT2 coal plows

NT2 continuous miners

NT2 heading machines

NT2 shearer loaders

RT coal mining

**CUTTING TOOLS**

\*BT1 tools

RT cutting

RT shredders

**CUTTINGS REMOVAL**

INIS: 1993-03-23; ETDE: 1983-03-23

UF drill cuttings removal

BT1 removal

RT coring fluids

RT drilling

RT drilling fluids

RT well drilling

**CVC THEORY**

RT current algebra

RT vector currents

**CVTR REACTOR**

Carolinas-Virginia Nuclear Power Associates, Parr, South Carolina, USA. Decommissioned in 1967.

UF carolinas virginia tube reactor

UF parr carolinas cvtr reactor

\*BT1 enriched uranium reactors

\*BT1 phwr type reactors

\*BT1 pressure tube reactors

\*BT1 thermal reactors

**CWIP**

INIS: 2000-04-03; ETDE: 1978-11-14

Construction work in progress.

UF construction work in progress

BT1 construction

RT accounting

RT afude

RT public utilities

**cyam process**

INIS: 2000-04-12; ETDE: 1983-03-23

Proprietary US Steel Corp. Process for recovering both free and fixed ammonia from waste water. Proprietary US Steel Corp.

Process for recovering both free and fixed ammonia from waste water.

(Prior to September 1994, this was a valid

ETDE descriptor.)

USE waste processing

**CYANAMIDES**

\*BT1 carbonic acid derivatives

\*BT1 organic nitrogen compounds

**CYANATES**

1995-01-11

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

\*BT1 carbonic acid derivatives

BT1 nitrogen compounds

RT cyanides

RT isocyanates

RT oxygen compounds

**CYANIDES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

RT cyanates

RT cyanogen

RT hydrocyanic acid

**CYANINE DYES**

INIS: 1983-06-02; ETDE: 1979-05-02

BT1 dyes

RT aromatics

RT heterocyclic compounds

**cyanoacetylene**

2000-04-12

USE propiolonitrile

**CYANOBACTERIA**

INIS: 1983-02-03; ETDE: 1983-03-07

UF blue-green algae

BT1 microorganisms

**cyanocobalamin**

USE vitamin b-12

**cyanoferates**

INIS: 1975-10-23; ETDE: 2002-06-13

USE ferricyanides

**CYANOGEN**

RT cyanides

**CYANURATES**

\*BT1 organic oxygen compounds

\*BT1 triazines

**CYBERNETICS**

RT control

RT information theory

RT man-machine systems

**cycasin**

2000-04-12

(Prior to April 1994, this was a valid ETDE descriptor.)

USE azo compounds

USE carcinogens

USE hexoses

**CYCLASES**

INIS: 1983-02-03; ETDE: 1983-03-07

\*BT1 lyases

RT phosphoproteins

**cycles (thermodynamic)**

USE thermodynamic cycles

**CYCLIC ACCELERATORS**

UF linotrons

BT1 accelerators

NT1 betatrons

NT1 bevalac

NT1 cyclotrons

NT2 cracow u-120 cyclotron

NT2 isochronous cyclotrons

NT3 aabo cyclotron

NT3 alice cyclotron

NT3 brookhaven cyclotron

**NT3** cracow aic-144 cyclotron  
**NT3** crnl superconducting cyclotron  
**NT3** cyclone cyclotron  
**NT3** debrecen cyclotron  
**NT3** eindhoven cyclotron  
**NT3** ganil cyclotron  
**NT3** grenoble cyclotron  
**NT3** haizy cyclotron  
**NT3** hirfl cyclotron  
**NT3** inr cyclotron  
**NT3** iper cyclotron  
**NT3** iu cyclotron  
**NT3** jinr cyclotrons  
**NT4** jinr u-400 cyclotron  
**NT3** julic cyclotron  
**NT3** karlsruhe cyclotron  
**NT3** kazakhstan cyclotron  
**NT3** kiev cyclotron  
**NT3** kvi cyclotron  
**NT3** milan superconducting cyclotron  
**NT3** msu cyclotrons  
**NT3** munich compact cyclotron  
**NT3** munich suse cyclotron  
**NT3** nac cyclotron  
**NT3** nirs cyclotron  
**NT3** nrl cyclotron  
**NT3** ornl isochronous cyclotron  
**NT3** orsay cyclotron  
**NT3** oslo cyclotron  
**NT3** princeton cyclotron  
**NT3** rcnp cyclotron  
**NT3** sara cyclotron  
**NT3** sin cyclotron  
**NT3** texas a and m cyclotron  
**NT3** texas superconducting cyclotron  
**NT3** tohoku cyclotron  
**NT3** tokyo ins cyclotron  
**NT3** triumf cyclotron  
**NT3** uclrl cyclotrons  
**NT4** lbl 88-inch cyclotron  
**NT3** warsaw cyclotron  
**NT2** microtrons  
**NT3** racetrack microtrons  
**NT2** nbi cyclotron  
**NT2** separated orbit cyclotrons  
**NT2** superconducting cyclotrons  
**NT3** milan superconducting cyclotron  
**NT3** texas superconducting cyclotron  
**NT2** variable energy cyclotrons  
**NT3** calcutta cyclotron  
**NT3** chandigarh cyclotron  
**NT1** synchrocyclotrons  
**NT2** berkeley synchrocyclotron  
**NT2** cern synchrocyclotron  
**NT2** dubna synchrocyclotron  
**NT2** harvard synchrocyclotron  
**NT2** harwell synchrocyclotron  
**NT2** iko synchrocyclotron  
**NT2** leningrad synchrocyclotron  
**NT2** mcgill synchrocyclotron  
**NT2** orsay synchrocyclotron  
**NT2** uppsala synchrocyclotron  
**NT1** synchrotrons  
**NT2** bevatron  
**NT2** bonn synchrotron  
**NT2** brookhaven ags  
**NT2** cambridge electron accelerator  
**NT2** cern lhc  
**NT2** cern ps synchrotron  
**NT2** cern sps synchrotron  
**NT2** cornell 10-gev synchrotron  
**NT2** cosmotron  
**NT2** cosy storage ring  
**NT2** desy  
**NT2** erewan synchrotron  
**NT2** escar storage ring  
**NT2** fermilab accelerator  
**NT2** fermilab tevatron  
**NT2** fian synchrotron

**NT2** frascati synchrotron  
**NT2** himac accelerator  
**NT2** ipns-i synchrotron  
**NT2** itep synchrotron  
**NT2** jinr synchrotron  
**NT2** kek synchrotron  
**NT2** lampf ii synchrotron  
**NT2** lep storage rings  
**NT2** lusy  
**NT2** mura synchrotron  
**NT2** nimrod  
**NT2** nina  
**NT2** pakhra synchrotron  
**NT2** princeton synchrotron  
**NT2** saturne  
**NT2** saturne ii  
**NT2** serpukhov synchrotron  
**NT2** serpukhov tevatron  
**NT2** sis synchrotron  
**NT2** superconducting super collider  
**NT2** tokyo synchrotron  
**NT2** tomsk synchrotron  
**NT2** zgs  
**RT** cavity resonators  
**RT** rf systems  
**RT** superconducting cavity resonators  
**RT** waveguides

### **cyclic adenosine monophosphate**

USE amp

### **cyclic amides**

USE lactams

### **cyclic esters**

USE lactones

### **cyclic steam injection process**

INIS: 2000-04-12; ETDE: 1976-06-07

USE fluid injection processes

### **CYCLIZATION**

INIS: 1985-06-10; ETDE: 1983-04-28

BT1 chemical reactions

### **CYCLOALKANES**

(From February 1975 till February 1997 ADAMANTANE was a valid ETDE descriptor.)

UF adamantane

UF condensed cycloalkanes

\*BT1 alkanes

NT1 cyclohexane

NT1 decalin

### **CYCLOALKENES**

1997-06-17

UF camphene

\*BT1 alkenes

NT1 cyclopentadiene

NT1 norbornadiene

NT1 quadricyclene

### **CYCLOALKYNES**

INIS: 2000-04-12; ETDE: 1984-10-24

\*BT1 alkynes

### **cycloheptatrienones**

USE tropones

### **CYCLOHEXANE**

\*BT1 cycloalkanes

RT hexane

### **CYCLOHEXANOL**

1981-12-23

\*BT1 alcohols

### **CYCLOHEXANONE**

\*BT1 ketones

### **CYCLOHEXIMIDE**

\*BT1 antibiotics

\*BT1 fungicides

### **cyclohexylenedinitrilotetraacetic acid**

1995-02-16

USE cdta

### **CYCLONE COMBUSTORS**

INIS: 2000-04-12; ETDE: 1979-09-26

BT1 combustors

### **CYCLONE CYCLOTRON**

INIS: 1984-01-18; ETDE: 1983-03-24

Universite Catholique de Louvain Cyclotron.

UF louvain isochronous cyclotron

UF universite catholique louvain cyclotron

\*BT1 heavy ion accelerators

\*BT1 isochronous cyclotrons

### **CYCLONE SEPARATORS**

UF hydrocyclones

BT1 concentrators

\*BT1 inertial separators

RT scrubbers

RT separation processes

### **CYCLOPENTADIENE**

\*BT1 cycloalkenes

\*BT1 dienes

### **cyclopentanediaminetetraacetic acid**

1996-07-18

(Prior to March 1997 CPDTA was used for this concept in ETDE.)

USE amino acids

USE chelating agents

### **cyclophosphamide**

USE endoxan

### **CYCLOSPORINE**

INIS: 1992-07-16; ETDE: 1992-08-24

UF cyclosporine-a

\*BT1 immunosuppressive drugs

\*BT1 peptides

RT immunosuppression

### **cyclosporine-a**

INIS: 1992-07-16; ETDE: 1992-08-24

USE cyclosporine

### **CYCLOTRON CENTER OF THE SLOVAK REPUBLIC**

2002-12-17

UF slovak cyclotron center

\*BT1 slovak organizations

### **CYCLOTRON FREQUENCY**

UF frequency (cyclotron)

RT cyclotron harmonics

RT cyclotron instability

RT cyclotron radiation

RT gyrofrequency

### **CYCLOTRON HARMONICS**

\*BT1 harmonics

RT bernstein mode

RT cyclotron frequency

### **CYCLOTRON INSTABILITY**

\*BT1 plasma microinstabilities

RT cyclotron frequency

### **CYCLOTRON RADIATION**

\*BT1 bremsstrahlung

RT cyclotron frequency

RT cyclotron resonance

RT icr heating

RT synchrotron radiation

### **CYCLOTRON RESONANCE**

BT1 resonance

NT1 azbel-kaner resonance

**NT1** electron cyclotron-resonance  
**NT1** ion cyclotron-resonance  
*RT* cyclotron radiation  
*RT* ion cyclotron resonance spectroscopy

**CYCLOTRONS**

\*BT1 cyclic accelerators  
**NT1** cracow u-120 cyclotron  
**NT1** isochronous cyclotrons  
**NT2** aabo cyclotron  
**NT2** alice cyclotron  
**NT2** brookhaven cyclotron  
**NT2** cracow aic-144 cyclotron  
**NT2** crnl superconducting cyclotron  
**NT2** cyclone cyclotron  
**NT2** debrecen cyclotron  
**NT2** eindhoven cyclotron  
**NT2** ganil cyclotron  
**NT2** grenoble cyclotron  
**NT2** haizy cyclotron  
**NT2** hirfl cyclotron  
**NT2** inr cyclotron  
**NT2** ipcr cyclotron  
**NT2** iu cyclotron  
**NT2** jinr cyclotrons  
**NT3** jinr u-400 cyclotron  
**NT2** julic cyclotron  
**NT2** karlsruhe cyclotron  
**NT2** kazakhstan cyclotron  
**NT2** kiev cyclotron  
**NT2** kvi cyclotron  
**NT2** milan superconducting cyclotron  
**NT2** msu cyclotrons  
**NT2** munich compact cyclotron  
**NT2** munich suse cyclotron  
**NT2** nac cyclotron  
**NT2** nirs cyclotron  
**NT2** nrl cyclotron  
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**NT1** nbi cyclotron  
**NT1** separated orbit cyclotrons  
**NT1** superconducting cyclotrons  
**NT2** milan superconducting cyclotron  
**NT2** texas superconducting cyclotron  
**NT1** variable energy cyclotrons  
**NT2** calcutta cyclotron  
**NT2** chandigarh cyclotron  
*RT* dees  
*RT* synchrocyclotrons

**CYLINDERS**

*Objects of cylindrical shape. For containers see headings such as GAS CYLINDERS.*

*RT* cylindrical configuration  
*RT* pipes  
*RT* rods  
*RT* shape  
*RT* tubes

**cylindrical aberrations**

*INIS: 2000-04-12; ETDE: 1979-07-24*  
 USE geometrical aberrations

**CYLINDRICAL CONFIGURATION**

**BT1** configuration  
*RT* cylinders

**cylindrical parabolic collectors**

*INIS: 1992-03-11; ETDE: 1978-10-25*  
 USE parabolic trough collectors

**CYMENE**

*UF* isopropyltoluene-para  
 \*BT1 aromatics  
 \*BT1 hydrocarbons  
*RT* thymol

**CYPRUS**

**BT1** islands  
**BT1** middle east  
*RT* mediterranean sea

**cyrlic cyclotron**

*INIS: 1983-06-30; ETDE: 1983-03-24*  
*At Cyclotron and Radiolotope Center, Tohoku University, Sendai, Japan.*  
 USE tohoku cyclotron

**cyrtolite**

1996-07-18  
 (Until July 1996 this was a valid descriptor.)  
 USE silicate minerals  
 USE uranium minerals

**cystamin**

*INIS: 1984-05-24; ETDE: 2002-06-13*  
 USE urotropin

**CYSTAMINE**

*UF* 2,2-dithiobisethylamine  
 \*BT1 amines  
 \*BT1 organic sulfur compounds  
 \*BT1 radioprotective substances  
*RT* cysteamine

**CYSTAPHOS**

1975-11-07  
*UF* sodium aminoethylthiophosphate  
 \*BT1 amines  
 \*BT1 organic phosphorus compounds  
 \*BT1 radioprotective substances  
 \*BT1 thiophosphoric acid esters  
*RT* thioic acids

**CYSTEAMINE**

*ETDE: 2005-02-02*  
 (Prior to January 2005 MEA was used for this concept.)

*UF* aminoethanethiol  
*UF* mea (mercaptoethylamine)  
*UF* mercamine  
*UF* mercaptoethylamine

\*BT1 amines  
 \*BT1 radioprotective substances  
 \*BT1 thiols  
*RT* cystamine

**CYSTEINE**

*UF* mercaptoalanine-beta  
 \*BT1 amino acids  
 \*BT1 thiols  
*RT* cystine  
*RT* homocysteine

**CYSTINE**

1996-07-18  
 \*BT1 amino acids  
 \*BT1 disulfides  
*RT* cysteine

**CYSTS**

*INIS: 1988-11-16; ETDE: 1988-12-02*  
**BT1** pathological changes

**CYTIDINE**

\*BT1 nucleosides

\*BT1 pyrimidines  
*RT* cytidylic acid  
*RT* cytosine  
*RT* deoxycytidine

**CYTIDYLIC ACID**

1996-07-18  
 \*BT1 nucleotides  
*RT* cytidine  
*RT* cytosine

**CYTOCHEMISTRY**

1999-03-26  
 \*BT1 biochemistry  
*RT* cytology  
*RT* feulgen method

**CYTOCHROME OXIDASE**

\*BT1 oxidases  
*RT* cytochromes  
*RT* mixed-function oxidases

**CYTOCHROMES**

1997-06-17  
*Electron transporting proteins that contain a heme prosthetic group.*

**BT1** pigments  
 \*BT1 proteins  
*RT* chlorins  
*RT* coenzymes  
*RT* cytochrome oxidase  
*RT* mixed-function oxidases  
*RT* photosynthetic reaction centers  
*RT* redox process

**cytokines**

*INIS: 2000-04-12; ETDE: 1995-07-21*  
 USE lymphokines

**CYTOLOGICAL TECHNIQUES**

*INIS: 1975-10-29; ETDE: 1975-12-16*  
**NT1** banding techniques  
**NT1** chromosome sorting  
*RT* cell constituents  
*RT* cell flow systems  
*RT* cytology  
*RT* electron microscopy

**CYTOLOGY**

**BT1** biology  
*RT* animal cells  
*RT* cell constituents  
*RT* cell flow systems  
*RT* cytochemistry  
*RT* cytological techniques  
*RT* genetics  
*RT* plant cells  
*RT* ultrastructural changes

**CYTOPLASM**

**BT1** cell constituents  
*RT* liposomes  
*RT* mitochondria  
*RT* plasmids

**CYTOSINE**

\*BT1 amines  
 \*BT1 organic oxygen compounds  
 \*BT1 pyrimidines  
*RT* cytidine  
*RT* cytidylic acid

**cytostatics**

USE antimetabolic drugs

**cytotoxins**

*INIS: 2000-04-12; ETDE: 1981-04-20*  
 USE antimetabolic drugs

**cytriphos**

2000-04-12

(Prior to April 1994, this was a valid ETDE descriptor.)

- USE amines
- USE nucleotides
- USE radioprotective substances

**czd process**

INIS: 2000-04-12; ETDE: 1989-05-31

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE desulfurization

**CZECH ORGANIZATIONS**

INIS: 1998-01-29; ETDE: 1994-02-24

(Prior to February 1994, this concept in ETDE was indexed by CZECHOSLOVAK ORGANIZATIONS.)

- SF czechoslovak organizations
- BT1 national organizations
- NT1 subj
- NT1 uju
- NT1 uvvvr

**CZECH REPUBLIC**

INIS: 1993-01-14; ETDE: 1993-04-08

(Prior to March 1994, this concept in ETDE was indexed to CZECHOSLOVAKIA.)

- SF czechoslovakia
- BT1 developing countries
- \*BT1 eastern europe
- RT oecd

**czech wwr-c reactor**

2000-04-12

- USE wwr-s-prague reactor

**czech wwr-s reactor**

INIS: 1998-09-23; ETDE: 2002-03-27

- USE lvr-15 reactor

**czechoslovak lr-0 reactor**

INIS: 1998-07-07; ETDE: 1995-01-03

- USE lr-0 reactor

**czechoslovak organizations**

1994-02-28

(Prior to February 1994, this was a valid ETDE descriptor.)

- SEE czech organizations
- SEE slovak organizations

**czechoslovak tr-0 reactor**

- USE tr-0 reactor

**czechoslovakia**

1994-08-22

(Until August 1994 this was a valid descriptor.)

- SEE czech republic
- SEE slovakia

**CZOCHRALSKI METHOD**

- BT1 crystal growth methods
- RT crystal growth

**d-1285 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

- USE fl-1285 mesons

**d-1865 resonances**

INIS: 1985-01-17; ETDE: 1977-06-03

(Prior to January 1985 this was a valid ETDE descriptor.)

- USE d mesons

**d-2007 resonances**

INIS: 1987-12-21; ETDE: 1978-04-06

(Prior to December 1987 this was a valid descriptor.)

- USE d\*-2010 mesons

**D CODES**

- BT1 computer codes

**D-D REACTORS**

INIS: 1983-10-14; ETDE: 1983-11-09

- BT1 thermonuclear reactors

**D-HE REACTORS**

1995-02-15

- BT1 thermonuclear reactors

**D MESONS**

INIS: 1985-01-17; ETDE: 1985-02-07

(Prior to January 1985 D-1865

RESONANCES was used for this concept in ETDE.)

- UF d-1865 resonances
- \*BT1 charmed mesons
- \*BT1 pseudoscalar mesons
- NT1 d minus mesons
- NT1 d neutral mesons
- NT2 anti-d neutral mesons
- NT1 d plus mesons

**D MINUS MESONS**

INIS: 1987-12-21; ETDE: 1988-02-19

- \*BT1 d mesons

**D NEUTRAL MESONS**

INIS: 1987-12-21; ETDE: 1988-08-01

(Prior to December 1987 this concept was indexed by D ZERO RESONANCES.)

- UF d zero resonances
- \*BT1 d mesons
- NT1 anti-d neutral mesons

**D PLUS MESONS**

INIS: 1987-12-21; ETDE: 1988-02-19

(Prior to December 1987 this concept was indexed by D PLUS RESONANCES.)

- UF d plus resonances
- \*BT1 d mesons

**d plus resonances**

INIS: 1987-12-21; ETDE: 1978-12-20

(Prior to December 1987 this was a valid descriptor.)

- USE d plus mesons

**D QUARKS**

INIS: 1995-09-08; ETDE: 1995-10-03

- \*BT1 quarks
- RT quarkonium

**D REGION**

- \*BT1 ionosphere

**d resonances**

INIS: 1988-03-08; ETDE: 1977-07-23

(Prior to December 1987 this was a valid descriptor.)

- USE charmed mesons

**D S-2536 MESONS**

1995-07-17

- \*BT1 axial vector mesons
- \*BT1 charmed mesons
- \*BT1 strange mesons

**D S MESONS**

INIS: 1995-08-07; ETDE: 1988-02-02

(Prior to December 1987 this concept was indexed by F MESONS.)

- UF d strange mesons
- UF f-2030 resonances
- UF f mesons
- \*BT1 charmed mesons

\*BT1 pseudoscalar mesons

\*BT1 strange mesons

**D STATES**

- BT1 energy levels

**d strange mesons**

INIS: 1987-12-21; ETDE: 2002-06-13

- USE d s mesons

**D-T OPERATION**

INIS: 1996-03-04; ETDE: 1996-02-26

- RT d-t reactors
- RT deuterium ions
- RT thermonuclear devices
- RT thermonuclear fuels
- RT tritium ions

**D-T REACTORS**

1996-03-04

- BT1 thermonuclear reactors
- NT1 pulsed d-t reactors
- NT2 reference theta pinch reactor
- NT1 steady-state d-t reactors
- RT d-t operation

**D WAVES**

- BT1 partial waves
- RT angular momentum
- RT quantum mechanics

**d zero resonances**

INIS: 1987-12-21; ETDE: 1978-12-20

(Prior to December 1987 this was a valid descriptor.)

- USE d neutral mesons

**D\*-2010 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

(Prior to December 1987 this concept was indexed by D-2007 RESONANCES.)

- UF d-2007 resonances
- \*BT1 charmed mesons
- \*BT1 vector mesons

**d\*-2420 mesons**

INIS: 1995-08-07; ETDE: 1988-02-02

(Until July 1995 this was a valid term.)

- USE d1-2420 mesons

**d\* plus resonances**

INIS: 1988-03-08; ETDE: 1978-12-20

(Prior to December 1987 this was a valid descriptor.)

- USE baryons

**d\* zero resonances**

INIS: 1988-03-08; ETDE: 1978-12-20

(Prior to December 1987 this was a valid descriptor.)

- USE baryons

**D\*2-2460 MESONS**

1995-07-17

- \*BT1 charmed mesons
- \*BT1 tensor mesons

**d\*effect**

2000-04-12

- SEE baryons

**d\*phenomenon**

2000-04-12

- SEE baryons

**d\*resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

- USE baryons



**D\*S-2110 MESONS**

*INIS: 1995-08-07; ETDE: 1988-02-02*  
(Prior to December 1987 this concept was indexed by F\* RESONANCES.)

- UF *f\*resonances*  
\*BT1 charmed mesons  
\*BT1 strange mesons

**D1-2420 MESONS**

*1995-08-07*  
(Until July 1995 this concept was indexed by D\*-2420 MESONS.)

- UF *d\*-2420 mesons*  
\*BT1 axial vector mesons  
\*BT1 charmed mesons

**DACRON**

- UF *terylene*  
\*BT1 polyesters  
RT fibers  
RT glycols  
RT terephthalic acid  
RT textiles

**DACUS**

- \*BT1 fruit flies  
NT1 dacus oleae

**DACUS OLEAE**

- \*BT1 dacus  
RT olives

**dahomey**

*INIS: 2000-04-12; ETDE: 1979-12-10*  
(Prior to September 1994, this was a valid ETDE descriptor.)  
USE *benin*

**DAILY VARIATIONS**

*Includes day-to-day, diurnal, and semidiurnal variations.*

- UF *circadian variations*  
UF *diel variations*  
UF *diurnal variation*  
UF *semidiurnal variation*  
BT1 variations  
RT nocturnal variations  
RT photoperiod

**DAIRY INDUSTRY**

*INIS: 1993-01-28; ETDE: 1980-01-15*  
\*BT1 food industry

**dalat triga-mk-2 reactor**

*INIS: 1984-06-21; ETDE: 2002-06-13*  
USE *triga-2-dalat reactor*

**DALHART BASIN**

*INIS: 1992-06-05; ETDE: 1984-02-10*  
BT1 permian basin  
RT radioactive waste disposal  
RT texas

**dalhousie university slowpoke reactor**

*INIS: 1993-11-05; ETDE: 1980-01-24*  
USE *slowpoke-dalhousie reactor*

**DALITZ PLOT**

*Phase-space plot of momentum or mass distribution of final-state particles.*

- \*BT1 scatterplots  
RT linear momentum  
RT mass  
RT phase space  
RT resonance particles

**dam**

*INIS: 1984-04-04; ETDE: 1984-05-10*  
*Diantipyrylmethane.*  
USE *pyrazolines*

**DAMAGE**

*2000-04-12*  
*Not to be used in reference to living organisms. Use more specific descriptor, if possible.*

- RT failures  
RT fatigue  
RT hazards  
RT impact shock  
RT nuclear damage  
RT radiation effects  
RT safety

**damage, vienna convention on liability**

*INIS: 1993-11-05; ETDE: 2002-06-13*  
USE *vcocInd*

**damage (nuclear)**

*INIS: 1976-12-08; ETDE: 2002-06-13*  
USE *nuclear damage*

**damage (radiation, biological)**

*INIS: 1976-12-08; ETDE: 2002-06-13*  
USE *radiation injuries*

**damage (radiation, chemical)**

*INIS: 1976-12-08; ETDE: 2002-06-13*  
USE *radiolysis*

**damage (radiation, physical)**

*INIS: 1976-12-08; ETDE: 2002-06-13*  
USE *physical radiation effects*

**damage factor**

*INIS: 2000-04-12; ETDE: 1983-02-09*  
USE *formation damage*

**damage ratio**

*INIS: 2000-04-12; ETDE: 1983-01-21*  
USE *formation damage*

**damage zone**

*INIS: 2000-04-12; ETDE: 1983-01-21*  
USE *formation damage*

**DAMAGING NEUTRON FLUENCE**

*INIS: 1976-05-07; ETDE: 1978-03-08*  
BT1 neutron fluence  
NT1 equivalent fission fluence  
RT interstitial helium generation  
RT interstitial hydrogen generation  
RT irradiation  
RT neutron flux  
RT neutronic damage functions  
RT physical radiation effects

**DAMPA**

- UF *diisoamyl methylphosphonate*  
UF *diisopentyl methylphosphonate*  
\*BT1 phosphonic acid esters

**dampers (gas flow)**

*INIS: 2000-04-12; ETDE: 1979-01-30*  
(Prior to February 1997 DRAFT CONTROL SYSTEMS was used for this concept in ETDE.)  
USE *flow regulators*  
USE *gas flow*

**DAMPIERRE-1 REACTOR**

*INIS: 1991-03-22; ETDE: 1991-04-09*  
*Ouzouer-sur-Loire, France.*  
\*BT1 pwr type reactors

**DAMPIERRE-2 REACTOR**

*1996-09-20*  
*Ouzouer-sur-Loire, France.*  
\*BT1 pwr type reactors

**DAMPIERRE-3 REACTOR**

*2003-07-24*  
*Ouzouer-sur-Loire, France.*  
\*BT1 pwr type reactors

**DAMPIERRE-4 REACTOR**

*2003-07-24*  
*Ouzouer-sur-Loire, France.*  
\*BT1 pwr type reactors

**DAMPING**

- NT1 landau damping  
RT attenuation  
RT energy losses  
RT hydrodynamic mass effect  
RT hysteresis  
RT internal friction  
RT mechanical vibrations  
RT restraints  
RT shock absorbers

**DAMS**

- UF *breakwaters*  
RT embankments  
RT fish passage facilities  
RT flood control  
RT hydroelectric power plants  
RT spillways  
RT water reservoirs

**DANCOFF CORRECTION**

- RT *resonance escape probability*

**DANGER COEFFICIENT**

- BT1 *reactivity coefficients*

**DANISH ATOMIC ENERGY COMMISSION**

*ETDE: 1975-09-11*  
\*BT1 danish organizations

**DANISH ORGANIZATIONS**

*ETDE: 1975-08-19*  
BT1 national organizations  
NT1 danish atomic energy commission  
NT1 risoe national laboratory  
NT2 risoe research establishment

**danish reactor-1**

USE *dr-1 reactor*

**danish reactor-2**

USE *dr-2 reactor*

**danish reactor-3**

USE *dr-3 reactor*

**danny boy event**

*1994-10-14*  
*A test made during OPERATION NOUGAT.*  
(Prior to September 1994, this was a valid ETDE descriptor.)  
USE *cratering explosions*  
USE *nuclear explosions*

**DANTE TOKAMAK**

*INIS: 1984-08-24; ETDE: 1984-10-24*  
*DANish Tokamak Experiment.*  
\*BT1 tokamak devices

**DANUBE RIVER**

- \*BT1 rivers  
RT austria  
RT black sea  
RT bulgaria  
RT federal republic of germany  
RT hungary  
RT romania  
RT serbia and montenegro  
RT slovakia  
RT ukraine

**DAPEX PROCESS**

- \*BT1 reprocessing
- RT solvent extraction

**DAPHNIA**

- \*BT1 branchiopods
- RT plankton
- RT zooplankton

**DARCY LAW**

- RT fluid flow

**daresbury synchrotron**

- USE nina

**darex process**

2000-04-12

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE reprocessing

**dark matter**

INIS: 1985-01-17; ETDE: 1985-03-12

In outer space.

- USE nonluminous matter

**dark repair**

- USE dna repair

**DARLINGTON-1 REACTOR**

INIS: 1976-11-08; ETDE: 1976-12-16

Darlington, Ontario, Canada.

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- RT darlington site

**DARLINGTON-2 REACTOR**

INIS: 1976-11-08; ETDE: 1976-12-16

Darlington, Ontario, Canada.

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- RT darlington site

**DARLINGTON-3 REACTOR**

INIS: 1976-11-08; ETDE: 1976-12-16

Darlington, Ontario, Canada.

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- RT darlington site

**DARLINGTON-4 REACTOR**

INIS: 1976-11-08; ETDE: 1977-05-07

Darlington, Ontario, Canada.

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- RT darlington site

**DARLINGTON SITE**

INIS: 1993-01-14; ETDE: 1993-05-06

Darlington, Ontario, Canada.

- BT1 reactor sites
- RT darlington-1 reactor
- RT darlington-2 reactor
- RT darlington-3 reactor
- RT darlington-4 reactor

**darmstadt storage ring**

INIS: 1992-02-22; ETDE: 1992-03-09

- USE esr storage ring

**darmstadt synchrotron**

1991-02-11

- USE sis synchrotron

**DARMSTADIUM**

2004-03-19

(Prior to March 2004 ELEMENT 110 was used for this element.)

- UF eka-platinum

UF element 110

UF ununnilium

- \*BT1 transactinide elements

**DARMSTADIUM 269**

2004-03-19

(Prior to March 2004 ELEMENT 110 269 was used for this concept.)

UF element 110 269

- \*BT1 alpha decay radioisotopes
- \*BT1 darmstadtium isotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes

**DARMSTADIUM 270**

2004-03-19

(Prior to March 2004 ELEMENT 110 270 was used for this concept.)

UF element 110 270

- \*BT1 alpha decay radioisotopes
- \*BT1 darmstadtium isotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes

**DARMSTADIUM 271**

2004-11-30

- \*BT1 alpha decay radioisotopes
- \*BT1 darmstadtium isotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes

**DARMSTADIUM COMPOUNDS**

2004-03-19

(Prior to March 2004 ELEMENT 110 COUMPOUNDS was used for this concept.)

UF element 110 compounds

- \*BT1 transactinide compounds

**DARMSTADIUM ISOTOPES**

2004-03-19

(Prior to March 2004 ELEMENT 110 ISOTOPES was used for this concept.)

UF element 110 isotopes

- BT1 isotopes
- NT1 darmstadtium 269
- NT1 darmstadtium 270
- NT1 darmstadtium 271

**DARRIEUS ROTORS**

INIS: 2000-04-12; ETDE: 1976-02-19

- BT1 rotors
- RT vertical axis turbines

**DATA**

For data flagging always use a more specific term.

- UF measured values
- SF recorded information
- SF tables
- SF values
- BT1 information
- NT1 data compilation
- NT1 numerical data
- NT2 compiled data
- NT2 evaluated data
- NT2 experimental data
- NT2 financial data
- NT2 statistical data
- NT2 theoretical data
- RT cinda
- RT comparative evaluations
- RT data base management
- RT data covariances
- RT data processing
- RT information needs
- RT redundancy

**DATA ACQUISITION**

- UF acquisition (data)
- SF gidep
- SF government industry data exchange program (gidep)
- RT compiled data
- RT data compilation
- RT data processing
- RT recording systems
- RT reporting requirements

**DATA ACQUISITION SYSTEMS**

Systems for converting data to machine readable form and gathering it into a computer store.

- RT camac system
- RT electronic equipment
- RT fastbus system
- RT identification systems
- RT nuclear instrument modules
- RT readout systems
- RT recording systems

**DATA ANALYSIS**

INIS: 1991-10-08; ETDE: 1975-12-16

- RT computer calculations
- RT data processing
- RT ground truth measurements
- RT prony method

**DATA BASE MANAGEMENT**

INIS: 1986-07-09; ETDE: 1978-07-05

- BT1 management
- RT data
- RT data compilation
- RT data processing
- RT data tagging
- RT geographic information systems
- RT information
- RT information retrieval
- RT information systems
- RT nuclear data collections

**DATA COMPILATION**

1985-12-10

The process of compiling large volumes of data. For data flagging use COMPILED DATA.

- \*BT1 data
- RT compiled data
- RT data acquisition
- RT data base management
- RT documentation
- RT information centers
- RT information systems
- RT libraries
- RT nuclear data collections

**data compilation (evaluated)**

INIS: 1978-10-20; ETDE: 2002-06-13

- USE evaluated data

**DATA COVARIANCES**

INIS: 1985-12-10; ETDE: 1979-02-27

Relates to statistical uncertainties in measured quantities.

- UF uncertainty in data values
- RT accuracy
- RT data
- RT errors
- RT statistics

**data display devices**

- USE display devices

**data display systems**

- USE display devices

**DATA-FLOW PROCESSING**

INIS: 1992-08-18; ETDE: 1984-02-10

- BT1 programming

RT algorithms  
RT computers

**data forms**

INIS: 2000-04-12; ETDE: 1982-06-07

(Prior to February 1997 this was a valid ETDE descriptor.)

USE document types

**DATA PROCESSING**

2000-02-01

*Manipulation of unit facts.*

UF chernoff faces  
UF electronic data processing  
UF handling (data)  
UF processing (data)  
SF card punches  
BT1 processing  
NT1 distributed data processing  
NT1 memory management  
NT1 spectra unfolding  
NT1 task scheduling  
RT array processors  
RT calculators  
RT computers  
RT data  
RT data acquisition  
RT data analysis  
RT data base management  
RT data transmission  
RT data transmission systems  
RT digital filters  
RT digital frequency analysis  
RT digitizers  
RT expert systems  
RT frequency analysis  
RT image processing  
RT image scanners  
RT information theory  
RT multi-parameter analysis  
RT pattern recognition  
RT personal computers  
RT prony method  
RT recording systems

**data processors**

INIS: 1984-04-04; ETDE: 1984-05-10

USE digital computers

**data storage devices**

USE memory devices

**DATA TAGGING**

INIS: 1999-05-13; ETDE: 1980-05-23

UF numerical data tagging  
RT data base management  
RT information retrieval  
RT information systems

**DATA TRANSMISSION**

(From July 1984 till April 1997

CRYPTOGRAPHY was a valid ETDE descriptor.)

UF transmission (data)  
BT1 communications  
NT1 telemetry  
RT camac system  
RT computer networks  
RT cryptography  
RT data processing  
RT data transmission systems  
RT equipment interfaces  
RT multiplexers  
RT nuclear instrument modules  
RT quantum teleportation  
RT signal conditioning  
RT signal distortion  
RT signals  
RT telephones

**DATA TRANSMISSION SYSTEMS**

INIS: 1985-03-19; ETDE: 1982-02-23

RT communications  
RT data processing  
RT data transmission

**data validation**

INIS: 2000-04-12; ETDE: 1979-12-17

USE verification

**DATES**

\*BT1 fruits

**dating**

ETDE: 1975-09-11

USE age estimation

**datum pressure**

INIS: 1986-07-09; ETDE: 1978-09-11

USE reservoir pressure

**DAUGHTER PRODUCTS**

UF decay products  
BT1 isotopes  
RT natural radioactivity  
RT radioisotope generators

**davidite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE oxide minerals  
USE uranium minerals

**DAVIS BESSE-1 REACTOR**

1975-10-29

*FirstEnergy Nuclear Operating Co., Oak Harbor, Ohio, USA.*

UF davis besse reactor  
UF oak harbor ohio reactor  
\*BT1 pwr type reactors

**DAVIS BESSE-2 REACTOR**

1977-10-17

*Toledo Edison Co., Oak Harbor, Ohio, USA. Canceled in 1980 before construction began.*

\*BT1 pwr type reactors

**DAVIS BESSE-3 REACTOR**

1977-10-17

*Toledo Edison Co., Oak Harbor, Ohio, USA. Canceled in 1980 before construction began.*

\*BT1 pwr type reactors

**davis besse reactor**

INIS: 1990-12-06; ETDE: 1976-02-19

(Prior to December 1990, this was a valid descriptor.)

USE davis besse-1 reactor

**davy s-h process**

INIS: 2000-04-12; ETDE: 1984-12-26

*A lime-based, formic-acid-buffered process using in-loop forced oxidation for flue gas desulfurization.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE desulfurization

**DAVYDOV-FILIPOV MODEL**

UF davydov model

\*BT1 nuclear models  
RT collective model

**davydov model**

USE davydov-filipov model

**DAWSONITE**

2000-04-12

*A mineral consisting of a basic sodium aluminum carbonate occurring in white beaded crystals.*

\*BT1 carbonate minerals

RT aluminium compounds  
RT hydroxides  
RT sodium carbonates

**DAYA BAY-1 REACTOR**

2003-01-22

*Shenzhen, Guangdong, China.*

(Prior to January 2003 DAYA BAY REACTOR was used.)

UF daya bay reactor

\*BT1 pwr type reactors

**DAYA BAY-2 REACTOR**

2003-01-22

*Shenzhen, Guangdong, China.*

\*BT1 pwr type reactors

**daya bay reactor**

INIS: 1991-09-17; ETDE: 1991-11-22

*Shenzhen, Guangdong, China.*

(Prior to January 2003 this was a valid descriptor.)

USE daya bay-1 reactor

**dayglow**

USE airglow

**DAYLIGHTING**

INIS: 2000-04-12; ETDE: 1981-01-09

UF natural lighting  
RT illuminance  
RT lighting requirements  
RT lighting systems  
RT skylights  
RT solar radiation  
RT windows

**DAYS LIVING RADIOISOTOPES**

\*BT1 radioisotopes  
NT1 actinium 225  
NT1 actinium 226  
NT1 americium 240  
NT1 antimony 119  
NT1 antimony 120  
NT1 antimony 122  
NT1 antimony 124  
NT1 antimony 126  
NT1 antimony 127  
NT1 argon 37  
NT1 arsenic 71  
NT1 arsenic 72  
NT1 arsenic 73  
NT1 arsenic 74  
NT1 arsenic 76  
NT1 arsenic 77  
NT1 barium 128  
NT1 barium 131  
NT1 barium 133  
NT1 barium 135  
NT1 barium 140  
NT1 berkelium 245  
NT1 berkelium 246  
NT1 berkelium 249  
NT1 beryllium 7  
NT1 bismuth 205  
NT1 bismuth 206  
NT1 bismuth 210  
NT1 bromine 77  
NT1 bromine 82  
NT1 cadmium 115  
NT1 calcium 45  
NT1 calcium 47  
NT1 californium 246  
NT1 californium 248  
NT1 californium 253  
NT1 californium 254  
NT1 cerium 134  
NT1 cerium 137  
NT1 cerium 139  
NT1 cerium 141  
NT1 cerium 143

**NTI** cerium 144  
**NTI** cesium 129  
**NTI** cesium 131  
**NTI** cesium 132  
**NTI** cesium 136  
**NTI** chromium 51  
**NTI** cobalt 56  
**NTI** cobalt 57  
**NTI** cobalt 58  
**NTI** copper 67  
**NTI** curium 240  
**NTI** curium 241  
**NTI** curium 242  
**NTI** dysprosium 159  
**NTI** dysprosium 166  
**NTI** einsteinium 251  
**NTI** einsteinium 253  
**NTI** einsteinium 254  
**NTI** einsteinium 255  
**NTI** erbium 160  
**NTI** erbium 169  
**NTI** erbium 172  
**NTI** europium 145  
**NTI** europium 146  
**NTI** europium 147  
**NTI** europium 148  
**NTI** europium 149  
**NTI** europium 156  
**NTI** fermium 252  
**NTI** fermium 253  
**NTI** fermium 257  
**NTI** gadolinium 146  
**NTI** gadolinium 147  
**NTI** gadolinium 149  
**NTI** gadolinium 151  
**NTI** gadolinium 153  
**NTI** gallium 67  
**NTI** germanium 68  
**NTI** germanium 69  
**NTI** germanium 71  
**NTI** gold 194  
**NTI** gold 195  
**NTI** gold 196  
**NTI** gold 198  
**NTI** gold 199  
**NTI** hafnium 175  
**NTI** hafnium 179  
**NTI** hafnium 181  
**NTI** holmium 166  
**NTI** indium 111  
**NTI** indium 114  
**NTI** iodine 124  
**NTI** iodine 125  
**NTI** iodine 126  
**NTI** iodine 131  
**NTI** iridium 188  
**NTI** iridium 189  
**NTI** iridium 190  
**NTI** iridium 192  
**NTI** iridium 193  
**NTI** iridium 194  
**NTI** iron 59  
**NTI** krypton 79  
**NTI** lanthanum 140  
**NTI** lead 203  
**NTI** lutetium 169  
**NTI** lutetium 170  
**NTI** lutetium 171  
**NTI** lutetium 172  
**NTI** lutetium 174  
**NTI** lutetium 177  
**NTI** manganese 52  
**NTI** manganese 54  
**NTI** mendelevium 258  
**NTI** mercury 195  
**NTI** mercury 197  
**NTI** mercury 203  
**NTI** molybdenum 99  
**NTI** neodymium 140

**NTI** neodymium 147  
**NTI** neptunium 234  
**NTI** neptunium 238  
**NTI** neptunium 239  
**NTI** nickel 56  
**NTI** nickel 57  
**NTI** nickel 66  
**NTI** niobium 91  
**NTI** niobium 92  
**NTI** niobium 95  
**NTI** osmium 185  
**NTI** osmium 191  
**NTI** osmium 193  
**NTI** palladium 100  
**NTI** palladium 103  
**NTI** phosphorus 32  
**NTI** phosphorus 33  
**NTI** platinum 188  
**NTI** platinum 191  
**NTI** platinum 193  
**NTI** platinum 195  
**NTI** plutonium 237  
**NTI** plutonium 246  
**NTI** plutonium 247  
**NTI** polonium 206  
**NTI** polonium 210  
**NTI** praseodymium 143  
**NTI** promethium 143  
**NTI** promethium 148  
**NTI** promethium 149  
**NTI** promethium 151  
**NTI** protactinium 229  
**NTI** protactinium 230  
**NTI** protactinium 232  
**NTI** protactinium 233  
**NTI** radium 223  
**NTI** radium 224  
**NTI** radium 225  
**NTI** radon 222  
**NTI** rhenium 182  
**NTI** rhenium 183  
**NTI** rhenium 184  
**NTI** rhenium 186  
**NTI** rhenium 189  
**NTI** rhodium 101  
**NTI** rhodium 102  
**NTI** rhodium 105  
**NTI** rhodium 99  
**NTI** rubidium 83  
**NTI** rubidium 84  
**NTI** rubidium 86  
**NTI** ruthenium 103  
**NTI** ruthenium 97  
**NTI** samarium 145  
**NTI** samarium 153  
**NTI** scandium 44  
**NTI** scandium 46  
**NTI** scandium 47  
**NTI** scandium 48  
**NTI** selenium 72  
**NTI** selenium 75  
**NTI** silver 105  
**NTI** silver 106  
**NTI** silver 110  
**NTI** silver 111  
**NTI** strontium 82  
**NTI** strontium 83  
**NTI** strontium 85  
**NTI** strontium 89  
**NTI** sulfur 35  
**NTI** tantalum 177  
**NTI** tantalum 182  
**NTI** tantalum 183  
**NTI** technetium 95  
**NTI** technetium 96  
**NTI** technetium 97  
**NTI** tellurium 118  
**NTI** tellurium 119  
**NTI** tellurium 121

**NTI** tellurium 123  
**NTI** tellurium 125  
**NTI** tellurium 127  
**NTI** tellurium 129  
**NTI** tellurium 131  
**NTI** tellurium 132  
**NTI** terbium 153  
**NTI** terbium 155  
**NTI** terbium 156  
**NTI** terbium 160  
**NTI** terbium 161  
**NTI** thallium 200  
**NTI** thallium 201  
**NTI** thallium 202  
**NTI** thorium 227  
**NTI** thorium 231  
**NTI** thorium 234  
**NTI** thulium 165  
**NTI** thulium 167  
**NTI** thulium 168  
**NTI** thulium 170  
**NTI** thulium 172  
**NTI** tin 113  
**NTI** tin 117  
**NTI** tin 119  
**NTI** tin 121  
**NTI** tin 123  
**NTI** tin 125  
**NTI** tungsten 178  
**NTI** tungsten 181  
**NTI** tungsten 185  
**NTI** tungsten 187  
**NTI** tungsten 188  
**NTI** uranium 230  
**NTI** uranium 231  
**NTI** uranium 237  
**NTI** vanadium 48  
**NTI** vanadium 49  
**NTI** xenon 127  
**NTI** xenon 129  
**NTI** xenon 131  
**NTI** xenon 133  
**NTI** ytterbium 166  
**NTI** ytterbium 169  
**NTI** ytterbium 175  
**NTI** yttrium 87  
**NTI** yttrium 88  
**NTI** yttrium 90  
**NTI** yttrium 91  
**NTI** zinc 65  
**NTI** zinc 72  
**NTI** zirconium 88  
**NTI** zirconium 89  
**NTI** zirconium 95  
*RT* half-life  
*RT* lifetime

**DBP***UF* dibutyl phosphate

\*BT1 butyl phosphates

**DC AMPLIFIERS**

\*BT1 amplifiers

**dc resins**

1996-06-26

(Prior to June 1996 this was a valid ETDE descriptor.)

USE silicones

**DC SYSTEMS***INIS: 1992-03-09; ETDE: 1976-05-17**Direct-current electric power systems.*

\*BT1 power systems

**NTI** ehv dc systems**NTI** hvdc systems**NTI** uhv dc systems

**dc to ac inverters**

INIS: 1976-09-06; ETDE: 1975-08-19  
USE inverters

**DC TO DC CONVERTERS**

INIS: 1983-06-02; ETDE: 1975-08-19  
UF converters (electric)  
\*BT1 electrical equipment  
RT inverters  
RT power conditioning circuits  
RT power supplies  
RT rectifiers  
RT transformers

**DCA REACTOR**

JNC, Oarai, Ibaraki, Japan.  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 tank type reactors  
\*BT1 zero power reactors

**DCI ORSAY STORAGE RING**

BT1 storage rings

**DCTA**

Diaminocyclohexanetetraacetic acid.  
UF diaminocyclohexanetetraacetic acid  
\*BT1 amino acids  
BT1 chelating agents

**dcx devices**

1996-06-26  
(Until June 1996 this was a valid descriptor.)  
USE magnetic mirrors

**ddg**

INIS: 2000-04-12; ETDE: 1981-08-04  
USE distillers dried grains

**DDT**

UF dichlorodiphenyltrichloroethane  
\*BT1 aromatics  
\*BT1 insecticides  
\*BT1 organic chlorine compounds  
RT ethane

**DE BROGLIE WAVELENGTH**

1998-02-26  
BT1 wavelengths  
RT quantum mechanics

**DE-EXCITATION**

BT1 energy-level transitions  
NT1 radiationless decay  
RT excitation  
RT relaxation

**DE HAAS-VAN ALPHEN EFFECT**

RT diamagnetism

**DE SITTER GROUP**

\*BT1 lie groups

**DEACTIVATION**

1985-07-23  
RT chemical activation

**DEAD SEA**

INIS: 1978-04-21; ETDE: 1977-01-28  
\*BT1 lakes

**DEAD TIME**

UF live time  
BT1 timing properties  
RT sensitivity  
RT time measurement  
RT timing circuits

**DEAERATORS**

INIS: 1984-04-04; ETDE: 1982-10-20  
Devices that remove dissolved gases from liquids.  
RT aeration

RT boilers  
RT dissolved gases  
RT feedwater  
RT water treatment

**dealers**

INIS: 1992-04-03; ETDE: 1979-10-03  
USE marketers

**DEALKYLATION**

BT1 chemical reactions

**DEAMINATION**

BT1 chemical reactions  
RT amination

**DEASHING**

1992-07-07  
RT ashes  
RT cleaning  
RT purification  
RT removal

**DEASPHALTING**

INIS: 2000-04-12; ETDE: 1979-05-25  
The process of removing asphalt from petroleum fractions.  
\*BT1 extraction

**DEATH**

RT cell killing  
RT lethal irradiation  
RT life span  
RT mortality  
RT supralethal irradiation

**debts**

INIS: 2000-04-12; ETDE: 1979-12-10  
SEE financial data

**DEBRECEN CYCLOTRON**

INIS: 1985-05-15; ETDE: 1985-07-18  
At ATOMKI, Debrecen, Hungary.  
UF atomki cyclotron  
\*BT1 isochronous cyclotrons

**debris (nuclear)**

USE fission products

**DEBT COLLECTION**

INIS: 2000-04-12; ETDE: 1983-05-21  
RT accounting  
RT administrative procedures  
RT audits  
RT interest rate  
RT procurement

**debye cutoff**

USE debye length

**DEBYE LENGTH**

1999-07-20  
UF debye cutoff  
UF debye shield  
UF debye shielding length  
\*BT1 length  
RT plasma density

**DEBYE-SCHERRER METHOD**

BT1 diffraction methods  
RT powders  
RT structural chemical analysis  
RT x-ray diffraction

**debye shield**

USE debye length

**debye shielding length**

USE debye length

**DEBYE TEMPERATURE**

UF temperature (debye)  
RT specific heat

**DEBYE-WALLER FACTOR**

RT diffraction  
RT lattice vibrations

**DEC COMPUTERS**

INIS: 1980-09-12; ETDE: 1980-03-29  
Computers manufactured by Digital Equipment Corporation.  
UF vax computers  
BT1 computers  
NT1 pdp computers

**DECA DEVICES**

\*BT1 magnetic mirrors

**decahydronaphthalene**

USE decalin

**DECALIN**

UF decahydronaphthalene  
\*BT1 cycloalkanes  
RT naphthalene

**decalso**

USE ion exchange materials

**DECANE**

1984-04-04  
\*BT1 alkanes

**DECANOIC ACID**

UF capric acid  
\*BT1 monocarboxylic acids

**DECANOLS**

UF decyl alcohols  
\*BT1 alcohols

**DECANTATION**

BT1 separation processes  
RT sedimentation

**DECAPODS**

INIS: 1993-07-14; ETDE: 1981-06-15  
\*BT1 crustaceans  
NT1 crabs  
NT1 lobsters  
NT1 prawns  
NT1 shrimp

**DECARBONIZATION**

RT carbonization  
RT cleaning  
RT decontamination

**decarboxylase**

1982-06-09  
(Prior to June 1982 this was a valid term, and older material is so indexed.)  
USE decarboxylases

**DECARBOXYLASES**

INIS: 1982-06-09; ETDE: 1980-11-12  
UF decarboxylase  
\*BT1 carboxy-lyases

**DECARBOXYLATION**

BT1 chemical reactions  
RT carboxylation  
RT lyases

**DECARBURIZATION**

1976-06-23  
BT1 chemical reactions  
RT austenite  
RT carbides  
RT carbon  
RT carburization  
RT heat treatments  
RT steels

**DECAY**

For nuclear or particle decay only. For chemical or biological decay, see DECOMPOSITION.

UF degradation (nuclear)

UF disintegration (nuclear)

UF fragments (decay)

NT1 nuclear decay

NT2 alpha decay

NT2 beta decay

NT3 beta-minus decay

NT4 double beta decay

NT3 beta-plus decay

NT3 electron capture decay

NT4 k capture

NT4 l capture

NT4 m capture

NT2 gamma decay

NT2 heavy ion emission decay

NT3 carbon 12 emission decay

NT3 carbon 14 emission decay

NT3 carbon 16 emission decay

NT3 magnesium 28 emission decay

NT3 magnesium 30 emission decay

NT3 neon 24 emission decay

NT3 oxygen 16 emission decay

NT3 silicon 32 emission decay

NT3 silicon 34 emission decay

NT2 internal conversion

NT3 k conversion

NT3 l conversion

NT3 m conversion

NT2 proton-emission decay

NT2 spontaneous fission

NT1 particle decay

NT2 electromagnetic particle decay

NT2 hadronic particle decay

NT2 radiative decay

NT2 weak particle decay

NT3 leptonic decay

NT3 semileptonic decay

NT3 weak hadronic decay

RT angular correlation

RT branching ratio

RT delayed alpha particles

RT delayed gamma radiation

RT delayed neutrons

RT delayed protons

RT energy-level transitions

RT forbidden transitions

RT ft value

RT half-life

RT interactions

RT internal pair production

RT isomeric transitions

RT lifetime

RT mixing ratio

RT particle kinematics

RT radioisotope generators

RT selection rules

**decay (biological)**

USE decomposition

**DECAY AMPLITUDES**

\*BT1 transition amplitudes

**decay heat**

INIS: 1976-07-30; ETDE: 2002-06-13

SEE after-heat

**decay heat removal**

INIS: 2000-04-12; ETDE: 1976-03-11

USE after-heat removal

**DECAY INSTABILITY**

\*BT1 plasma instability

RT plasma macroinstabilities

RT plasma microinstabilities

RT plasma waves

**decay products**

USE daughter products

**deceleration**

USE acceleration

**dechanneling**

USE channeling

**DECHLORINATION**

\*BT1 dehalogenation

RT chlorination

**DECIDUOUS TREES**

1993-07-14

Trees that show seasonal shedding of leaves.

\*BT1 trees

**decimeter wave radiation (1-3 dm)**

2000-03-31

USE ghz range 01-100

USE radiowave radiation

**decimeter wave radiation (3-10dm)**

2000-04-12

USE mhz range 100-1000

USE radiowave radiation

**DECISION MAKING**

INIS: 1996-05-06; ETDE: 1976-08-04

For documents describing a formal process for reaching a decision, i.e., making a choice among alternatives, and its associated techniques, to establish policies or procedures.

(From September 1982 till March 1997

OPERATIONS RESEARCH was a valid ETDE descriptor.)

SF operations research

RT advisory committees

RT decision tree analysis

RT game theory

RT intervenors

RT planning

RT regional cooperation

RT time-series analysis

**DECISION TREE ANALYSIS**

1996-05-06

RT control

RT decision making

RT planning

**decisions and orders**

INIS: 2000-04-12; ETDE: 1979-12-10

(Prior to March 1996 this was a valid ETDE descriptor.)

SEE administrative procedures

**DECK EFFECT**

Kinematic peak in the mass spectrum of resonance particles.

RT kinetics

RT resonance particles

**DECLADDING**

BT1 head end processes

NT1 chemical decladding

NT1 mechanical decladding

RT cladding

RT fuel cans

RT fuel elements

RT reprocessing

**DECLASSIFICATION**

INIS: 1998-07-06; ETDE: 1983-03-24

UF information declassification

RT classified information

RT public information

**DECOMMISSIONING**

1996-04-29

NT1 reactor decommissioning

RT cancellation

RT commissioning

RT remedial action

RT shutdown

**DECOMPOSITION**

UF decay (biological)

UF degradation (chemical)

UF disintegration (biological)

UF disintegration (chemical)

BT1 chemical reactions

NT1 autolysis

NT2 autoradiolysis

NT1 biodegradation

NT1 carbonization

NT2 coking

NT2 electrocarbonization

NT1 depolymerization

NT1 destructive distillation

NT1 glycolysis

NT1 hemolysis

NT1 photolysis

NT2 biophotolysis

NT1 proteolysis

NT2 fibrinolysis

NT1 pyrolysis

NT2 calcination

NT2 cracking

NT3 catalytic cracking

NT3 hydrocracking

NT3 thermal cracking

NT2 flash hydroxyolysis process

NT1 radiolysis

NT2 autoradiolysis

NT1 retorting

NT2 in-situ retorting

NT1 solvolysis

NT2 acetolysis

NT2 ammonolysis

NT2 hydrolysis

NT3 acid hydrolysis

NT3 alkaline hydrolysis

NT3 autohydrolysis

NT3 enzymatic hydrolysis

NT3 saccharification

NT3 saponification

RT aerobic conditions

RT anaerobic conditions

RT catabolism

RT composting

RT dissociation

RT nucleic acid denaturation

RT strand breaks

RT thermal gravimetric analysis

RT weathering

**DECONTAMINATION**

UF decontamination factor

UF radiation decontamination

UF radioactive decontamination

BT1 cleaning

RT bioadsorbents

RT chelating agents

RT clays

RT coolant cleanup systems

RT decarbonization

RT detergents

RT detoxification

RT lavage

RT life support systems

RT natural attenuation

RT protective coatings

RT purification

RT radiation protection

RT remedial action

RT safety showers

RT scrubbing  
 RT surface cleaning  
 RT surface contamination  
 RT washout

**decontamination factor**

USE decontamination  
 USE efficiency

**DECOUPLING**

RT coupling  
 RT ft value

**decyl alcohols**

USE decanols

**decylamine-tris**

USE tda

**DEDTC**

UF diethyldithiocarbamates  
 \*BT1 carbamates  
 BT1 chelating agents  
 \*BT1 organic sulfur compounds

**DEEP INELASTIC HEAVY ION REACTIONS**

INIS: 1978-08-14; ETDE: 1978-10-19

UF deep inelastic transfer reactions  
 UF strongly damped heavy ion reactions  
 \*BT1 heavy ion reactions  
 RT compound-nucleus reactions  
 RT heavy ion fusion reactions  
 RT incomplete fusion reactions  
 RT nuclear fragmentation  
 RT precompound-nucleus emission  
 RT quasi-fission

**DEEP INELASTIC SCATTERING**

INIS: 1975-09-16; ETDE: 1975-10-28

*Lepton-nucleon inelastic scattering involving an exchange of a virtual photon.*

\*BT1 inelastic scattering  
 \*BT1 lepton-nucleon interactions  
 RT boson-exchange models  
 RT emc effect  
 RT resonance scattering  
 RT virtual particles

**deep inelastic transfer reactions**

INIS: 1993-11-05; ETDE: 2002-06-13

USE deep inelastic heavy ion reactions

**DEEP LEVEL TRANSIENT****SPECTROSCOPY**

INIS: 1999-06-23; ETDE: 1983-04-28

*Means of obtaining Fourier components of transient response of deep energy levels in semiconductors.*

UF dlts  
 BT1 spectroscopy  
 RT capacitance  
 RT transients  
 RT traps

**DEEP RIVER**

\*BT1 ontario

**DEEP WATER OIL TERMINALS**

1993-06-02

*Oil terminals located in deep water for supertankers.*

BT1 terminal facilities  
 RT moorings  
 RT tanker ships  
 RT transport

**DEER**

UF caribou  
 UF mule deer  
 UF odocoileus  
 UF reindeer

\*BT1 ruminants

RT antlers

**DEES**

BT1 electrodes  
 RT cyclotrons  
 RT mass spectrometers

**DEFECTS**

*Not for the concept covered by CRYSTAL*

**DEFECTS.**

UF flaws  
 UF imperfections  
 RT cracks  
 RT fracture mechanics  
 RT fractures  
 RT porosity  
 RT stress intensity factors  
 RT voids

**defense**

INIS: 2000-04-12; ETDE: 1979-11-23

USE national defense

**defense atomic support agency trigamk-f**

1993-11-05

USE afri reactor

**defense production act**

INIS: 2000-04-12; ETDE: 1983-03-23

*(Prior to February 1995, this was a valid ETDE descriptor.)*

SEE national defense

**DEFEROXAMINE**

UF dfa

\*BT1 amines

BT1 chelating agents

**deficiency (nutritional)**

USE nutritional deficiency

**DEFORESTATION**

INIS: 1991-10-10; ETDE: 1983-09-15

RT biomass  
 RT carbon cycle  
 RT forestry  
 RT forests  
 RT revegetation

**DEFORMATION**

*(From January 1975 till May 1996 Portevin-le Chatelier effect was a valid ETDE descriptor.)*

UF buckling (structural)  
 UF portevin-le chatelier effect  
 UF structural buckling  
 NT1 bending  
 NT1 bowing  
 NT1 corrosion denting  
 NT1 elongation  
 NT1 nuclear deformation  
 NT1 ratcheting  
 NT1 swelling  
 RT dilatancy  
 RT dynamic loads  
 RT elasticity  
 RT fractures  
 RT magnetostriction  
 RT materials working  
 RT mechanical properties  
 RT plasticity  
 RT rheology  
 RT slip  
 RT static loads  
 RT strains  
 RT torsion

**DEFORMED NUCLEI**

*Nuclei which are deformed even in the ground state.*

UF nonaxial nuclei

BT1 nuclei

NT1 superdeformed nuclei  
 RT aligned coupling scheme  
 RT backbending  
 RT cranking model  
 RT governor model  
 RT nuclear deformation  
 RT nuclear models  
 RT rotation-vibration model

**DEFROSTING**

INIS: 2000-04-12; ETDE: 1982-02-23

*Removal of frost or ice from an object.*

RT freezing  
 RT frost  
 RT ice  
 RT melting  
 RT thawing

**DEGASSING**

UF outgassing  
 RT castings  
 RT desorption  
 RT fission product release

**degradation (chemical)**

USE decomposition

**degradation (energy)**

USE energy losses

**degradation (nuclear)**

USE decay

**degradation (radioinduced)**

INIS: 1976-11-17; ETDE: 1975-09-11

USE radiolysis

**degradation (thermal)**

INIS: 2000-04-12; ETDE: 1976-06-07

USE thermal degradation

**DEGREE DAYS**

INIS: 1993-01-13; ETDE: 1975-09-30

BT1 units  
 RT air conditioning  
 RT climates  
 RT space heating  
 RT temperature measurement

**DEGREES OF FREEDOM**

INIS: 1985-07-22; ETDE: 1986-10-07

RT mechanics  
 RT statistics  
 RT thermodynamics  
 RT variations

**DEHALOGENATION**

INIS: 1982-10-28; ETDE: 1982-11-30

BT1 chemical reactions  
 NT1 dechlorination  
 NT1 deiodination

**dehpa**

SEE hdehp  
 SEE phosphonic acid esters

**dehumidification**

INIS: 2000-04-12; ETDE: 1978-12-11

*(Prior to February 1997 this was a valid ETDE descriptor.)*

SEE dehydration  
 SEE drying

**DEHUMIDIFIERS**

INIS: 1984-04-04; ETDE: 1977-06-21

RT desiccants  
 RT dryers  
 RT electric appliances  
 RT humidifiers

**DEHYDRATION**

(From December 1978 to February 1997 DEHUMIDIFICATION was a valid ETDE descriptor.)

- SF* *dehumidification*
- RT* desiccants
- RT* drying
- RT* evaporation
- RT* water removal

**dehydrators**

*INIS: 2000-04-12; ETDE: 1977-01-28*  
*Vessels or process systems for removal of liquids from gases or solids by the use of heat, absorbents, or adsorbents.*  
 (Prior to February 1997 this was a valid ETDE descriptor.)  
 USE dryers

**DEHYDRIDATION**

*INIS: 1999-07-12; ETDE: 1978-06-14*  
 BT1 chemical reactions  
*RT* hydridation  
*RT* hydrogen

**DEHYDROCYCLIZATION**

*INIS: 1985-06-10; ETDE: 1983-04-28*  
*UF* *condensation (organic compounds)*  
 BT1 chemical reactions

**dehydroepiandrosterone**

USE hydroxyandrostenone

**dehydrogenases**

2000-04-12  
 (Prior to January 1981 this was a valid ETDE descriptor, and older material is so indexed.)  
 USE oxidoreductases

**DEHYDROGENATION**

- BT1 chemical reactions
- RT* deuteration
- RT* hydrogenation

**DEIODINATION**

- \*BT1 dehalogenation
- RT* iodination

**dekatrons**

USE counting tubes

**DELAWARE**

- \*BT1 usa
- RT* delaware bay
- RT* delaware river
- RT* us east coast

**DELAWARE BAY**

*INIS: 1992-01-09; ETDE: 1978-09-13*  
 \*BT1 atlantic ocean  
 \*BT1 bays  
*RT* delaware

**DELAWARE RIVER**

- \*BT1 rivers
- RT* delaware
- RT* new jersey
- RT* new york
- RT* pennsylvania

**DELAY CIRCUITS**

- BT1 electronic circuits
- RT* pulse techniques

**DELAYED ALPHA PARTICLES**

- \*BT1 alpha particles
- RT* alpha decay
- RT* decay

**DELAYED GAMMA RADIATION**

- \*BT1 gamma radiation
- RT* decay
- RT* nuclear reactions

*RT* photons

**DELAYED NEUTRON ANALYSIS**

*INIS: 1977-01-26; ETDE: 1977-04-13*  
 \*BT1 nondestructive analysis  
 \*BT1 nuclear reaction analysis  
*RT* delayed neutrons  
*RT* nuclear reaction analyzers

**DELAYED NEUTRON FRACTION**

*RT* delayed neutrons

**DELAYED NEUTRON PRECURSORS**

*UF* *precursors (delayed neutron)*  
*UF* *precursors (delayed neutrons)*  
 \*BT1 radioisotopes  
*RT* beta-delayed neutrons  
*RT* delayed neutrons

**DELAYED NEUTRONS**

*For fission neutrons only. For delayed neutrons not resulting from fission, see BETA-DELAYED NEUTRONS. (Scope note added in 1985.*

- \*BT1 fission neutrons
- RT* decay
- RT* delayed neutron analysis
- RT* delayed neutron fraction
- RT* delayed neutron precursors
- RT* reactor kinetics

**DELAYED PROTON PRECURSORS**

*INIS: 1976-10-29; ETDE: 1976-12-16*  
*UF* *precursors (delayed proton)*  
*UF* *precursors (delayed protons)*  
 \*BT1 radioisotopes  
*RT* delayed protons  
*RT* neutron-deficient isotopes

**DELAYED PROTONS**

*UF* *beta-delayed protons*  
 \*BT1 protons  
*RT* beta-plus decay  
*RT* decay  
*RT* delayed proton precursors  
*RT* electron capture decay  
*RT* neutron-deficient isotopes

**DELAYED RADIATION EFFECTS**

*UF* *chronic radiation effects*  
*UF* *delayed radiation injuries*  
*UF* *late radiation effects*  
 \*BT1 biological radiation effects  
*RT* a-bomb survivors  
*RT* congenital malformations  
*RT* dose commitments  
*RT* early radiation effects  
*RT* genetic radiation effects  
*RT* latency period  
*RT* medical surveillance  
*RT* neoplasms  
*RT* radiation syndrome  
*RT* time dependence

**delayed radiation injuries**

USE delayed radiation effects  
 USE radiation injuries

**DELBRUECK SCATTERING**

\*BT1 inelastic scattering

**deletions (chromosomal)**

USE chromosomal aberrations

**delft hoger onderwijs reactor**

USE hor reactor

**DELIGNIFICATION**

*INIS: 1992-09-04; ETDE: 1978-06-14*  
*Removal of lignin by either enzymatic or chemical means.*  
*RT* cellulose  
*RT* lignin

*RT* plant cells

*RT* wood

**DELIVERY**

*INIS: 1985-12-10; ETDE: 1978-07-05*  
*RT* agreements  
*RT* contracts  
*RT* materials handling  
*RT* postal services  
*RT* transport

**DELORO STELLITE 6**

*INIS: 2000-03-29; ETDE: 1984-07-10*  
*UF* *stellite 6 (deloro)*

**DELPHI METHOD**

*INIS: 2000-04-12; ETDE: 1976-08-04*  
 BT1 forecasting  
*RT* management  
*RT* planning  
*RT* technology assessment

**delphinium**

USE ranunculaceae

**DELTA-1232 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 (Prior to December 1987 this concept was indexed by DELTA-1236 RESONANCES.)  
*UF* *delta-1236 resonances*  
 \*BT1 delta baryons

**delta-1236 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta-1232 baryons

**DELTA-1600 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 (Prior to December 1987 this concept was indexed by DELTA-1650 RESONANCES.)  
*UF* *delta-1650 resonances*  
 \*BT1 delta baryons

**DELTA-1620 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 \*BT1 delta baryons

**delta-1650 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta-1600 baryons

**delta-1670 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta-1700 baryons

**DELTA-1700 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 (Prior to December 1987 this concept was indexed by DELTA-1670 RESONANCES.)  
*UF* *delta-1670 resonances*  
 \*BT1 delta baryons

**delta-1877 resonances**

2000-04-12  
 (Prior to August 1988 this was a valid ETDE descriptor.)  
 SEE n\*baryons

**delta-1890 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta-1900 baryons



**DELTA-1900 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 (Prior to December 1987 this concept was indexed by DELTA-1890 RESONANCES.)  
*UF delta-1890 resonances*  
 \*BT1 delta baryons

**DELTA-1905 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 \*BT1 delta baryons

**DELTA-1910 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 (Prior to December 1987 this concept was indexed by DELTA-1910 RESONANCES.)  
*UF delta-1910 resonances*  
 \*BT1 delta baryons

**delta-1910 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta-1910 baryons

**DELTA-1920 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 \*BT1 delta baryons

**DELTA-1930 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 \*BT1 delta baryons

**DELTA-1950 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 (Prior to December 1987 this concept was indexed by DELTA-1950 RESONANCES.)  
*UF delta-1950 resonances*  
 \*BT1 delta baryons

**delta-1950 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta-1950 baryons

**delta-1960 resonances**

1988-03-08  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta baryons

**DELTA-2000 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 \*BT1 delta baryons

**DELTA-2150 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 \*BT1 delta baryons

**DELTA-2200 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 (Prior to December 1987 this concept was indexed by DELTA-2200 RESONANCES.)  
*UF delta-2200 resonances*  
 \*BT1 delta baryons

**delta-2200 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta-2200 baryons

**DELTA-2400 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 \*BT1 delta baryons

**DELTA-2420 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 (Prior to December 1987 this concept was indexed by DELTA-2420 RESONANCES.)  
*UF delta-2420 resonances*  
 \*BT1 delta baryons

**delta-2420 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta-2420 baryons

**delta-2850 resonances**

1988-03-08  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta baryons

**DELTA-3000 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-19*  
 (Prior to December 1987 this concept was indexed by DELTA-3230 RESONANCES.)  
*UF delta-3230 resonances*  
 \*BT1 delta baryons

**delta-3230 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE delta-3000 baryons

**delta-966 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE a0-980 mesons

**DELTA BARYONS**

*INIS: 1995-07-17; ETDE: 1988-02-19*  
*UF delta-1960 resonances*  
*UF delta-2850 resonances*  
 \*BT1 n\*baryons  
 NT1 delta-1232 baryons  
 NT1 delta-1600 baryons  
 NT1 delta-1620 baryons  
 NT1 delta-1700 baryons  
 NT1 delta-1900 baryons  
 NT1 delta-1905 baryons  
 NT1 delta-1910 baryons  
 NT1 delta-1920 baryons  
 NT1 delta-1930 baryons  
 NT1 delta-1950 baryons  
 NT1 delta-2000 baryons  
 NT1 delta-2150 baryons  
 NT1 delta-2200 baryons  
 NT1 delta-2400 baryons  
 NT1 delta-2420 baryons  
 NT1 delta-3000 baryons

**DELTA FUNCTION**

*UF dirac delta function*  
 BT1 functions  
 RT schwinger terms

**DELTA RAYS**

BT1 radiations  
 RT electrons  
 RT ionizing radiations  
 RT recoils

**delta resonances (baryon)**

1976-08-17  
 USE n\*baryons

**delta resonances (meson)**

2000-04-12  
 USE mesons

**DEMAGNETIZATION**

*INIS: 1977-09-06; ETDE: 1977-10-19*  
 NT1 adiabatic demagnetization  
 RT magnetic fields  
 RT magnetism  
 RT magnetization  
 RT magnets

**demagnetization (adiabatic)**

2000-04-12  
 USE adiabatic demagnetization

**DEMAND**

*INIS: 1985-12-11; ETDE: 1980-02-11*  
 NT1 energy demand  
 NT1 land requirements  
 NT1 lighting requirements  
 NT1 power demand  
 NT1 uranium requirements  
 NT1 water requirements  
 RT availability  
 RT energy consumption  
 RT fuel consumption  
 RT fuel supplies  
 RT supply and demand

**DEMAND FACTORS**

1985-12-10  
*Ratios of the maximum demand to the total connected load.*  
 BT1 dimensionless numbers  
 RT electric power  
 RT energy consumption  
 RT energy demand  
 RT power demand  
 RT supply and demand

**demand limiters**

*INIS: 1978-08-30; ETDE: 1977-03-08*  
 USE current limiters

**DEMBER EFFECT**

RT charge carriers

**demerol**

USE pethidine

**demesmaekerite**

1996-06-26  
 (Until June 1996 this was a valid descriptor.)  
 USE oxide minerals  
 USE uranium minerals

**DEMETALLIZATION**

*INIS: 1998-11-12; ETDE: 1976-05-13*  
 BT1 separation processes

**DEMINERALIZATION**

*Water softening by use of zeolites or resins to remove cations.*  
 BT1 separation processes  
 NT1 desalination  
 RT demineralizers  
 RT distillation  
 RT feedwater  
 RT ion exchange  
 RT water chemistry

**DEMINERALIZERS**

RT demineralization  
 RT reactor cooling systems  
 RT water

**DEMOCRATIC REPUBLIC OF THE CONGO**

1997-08-20  
*Until August 1997 this was known as ZAIRE REPUBLIC.*

*UF congo democratic republic*  
*UF republic of zaire*  
*UF zaire republic*  
 BT1 africa  
 BT1 developing countries  
 NT1 kinshasa

**DEMOCRITUS REACTOR**

*Greek Atomic Energy Commission, Demokritos, Greece.*  
*UF greek research reactor*  
*UF gr reactor*

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors

**demography**

INIS: 1982-12-03; ETDE: 1980-08-12

The statistical study of human populations with reference to natality, mortality, migratory movements, age, and sex, among other social, ethnic, and economic factors.

USE human populations

**DEMOLITION**

NT1 reactor dismantling

**DEMONSTRATION PLANTS**

INIS: 1994-09-13; ETDE: 1977-01-10

Plants designed to establish the technical and financial feasibility of technologies proven by pilot plant testing.

RT bench-scale experiments  
RT field tests  
RT industrial plants  
RT pilot plants  
RT process development units

**DEMONSTRATION PROGRAMS**

INIS: 1985-12-10; ETDE: 1976-12-16

RT commercialization  
RT experiment planning  
RT planning  
RT program management  
RT research programs  
RT us national program plans

**DEMULSIFICATION**

INIS: 1992-10-01; ETDE: 1976-04-19

RT demulsifiers  
RT emulsification  
RT emulsifiers  
RT emulsions

**DEMULSIFIERS**

INIS: 1992-10-01; ETDE: 1996-01-09

BT1 additives  
RT demulsification  
RT emulsification  
RT emulsifiers  
RT emulsions

**denaturation (nucleic acid)**

USE nucleic acid denaturation

**denaturation (protein)**

USE protein denaturation

**DENATURED FUEL**

INIS: 1978-05-19; ETDE: 1978-01-23

Fuel which has been diluted or spiked so that it is not suitable for weapons use.

\*BT1 nuclear fuels  
RT proliferation  
RT safeguards

**DENDRITES**

BT1 crystals  
RT dendritic web growth method

**DENDRITIC WEB GROWTH METHOD**

INIS: 2000-04-12; ETDE: 1980-02-11

Self-shaping crystal growth method where the crystal is produced directly from the melt without the use of dies or shapers.

UF web growth method  
BT1 crystal growth methods  
RT crystal growth  
RT dendrites  
RT monocrystals  
RT sheets

**denelcor computers**

INIS: 1997-01-28; ETDE: 1984-02-10  
(Until October 1996 this was a valid descriptor.)

USE computers

**DENITRATION**

BT1 chemical reactions  
RT nitric acid  
RT reprocessing

**DENITRIFICATION**

1992-03-18

SF hitachi zosen process  
BT1 chemical reactions  
NT1 combined soxnox processes  
NT2 noxso process  
NT1 selective catalytic reduction  
RT nitrification  
RT nitrogen  
RT nitrogen compounds  
RT shell-uop copper oxide process  
RT solinox process

**DENMARK**

BT1 developed countries  
\*BT1 scandinavia  
RT faeroe islands  
RT greenland  
RT oecd

**DENSIMETERS**

BT1 measuring instruments  
NT1 pycnometers  
RT density  
RT radiometric gages  
RT sedimentometers  
RT weight indicators

**DENSITOMETERS**

\*BT1 photometers  
RT photometry

**DENSITY**

For specific weight only; see also descriptors such as CARRIER DENSITY, CURRENT DENSITY, and FLUX DENSITY.

UF specific gravity  
UF specific volume  
UF specific weight  
BT1 physical properties  
NT1 api gravity  
NT1 bulk density  
RT densimeters  
RT fuel densification  
RT jigs  
RT mass distribution  
RT stopping power  
RT weight

**density (carrier)**

USE carrier density

**density (charge)**

INIS: 1976-05-05; ETDE: 1976-08-26  
USE charge density

**density (current)**

ETDE: 2002-06-13  
USE current density

**density (electron)**

USE electron density

**density (energy-level)**

USE energy-level density

**density (energy)**

INIS: 1980-09-12; ETDE: 1979-04-11  
USE energy density

**density (flux)**

USE flux density

**density (grain)**

USE grain density

**density (ion)**

INIS: 1976-05-05; ETDE: 2002-06-13  
USE ion density

**density (neutron)**

USE neutron density

**density (plasma)**

USE plasma density

**density (population)**

USE population density

**density (power)**

USE power density

**density (proton)**

INIS: 1978-11-24; ETDE: 1980-10-27  
USE proton density

**density (spectral)**

INIS: 1975-12-17; ETDE: 2002-06-13  
USE spectral density

**DENSITY FUNCTIONAL METHOD**

INIS: 2001-02-28; ETDE: 2001-06-08

\*BT1 variational methods  
RT electron correlation  
RT functionals  
RT many-body problem

**density log**

INIS: 2000-04-12; ETDE: 1979-03-27  
USE gamma-gamma logging

**DENSITY MATRIX**

BT1 matrices  
RT mathematical operators  
RT quantum mechanics

**DENTIN**

RT bone tissues  
RT teeth

**denting (corrosion)**

INIS: 1979-05-28; ETDE: 1979-09-06  
USE corrosion denting

**DENTISTRY**

BT1 medicine  
RT caries  
RT teeth

**deoxidation**

USE reduction

**DEOXYCYTIDINE**

UF deoxycytidinuria  
\*BT1 nucleosides  
\*BT1 pyrimidines  
RT cytidine

**deoxycytidinuria**

USE deoxycytidine  
USE urine

**deoxycytidylic acid**

1996-07-18  
(Until July 1996 this was a valid descriptor.)  
USE nucleotides

**deoxypentose nucleic acid**

USE dna

**deoxyribonuclease**

USE dna-ase

**deoxyribonucleic acid**

USE dna

**DEOXYRIBOSE**

\*BT1 aldehydes

\*BT1 pentoses

RT ribosides

**DEOXYURIDINE**

\*BT1 antimetabolites

\*BT1 nucleosides

\*BT1 uracils

RT budr

RT fudr

RT iododeoxyuridine

**department of defense**

INIS: 2000-04-12; ETDE: 1977-10-20

USE us dod

**department of interior**

INIS: 2000-04-12; ETDE: 1978-04-06

USE us doi

**department of transportation**

INIS: 2000-04-12; ETDE: 1977-09-20

USE us dot

**DEPARTURE NUCLEATE BOILING**

UF critical heat flow

UF dnb

\*BT1 nucleate boiling

**DEPHENOLIZATION**

INIS: 2000-04-12; ETDE: 1976-03-11

BT1 chemical reactions

RT phenols

**DEPLETED URANIUM**

\*BT1 uranium

RT fuel cycle

**depletion (isotopic)**

USE isotope separation

**depletion (nuclear fuels)**

USE burnup

**depletion allowances**

INIS: 2000-04-12; ETDE: 1978-01-23

*Deductions allowed to federal income tax based on using up natural resources such as fossil fuels.**(Prior to February 1992 this was a valid ETDE descriptor.)*

USE us depletion allowances

**DEPLETION LAYER**

INIS: 1992-05-28; ETDE: 1980-03-04

*An electric double layer formed at the surface of contact between a metal and a semiconductor having different work functions.*

UF blocking layer

UF space-charge layer

SF barrier layer

BT1 layers

RT semiconductor devices

RT semiconductor materials

RT solar cells

RT surface barrier detectors

RT surface barrier transistors

**DEPOLARIZATION**

RT polarization

**DEPOLYMERIZATION**

\*BT1 decomposition

RT molecular weight

RT polymerization

**DEPOSITION***For the laying down of a substance on a surface; for deposition of elements and nuclides in tissues of living organisms use RETENTION.*

UF dry deposition

NT1 surface coating

NT2 chemical coating

NT3 chemical vapor deposition

NT3 electrochemical coating

NT4 anodization

NT2 cladding

NT2 diffusion coating

NT2 dip coating

NT3 hot dipping

NT2 electrodeposition

NT3 electroplating

NT2 energy beam deposition

NT2 physical vapor deposition

NT2 plating

NT3 electroplating

NT3 vapor plating

NT2 screen printing

NT2 spin-on coating

NT2 spray coating

NT3 flame spraying

NT3 plasma arc spraying

NT2 vacuum coating

RT adsorption

RT deposits

RT fouling

RT masking

RT precipitation

RT retention

RT scaling

RT sputtering

RT thin films

**deposition (gravitational)**

ETDE: 2002-06-13

USE sedimentation

**DEPOSITS**

RT antifoulants

RT coatings

RT deposition

RT fouling

**deposits (geological)**

USE geologic deposits

**DEPRECIATION**

INIS: 2000-06-27; ETDE: 1979-09-26

RT economics

RT financial incentives

RT financing

**depressants (central nervous system)**

INIS: 1993-11-05; ETDE: 2002-06-13

USE central nervous system depressants

**DEPRESSURIZATION**

RT depressurization systems

RT pressure vessels

RT pressurization

RT reactor safety

**DEPRESSURIZATION SYSTEMS**

1985-12-11

RT depressurization

RT eccs

RT pressure vessels

RT reactor protection systems

**DEPTH***For elevation use LEVELS.*

UF depth distribution

BT1 dimensions

NT1 depth 1-3 km

NT1 depth 3-6 km

NT1 depth 6-9 km

NT1 depth 9-12 km

**DEPTH 1-3 KM**

INIS: 2000-04-12; ETDE: 1978-12-20

\*BT1 depth

**DEPTH 3-6 KM**

INIS: 2000-04-12; ETDE: 1978-12-20

\*BT1 depth

**DEPTH 6-9 KM**

INIS: 2000-04-12; ETDE: 1978-12-20

\*BT1 depth

**DEPTH 9-12 KM**

INIS: 2000-04-12; ETDE: 1978-12-20

\*BT1 depth

**depth distribution**

INIS: 1976-09-06; ETDE: 2002-06-13

USE depth

USE spatial distribution

**DEPTH DOSE DISTRIBUTIONS**

UF depth doses

\*BT1 spatial dose distributions

RT buildup

RT isodose curves

RT phantoms

RT radiotherapy

RT range

**depth doses**

USE depth dose distributions

**derby zpr neptune**

USE neptune reactor

**DEREGULATION**

INIS: 1985-12-10; ETDE: 1978-01-23

RT economic policy

RT economics

RT government policies

RT natural gas

RT petroleum

RT pricing regulations

RT regulations

RT us natural gas policy act

**DERIVATIZATION**

INIS: 1992-04-27; ETDE: 1980-11-08

*Conversion of a chemical compound into a derivative, usually for the purpose of identification.*

BT1 chemical reactions

RT chemical analysis

RT structural chemical analysis

**DERMATITIS**

\*BT1 skin diseases

NT1 radiodermatitis

**DESALINATION***Any process for making potable water from sea water or other saline waters.*

\*BT1 demineralization

RT desalination plants

RT desalination reactors

RT distillation

RT dual-purpose power plants

RT evaporators

RT freezing out

RT ion exchange

RT salinity

RT salts

RT seawater

**DESALINATION PLANTS**

INIS: 1986-04-03; ETDE: 1977-08-24

BT1 industrial plants

RT desalination

RT desalination reactors

RT dual-purpose power plants

RT seawater

## DESALINATION REACTORS

BT1 reactors  
 NT1 bn-350 reactor  
 RT desalination  
 RT desalination plants  
 RT power reactors

## DESCALING

BT1 surface finishing  
 RT scale control  
 RT scaling  
 RT scrubbing  
 RT shot peening  
 RT surface cleaning

## desertron

INIS: 1985-01-18; ETDE: 1984-03-06  
 USE superconducting super collider

## DESERTS

BT1 arid lands  
 RT climates  
 RT sand  
 RT terrestrial ecosystems

## DESICCANTS

1985-12-10  
 RT dehumidifiers  
 RT dehydration  
 RT dryers  
 RT drying  
 RT resins  
 RT zeolites

## DESIGN

1991-10-08  
 For conceptual design only; use of a more specific descriptor is recommended.  
 UF design reports  
 NT1 computer-aided design  
 RT diagrams  
 RT engineering drawings  
 RT feasibility studies  
 RT planning  
 RT specifications

## design (technical drawings)

ETDE: 2002-06-13  
 USE diagrams

## design (technical specifications)

INIS: 1993-11-05; ETDE: 2002-06-13  
 USE specifications

## DESIGN BASIS ACCIDENTS

\*BT1 reactor accidents  
 NT1 atws  
 NT1 maximum credible accident

## design reports

2003-10-21  
 USE design  
 USE safety reports

## desiodothyroxine

USE thyronine

## desonox process

INIS: 2000-04-12; ETDE: 1990-05-15  
 USE combined soxnox processes

## desorex process

2000-04-12  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

## DESORPTION

BT1 sorption  
 RT adsorption  
 RT degassing

RT fission product release

## desoxycorticosterone acetate

1996-10-23  
 (Prior to March 1997 DOCA was used for this concept in ETDE.)  
 USE mineralocorticoids

## desoxyribonucleic acid

USE dna

## destructive chemical analysis

INIS: 1976-10-07; ETDE: 2002-06-13  
 (Prior to December 1990, this concept was indexed by DESTRUCTIVE ANALYSIS which is no longer a valid descriptor.)  
 USE chemical analysis

## DESTRUCTIVE DISTILLATION

INIS: 2000-04-12; ETDE: 1975-10-28  
 \*BT1 decomposition  
 \*BT1 distillation  
 RT pyrolysis  
 RT retorting

## DESTRUCTIVE TESTING

\*BT1 materials testing  
 NT1 charpy test  
 RT impact tests  
 RT mechanical properties  
 RT post-irradiation examination

## destrugas process

INIS: 2000-04-12; ETDE: 1976-11-01  
 Gasification in complete absence of air with indirect heating of the pyrolysis chamber with char and pyrolysis gas (fuel gas) as the only products.  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 SEE waste processing

## DESULFOVIBRIO

INIS: 1993-06-08; ETDE: 1981-11-10  
 Genus of strict anaerobes which reduce sulfates to hydrogen sulfide.  
 \*BT1 sulfate-reducing bacteria

## DESULFURIZATION

UF ai aqueous carbonate process  
 UF alkazid process  
 UF ames wet oxidation process  
 UF amisol process  
 UF amoco cba process  
 UF amoco sulfur recovery process  
 UF aquaclus process  
 UF aqueous carbonate process  
 UF as recycling process  
 UF atomics international aqueous carbonate process  
 UF bergbauforschung-foster wheeler process  
 UF bf-wf process  
 UF bom-erda process  
 UF carl still process  
 UF cat-ox process  
 UF catacarb carbon dioxide removal process  
 UF catacarb process  
 UF catalytic-ifp ammonia scrubbing process  
 UF cba process  
 UF chemico process  
 UF chemsweet process  
 UF citrex process  
 UF cleanair process  
 UF conoco process  
 UF czd process  
 UF davy s-h process  
 UF desorex process  
 UF diamox process

UF dowla process  
 UF ferrox process  
 UF fluor econamine process  
 UF fluor solvent process  
 UF fulham-simon-carves process  
 UF fumaks process  
 UF ge process  
 UF girdler-girbotol process  
 UF gravichem process  
 UF grillo process  
 UF haines process  
 UF hazen process  
 UF hipure process  
 UF hirohax process  
 UF hoelter process  
 UF ici process  
 UF ifp process  
 UF igt dehydrodesulfurization process  
 UF ionics electrolytic regeneration process  
 UF jecco process  
 UF koppers vacuum carbonate process  
 UF kureha acetate process  
 UF kvb process  
 UF lucas process  
 UF magnex process  
 UF mining research method  
 UF molten carbonate process  
 UF petit process  
 UF phosphate process  
 UF pircon-peck process  
 UF pittsburgh oxydesulfurization process  
 UF purasiv s process  
 UF reinluft process  
 UF seaboard process  
 UF snpa-dea process  
 UF staufer aquaclus process  
 UF sulfox process  
 UF thylox process  
 UF topsoe-snpa process  
 UF tyco process  
 UF uncracking/hds process  
 UF westvaco process  
 SF syracuse chemical comminution process  
 SF townsend process  
 BT1 chemical reactions  
 NT1 adip process  
 NT1 alkaliized alumina process  
 NT1 ammonia-ammonium bisulfate process  
 NT1 battelle hydrothermal coal process  
 NT1 beavon process  
 NT1 benfield process  
 NT1 bergbauforschung process  
 NT1 cafb process  
 NT1 cea-adl dual alkali process  
 NT1 chiyoda thoroughbred process  
 NT1 citrate process  
 NT1 claus process  
 NT1 cng process  
 NT1 combined soxnox processes  
 NT2 noxso process  
 NT1 consol fgd process  
 NT1 fmc double alkali process  
 NT1 giammarco vetrocoke sulfur process  
 NT1 girbotol process  
 NT1 gravimelt process  
 NT1 gulf hds process  
 NT1 holmes-stretford process  
 NT1 jpl process  
 NT1 ledgemont process  
 NT1 lime-limestone wet scrubbing processes  
 NT2 bischoff process  
 NT1 magnesium slurry scrubbing process  
 NT1 meyers process  
 NT1 molecular sieve process  
 NT1 otto process

**NT1** penelec process  
**NT1** perox process  
**NT1** purisol process  
**NT1** rectisol process  
**NT1** resox process  
**NT1** ric process  
**NT1** saarberg-holter process  
**NT1** scot process  
**NT1** selexol process  
**NT1** shell-uop copper oxide process  
**NT1** solinox process  
**NT1** sorbent injection processes  
**NT1** soxal process  
**NT1** stone and webster ionics process  
**NT1** stretford process  
**NT1** sulf-x process  
**NT1** sulfiban process  
**NT1** sulfinol process  
**NT1** sulfreen process  
**NT1** takahax process  
**NT1** thiosorbic process  
**NT1** trw process  
**NT1** ucap process  
**NT1** unisulf process  
**NT1** vacuum carbonate process  
**NT1** w-l sulfur dioxide recovery process  
**NT1** walther process  
*RT* air pollution abatement  
*RT* catalytic hydrosolvation process  
*RT* dry scrubbers  
*RT* hot gas cleanup  
*RT* rhodococcus  
*RT* sulfate-reducing bacteria  
*RT* sulfur-oxidizing bacteria  
*RT* thiobacillus oxidans  
*RT* us clean coal technology program

## DESY

*Deutsches Elektronen Synchrotron.*

*UF* hamburg synchrotron

\*BT1 synchrotrons

## DETAILED BALANCE PRINCIPLE

\*BT1 t invariance

*RT* cross sections

*RT* hamiltonians

*RT* nuclear reactions

*RT* s matrix

*RT* scattering

## DETECTION

*INIS: 1983-09-06; ETDE: 1979-03-28*

**NT1** boiling detection

**NT1** crime detection

**NT1** failed element detection

**NT1** fuel motion detection

**NT1** nuclear explosion detection

**NT1** radiation detection

**NT2** charged particle detection

**NT3** acoustic detection

**NT3** alpha detection

**NT3** beta detection

**NT3** electron detection

**NT3** ion detection

**NT3** muon detection

**NT3** positron detection

**NT3** proton detection

**NT2** cosmic ray detection

**NT2** fission fragment detection

**NT2** gamma detection

**NT2** kaon detection

**NT2** neutrino detection

**NT2** neutron detection

**NT2** pion detection

**NT2** x-ray detection

**NT1** seismic detection

**NT2** in-country detection

*RT* control

*RT* intrusion detection systems

*RT* monitoring

*RT* motion detection systems

*RT* nuclear materials diversion

*RT* nuclear materials management

*RT* safeguards

### *detection (failed element)*

*2000-04-12*

USE failed element detection

### *detection (nuclear explosions)*

*2000-04-12*

USE nuclear explosion detection

### *detection (radiation)*

*2000-04-12*

*For the detection of elementary particles and radiations refer to narrower terms to radiation detection.*

USE radiation detection

### *detection (seismic)*

*2000-04-12*

USE seismic detection

### *detection limits*

*INIS: 1976-06-23; ETDE: 2002-06-13*

USE sensitivity

### *detectors (radiation)*

USE radiation detectors

## DETERGENTS

*SF* chemicals

\*BT1 emulsifiers

\*BT1 wetting agents

**NT1** pluronics

*RT* cleaning

*RT* decontamination

*RT* soaps

*RT* xenobiotics

### *determination (chemical)*

*ETDE: 2002-06-13*

USE chemical analysis

## DETERMINISTIC ESTIMATION

*2003-12-17*

*Analytical technique for calculation of unknown quantities and the uncertainty associated with the deterministic estimates of those quantities.*

*UF* deterministic safety assessment

**BT1** calculation methods

*RT* forecasting

*RT* probabilistic estimation

*RT* risk assessment

*RT* safety analysis

### *deterministic safety assessment*

*2003-12-17*

USE deterministic estimation

USE risk assessment

## DETONATION LIMITS

*INIS: 2000-06-27; ETDE: 1977-01-28*

*Bounds on regions of stable detonation.*

*RT* chemical explosives

## DETONATION WAVES

*INIS: 1985-12-11; ETDE: 1976-08-25*

*Shock waves caused by release of chemical energy through chemical reactions.*

**BT1** shock waves

*RT* combustion

*RT* combustion waves

*RT* explosions

*RT* ignition

### *detonations*

*(Prior to March 1996 this was a valid ETDE descriptor.)*

USE explosions

## DETONATORS

*(From October 1979 till February 1997*

*FUSES was a valid ETDE descriptor.)*

*UF* fuses (detonators)

*UF* fuzes

*RT* exploding wires

*RT* explosions

## DETOXIFICATION

*INIS: 1984-04-04; ETDE: 1981-03-16*

*RT* biochemical reaction kinetics

*RT* decontamination

*RT* hazardous materials

*RT* toxic materials

*RT* toxicity

*RT* toxins

## DETRITUS

*INIS: 1993-06-03; ETDE: 1977-08-09*

*Loose material (as rock fragments or organic particles) that results directly from disintegration.*

*RT* biodegradation

*RT* environmental materials

*RT* sediments

## DETROIT RIVER

*2000-04-12*

\*BT1 rivers

*RT* michigan

## deus

*INIS: 2000-04-12; ETDE: 1978-11-14*

*Dual energy use systems. Term similar to cogeneration, especially for methods using both heat and electric power when both are produced simultaneously and in significant quantities.*

*(Prior to February 1997 this was a valid descriptor.)*

USE cogeneration

## DEUTERATION

**BT1** chemical reactions

*RT* dehydrogenation

*RT* hydrogenation

## DEUTERIDES

*1986-03-04*

\*BT1 deuterium compounds

**NT1** hydrogen deuteride

**NT1** lithium deuterides

## DEUTERIUM

*UF* hydrogen 2

\*BT1 hydrogen isotopes

\*BT1 light nuclei

\*BT1 odd-odd nuclei

\*BT1 stable isotopes

*RT* deuterons

*RT* hydrogen deuteride

*RT* thermonuclear fuels

## DEUTERIUM COMPOUNDS

*1996-06-19*

*UF* dto

**BT1** hydrogen compounds

**NT1** deuterides

**NT2** hydrogen deuteride

**NT2** lithium deuterides

**NT1** deuterium tritide

**NT1** heavy water

### *deuterium hydride*

USE hydrogen deuteride

## DEUTERIUM IONS

*1996-03-04*

\*BT1 ions

*RT* d-t operation

**deuterium-lithium high flux neutron source facility**

INIS: 1994-07-01; ETDE: 1977-10-20

USE neutron source facilities

**deuterium moderated pile low energy**

1993-11-05

USE dimple reactor

**deuterium oxide**

INIS: 1976-10-07; ETDE: 1976-11-01

USE heavy water

**DEUTERIUM TARGET**

UF deutron-deutron interactions

UF deutron target

UF lepton-deutron interactions

UF meson-deutron interactions

BT1 targets

**DEUTERIUM TRITIDE**

INIS: 1976-02-05; ETDE: 1979-05-31

\*BT1 deuterium compounds

\*BT1 tritides

RT muon-catalyzed fusion

**DEUTERON BEAMS**

\*BT1 ion beams

RT deuterons

**deutron-deutron interactions**

INIS: 2000-04-12; ETDE: 1979-09-06

USE deuterium target

USE deutron reactions

**DEUTERON MICROPROBE ANALYSIS**

INIS: 1981-07-08; ETDE: 1981-08-04

BT1 microanalysis

\*BT1 nondestructive analysis

RT deutron probes

**DEUTERON PROBES**

INIS: 1981-07-08; ETDE: 1981-08-04

BT1 probes

RT deutron microprobe analysis

RT deutron sources

RT ion probes

**DEUTERON REACTIONS**

UF deutron-deutron interactions

\*BT1 charged-particle reactions

NT1 antideutron reactions

**DEUTERON SOURCES**

\*BT1 particle sources

RT deutron probes

RT deuterons

**DEUTERON SPECTRA**

BT1 spectra

RT deuterons

**deutron target**

ETDE: 2002-06-13

USE deuterium target

**DEUTERONS**

1999-03-01

BT1 charged particles

NT1 antideuterons

RT deuterium

RT deutron beams

RT deutron sources

RT deutron spectra

**DEVELOPED COUNTRIES**

INIS: 1982-12-03; ETDE: 1978-03-03

UF industrialized countries

NT1 australia

NT2 new south wales

NT2 northern territory

NT2 queensland  
NT2 south australia  
NT2 tasmania  
NT2 victoria  
NT2 western australiaNT1 austria  
NT1 belgium  
NT1 canada  
NT2 alberta  
NT2 british columbia  
NT2 manitoba  
NT2 new brunswick  
NT2 newfoundland  
NT2 northwest territories  
NT2 nova scotia  
NT2 nunavut  
NT2 ontario  
NT3 chalk river  
NT3 deep river  
NT3 elliot lake  
NT2 prince edward island  
NT2 quebec  
NT2 saskatchewan  
NT2 yukon territoryNT1 denmark  
NT1 federal republic of germany  
NT1 finland  
NT1 france  
NT2 reunion island  
NT1 ireland  
NT1 italy  
NT2 appennines  
NT2 sicilyNT1 japan  
NT2 hachimantai  
NT2 hiroshima  
NT2 nagasakiNT1 luxembourg  
NT1 monaco  
NT1 netherlands

NT1 new zealand

NT1 norway

NT1 san marino

NT1 south africa

NT2 transvaal

NT1 sweden

NT1 switzerland

NT1 united kingdom

NT1 usa

NT2 alabama

NT2 alaska

NT2 american samoa

NT2 arizona

NT2 arkansas

NT2 california

NT3 brawley geothermal field

NT3 coso hot springs

NT3 los angeles

NT2 colorado

NT3 mahogany zone

NT3 sand wash basin

NT2 connecticut

NT2 delaware

NT2 florida

NT3 cape kennedy

NT2 georgia

NT3 atlanta

NT2 great basin

NT2 hawaii

NT2 idaho

NT2 illinois

NT3 chicago

NT2 indiana

NT2 iowa

NT2 kansas

NT2 kentucky

NT2 louisiana

NT2 maine

NT2 maryland

NT2 massachusetts  
NT2 michigan  
NT2 minnesota  
NT2 mississippi  
NT2 missouri  
NT2 montana  
NT3 powder river basin  
NT2 nebraska  
NT2 nevada  
NT3 steamboat springs  
NT3 tonopah test range  
NT2 new hampshire  
NT2 new jersey  
NT2 new mexico  
NT3 los alamos  
NT2 new york  
NT3 new york city  
NT2 north carolina  
NT2 north dakota  
NT2 ohio  
NT3 cleveland  
NT2 oklahoma  
NT2 oregon  
NT3 mt hood  
NT2 pennsylvania  
NT3 pittsburgh  
NT2 puerto rico  
NT2 rhode island  
NT2 south carolina  
NT2 south dakota  
NT3 table mountain area  
NT2 tennessee  
NT3 chattanooga  
NT3 oak ridge  
NT2 texas  
NT2 us east coast  
NT2 us gulf coast  
NT2 us west coast  
NT2 utah  
NT3 roosevelt hot springs  
NT2 vermont  
NT2 virgin islands  
NT2 virginia  
NT2 washington  
NT3 richland  
NT2 washington dc  
NT2 west virginia  
NT2 wisconsin  
NT2 wyoming  
NT3 powder river basin  
NT3 rock springs sites  
NT3 washakie basin

RT developing countries

RT economic development

RT oil-exporting countries

RT technology utilization

**DEVELOPERS**

1996-09-06

UF amidol

SF chemicals

NT1 pyrocatechol

NT1 pyrogallol

NT1 resorcinol

RT photography

**DEVELOPING COUNTRIES**

INIS: 1997-06-05; ETDE: 1976-11-29

NT1 afghanistan

NT1 albania

NT1 algeria

NT1 angola

NT1 argentina

NT2 mendoza

NT1 bahama islands

NT1 bahrain

NT1 bangladesh

NT1 belize

NT1 bhutan

NT1 bolivia

**NT2** chacaltaya  
**NT1** botswana  
**NT1** brazil  
**NT1** bulgaria  
**NT1** burkina faso  
**NT1** burundi  
**NT1** cameroon  
**NT1** central african republic  
**NT1** chad  
**NT1** chile  
**NT1** colombia  
**NT1** congo peoples republic  
**NT2** brazzaville  
**NT1** costa rica  
**NT1** cote d'ivoire  
**NT1** cuba  
**NT1** czech republic  
**NT1** democratic republic of the congo  
**NT2** kinshasa  
**NT1** dominican republic  
**NT1** ecuador  
**NT1** egyptian arab republic  
**NT1** el salvador  
**NT1** eritrea  
**NT1** ethiopia  
**NT1** gabon  
**NT1** gambia  
**NT1** ghana  
**NT1** greece  
**NT1** guatemala  
**NT1** guyana  
**NT1** haiti  
**NT1** honduras  
**NT1** hungary  
**NT1** iceland  
**NT1** india  
**NT1** indonesia  
**NT1** iran  
**NT1** iraq  
**NT1** israel  
**NT1** jamaica  
**NT1** jordan  
**NT1** kazakhstan  
**NT1** kenya  
**NT1** kuwait  
**NT1** laos  
**NT1** lebanon  
**NT1** lesotho  
**NT1** liberia  
**NT1** libyan arab jamahiriya  
**NT1** madagascar  
**NT2** malagasy republic  
**NT1** malawi  
**NT1** malaysia  
**NT1** mali  
**NT1** mauritania  
**NT1** mauritius  
**NT1** mexico  
**NT1** morocco  
**NT1** mozambique  
**NT1** myanmar  
**NT1** nepal  
**NT1** nicaragua  
**NT1** niger  
**NT1** nigeria  
**NT1** north korea  
**NT1** oman  
**NT1** pakistan  
**NT1** panama  
**NT1** paraguay  
**NT1** peru  
**NT1** philippines  
**NT1** poland  
**NT1** portugal  
**NT2** azores islands  
**NT1** qatar  
**NT1** republic of korea  
**NT1** republic of seychelles  
**NT1** romania

**NT1** rwanda  
**NT1** saint lucia  
**NT1** saint vincent and the grenadines  
**NT1** saudi arabia  
**NT1** senegal  
**NT1** serbia and montenegro  
**NT1** sierra leone  
**NT1** singapore  
**NT1** slovakia  
**NT1** somalia  
**NT1** spain  
**NT2** canary islands  
**NT1** sri lanka  
**NT1** sudan  
**NT1** surinam  
**NT1** swaziland  
**NT1** syria  
**NT1** thailand  
**NT1** the former yugoslav republic of macedonia  
**NT1** togo  
**NT1** tunisia  
**NT1** turkey  
**NT1** uganda  
**NT1** united republic of tanzania  
**NT1** uruguay  
**NT1** venezuela  
**NT1** viet nam  
**NT1** yemen  
**NT1** zambia  
**NT1** zimbabwe  
**NT2** southern rhodesia  
**RT** developed countries  
**RT** industry  
**RT** input-output analysis  
**RT** oil-exporting countries  
**RT** oil-importing countries  
**RT** rural energy centers  
**RT** technology transfer

### devices

1982-12-06  
 USE equipment

### DEVOLATILIZATION

INIS: 1993-02-18; ETDE: 1978-02-14  
**RT** volatile matter  
**RT** volatility

### DEVONIAN PERIOD

INIS: 1992-04-14; ETDE: 1977-10-19  
 \*BT1 paleozoic era

### devonian shales

INIS: 1992-07-22; ETDE: 1980-10-27  
 USE black shales

### DEW POINT

INIS: 1976-10-07; ETDE: 1975-10-01  
 The temperature at which a vapor begins to condense.  
 \*BT1 transition temperature  
**RT** humidity  
**RT** phase transformations  
**RT** vapor condensation

### dewar flasks

INIS: 1985-07-18; ETDE: 1977-06-30  
 (Prior to August 1985 this was a valid descriptor.)  
 USE dewars

### DEWARs

INIS: 1985-07-18; ETDE: 1976-08-24  
 (Prior to August 1985 DEWAR FLASKS was used.)  
**UF** dewar flasks  
**BT1** containers  
**RT** cryogenics

### dewatering

INIS: 2000-04-12; ETDE: 1977-06-24  
 USE water removal

### DEWATERING EQUIPMENT

INIS: 1994-06-27; ETDE: 1985-04-09  
**BT1** concentrators  
**RT** dryers  
**RT** water removal

### DEWAXING

INIS: 2000-04-12; ETDE: 1975-10-01  
**UF** paraffin removal  
**BT1** separation processes  
**RT** refining  
**RT** scrapers  
**RT** waxes

### DEWINDTITE

2000-04-12  
 \*BT1 uranium minerals  
**RT** lead phosphates  
**RT** uranium phosphates

### DEXAMETHASONE

\*BT1 glucocorticoids

### DEXTRAN

\*BT1 blood substitutes  
 \*BT1 polysaccharides

### DEXTRIN

**UF** starch gum  
 \*BT1 polysaccharides

### dextro and levo optical isomers

INIS: 2000-04-12; ETDE: 1976-02-23  
 USE enantiomorphs

### dextronic acid

USE gluconic acid

### dfa

USE deferoxamine

### dfr-350 reactor

USE dfr reactor

### DFR REACTOR

**UF** dfr-350 reactor  
**UF** downreay fast reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 Imfbr type reactors  
 \*BT1 power reactors

### DHDECMP

INIS: 1981-07-06; ETDE: 1980-06-23  
 Dihexyl-n, n-diethylcarbamylyl  
 methylenephosphonate.  
**UF** dihexyl-n,n-diethylcarbamylyl-  
 methylenephosphonate  
 \*BT1 phosphonic acid esters  
**RT** organic solvents

### DHRUVA REACTOR

INIS: 1986-03-04; ETDE: 1989-06-23  
 Bhabha Atomic Research Centre, Trombay,  
 Maharashtra, India.  
 (This reactor was indexed as TROMBAY R-5  
 REACTOR by INIS prior to March 1986 and  
 by ETDE prior to June 1989.)  
**UF** trombay r-5 reactor  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 natural uranium reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

### di-(2-propyl) ether

USE isopropyl ether

**di-2-ethylhexylphosphoric acid**

USE hdehp

**DIABASES**

INIS: 2000-04-12; ETDE: 1981-11-10

\*BT1 basalt

**DIABATIC APPROXIMATION**

\*BT1 approximations

RT adiabatic approximation

RT electron-promotion model

RT quantum mechanics

RT scattering

**DIABETES MELLITUS**

\*BT1 endocrine diseases

\*BT1 metabolic diseases

RT insulin

RT metabolism

**DIABLO CANYON-1 REACTOR***Pacific Gas and Electric Co., Avila Beach, California, USA.*UF *pacific gas diablo canyon-1 reactor*

\*BT1 pwr type reactors

**DIABLO CANYON-2 REACTOR***Pacific Gas and Electric Co., Avila Beach, California, USA.*UF *pacific gas diablo canyon-2 reactor*

\*BT1 pwr type reactors

**diacetylmorphine**

USE heroin

**DIAGENESIS***Any change occurring within sediments subsequent to deposition and before complete lithification that alters the mineral content and physical properties of the sediments.*

RT catagenesis

RT coalification

RT origin

RT petrogenesis

RT sediments

**DIAGNOSIS**UF *radiodiagnosis (radionuclides)*

RT diagnostic techniques

RT diagnostic uses

RT labelled compounds

RT medical examinations

RT medicine

RT nuclear medicine

RT radiology

RT radiopharmaceuticals

RT scintiscanning

RT symptoms

RT tracer techniques

**DIAGNOSTIC TECHNIQUES**

NT1 autopsy

NT1 biomedical radiography

NT2 fluoroscopy

NT2 ionographic imaging

NT2 osteodensitometry

NT2 renography

NT1 biopsy

NT1 cardiography

NT2 radiocardiography

NT1 electroencephalography

NT1 nmr imaging

NT1 photon emission scanning

NT2 ecat scanning

NT1 photon transmission scanning

NT1 radioimmunodetection

NT2 radioimmunoassay

NT2 radioimmunoscintigraphy

NT1 scintiscanning

NT2 radioimmunoscintigraphy

NT1 tomography

NT2 compton scattering tomography

NT2 computerized tomography

NT3 cat scanning

NT3 emission computed tomography

NT4 ecat scanning

NT4 positron computed tomography

NT4 single photon emission

computed tomography

NT3 photon computed tomography

NT3 proton computed tomography

NT2 grazing incidence tomography

NT1 ultrasonography

RT autoradiography

RT blood-plasma clearance

RT diagnosis

RT diagnostic uses

RT electrocardiograms

RT medicine

RT nuclear medicine

RT radioisotope generators

RT radiology

RT tracer techniques

RT x-ray equipment

**DIAGNOSTIC USES**

INIS: 1993-07-21; ETDE: 1978-08-07

*For medical applications.*

BT1 uses

RT clinical trials

RT diagnosis

RT diagnostic techniques

RT medicine

**diagnostics (fusion)**

INIS: 1998-10-28; ETDE: 1998-12-18

USE plasma diagnostics

**DIAGRAMS**

1996-01-24

*FOR SIGNIFICANT DIAGRAMS, CHARTS, GRAPHS, AND DRAWINGS ONLY.*UF *charts*UF *curves*UF *design (technical drawings)*SF *graphs*

BT1 information

NT1 bragg curve

NT1 electrocardiograms

NT1 engineering drawings

NT1 fermi plot

NT1 feynman diagram

NT1 flowsheets

NT1 goldstone diagrams

NT1 hertzprung-russell diagram

NT1 mollier diagrams

NT1 nomograms

NT1 nyquist diagrams

NT1 optical depth curve

NT2 spectroscopic curve of growth

NT1 phase diagrams

NT1 s-n diagram

NT1 scatterplots

NT2 argand diagrams

NT2 dalitz plot

NT2 prism plot

NT1 sun charts

NT1 thermochemical diagrams

NT1 young diagram

RT computer graphics

RT computer-graphics devices

RT design

RT maps

RT pattern recognition

**DIAL PAINTERS**

BT1 personnel

RT luminous paints

**DIALYSIS**

BT1 separation processes

NT1 electro dialysis

RT colloids

RT diffusion

RT mass transfer

RT membranes

RT permeability

RT proteins

**DIAMAGNETISM**

BT1 magnetism

NT1 plasma diamagnetism

RT de haas-van alphen effect

**DIAMEX PROCESS**

INIS: 1998-06-30; ETDE: 1998-10-20

\*BT1 reprocessing

RT amides

RT solvent extraction

**diaminobiphenyl**

USE benzidine

**diaminocaproic acid**

USE lysine

**diaminocyclohexanetetraacetic acid**

1995-02-16

USE dcta

**diamond counters**

USE crystal counters

**diamond drilling equipment**

INIS: 2000-04-12; ETDE: 1977-08-09

USE drilling equipment

**DIAMONDS**

\*BT1 carbon

BT1 minerals

**diamox process**

INIS: 2000-04-12; ETDE: 1979-01-30

*Ammonia is used as adsorbent and stripped hydrogen sulfide is fed to Claus process. In this process, ammonia is used as absorbent and stripped hydrogen sulfide is fed to a Claus process.**(Prior to September 1994, this was a valid ETDE descriptor.)*

USE desulfurization

**diamyl sulfoxide**

USE dpso

**dianabol**

1996-10-23

*(Until October 1996 this was a valid descriptor.)*

USE androgens

USE hydroxy compounds

USE ketones

**diantiprylmethane**

INIS: 1984-04-04; ETDE: 1984-05-10

USE pyrazolines

**DIAPHORASE**

INIS: 2000-04-03; ETDE: 1981-01-12

UF *diaphorases*UF *flavoprotein enzymes*

\*BT1 isoalloxazines

\*BT1 oxidoreductases

**diaphorases**

2000-04-03

*(Until July 1996 this was a valid descriptor.)*

USE diaphorase

**DIAPHRAGM**

INIS: 1980-09-12; ETDE: 1980-10-07

*Partition separating the chest and abdominal cavities.*

BT1 muscles

\*BT1 organs



RT abdomen  
RT chest  
RT lungs  
RT respiration

**diaphragms (thermonuclear device)**

2000-04-12

USE limiters

**DIARRHEA**

BT1 symptoms  
RT constipation  
RT digestive system diseases  
RT enteritis  
RT intestines

**DIATOMACEOUS EARTH**

1992-11-03

A white, yellow, or light gray siliceous earth composed predominantly of the opaline frustules of diatoms.

UF kieselguhr  
RT adsorbents  
RT diatoms  
RT filters

**DIATOMS**

INIS: 1991-12-11; ETDE: 1976-05-13

Algae of the class Bacillariophyceae.

(Prior to January 1992, this was indexed by ALGAE and PLANKTON.)

\*BT1 chromophycota  
RT diatomaceous earth  
RT phytoplankton

**DIAZO COMPOUNDS**

\*BT1 organic nitrogen compounds  
NT1 pyridylazonaphthol  
NT1 pyridylzoresorcinol  
NT1 thiorin  
RT azo dyes  
RT dyes

**DIAZOTIZATION**

BT1 chemical reactions  
RT organic nitrogen compounds

**dibaryon resonances**

INIS: 1987-12-21; ETDE: 1979-02-27

(Prior to December 1987 this was a valid descriptor.)

USE dibaryons

**DIBARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

(Prior to December 1987 this concept was indexed by DIBARYON RESONANCES.)

UF baryon number 2 resonances  
UF dibaryon resonances  
\*BT1 baryons  
NT1 dineutrons  
NT1 diprotons  
NT1 lambda-n-2130 dibaryons  
NT1 nn-2170 dibaryons  
NT1 nn-2250 dibaryons

**dibenzopyrroles**

USE carbazoles

**diborane**

USE boranes

**dibutyl ether**

USE butyl ether

**dibutyl phosphate**

USE dbp

**DICARBOXYLIC ACIDS**

1996-07-18

UF beryllon  
UF dsnadns  
\*BT1 carboxylic acids

NT1 adipic acid  
NT1 fumaric acid  
NT1 glutaric acid  
NT1 itaconic acid  
NT1 maleic acid  
NT1 malonic acid  
NT1 oxalic acid  
NT1 phthalic acid  
NT1 sebacic acid  
NT1 succinic acid  
NT1 terephthalic acid  
RT imides

**DICENTRIC CHROMOSOMES**

UF dicentrics  
BT1 chromosomes  
RT chromosomal aberrations

**dicentrics**

USE dicentric chromosomes

**dichlorodiethylamine**

USE nitrogen mustard

**dichlorodiphenyltrichloroethane**

USE ddt

**dichloromethane**

1982-02-09

USE methylene chloride

**DICHOISM**

NT1 magnetic circular dichroism  
RT color  
RT optical properties

**DICROMATES**

INIS: 1983-10-14; ETDE: 1983-11-09

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

\*BT1 chromium compounds  
BT1 oxygen compounds  
RT chromium oxides

**dicotyledons**

INIS: 2000-04-12; ETDE: 1988-12-21

USE magnoliopsida

**DICTIONARIES**

INIS: 1994-09-29; ETDE: 1976-11-01

UF glossaries  
BT1 document types  
RT machine translations

**DICTYOCAULUS**

\*BT1 nematodes  
BT1 parasites  
RT parasitic diseases  
RT sheep

**DICTYOPTERA**

INIS: 1993-07-14; ETDE: 1981-06-16

\*BT1 insects  
NT1 cockroaches

**dictyosomes**

INIS: 2000-04-12; ETDE: 1991-08-21

USE golgi complexes

**dicumarol**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE anticoagulants

**DIDERICHITE**

2000-04-12

\*BT1 carbonate minerals  
\*BT1 uranium minerals  
RT uranium carbonates

**dido-juelich reactor**

USE frj-2 reactor

**DIDO REACTOR**

UKAEA, Harwell, United Kingdom.

UF ukaea-dido reactor

\*BT1 enriched uranium reactors  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 isotope production reactors  
\*BT1 materials testing reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors

**diel variations**

INIS: 2000-04-12; ETDE: 1980-10-07

USE daily variations

**DIELDRIN**

\*BT1 insecticides

**DIELECTRIC AMPLIFIERS**

\*BT1 amplifiers

**dielectric constant**

INIS: 1977-06-13; ETDE: 2002-06-13

USE permittivity

**DIELECTRIC MATERIALS**

UF dielectrics  
UF materials (dielectric)  
BT1 materials  
NT1 antiferroelectric materials  
NT1 electrets  
NT1 ferroelectric materials  
RT capacitors  
RT dielectric properties  
RT dielectric tensor  
RT dielectric track detectors  
RT electrical insulation  
RT electrical insulators  
RT insulating oils  
RT lichtenberg figures  
RT mica  
RT natural rubber  
RT organic insulators  
RT paper  
RT potting  
RT potting materials  
RT ritad dosimeters  
RT rubbers  
RT varnishes

**DIELECTRIC PROPERTIES**

\*BT1 electrical properties  
NT1 kerr effect  
NT1 permittivity  
RT capacitance  
RT dielectric materials  
RT dielectric tensor  
RT insulating oils  
RT relaxation losses

**DIELECTRIC TENSOR**

INIS: 1981-08-31; ETDE: 1981-09-22

BT1 tensors  
RT dielectric materials  
RT dielectric properties

**DIELECTRIC TRACK DETECTORS**

UF track detectors (dielectric)  
\*BT1 radiation detectors  
RT ceramics  
RT dielectric materials  
RT electron microscopy  
RT etching  
RT fission foil detectors  
RT glass  
RT latent images  
RT lithium fluorides

*RT* luminescent dosimeters  
*RT* mica  
*RT* olivine  
*RT* particle tracks  
*RT* polymers  
*RT* tourmaline

**dielectrics**

USE dielectric materials

**DIELS-ALDER REACTION**

BT1 chemical reactions

**DIENES**

\*BT1 polyenes  
 NT1 allene  
 NT1 butadiene  
 NT1 cyclopentadiene  
 NT1 ferrocene  
 NT1 isoprene  
 NT1 pentadienes

**DIENG GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1983-04-28

BT1 geothermal fields  
*RT* indonesia

**DIES**

*RT* casting  
*RT* casting molds  
*RT* extrusion  
*RT* forging  
*RT* pressing

**DIESEL ENGINES**

1990-12-06

(Prior to December 1990, this concept was indexed by DIESEL MOTORS.)

UF diesel motors  
 \*BT1 internal combustion engines  
*RT* dual-fuel engines  
*RT* fuel injection systems

**DIESEL FUELS**

1991-10-10

UF diesel oil (fraction)  
 \*BT1 gas oils  
 \*BT1 liquid fuels  
*RT* ethanol fuels

**diesel motors**

1990-12-06

(Prior to December 1990, this was a valid descriptor.)

USE diesel engines

**diesel oil (fraction)**

INIS: 1992-01-09; ETDE: 1976-03-11

USE diesel fuels

**DIET**

*RT* animal feeds  
*RT* beverages  
*RT* drinking water  
*RT* fasting  
*RT* feeding  
*RT* food  
*RT* food additives  
*RT* food chains  
*RT* icrp critical group  
*RT* ingestion  
*RT* mass rearing  
*RT* nutrients  
*RT* nutrition  
*RT* nutritional deficiency  
*RT* rearing  
*RT* therapy  
*RT* vitamins

**diethyl ether**

USE ethyl ether

**diethyldithiocarbamates**

USE dedtc

**diethylenetriaminepentaacetic acid**

1995-02-16

USE dtpa

**DIFFERENTIAL CALCULUS**

UF calculus (differential)  
 BT1 mathematics  
*RT* differential geometry

**DIFFERENTIAL CROSS SECTIONS**

BT1 cross sections  
 NT1 excitation functions  
*RT* angular distribution

**DIFFERENTIAL EQUATIONS**

UF canonical equations  
 UF equations (differential)  
 BT1 equations  
 NT1 bbgky equation  
 NT1 chapman-kolmogorov equation  
 NT1 dirac-hestenes equation  
 NT1 hill equation  
 NT1 joos-weinberg equation  
 NT1 mathieu equation  
 NT1 partial differential equations  
 NT2 boltzmann equation  
 NT2 boltzmann-vlasov equation  
 NT3 plasma fluid equations  
 NT2 continuity equations  
 NT2 diffusion equations  
 NT3 neutron diffusion equation  
 NT2 equations of motion  
 NT2 fokker-planck equation  
 NT2 fourier heat equation  
 NT2 grad-shafranov equation  
 NT2 hamilton-jacobi equations  
 NT2 korteweg-de vries equation  
 NT2 lagrange equations  
 NT2 laplace equation  
 NT2 maxwell equations  
 NT2 navier-stokes equations  
 NT2 poisson equation  
 NT2 proca equations  
 NT2 wave equations  
 NT3 dirac equation  
 NT3 klein-gordon equation  
 NT3 schrodinger equation

NT1 riccati equation  
 NT1 schwinger functional equations  
 NT1 sturm-liouville equation  
*RT* airy functions  
*RT* analytical solution  
*RT* bifurcation  
*RT* boundary conditions  
*RT* boundary-value problems  
*RT* cluster expansion  
*RT* control theory  
*RT* dirichlet problem  
*RT* finite difference method  
*RT* finite element method  
*RT* floquet function  
*RT* green function  
*RT* integral equations  
*RT* limit cycle  
*RT* lyapunov method  
*RT* mathematics  
*RT* recursion relations  
*RT* riemann function  
*RT* runge-kutta method

**DIFFERENTIAL GEOMETRY**

1983-03-15

\*BT1 geometry  
*RT* differential calculus  
*RT* mathematical space

**DIFFERENTIAL PAC**

UF perturbed angular correlation (differential)

\*BT1 perturbed angular correlation  
*RT* time dependence

**DIFFERENTIAL THERMAL ANALYSIS**

UF dta  
 BT1 thermal analysis  
*RT* transition heat

**DIFFERENTIAL TOPOLOGY**

\*BT1 topology  
*RT* mapping fibration  
*RT* smooth manifolds  
*RT* topological foliation

**DIFFRACTION**

\*BT1 coherent scattering  
 NT1 atomic beam diffraction  
 NT1 diffuse scattering  
 NT1 electron diffraction  
 NT1 neutron diffraction  
 NT1 x-ray diffraction  
*RT* debye-waller factor  
*RT* diffraction gratings  
*RT* diffractometers  
*RT* gamma diffractometers  
*RT* gratings  
*RT* optical dispersion  
*RT* optical properties

**diffraction (electron)**

2000-04-12

USE electron diffraction

**diffraction (neutron)**

2000-04-12

USE neutron diffraction

**diffraction (x-ray)**

2000-04-12

USE x-ray diffraction

**diffraction dissociation**

USE diffraction models

**DIFFRACTION GRATINGS**

INIS: 1984-01-18; ETDE: 1984-02-10

(Prior to November 1989 this concept in ETDE was indexed by GRATINGS.)

UF echelle gratings  
 UF echelon gratings  
*RT* diffraction  
*RT* diffractometers  
*RT* optical systems  
*RT* spectrometers  
*RT* x-ray equipment

**DIFFRACTION METHODS**

NT1 debye-scherrer method  
 NT1 laue method  
 NT1 rotating crystal method  
*RT* crystal lattices  
*RT* crystallography  
*RT* patterson method  
*RT* schulz method  
*RT* x-ray diffractometers

**DIFFRACTION MODELS**

UF diffraction dissociation  
 UF diffraction production  
 \*BT1 particle models

**diffraction production**

USE diffraction models

**diffractive dissociation**

INIS: 1975-10-23; ETDE: 2002-06-13

In high-energy hadron collisions.

USE multiperipheral model

USE particle production

**DIFFRACTOMETERS**

BT1 measuring instruments  
 NT1 gamma diffractometers  
 NT1 neutron diffractometers  
 NT1 x-ray diffractometers  
 RT diffraction  
 RT diffraction gratings

**DIFFUSE SCATTERING**

2002-11-21

*Broad diffraction spread in reciprocal space indicated by halos or streaks that appear around intense Bragg reflections.*

\*BT1 diffraction  
 RT bragg reflection  
 RT elastic scattering  
 RT electron diffraction  
 RT incoherent scattering  
 RT neutron diffraction  
 RT x-ray diffraction

**DIFFUSE SOLAR RADIATION**

INIS: 1992-07-06; ETDE: 1979-10-23

*Solar radiation that has been scattered or reflected in traversal of the atmosphere.*

\*BT1 solar flux  
 \*BT1 solar radiation  
 RT direct solar radiation  
 RT insolation  
 RT light scattering

**DIFFUSER AUGMENTED TURBINES**

INIS: 2000-04-12; ETDE: 1977-06-02

*Horizontal axis turbines enclosed in shroud of duct to create venturi effect.*

\*BT1 wind turbines  
 RT horizontal axis turbines

**DIFFUSERS**

INIS: 2000-04-12; ETDE: 1977-11-29

*Ducts, chambers, or sections in which a high-velocity, low-pressure stream of fluid is converted into a low-velocity, high-pressure flow.*

RT baffles  
 RT ducts  
 RT fluid flow  
 RT mhd channels  
 RT pipes

**DIFFUSION**

UF effusion  
 NT1 ambipolar diffusion  
 NT1 gaseous diffusion  
 NT1 osmosis  
 NT1 self-diffusion  
 NT1 thermal diffusion  
 RT advection  
 RT atom transport  
 RT dialysis  
 RT donnan theory  
 RT fick laws  
 RT kirkendall effect  
 RT leaching  
 RT mass transfer  
 RT mean free path  
 RT membrane transport  
 RT mixing  
 RT particle resuspension  
 RT prandtl number  
 RT radionuclide migration  
 RT sinks  
 RT turbulence

**diffusion area**

USE diffusion length

**DIFFUSION BARRIERS**

1975-11-07

*Porous barriers through which gaseous mixtures are passed for enrichment of the lighter-molecular-weight constituent of the diffusate; used as a many-stage cascade system for the separation of uranium 235 from uranium 238 in uranium hexafluoride.*

SF barriers  
 RT gaseous diffusion plants  
 RT gaseous diffusion process

**DIFFUSION CHAMBERS**

\*BT1 cloud chambers  
 RT aerosols

**DIFFUSION COATING**

*The process.*

UF calorizing  
 UF chromizing  
 UF sherardizing  
 UF siliconizing  
 \*BT1 surface coating  
 RT diffusion coatings

**DIFFUSION COATINGS**

BT1 coatings  
 RT diffusion coating

**DIFFUSION EQUATIONS**

INIS: 2003-07-24; ETDE: 2003-09-02

\*BT1 partial differential equations  
 NT1 neutron diffusion equation  
 RT laplacian

**DIFFUSION LENGTH**

1999-07-20

UF diffusion area  
 \*BT1 length  
 RT migration length

**DIFFUSION WELDING**

\*BT1 welding

**digallic acid**

USE tannic acid

**digester gas**

INIS: 2000-04-12; ETDE: 1984-10-24

USE methane

**DIGESTION**

NT1 aerobic digestion  
 NT1 anaerobic digestion  
 NT2 biogas process  
 NT1 intracellular digestion  
 RT amylase  
 RT chymotrypsin  
 RT digestive system  
 RT enzymes  
 RT gastric acid  
 RT ingestion  
 RT intestinal absorption  
 RT pepsin  
 RT physiology  
 RT trypsin

**DIGESTIVE SYSTEM**

NT1 biliary tract  
 NT1 esophagus  
 NT1 gastrointestinal tract  
 NT2 intestines  
 NT3 large intestine  
 NT4 rectum  
 NT3 small intestine  
 NT2 stomach  
 NT1 liver  
 NT1 oral cavity  
 NT2 teeth  
 NT2 tongue  
 NT1 pancreas  
 NT1 pharynx

RT anorexia  
 RT digestion  
 RT digestive system diseases  
 RT organs

**DIGESTIVE SYSTEM DISEASES**

BT1 diseases  
 NT1 enteritis  
 NT1 hepatitis  
 NT2 infectious hepatitis  
 NT1 liver cirrhosis  
 NT1 peritonitis  
 NT1 proctitis  
 RT anorexia  
 RT constipation  
 RT diarrhea  
 RT digestive system  
 RT gastrectomy  
 RT hepatectomy  
 RT nausea  
 RT vomiting

**DIGITAL CIRCUITS**

UF coding circuits  
 BT1 electronic circuits  
 RT sequential circuits

**DIGITAL COMPUTERS**

1996-11-13

(CII COMPUTERS and PARAMETER COMPUTERS have been valid ETDE descriptors.)

UF cii computers  
 UF data processors  
 UF parameter computers  
 BT1 computers  
 NT1 array processors  
 NT1 calculators  
 NT1 fault tolerant computers  
 NT1 microcomputers  
 NT2 personal computers  
 NT1 supercomputers

**DIGITAL FILTERS**

INIS: 1986-03-04; ETDE: 1977-07-23

*Computational means of attenuating undesired frequencies in a set of time-dependent data.*

RT array processors  
 RT data processing  
 RT digital frequency analysis  
 RT frequency analysis  
 RT image processing

**DIGITAL FREQUENCY ANALYSIS**

INIS: 2000-04-12; ETDE: 1977-07-23

*Computational procedure for estimating frequency content for set of time-dependent data.*

BT1 frequency analysis  
 RT data processing  
 RT digital filters  
 RT mathematical operators

**DIGITAL SYSTEMS**

RT analog-to-digital converters  
 RT computer architecture  
 RT computers  
 RT digital-to-analog converters  
 RT electronic circuits  
 RT electronic equipment

**DIGITAL-TO-ANALOG CONVERTERS**

UF converters (digital-analog)  
 \*BT1 electronic equipment  
 RT analog systems  
 RT digital systems

**DIGITALIS**

\*BT1 magnoliopsida  
 \*BT1 medicinal plants

**DIGITALIS GLYCOSIDES**

2000-03-27

- \*BT1 cardiac glycosides
- NT1 digitoxin
- NT1 digoxin

**DIGITIZERS**

Devices for converting non-digital information into digits.

- \*BT1 signal conditioners
- NT1 cathode ray tube digitizers
- NT1 flying spot digitizers
- NT1 scanning measuring projectors
- NT1 spiral reader digitizers
- RT analog-to-digital converters
- RT bubble chambers
- RT data processing
- RT electronic equipment
- RT image scanners
- RT on-line measurement systems
- RT signal conditioning
- RT spark chambers
- RT video tapes

**DIGITOXIN**

- \*BT1 digitalis glycosides
- RT digoxin

**diglycol monoalkyl ethers**

1996-06-26

(Prior to June 1996 CARBITOLS was a valid ETDE descriptor.)

- USE ethers
- USE glycols
- USE organic solvents

**DIGOXIN**

- UF lanoxin
- \*BT1 digitalis glycosides
- RT digitoxin

**dihexyl-n,n-diethylcarbaryl-methylenephosphonate**

INIS: 2000-04-12; ETDE: 1980-06-23

- USE dhdecmp

**dihydroxyaromatics**

- USE polyphenols

**dihydroxybenzene-meta**

- USE resorcinol

**dihydroxybenzene-ortho**

- USE pyrocatechol

**dihydroxypropionic acid**

- USE glyceric acid

**dihydroxysuccinic acid**

- USE tartaric acid

**diii-d**

1998-08-28

- USE doublet-3 device

**DIODOTHYRONINE**

1983-09-06

- \*BT1 thyroid hormones
- RT thyronine
- RT triiodothyronine

**DIODOTYROSINE**

- \*BT1 amino acids
- \*BT1 hydroxy acids
- \*BT1 organic iodine compounds
- RT tyrosine

**diisomyl methylphosphonate**

- USE damp

**diisopentyl methylphosphonate**

- USE damp

**diisopropyl ether**

- USE isopropyl ether

**dikes**

INIS: 2000-04-12; ETDE: 1980-12-08

Vertical tabular bodies of rock that fill fissures in host rock. Use the descriptor below (or geologic formations, if more appropriate). (Prior to February 1997 this was a valid ETDE descriptor.)

- USE geologic structures

**DILATANCY**

INIS: 1999-05-14; ETDE: 1982-11-08

The increase in volume during application of differential stresses to a noncompacting material.

- BT1 mechanical properties
- RT compressibility
- RT deformation
- RT rock mechanics
- RT stresses
- RT volume

**DILATOMETRY**

- BT1 thermal analysis
- RT extensometers
- RT shrinkage
- RT thermal expansion

**diluents**

INIS: 1975-10-23; ETDE: 2002-06-13

- USE solvents

**DILUTE ALLOYS**

- BT1 alloys

**DILUTION**

- RT isotope dilution
- RT solutions

**dimensional compactification**

INIS: 1985-10-23; ETDE: 2002-06-13

- USE compactification

**DIMENSIONLESS NUMBERS**

INIS: 2005-06-08; ETDE: 2005-05-26

Numbers with no associated unit of measure such as grams or meters; often the ratio of two numbers with the same unit of measure.

- NT1 aspect ratio
- NT1 axial ratio
- NT1 beta ratio
- NT1 branching ratio
- NT1 capture-to-fission ratio
- NT1 compression ratio
- NT1 concentration ratio
- NT1 conversion ratio
- NT2 breeding ratio
- NT1 demand factors
- NT1 disadvantage factor
- NT1 dissipation factor
- NT1 fano factor
- NT1 fast fission factor
- NT1 fill factors
- NT1 fission ratio
- NT1 form factors
- NT2 dirac form factors
- NT2 electromagnetic form factors
- NT2 pauli form factors
- NT1 friction factor
- NT1 froude number
- NT1 fuel-air ratio
- NT1 grashof number
- NT1 hartmann number
- NT1 hot channel factor
- NT1 hot spot factor
- NT1 isomer ratio
- NT1 isotope ratio
- NT1 lande factor
- NT1 mach number

- NT1 minus-plus ratio
- NT1 mirror ratio
- NT1 mixing ratio
- NT1 moderating ratio
- NT1 moderator-fuel ratio
- NT1 multiplication factors
- NT1 nusselt number
- NT1 order parameters
- NT1 oxygen enhancement ratio
- NT1 panofsky ratio
- NT1 poisson ratio
- NT1 polarization-asymmetry ratio
- NT1 power factor
- NT1 prandtl number
- NT1 quality factor
- NT1 reynolds number
- NT2 magnetic reynolds number
- NT1 richardson number
- NT1 sex ratio
- NT1 signal-to-noise ratio
- NT1 slip ratio
- NT1 sommerfeld constant
- NT1 spectroscopic factors
- NT1 structure factors
- NT1 thermal fission factor
- NT1 wolfenstein parameters

**DIMENSIONS**

- NT1 depth
- NT2 depth 1-3 km
- NT2 depth 3-6 km
- NT2 depth 6-9 km
- NT2 depth 9-12 km
- NT1 height
- NT2 scale height
- NT2 virtual height
- NT1 length
- NT2 bond lengths
- NT2 coherence length
- NT2 debye length
- NT2 diffusion length
- NT2 elementary length
- NT2 extrapolation length
- NT2 migration length
- NT2 radiation length
- NT2 scattering lengths
- NT2 slowing-down length
- NT1 thickness
- NT1 width
- RT amplitudes
- RT compactification
- RT distance
- RT shape
- RT size
- RT tolerance
- RT topology
- RT volume

**DIMERCAPROL**

ETDE: 2005-02-01

(Prior to January 2005 BAL was used for this concept.)

- UF bal (british anti-lewisite)
- UF british anti-lewisite
- UF dimercaptopropanol
- BT1 chelating agents
- \*BT1 dithiols
- \*BT1 radioprotective substances
- RT unithiol

**dimercaptoethane**

- USE dithiols

**dimercaptopropanol**

- USE dimercaprol

**DIMERIZATION**

- \*BT1 polymerization

**DIMERS**

- NT1 pyrimidine dimers

*RT* monomers  
*RT* polymers

**dimethoxymethane**  
 2002-06-07  
*USE* methylal

**dimethyl ether**  
*INIS*: 1976-07-30; *ETDE*: 2002-06-13  
*USE* methyl ether

**dimethyl ketone**  
*USE* acetone

**DIMETHYL SULFIDE**  
 1992-01-07  
*UF* dimethylsulfide  
 \*BT1 organic sulfur compounds  
 \*BT1 sulfides

**dimethyl sulfoxide**  
*USE* dmso

**DIMETHYLBENZANTHRACENE**  
*INIS*: 1980-05-14; *ETDE*: 1979-07-18  
*UF* dmba  
 \*BT1 condensed aromatics  
*RT* carcinogens  
*RT* neoplasms

**dimethylbenzenes**  
*USE* xylenes

**DIMETHYLGLYOXIME**  
 \*BT1 oximes  
 BT1 reagents

**dimethylphenols**  
 2000-04-12  
*USE* xylenes

**dimethylpropane (2,2-)**  
*ETDE*: 2002-06-13  
*USE* 2-2-dimethylpropane

**dimethylpropionic acid**  
*USE* pivalic acid

**dimethylsulfide**  
 1992-01-07  
*USE* dimethyl sulfide

**DIMPLE REACTOR**  
*Uncooled, variably fueled reactor. UKAEA, Winfrith, United Kingdom.*  
*UF* deuterium moderated pile low energy  
 \*BT1 heavy water moderated reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 zero power reactors

**DINEUTRONS**  
 1978-01-16  
 \*BT1 dibaryons  
 \*BT1 polynutrons

**dining car event**  
*INIS*: 1994-10-14; *ETDE*: 1975-11-11  
*A test made during project bedrock. (Prior to September 1994, this was a valid ETDE descriptor.)*  
*USE* nuclear explosions  
*USE* underground explosions

**dining halls**  
*INIS*: 2000-04-12; *ETDE*: 1981-01-09  
*USE* restaurants

**DINITROPHENOL**  
*UF* dnp  
 \*BT1 nitro compounds  
 \*BT1 phenols  
*RT* nitrophenol

**dinitrosoresorcinol**  
*INIS*: 2000-04-12; *ETDE*: 1981-07-18  
*USE* nitroso compounds

**DINOFLAGELLATE**  
*INIS*: 1980-09-12; *ETDE*: 1980-10-07  
 \*BT1 mastigophora

**DIODE-PUMPED SOLID STATE LASERS**  
*INIS*: 1996-04-17; *ETDE*: 1997-05-08  
 \*BT1 solid state lasers  
*RT* icf devices

**diode transistors**  
*ETDE*: 1975-09-11  
*USE* transistors

**DIODE TUBES**  
 BT1 electron tubes  
 NT1 thermionic diodes

**diodes (semiconductor)**  
*USE* semiconductor diodes

**diodrast**  
 1996-07-18  
 (Until July 1996 this was a valid descriptor.)  
*USE* contrast media  
*USE* heterocyclic acids  
*USE* organic iodine compounds  
*USE* pyridines

**diols**  
*USE* glycols

**DIOPSIDE**  
*INIS*: 2000-04-12; *ETDE*: 1976-01-07  
*A mineral of the clinopyroxene group.*  
 \*BT1 silicate minerals

**DIORIT REACTOR**  
*Eidgenoessisches Institute fuer Reaktorforschung, Wuerlingen, Switzerland.*  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 mixed spectrum reactors  
 \*BT1 natural uranium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors

**DIORITES**  
*INIS*: 2000-04-12; *ETDE*: 1980-08-12  
 \*BT1 plutonic rocks

**DIOXANE**  
*UF* 1,4-dioxane  
*UF* dioxyethylene ether  
 \*BT1 heterocyclic compounds  
 \*BT1 organic oxygen compounds

**DIOXIN**  
*INIS*: 1987-02-25; *ETDE*: 1980-03-29  
 \*BT1 heterocyclic compounds  
 \*BT1 organic oxygen compounds  
*RT* preservatives

**dioxyethylene ether**  
*USE* dioxane

**DIP COATING**  
 \*BT1 surface coating  
 NT1 hot dipping  
*RT* dipped coatings

**dip logging**  
*INIS*: 2000-04-12; *ETDE*: 1976-08-25  
*USE* dipmeter logging

**dipentyl sulfoxide**  
*USE* dpso

**diphenyl ketone**  
*USE* benzophenone

**diphenylcarbazines**  
*USE* dpca

**diphenylcarbazones**  
 1996-10-23  
 (Until October 1996 this was a valid descriptor.)  
*USE* carbazones

**diphenylcarbinol**  
*USE* benzhydrol

**diphenylethane (1,2-)**  
*ETDE*: 2002-06-13  
*USE* bibenzyl

**diphenylglycolic acid**  
*USE* benzoic acid

**diphenylmethanol**  
*USE* benzhydrol

**diphenylphosphine oxide**  
*USE* organic phosphorus compounds

**diphenylpicrylhydrazyl**  
*USE* dpph

**diphenylthiocarbazon**  
*USE* dithizone

**diphosphodihydropyridine nucleotide**  
*INIS*: 1995-02-16; *ETDE*: 1976-05-17  
*USE* nadh2

**DIPHThERIA**  
 \*BT1 bacterial diseases

**diplococcus pneumoniae**  
*USE* pneumococcus

**DIPLOIDY**  
 BT1 ploidy

**DIPMETER LOGGING**  
*INIS*: 2000-04-12; *ETDE*: 1976-08-24  
*UF* dip logging  
 BT1 well logging

**DIPOLE MOMENTS**  
 NT1 electric dipole moments  
 NT1 magnetic dipole moments  
*RT* dipoles

**DIPOLES**  
 BT1 multipoles  
 NT1 electric dipoles  
 NT1 magnetic dipoles  
*RT* dipole moments  
*RT* polar compounds  
*RT* relaxation losses

**DIPPED COATINGS**  
 BT1 coatings  
*RT* dip coating

**DIPROTONS**  
 \*BT1 dibaryons  
 \*BT1 protons

**DIPTERA**  
*INIS*: 1993-07-14; *ETDE*: 1981-06-16  
 \*BT1 insects  
 NT1 flies  
 NT2 fruit flies  
 NT3 anastrepha  
 NT3 ceratitis capitata  
 NT3 dacus  
 NT4 dacus oleae  
 NT3 drosophila  
 NT2 glossina

NT2 hylemya antiqua  
 NT2 screwworm fly  
 NT1 mosquitoes  
**DIPYRIDAMOLE**  
*INIS: 1992-08-06; ETDE: 1992-09-10*  
 \*BT1 piperidines  
 \*BT1 vasodilators

**DIRAC APPROXIMATION**

\*BT1 approximations  
 RT quantum mechanics

**DIRAC COSMOLOGY**

BT1 cosmology

**dirac delta function**

USE delta function

**DIRAC EQUATION**

\*BT1 field equations  
 \*BT1 wave equations  
 RT dirac operators  
 RT electrons  
 RT foldy-wouthuysen transform  
 RT joos-weinberg equation  
 RT quantum electrodynamics  
 RT schroedinger equation  
 RT special relativity theory

**DIRAC FORM FACTORS**

\*BT1 form factors

**DIRAC-HESTENES EQUATION**

\*BT1 differential equations

**dirac matrices**

USE dirac operators

**dirac monopoles**

USE magnetic monopoles

**DIRAC OPERATORS**

UF dirac matrices  
 \*BT1 quantum operators  
 RT dirac equation  
 RT quantum electrodynamics

**DIRECT COLLECTION CONVERTERS**

UF radioelectric cells  
 BT1 direct energy converters  
 NT1 betavoltaic cells  
 RT radioisotope batteries

**DIRECT CONTACT HEAT EXCHANGERS**

*INIS: 2000-04-12; ETDE: 1977-12-22*  
 BT1 heat exchangers

**DIRECT CURRENT**

UF current (direct)  
 \*BT1 electric currents  
 RT homopolar generators

**DIRECT CYCLE COOLING SYSTEMS**

\*BT1 reactor cooling systems

**DIRECT DRIVE ICF**

*1999-09-15*  
*Inertial confinement fusion in which the driver energy is directly absorbed by the target capsule.*  
 RT direct drive laser implosion  
 RT inertial confinement

**DIRECT DRIVE LASER IMPLOSION**

*INIS: 1995-07-21; ETDE: 1992-06-11*  
*Laser implosion where the driver energy is directly absorbed by the target capsule.*  
 \*BT1 laser implosions  
 RT direct drive icf  
 RT indirect drive laser implosion

RT inertial fusion drivers  
 RT laser fusion reactors  
 RT laser-produced plasma  
 RT laser-radiation heating  
 RT laser targets  
 RT pulsed fusion reactors

**DIRECT ENERGY CONVERSION**

\*BT1 energy conversion  
 NT1 photovoltaic conversion  
 NT1 thermionic conversion  
 NT1 thermoelectric conversion  
 NT1 thermomagnetic conversion  
 NT1 thermophotovoltaic conversion  
 RT direct energy converters  
 RT electrohydrodynamics  
 RT magnetohydrodynamics

**DIRECT ENERGY CONVERTERS**

NT1 direct collection converters  
 NT2 betavoltaic cells  
 NT1 efd wind generators  
 NT1 ehd generators  
 NT1 ferroelectric converters  
 NT1 fuel cells  
 NT2 acid electrolyte fuel cells  
 NT2 alcohol fuel cells  
 NT3 direct ethanol fuel cells  
 NT3 direct methanol fuel cells  
 NT2 alkaline electrolyte fuel cells  
 NT2 ammonia fuel cells  
 NT2 biochemical fuel cells  
 NT2 coal fuel cells  
 NT2 formaldehyde fuel cells  
 NT2 formate fuel cells  
 NT2 formic acid fuel cells  
 NT2 high-temperature fuel cells  
 NT3 molten carbonate fuel cells  
 NT3 solid oxide fuel cells  
 NT2 hydrazine fuel cells  
 NT2 hydrocarbon fuel cells  
 NT2 hydrogen fuel cells  
 NT2 natural gas fuel cells  
 NT2 regenerative fuel cells  
 NT3 redox fuel cells  
 NT2 solid electrolyte fuel cells  
 NT3 proton exchange membrane fuel cells  
 NT3 solid oxide fuel cells  
 NT1 mhd generators  
 NT2 closed-cycle mhd generators  
 NT3 liquid-metal mhd generators  
 NT2 coal-fired mhd generators  
 NT3 mhd generator cdif  
 NT3 mhd generator cfff  
 NT3 mhd generator etf  
 NT3 mhd generator utsi  
 NT2 disk mhd generators  
 NT2 mhd generator aedc  
 NT2 mhd generator aerl mark vi  
 NT2 mhd generator aerl mark vii  
 NT2 mhd generator u-02  
 NT2 mhd generator u-25  
 NT2 open-cycle mhd generators  
 NT2 pulsed mhd generators  
 NT1 photoelectric cells  
 NT2 photoconductive cells  
 NT2 photovoltaic cells  
 NT3 solar cells  
 NT4 aluminium arsenide solar cells  
 NT4 back contact solar cells  
 NT4 cadmium arsenide solar cells  
 NT4 cadmium selenide solar cells  
 NT4 cadmium sulfide solar cells  
 NT4 cadmium telluride solar cells  
 NT4 cascade solar cells  
 NT4 concentrator solar cells  
 NT4 copper oxide solar cells  
 NT4 copper selenide solar cells  
 NT4 copper sulfide solar cells

NT4 gallium arsenide solar cells  
 NT4 gallium phosphide solar cells  
 NT4 indium phosphide solar cells  
 NT4 indium selenide solar cells  
 NT4 mi solar cells  
 NT4 mis solar cells  
 NT4 mos solar cells  
 NT4 ms solar cells  
 NT4 organic solar cells  
 NT4 pis solar cells  
 NT4 ps solar cells  
 NT4 schottky barrier solar cells  
 NT4 selenium solar cells  
 NT4 silicon arsenide solar cells  
 NT4 silicon solar cells  
 NT5 soc solar cells  
 NT4 zinc phosphide solar cells  
 NT4 zinc sulfide solar cells  
 NT1 radioisotope batteries  
 NT2 snap batteries  
 NT3 snap 19 battery  
 NT3 snap 27 battery  
 NT3 snap 9 battery  
 NT1 thermionic converters  
 NT1 thermoelectric generators  
 NT1 thermoelectric heaters  
 NT1 thermoelectric refrigerators  
 NT1 thermophotovoltaic converters  
 RT direct energy conversion  
 RT power supplies

**DIRECT ETHANOL FUEL CELLS**

*2006-09-25*

\*BT1 alcohol fuel cells

**DIRECT GAIN SYSTEMS**

*INIS: 2000-04-12; ETDE: 1980-09-04*  
 (Prior to September 1980 HEAT GAIN was used to index this concept in ETDE.)  
 \*BT1 passive solar heating systems  
 RT heat gain

**DIRECT INJECTION ENGINES**

*2004-08-26*

\*BT1 internal combustion engines

**DIRECT METHANOL FUEL CELLS**

*INIS: 2000-04-12; ETDE: 1999-09-09*

\*BT1 alcohol fuel cells  
 RT proton exchange membrane fuel cells

**DIRECT REACTIONS**

BT1 nuclear reactions  
 NT1 knock-on reactions  
 NT1 knock-out reactions  
 NT1 quasi-free reactions  
 NT2 quasi-elastic scattering  
 NT1 transfer reactions  
 NT2 multi-nucleon transfer reactions  
 NT3 four-nucleon transfer reactions  
 NT4 alpha-transfer reactions  
 NT3 many-nucleon transfer reactions  
 NT3 three-nucleon transfer reactions  
 NT3 two-nucleon transfer reactions  
 NT2 one-nucleon transfer reactions  
 NT2 pickup reactions  
 NT2 stripping  
 RT oppenheimer-phillips process

**DIRECT SOLAR RADIATION**

*INIS: 1997-06-19; ETDE: 1979-10-23*

*Solar radiation that has not been scattered or reflected in traversal of the atmosphere.*

\*BT1 solar flux  
 \*BT1 solar radiation  
 RT diffuse solar radiation  
 RT insolation  
 RT solar access

**DIRECTED-ENERGY WEAPONS**

INIS: 2000-04-12; ETDE: 1981-08-21

UF particle-beam weapons

BT1 weapons

NT1 laser weapons

RT ballistic missile defense

RT charged particles

RT particle beams

RT space weapons

**directional correlation**

USE angular correlation

**DIRECTIONAL DRILLING**

INIS: 1992-07-06; ETDE: 1977-04-12

Drilling at a deviated angle. The drilling usually starts out vertically and is then deflected gradually.

BT1 drilling

RT enhanced recovery

RT geothermal wells

RT well drilling

**DIRECTIONAL RADIATION****DETECTORS**

\*BT1 radiation detectors

**DIRECTORIES**

INIS: 1999-03-02; ETDE: 1978-10-23

(Until March 1999 this concept was indexed by INDEXES.)

BT1 document types

RT catalogs

RT indexes

**DIRICHLET PROBLEM**

BT1 boundary-value problems

RT differential equations

RT partial differential equations

**dirigibles**

INIS: 2000-04-12; ETDE: 1980-01-15

(Prior to March 1996 AIRSHIPS was used for this concept in ETDE.)

USE aircraft

**DISACCHARIDES**

1996-06-28

(Prior to July 1996 MELIBIOSE was a valid ETDE descriptor.)

UF melibiose

\*BT1 oligosaccharides

NT1 cellobiose

NT1 lactose

NT1 maltose

NT1 saccharose

**DISADVANTAGE FACTOR**

BT1 dimensionless numbers

RT multiplication factors

RT neutron flux

**disarmament**

INIS: 1992-01-30; ETDE: 1985-08-09

SEE arms control

SEE nuclear disarmament

**disaster (exceptional natural)**

INIS: 1985-12-10; ETDE: 2002-01-30

USE exceptional natural disaster

**disasters**

INIS: 2000-03-27; ETDE: 1978-06-14

Large-scale drought, glacier movement, floods, fires, storms, etc.

(Prior to March 1996 this was a valid ETDE descriptor.)

SEE accidents

SEE natural disasters

**disbursements**

INIS: 2000-04-12; ETDE: 1983-05-21

Funds paid out, payments in settlement, or expenditures from a fund.

(Prior to September 1994, this was a valid ETDE descriptor.)

SEE administrative procedures

SEE financing

**DISCALOY**

2000-04-12

\*BT1 aluminium additions

\*BT1 carbon additions

\*BT1 chromium alloys

\*BT1 iron base alloys

\*BT1 manganese additions

\*BT1 molybdenum alloys

\*BT1 nickel alloys

\*BT1 silicon additions

\*BT1 titanium alloys

**DISCHARGE CANALS**

2000-04-12

RT auxiliary water systems

RT cooling systems

**DISCHARGE QUENCHING**

1996-04-16

The stifling of a discharge by suddenly applying a load to lower its thermal energy.

UF quenching (discharge)

RT electric discharges

RT thermonuclear devices

**discharges (electric)**

USE electric discharges

**discharges (ionization)**

USE ionization

**discharges (wastes)**

USE waste disposal

**discharging (fission reactor)**

1982-11-29

USE reactor fueling

**discount rate**

INIS: 2000-04-12; ETDE: 1978-06-14

USE interest rate

**DISCRETE ORDINATE METHOD**

UF carlson method

UF discrete ordinates

UF sn method

BT1 calculation methods

RT neutron transport theory

RT transport theory

**discrete ordinates**

ETDE: 1978-05-01

USE discrete ordinate method

**DISCRIMINATORS**

BT1 electronic circuits

NT1 pulse discriminators

RT timing circuits

**disease free period**

INIS: 1985-03-19; ETDE: 1985-04-09

The time between disease treatment and recurrence of symptoms.

USE latency period

**DISEASE INCIDENCE**

INIS: 1985-01-18; ETDE: 1981-06-16

UF morbidity

RT disease resistance

RT diseases

RT epidemiology

RT plant diseases

**DISEASE RESISTANCE**

RT disease incidence

RT diseases

RT epidemiology

RT immunity

RT mutants

RT plant breeding

RT plant diseases

**DISEASE VECTORS**

RT diseases

RT glossina

RT insects

RT mites

RT parasites

RT pathogens

RT rodents

RT snails

**DISEASES**

Limited to diseases of man and animals; see also PLANT DISEASES.

NT1 cardiovascular diseases

NT2 arteriosclerosis

NT2 hypertension

NT2 ischemia

NT2 myocardial infarction

NT2 nephrosclerosis

NT2 telangiectasis

NT2 thrombosis

NT1 congenital diseases

NT2 downs syndrome

NT1 digestive system diseases

NT2 enteritis

NT2 hepatitis

NT3 infectious hepatitis

NT2 liver cirrhosis

NT2 peritonitis

NT2 proctitis

NT1 endocrine diseases

NT2 acromegaly

NT2 cushing syndrome

NT2 diabetes mellitus

NT2 goiter

NT2 hyperparathyroidism

NT2 hyperthyroidism

NT2 hypothyroidism

NT2 thyroiditis

NT1 hemic diseases

NT2 anemias

NT3 ischemia

NT3 megaloblastic anemia

NT3 sickle cell anemia

NT3 thalassemia

NT2 hemophilia

NT2 leukopenia

NT3 lymphopenia

NT2 polycythemia

NT2 purpura

NT1 hereditary diseases

NT2 downs syndrome

NT2 hemophilia

NT1 immune system diseases

NT2 aids

NT2 leukemia

NT3 myeloid leukemia

NT2 leukopenia

NT3 lymphopenia

NT2 lupus

NT2 lymphomas

NT3 hodgkins disease

NT3 lymphosarcomas

NT1 infectious diseases

NT2 bacterial diseases

NT3 cholera

NT3 diphtheria

NT3 gonorrhoea

NT3 leprosy

NT3 syphilis

NT3 tetanus  
 NT3 tuberculosis  
 NT3 typhoid  
 NT2 fungal diseases  
 NT3 mycoses  
 NT3 tinea  
 NT2 parasitic diseases  
 NT3 fascioliasis  
 NT3 filariasis  
 NT3 hydatidosis  
 NT3 malaria  
 NT3 schistosomiasis  
 NT3 trichinosis  
 NT3 trypanosomiasis  
 NT2 rickettsial diseases  
 NT3 typhus  
 NT2 viral diseases  
 NT3 aids  
 NT3 herpes simplex  
 NT3 herpes zoster  
 NT3 infectious hepatitis  
 NT3 influenza  
 NT3 measles  
 NT3 newcastle disease  
 NT3 poliomyelitis  
 NT3 rabies  
 NT1 injuries  
 NT2 bone fractures  
 NT2 burns  
 NT3 flash burns  
 NT3 radiation burns  
 NT2 radiation injuries  
 NT3 osteoradionecrosis  
 NT3 radiation burns  
 NT3 radiodermatitis  
 NT2 wounds  
 NT1 metabolic diseases  
 NT2 diabetes mellitus  
 NT2 rickets  
 NT1 neoplasms  
 NT2 carcinomas  
 NT3 adenomas  
 NT3 angiomas  
 NT3 epitheliomas  
 NT4 melanomas  
 NT3 hepatomas  
 NT2 experimental neoplasms  
 NT3 ehrlich ascites tumor  
 NT2 gliomas  
 NT3 astrocytomas  
 NT2 granulomas  
 NT2 leukemia  
 NT3 myeloid leukemia  
 NT2 lymphomas  
 NT3 hodgkins disease  
 NT3 lymphosarcomas  
 NT2 sarcomas  
 NT3 fibrosarcomas  
 NT3 lymphosarcomas  
 NT3 myosarcomas  
 NT4 rhabdomyosarcomas  
 NT3 osteosarcomas  
 NT1 nervous system diseases  
 NT2 encephalitis  
 NT2 epilepsy  
 NT2 gliomas  
 NT3 astrocytomas  
 NT2 herpes zoster  
 NT2 myelitis  
 NT3 poliomyelitis  
 NT2 rabies  
 NT1 occupational diseases  
 NT1 respiratory system diseases  
 NT2 asthma  
 NT2 bronchitis  
 NT2 emphysema  
 NT2 pneumoconioses  
 NT3 berylliosis  
 NT2 pneumonia

NT3 bronchopneumonia  
 NT1 sense organs diseases  
 NT2 cataracts  
 NT2 conjunctivitis  
 NT1 skeletal diseases  
 NT2 osteomyelitis  
 NT2 osteoporosis  
 NT2 osteoradionecrosis  
 NT2 osteosarcomas  
 NT2 rickets  
 NT2 spondylitis  
 NT1 skin diseases  
 NT2 dermatitis  
 NT3 radiodermatitis  
 NT2 eczema  
 NT2 herpes simplex  
 NT2 psoriasis  
 NT2 telangiectasis  
 NT1 urogenital system diseases  
 NT2 gonorrhea  
 NT2 menstruation disorders  
 NT2 nephritis  
 NT2 nephrosclerosis  
 NT2 reproductive disorders  
 NT2 uremia  
 NT1 vascular diseases  
 NT2 arteriosclerosis  
 NT2 hypertension  
 NT2 ischemia  
 NT2 nephrosclerosis  
 NT2 telangiectasis  
 NT2 thrombosis  
 RT disease incidence  
 RT disease resistance  
 RT disease vectors  
 RT epidemiology  
 RT etiology  
 RT medicine  
 RT pathogenesis  
 RT pathogens  
 RT pathological changes  
 RT pathology  
 RT quarantine  
 RT symptoms

#### DISHWASHERS

INIS: 1993-07-29; ETDE: 1977-01-28

\*BT1 appliances  
 RT cleaning  
 RT electric appliances  
 RT gas appliances  
 RT washing

#### DISINFECTANTS

INIS: 1997-06-17; ETDE: 1975-10-01

BT1 germicides  
 RT antiseptics  
 RT bacteria  
 RT drugs  
 RT infectivity  
 RT pesticides

#### disinfection

INIS: 1975-12-19; ETDE: 2002-06-13

USE sterilization

#### DISINFESTATION

NT1 grain disinfestation  
 NT1 radiodisinfestation  
 RT pesticides  
 RT preservation  
 RT sterilization

#### disintegration (biological)

USE decomposition

#### disintegration (chemical)

USE decomposition

#### disintegration (fission)

USE fission

#### disintegration (nuclear particles)

1993-11-05

SEE annihilation

SEE particle decay

#### disintegration (nuclear)

USE decay

#### DISK MHD GENERATORS

INIS: 1993-02-19; ETDE: 1979-05-03

UF radial flow mhd generators

\*BT1 mhd generators

#### disks (accretion)

INIS: 1984-04-04; ETDE: 2002-06-13

USE accretion disks

#### disks (intervertebral)

INIS: 1984-04-04; ETDE: 2002-06-13

USE cartilage

USE vertebrae

#### disks (magnetic)

USE magnetic disks

#### DISLOCATION PINNING

RT cold working

RT dislocations

RT grain boundaries

#### DISLOCATIONS

SF frank-read source

\*BT1 line defects

NT1 edge dislocations

NT1 screw dislocations

RT bordoni peak

RT burgers vector

RT dislocation pinning

RT kikuchi lines

RT peierls-nabarro force

RT slip

RT stacking faults

RT superdislocations

#### dismantlement (nuclear weapons)

1994-09-30

USE nuclear weapons dismantlement

#### dismantling (fission reactor)

INIS: 1982-11-30; ETDE: 2002-06-13

USE reactor dismantling

#### dismantling (fuel assembly)

USE fuel assembly dismantling

#### dismantling (reactor)

2000-04-12

USE reactor dismantling

#### dispersal (insect)

USE insect dispersal

#### dispersants (chemical)

INIS: 2000-04-12; ETDE: 1979-07-24

USE surfactants

#### disperse systems

USE dispersions

#### DISPERSED STORAGE AND GENERATION

INIS: 1999-05-13; ETDE: 1980-03-04

RT electric power

RT electric utilities

RT energy storage

RT load management

RT on-site power generation

RT power generation

RT power systems

#### DISPERSION HARDENING

BT1 hardening



**DISPERSION NUCLEAR FUELS**

*A dispersion of nuclear fuel particles in a solid.*

- \*BT1 nuclear fuels
- \*BT1 solid fuels
- RT fuel dispersion reactors
- RT fuel particles

**DISPERSION RELATIONS**

*For dispersion of light use OPTICAL DISPERSION.*

- UF dispersion theory
- UF fraser-fulco method
- SF khuri representation
- RT bifurcation
- RT cdd poles
- RT mandelstam representation
- RT n-d method
- RT partial waves
- RT plasma instability
- RT plasma waves
- RT quantum field theory
- RT scattering
- RT scattering amplitudes
- RT spectral functions

**dispersion theory**

- USE dispersion relations

**DISPERSIONS**

*For the state of aggregation in materials; if related to wave phenomena see DISPERSION RELATIONS or OPTICAL DISPERSION.*

- UF disperse systems
- NT1 colloids
- NT2 agar
- NT2 alginic acid
- NT2 emulsions
  - NT3 microemulsions
  - NT3 photographic emulsions
- NT2 foams
  - NT3 plastic foams
  - NT3 urea-formaldehyde foams
- NT2 gelatin
- NT2 gels
  - NT3 hydrogels
  - NT3 hydrophylic polymers
- NT2 radiocolloids
  - NT3 thorotrast
- NT2 sols
  - NT3 aerosols
    - NT4 radioactive aerosols
    - NT4 smokes
      - NT5 tobacco smokes
- NT1 mixtures
  - NT2 binary mixtures
  - NT2 homogeneous mixtures
    - NT3 solutions
      - NT4 aqueous solutions
      - NT4 fuel solutions
      - NT4 hypertonic solutions
      - NT4 isotonic solutions
      - NT4 leachates
      - NT4 process solutions
      - NT4 solid solutions
  - NT2 mixed solvents
  - NT2 slurries
    - NT3 fuel slurries
- NT1 suspensions
  - NT2 slurries
    - NT3 fuel slurries
- NT1 td-nickel
- NT1 td-nickel chromium
- RT dusts
- RT elutriation
- RT gases
- RT liquids
- RT microspheres
- RT particle resuspension
- RT particle size

- RT particles
- RT particulates
- RT solids
- RT sprays
- RT total suspended particulates

**dispersive ion waves**

- USE ion plasma waves

**DISPLACEMENT FLUIDS**

*INIS: 1992-02-03; ETDE: 1983-11-09*

- UF flooding fluids
- UF injection fluids
- BT1 fluids
- RT enhanced recovery
- RT fluid injection
- RT well stimulation

**DISPLACEMENT GAGES**

- UF position indicators
- BT1 measuring instruments

**displacement rates**

*INIS: 2000-04-12; ETDE: 1979-09-26*

(Prior to February 1997 this was a valid ETDE descriptor.)

- SEE atomic displacements
- SEE fluid flow
- SEE ground motion
- SEE seismology

**DISPLACEMENT VENTILATION**

*2004-05-28*

*Ventilation technique in which fresh air is introduced at floor level and used air is extracted at ceiling level on the opposite side of the room, or vice versa.*

- BT1 ventilation
- RT natural convection
- RT ventilation systems

**displacements (atomic)**

*INIS: 1982-11-29; ETDE: 2002-06-13*

- USE atomic displacements

**displacements (seismic)**

*INIS: 1982-11-29; ETDE: 2002-06-13*

- USE ground motion

**DISPLAY DEVICES**

- UF data display devices
- UF data display systems
- \*BT1 computer-graphics devices
- NT1 interactive display devices
- RT cathode ray tubes
- RT computer graphics
- RT consoles
- RT control rooms
- RT electronic equipment
- RT image tubes
- RT images
- RT man-machine systems
- RT pattern recognition
- RT plotters
- RT semiconductor devices

**disposable income**

*INIS: 2000-04-12; ETDE: 1981-03-17*

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE income

**disposal (wastes)**

- USE waste disposal

**DISPOSAL WELLS**

*INIS: 1992-03-25; ETDE: 1984-05-23*

- BT1 wells
- RT brines
- RT radioactive waste disposal
- RT underground disposal

**disproportionation**

- USE oxidation
- USE reduction

**DISPUTE SETTLEMENTS**

*INIS: 1976-12-08; ETDE: 1993-11-01*

(From March 1981 till March 1997

MEDIATION was a valid ETDE descriptor.)

- UF settlements (disputes)
- SF mediation
- RT arbitration
- RT courts
- RT hearings
- RT lawsuits

**DISSIPATION FACTOR**

- BT1 dimensionless numbers
- RT energy losses
- RT heat losses

**DISSOCIATING GASES**

*INIS: 1985-12-10; ETDE: 1976-03-11*

- \*BT1 gases
- RT dissociation

**DISSOCIATION**

- NT1 predissociation
- RT decomposition
- RT dissociating gases
- RT dissociation energy
- RT dissociation heat
- RT electrolysis
- RT electrolytes
- RT ionization
- RT photolysis
- RT pyrolysis
- RT radiolysis
- RT reaction kinetics

**DISSOCIATION ENERGY**

*For the bond property only; for the reaction property see DISSOCIATION HEAT.*

- UF energy of dissociation
- BT1 energy
- RT dissociation
- RT formation heat
- RT molecular structure

**DISSOCIATION HEAT**

- UF heat of dissociation
- \*BT1 reaction heat
- RT dissociation
- RT formation heat
- RT thermochemical heat storage

**DISSOLUTION**

- NT1 leaching
  - NT2 microbial leaching
- RT dissolvers
- RT fractionation
- RT solubility
- RT solutes
- RT solutions
- RT solvent extraction
- RT solvent properties
- RT solvents

**DISSOLVED GASES**

*INIS: 1983-10-14; ETDE: 1980-09-22*

- UF dissolved oxygen
- \*BT1 gases
- BT1 solutes
- RT anaerobic conditions
- RT biochemical oxygen demand
- RT deaerators
- RT partial pressure
- RT water chemistry
- RT water pollution
- RT water treatment

**dissolved materials**

INIS: 2000-04-12; ETDE: 1982-03-10  
USE solutes

**dissolved oxygen**

INIS: 2000-04-12; ETDE: 1980-09-22  
USE dissolved gases  
USE oxygen

**dissolved solids**

INIS: 1986-05-23; ETDE: 2002-06-13  
USE solutes

**DISSOLVERS**

INIS: 1993-03-24; ETDE: 1976-01-23  
BT1 equipment  
RT dissolution

**DISTANCE**

NT1 elementary length  
NT1 interaction range  
NT1 interatomic distances  
RT automation  
RT dimensions  
RT manipulators  
RT radiation protection  
RT range  
RT remote handling  
RT shielding  
RT thickness

**distillate fuel**

INIS: 2000-04-12; ETDE: 1976-03-11  
USE heating oils

**distillate fuel oil**

INIS: 2000-04-12; ETDE: 1976-03-11  
USE heating oils

**DISTILLATES**

2000-04-12  
NT1 naphtha  
NT2 ligroin  
NT1 petroleum distillates  
NT2 gas oils  
NT3 diesel fuels  
NT3 fuel oils  
NT4 heating oils  
NT4 residual fuels  
NT3 kerosene  
RT distillation  
RT oils  
RT vapors

**DISTILLATION**

1999-07-13  
BT1 separation processes  
NT1 destructive distillation  
NT1 solar distillation  
NT1 vacuum distillation  
RT azeotrope  
RT chloride volatility process  
RT demineralization  
RT desalination  
RT distillates  
RT distillation equipment  
RT evaporation  
RT evaporators  
RT flash heating  
RT fluoride volatility process  
RT fractionation  
RT petroleum  
RT petroleum refineries  
RT stillage  
RT volatility

**DISTILLATION EQUIPMENT**

INIS: 2000-07-11; ETDE: 1976-09-28  
BT1 equipment  
NT1 retorts  
RT distillation

RT petroleum refineries

**DISTILLERS DRIED GRAINS**

INIS: 2000-04-12; ETDE: 1981-08-04  
Residue produced by drying the solid portion of the mash obtained after alcoholic fermentation prior to distillation.

UF ddg  
RT animal feeds  
RT by-products  
RT fermentation  
RT stillage

**distorted wave born approximation**

USE dwba

**DISTORTED WAVE THEORY**

RT dwba  
RT nuclear reaction kinetics

**DISTRIBUTED COLLECTOR POWER PLANTS**

INIS: 1992-03-11; ETDE: 1978-09-11  
\*BT1 solar thermal power plants  
RT msstf

**DISTRIBUTED DATA PROCESSING**

INIS: 1992-03-12; ETDE: 1980-10-27  
\*BT1 data processing  
RT information systems

**DISTRIBUTED STRUCTURES**

2004-09-03  
Coordinate with relevant descriptor(s) for what is distributed, e.g. THERMAL POWER PLANTS, WASTE PROCESSING PLANTS, HOSPITALS.  
RT buildings  
RT computer architecture  
RT energy facilities  
RT modular structures  
RT nuclear facilities  
RT test facilities

**DISTRIBUTION**

1996-03-04  
For energy distribution use ENERGY SPECTRA.

UF inclusive distribution  
UF kurtosis  
UF skewness  
NT1 angular distribution  
NT1 spatial distribution  
NT2 mass distribution  
NT1 subcellular distribution  
NT1 tissue distribution  
RT allocations  
RT anisotropy  
RT asymmetry  
RT boltzmann statistics  
RT gauss function  
RT gaussian processes  
RT isotropy  
RT particle kinematics  
RT symmetry

**distribution constants**

ETDE: 2002-06-13  
USE distribution functions

**distribution factor (rad doses)**

USE spatial dose distributions

**DISTRIBUTION FUNCTIONS**

UF distribution constants  
UF residence time distribution  
BT1 functions  
RT ion exchange  
RT ion exchange chromatography  
RT plasma  
RT solvent extraction  
RT tail electrons

RT tail ions

**DISTRICT COOLING**

INIS: 1993-01-15; ETDE: 1975-11-11  
BT1 cooling  
RT central heating plants

**DISTRICT HEATING**

BT1 heating  
NT1 geothermal district heating  
NT1 solar district heating  
RT boilers  
RT central heating plants  
RT cogeneration  
RT dual-purpose power plants  
RT geothermal heating systems  
RT heat distribution systems  
RT heat transfer  
RT heating systems  
RT hot water  
RT slowpoke-wmre reactor  
RT space heating  
RT steam  
RT steam generation plants  
RT thermal power plants  
RT thermal transmission ices  
RT waste heat

**district of columbia**

ETDE: 1978-09-11  
USE washington dc

**DISTURBANCES**

UF ionospheric effects  
UF perturbations  
NT1 ionospheric storms  
NT2 sudden ionospheric disturbance  
NT2 travelling ionospheric disturbance  
RT magnetic bays  
RT magnetic storms  
RT oscillations  
RT pulsations  
RT variations

**DISULFIDES**

\*BT1 organic sulfur compounds  
NT1 cystine  
NT1 thioctic acid

**disused mineshafts**

INIS: 2000-04-12; ETDE: 1978-05-01  
USE abandoned shafts

**DITE TOKAMAK**

INIS: 1981-07-06; ETDE: 1981-08-04  
\*BT1 tokamak devices

**DITHIOLS**

UF 1,2-ethanedithiol  
UF dimercaptoethane  
BT1 reagents  
\*BT1 thiols  
NT1 dimercaprol  
NT1 unithiol

**DITHIZONE**

UF diphenylthiocarbazone  
\*BT1 carbazones  
BT1 chelating agents  
\*BT1 organic sulfur compounds  
BT1 reagents

**DIURETICS**

1996-07-18  
(Prior to March 1997 CHLOROTHIAZIDE was a valid ETDE descriptor.)  
UF chlorothiazide  
BT1 drugs  
NT1 neohydrin  
NT1 sorbitol  
NT1 theobromine  
NT1 theophylline

RT antihypertensive agents  
 RT edema  
 RT kidneys  
 RT urine  
 RT urogenital system diseases

**diurnal variation**

USE daily variations

**diva tokamak**

INIS: 1981-09-17; ETDE: 1981-08-04

USE jft-2a tokamak

**divergences (infrared)**

USE infrared divergences

**divergences (ultraviolet)**

USE ultraviolet divergences

**DIVERSIFICATION**

INIS: 2000-01-13; ETDE: 1980-03-29

RT economy  
 RT investment  
 RT technology impacts

**DIVERTORS**

1995-11-21

NT1 bundle divertors  
 NT1 ergodic divertors  
 NT1 poloidal field divertors  
 NT1 toroidal field divertors  
 RT exhaust systems  
 RT h-mode plasma confinement  
 RT magnetic field configurations  
 RT magnetic surfaces  
 RT plasma impurities  
 RT stellarators

**DIVING OPERATIONS**

INIS: 1993-03-25; ETDE: 1976-03-11

BT1 underwater operations  
 RT life support systems  
 RT offshore operations  
 RT underwater facilities

**DIVINYLBENZENE**

INIS: 1982-06-09; ETDE: 1979-07-18

\*BT1 aromatics  
 \*BT1 hydrocarbons

**djakarta irt-2000 reactor**

USE irt-2000 djakarta reactor

**DJALMAITE**

2000-04-12

\*BT1 uranium minerals

**DJIBOUTI**

INIS: 1992-05-07; ETDE: 1981-01-30

Formerly AFARS AND ISSAS. Material published before 1981 would be so indexed.

UF afars and issas  
 BT1 africa  
 BT1 arab countries

**dlts**

INIS: 1999-06-23; ETDE: 1983-04-28

USE deep level transient spectroscopy

**dmba**

INIS: 1980-05-14; ETDE: 1979-07-18

USE dimethylbenzanthracene

**DME**

UF 1,2-dimethoxyethane  
 \*BT1 ethers  
 RT organic solvents

**DMSO**

UF dimethyl sulfoxide  
 \*BT1 sulfoxides

**DMTR REACTOR**

UF downreay materials testing reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 materials testing reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**DNA**

1997-06-17

UF deoxyntose nucleic acid  
 UF deoxyribonucleic acid  
 UF desoxyribonucleic acid  
 \*BT1 nucleic acids  
 NT1 contigs  
 NT1 oligonucleotides  
 NT1 recombinant dna  
 RT chromosomes  
 RT dna adducts  
 RT dna-ase  
 RT dna-cloning  
 RT dna polymerases  
 RT dna repair  
 RT dna replication  
 RT dna sequencing  
 RT exons  
 RT feulgen method  
 RT gene operons  
 RT genetic engineering  
 RT helical configuration  
 RT host-cell reactivation  
 RT human chromosomes  
 RT in-situ hybridization  
 RT introns  
 RT nucleosomes  
 RT strand breaks

**DNA ADDUCTS**

INIS: 1984-04-04; ETDE: 1983-11-09

BT1 adducts  
 RT carcinogenesis  
 RT carcinogens  
 RT chemical bonds  
 RT dna  
 RT metabolism  
 RT mutagenesis  
 RT mutagens  
 RT radiomimetic drugs

**DNA-ASE**

Code number 3.1.4.5.

UF deoxyribonuclease  
 UF nuclease (deoxyribonuclease)  
 \*BT1 nucleases  
 NT1 endonucleases  
 RT dna  
 RT nucleoproteins

**DNA BASE TRANSITIONS**

INIS: 2000-04-12; ETDE: 1987-12-17

Changes in the genetic message of an organism by substitution of (usually) one nucleotide for another.

RT dna repair  
 RT mutations

**DNA-CLONING**

INIS: 1997-06-17; ETDE: 1977-11-10

BT1 cloning  
 \*BT1 dna hybridization  
 RT cosmids  
 RT dna  
 RT dna replication  
 RT oligonucleotides  
 RT polymerase chain reaction  
 RT transposons

**DNA DAMAGES**

INIS: 1998-02-16; ETDE: 1999-08-24

NT1 strand breaks  
 RT chromosomal aberrations  
 RT dna repair  
 RT dna replication  
 RT radiation injuries

**DNA HELICASES**

INIS: 1993-08-16; ETDE: 1984-06-29

An enzyme that unwinds segments of damaged DNA in preparation for DNA repair.

\*BT1 enzymes  
 RT dna repair

**DNA HYBRIDIZATION**

INIS: 2000-01-11; ETDE: 1988-10-27

BT1 hybridization  
 \*BT1 nucleic acid hybridization  
 NT1 dna-cloning  
 RT genetic mapping  
 RT hybridomas  
 RT in-situ hybridization  
 RT messenger-rna  
 RT oligonucleotides  
 RT recombinant dna

**DNA METHYLASES**

INIS: 1993-08-16; ETDE: 1988-04-15

\*BT1 lyases  
 RT endonucleases  
 RT methyl transferases  
 RT nucleoproteins

**DNA MISMATCH**

INIS: 2000-04-12; ETDE: 1984-06-29

DNA containing mismatched base pairs can be formed as a result of DNA exchange between non-identical sequences or as a result of errors in DNA replication.

RT dna replication  
 RT gene recombination  
 RT mutations

**DNA POLYMERASES**

INIS: 1984-06-21; ETDE: 1984-01-27

\*BT1 polymerases  
 RT biological repair  
 RT dna  
 RT dna repair  
 RT dna replication  
 RT nucleoproteins  
 RT rna polymerases  
 RT transcription

**DNA REPAIR**

INIS: 1998-02-16; ETDE: 1984-05-09

UF dark repair  
 \*BT1 biological repair  
 NT1 excision repair  
 RT chromosomes  
 RT dna  
 RT dna base transitions  
 RT dna damages  
 RT dna helicases  
 RT dna polymerases  
 RT endonucleases  
 RT gene recombination proteins  
 RT human chromosomes  
 RT methyl transferases  
 RT pyrimidine dimers  
 RT strand breaks

**DNA REPLICATION**

1998-02-16

BT1 nucleic acid replication  
 RT cell cycle  
 RT dna  
 RT dna-cloning  
 RT dna damages  
 RT dna mismatch

RT dna polymerases  
 RT telomeres  
 RT transcription

**DNA SEQUENCERS**

1994-02-28

\*BT1 laboratory equipment  
 RT automation  
 RT dna sequencing  
 RT measuring instruments

**DNA SEQUENCING**

INIS: 1984-12-04; ETDE: 1984-01-27

*The chemical determination of the sequence of the nucleotides in a strand of DNA.*

BT1 structural chemical analysis  
 RT dna  
 RT dna sequencers  
 RT molecular biology  
 RT molecular structure  
 RT nucleotides

**dnb**

USE departure nucleate boiling

**dnep river**

INIS: 1992-05-13; ETDE: 2002-06-13

USE dnepier river

**DNIEPER RIVER**

INIS: 1992-05-13; ETDE: 1992-06-22

UF dnep river  
 \*BT1 rivers  
 RT black sea  
 RT pripet river  
 RT ukraine

**dnp**

USE dinitrophenol

**doca**

1996-10-23

*Desoxycorticosterone acetate.*

(Until October 1996 this was a valid descriptor.)

USE mineralocorticoids

**document destruction**

INIS: 2000-04-12; ETDE: 1983-03-23

(Prior to September 1994, this was a valid ETDE descriptor.)

SEE legal aspects  
 SEE security

**document retrieval**

USE information retrieval

**DOCUMENT TYPES**

*See scope note for each of the descriptors below for its proper usage.*

UF data forms  
 SF technical writing  
 NT1 bibliographies  
 NT1 catalogs  
 NT1 dictionaries  
 NT1 directories  
 NT1 environmental impact statements  
 NT1 hearings  
 NT1 indexes  
 NT1 lectures  
 NT1 manuals  
 NT1 patents  
 NT1 proceedings  
 NT1 progress report  
 NT1 regulatory guides  
 NT1 reviews  
 RT abstracts  
 RT safety reports

**DOCUMENTATION**

*The assembling, coding, and disseminating of recorded knowledge.*

RT data compilation  
 RT information retrieval  
 RT information systems  
 RT knowledge preservation  
 RT privacy act  
 RT reporting requirements

**DODECANE**

\*BT1 alkanes

**DODECANOIC ACID**

UF lauric acid  
 \*BT1 monocarboxylic acids

**DODECYL RADICALS**

UF lauryl radicals  
 \*BT1 alkyl radicals

**DODEWAARD REACTOR**

*Dodewaard, Gelderland, Netherlands.*

UF gkn reactor (dodewaard)  
 \*BT1 bwr type reactors

**DOEL-1 REACTOR**

*Doel-Beveren, Flandre, Belgium.*

\*BT1 pwr type reactors

**DOEL-2 REACTOR**

*Doel-Beveren, Flandre, Belgium.*

\*BT1 pwr type reactors

**DOEL-3 REACTOR**

INIS: 1977-09-15; ETDE: 1977-11-10

*Doel-Beveren, Flandre, Belgium.*

\*BT1 pwr type reactors

**DOEL-4 REACTOR**

INIS: 1981-05-11; ETDE: 1981-06-13

*Doel-Beveren, Flandre, Belgium.*

\*BT1 pwr type reactors

**DOGS**

UF canines  
 UF mongrels  
 \*BT1 mammals  
 NT1 beagles  
 RT foxes  
 RT wolves

**dolantal**

USE pethidine

**DOLLARS**

\*BT1 reactivity units

**DOLOMITE**

*A common rock-forming rhombohedral mineral.*

UF bitter spar  
 SF pearl spar  
 \*BT1 carbonate minerals  
 RT calcite  
 RT calcium carbonates  
 RT limestone  
 RT magnesium carbonates

**dolomite rock**

INIS: 1985-12-10; ETDE: 2002-06-13

USE limestone

**dolphins**

INIS: 1991-09-30; ETDE: 1981-06-15

USE cetaceans

**DOMAIN STRUCTURE**

(From January 1975 until March 1996 LANDAU DOMAIN STRUCTURE was a valid ETDE descriptor.)

UF landau domain structure  
 NT1 bloch wall

RT magnetic properties

**DOMED STRUCTURES**

INIS: 2000-04-12; ETDE: 1980-05-06

UF domes (structures)  
 BT1 mechanical structures  
 RT buildings  
 RT high rooms  
 RT shells

**domes (structures)**

INIS: 2000-04-12; ETDE: 1980-05-06

USE domed structures

**DOMESTIC ANIMALS**

UF farm animals  
 UF livestock  
 BT1 animals  
 NT1 cattle  
 NT2 calves  
 NT2 cows  
 NT1 goats  
 NT1 sheep  
 NT1 swine  
 NT2 miniature swine  
 RT agriculture  
 RT animal breeding  
 RT buffalo  
 RT camels  
 RT grazing  
 RT rangelands  
 RT rearing  
 RT screwworm fly

**domestic crude oil entitlements program**

INIS: 2000-04-12; ETDE: 1979-03-28

USE entitlements program

**DOMESTIC SAFEGUARDS**

BT1 safeguards

**DOMESTIC SUPPLIES**

INIS: 1986-07-09; ETDE: 1978-12-11

*Goods whose source country is the same as the place of use, i.e. native goods not requiring import from another country.*

RT availability  
 RT exports  
 RT gross national product  
 RT imports  
 RT market  
 RT shortages  
 RT supply and demand  
 RT trade

**domestic wastes**

INIS: 1985-07-18; ETDE: 1980-07-23

(Prior to August 1985 this was a valid descriptor.)

USE municipal wastes

**DOMINANT MUTATIONS**

BT1 mutations

**DOMINIC PROJECT**

UF project dominic  
 \*BT1 nuclear explosions  
 RT atmospheric explosions  
 RT underwater explosions

**DOMINICAN REPUBLIC**

BT1 developing countries  
 \*BT1 hispaniola  
 BT1 latin america

**donald c. cook-1 reactor**

USE cook-1 reactor

**donald c. cook-2 reactor**

USE cook-2 reactor

**donkeys**

INIS: 2000-04-12; ETDE: 1978-04-05  
USE burros

**DONNAN THEORY**

RT diffusion  
RT electrolytes  
RT osmosis

**DOORS**

BT1 openings  
NT1 storm doors  
RT air curtains  
RT buildings

**DOPA**

UF 3,4-dihydroxyphenylalanine  
\*BT1 amino acids  
\*BT1 hydroxy acids  
\*BT1 neuroregulators  
RT dopamine  
RT phenylalanine

**DOPAMINE**

\*BT1 amines  
\*BT1 cardiotonics  
\*BT1 neuroregulators  
\*BT1 polyphenols  
\*BT1 sympathomimetics  
RT dopa  
RT pyrocatechol  
RT spiperone

**DOPED MATERIALS**

UF materials (doped)  
BT1 materials  
RT bromine additions  
RT chlorine additions  
RT crystal doping  
RT fluorine additions  
RT ion implantation  
RT semiconductor materials  
RT trace amounts

**doping (crystal)**

USE crystal doping

**DOPPLER BROADENING**

BT1 line broadening  
RT doppler coefficient  
RT doppler effect

**DOPPLER COEFFICIENT**

BT1 reactivity coefficients  
RT doppler broadening  
RT temperature coefficient

**DOPPLER EFFECT**

RT doppler broadening  
RT dsa method  
RT red shift  
RT spectral shift

**doppler shift attenuation method**

INIS: 1979-12-20; ETDE: 1980-01-24  
USE dsa method

**dopplerons**

2000-04-12  
USE quasi particles

**DORIS STORAGE RING**

BT1 storage rings

**dormitories**

INIS: 2000-04-12; ETDE: 1981-01-09  
USE residential buildings

**DOSE COMMITMENTS**

RT delayed radiation effects  
RT dose equivalents  
RT dose limits  
RT internal irradiation

RT life span  
RT medical surveillance  
RT radiation doses  
RT radionuclide kinetics

**dose distributions**

USE radiation dose distributions

**DOSE EQUIVALENTS**

(From January 1975 till April 1997 SIEVERT UNIT was a valid ETDE descriptor.)

RT dose commitments  
RT dose limits  
RT dosimetry  
RT ionizing radiations  
RT let  
RT quality factor  
RT radiation doses  
RT tissue-equivalent detectors

**dose fractionation**

USE fractionated irradiation

**DOSE LIMITS**

\*BT1 safety standards  
RT dose commitments  
RT dose equivalents  
RT maximum permissible dose  
RT radiation doses  
RT unsear

**DOSE RATEMETERS**

UF ratemeters (dose)  
RT dosimetry

**DOSE RATES**

RT low dose irradiation  
RT pulsed irradiation  
RT radiation doses  
RT radiation effects  
RT temporal dose distributions  
RT time dependence

**dose reduction factor**

INIS: 1984-04-04; ETDE: 1984-05-10  
USE efficiency  
USE radioprotective substances

**dose relative factor**

INIS: 1984-04-04; ETDE: 1984-05-10  
USE efficiency  
USE radioprotective substances

**DOSE-RESPONSE RELATIONSHIPS**

RT acute exposure  
RT biological effects  
RT biological indicators  
RT fractionated irradiation  
RT genetically significant dose  
RT lethal irradiation  
RT low dose irradiation  
RT radiation dose distributions  
RT radiation doses  
RT radiation effects  
RT radiosensitivity  
RT sublethal irradiation  
RT supralethal irradiation  
RT survival curves  
RT toxicity

**DOSEMETERS**

UF dosimeters  
UF radiation dosimeters  
BT1 measuring instruments  
NT1 albedo-neutron dosimeters  
NT1 biological dosimeters  
NT1 bragg gray chambers  
NT1 bubble dosimeters  
NT1 calorimetric dosimeters  
NT1 chemical dosimeters  
NT1 colorimetric dosimeters  
NT1 condenser ionization chambers

NT1 exoelectron dosimeters  
NT1 extrapolation chambers  
NT1 luminescent dosimeters  
NT2 rpl dosimeters  
NT2 thermoluminescent dosimeters  
NT1 photographic film dosimeters  
NT1 ritac dosimeters  
NT1 ritad dosimeters  
RT dosimetry  
RT radiation detection  
RT radiation detectors  
RT radiation doses  
RT radiation monitoring  
RT radiation monitors  
RT scintillation counters  
RT semiconductor detectors

**DOSES**

INIS: 2000-04-12; ETDE: 1976-04-19

NT1 lethal doses  
NT2 lethal radiation dose  
NT1 radiation doses  
NT2 genetically significant dose  
NT2 integral doses  
NT2 lethal radiation dose  
NT2 somatically significant dose  
NT2 threshold dose

**doses (lethal)**

INIS: 1986-03-04; ETDE: 2002-06-13  
USE lethal doses

**doses (radiation)**

ETDE: 2002-06-13  
USE radiation doses

**dosimeters**

USE dosimeters

**DOSIMETRY**

UF radiation dosimetry  
NT1 alpha dosimetry  
NT1 beta dosimetry  
NT1 electron dosimetry  
NT1 film dosimetry  
NT1 gamma dosimetry  
NT1 ion dosimetry  
NT1 microdosimetry  
NT1 neutron dosimetry  
NT1 personnel dosimetry  
NT1 pion dosimetry  
NT1 proton dosimetry  
NT1 thermoluminescent dosimetry  
NT1 x-ray dosimetry  
RT dose equivalents  
RT dose ratemeters  
RT dosimeters  
RT icru  
RT lyoluminescence  
RT measuring methods  
RT radiation detection  
RT radiation dose units  
RT radiation doses  
RT radiation monitoring  
RT radiation protection  
RT radiations  
RT ssdl

**DOUBLE BETA DECAY**

INIS: 1983-06-30; ETDE: 1983-07-20  
Decay (A, Z) yields (A, Z+2), and related reactions.

\*BT1 beta-minus decay

**DOUBLE BONDS**

BT1 chemical bonds  
RT binding energy

**DOUBLE ENVELOPE BUILDINGS**

INIS: 1992-08-25; ETDE: 1981-06-13  
UF convective loop houses

- UF double shell houses  
 UF double wall houses  
 UF envelope houses  
 UF thermal envelope houses  
 BT1 buildings  
 RT passive solar heating systems

**double focusing spectrometers**

- USE flat magnetic spectrometers

**DOUBLE GLAZING**

- INIS: 2000-04-12; ETDE: 1983-03-23  
*Two layers of glass or other material used on windows or solar collectors to reduce heat loss. The still air in the space between the windows acts as a good insulator.*  
 UF thermal insulating glass  
 RT coverings  
 RT glass  
 RT glazing materials  
 RT windows

**DOUBLE LABELLING**

- BT1 labelling  
 RT labelled compounds

**DOUBLE RESONANCE METHODS**

- INIS: 1977-03-01; ETDE: 1977-04-12  
*Simultaneous excitation of two resonance transitions of different frequencies increasing the sensitivity of high frequency spectroscopy.*  
 RT absorption spectroscopy  
 RT eldor  
 RT electron spin resonance  
 RT endor  
 RT nuclear magnetic resonance  
 RT optical pumping  
 RT zeeman effect

**double shell houses**

- INIS: 1992-08-25; ETDE: 1981-06-13  
 USE double envelope buildings

**double wall houses**

- INIS: 1992-08-25; ETDE: 1981-06-13  
 USE double envelope buildings

**DOUBLET-2 DEVICE**

- Octupolar configuration.  
 \*BT1 tokamak devices

**DOUBLET-3 DEVICE**

- INIS: 1976-05-05; ETDE: 1979-04-12  
 UF diiii-d  
 \*BT1 tokamak devices

**DOUBLET REACTORS**

- INIS: 2000-04-12; ETDE: 1978-04-27  
 \*BT1 tokamak type reactors

**DOUGLAS POINT-1 REACTOR**

- Potomac Electric Power Co., Nanjamoy, Maryland, USA. Canceled in 1977 before construction began.  
 \*BT1 bwr type reactors

**DOUGLAS POINT-2 REACTOR**

- Potomac Electric Power Co., Nanjamoy, Maryland, USA. Canceled in 1977 before construction began.  
 \*BT1 bwr type reactors

**DOUGLAS POINT ONTARIO REACTOR**

- INIS: 1975-09-25; ETDE: 1975-12-16  
*For information indexed before 1976 CANDU REACTOR was used.*  
 UF candu reactor  
 UF douglas point power station  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors

**douglas point power station**

- USE douglas point ontario reactor

**douglas point site**

- INIS: 2000-04-12; ETDE: 1980-01-24  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE maryland  
 USE power plants

**dounreay fast reactor**

- USE dfr reactor

**dounreay materials testing reactor**

- 1993-11-05  
 USE dmtr reactor

**dounreay prototype fast reactor**

- 2000-04-12  
 USE pfr reactor

**dow chemical triga-mk-1 reactor**

- 1993-11-05  
 USE dow triga-mk-1 reactor

**DOW GASIFICATION PROCESS**

- INIS: 1992-07-06; ETDE: 1986-03-04  
*Pressurized, entrained flow, slagging, slurry-fed gasification.*  
 \*BT1 coal gasification  
 RT entrainment

**DOW LIQUEFACTION PROCESS**

- INIS: 2000-04-12; ETDE: 1979-07-18  
*Expendable catalyst system based on emulsion technology, hydrocyclones for partial solids removal, and liquid-liquid extractor.*  
 \*BT1 coal liquefaction

**dow pusher 700**

- INIS: 2000-04-12; ETDE: 1977-03-04  
 USE polyamides

**DOW TRIGA-MK-1 REACTOR**

- The Dow Chemical Co., Midland, Michigan, USA.  
 UF dow chemical triga-mk-1 reactor  
 \*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors  
 \*BT1 triga type reactors

**dowa process**

- INIS: 2000-04-12; ETDE: 1981-08-21  
*This process is a dual-alkali flue gas desulfurization process which utilizes basic aluminium sulfate solution for sulfur dioxide absorption and limestone for regeneration of the absorbent.*  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

**dowex**

- USE organic ion exchangers

**downhole information systems**

- INIS: 2000-04-12; ETDE: 1978-12-11  
 USE mwd systems

**DOWNS SYNDROME**

- UF mongolism  
 \*BT1 congenital diseases  
 \*BT1 congenital malformations  
 \*BT1 hereditary diseases  
 RT chromosomal aberrations

**DOWNWELLING**

- INIS: 2000-04-12; ETDE: 1987-02-13  
*Process by which a water mass sinks from a shallower to a deeper level.*  
 RT environmental transport  
 RT upwelling  
 RT water currents

**dowtherm**

- 2000-04-12  
 USE biphenyl  
 USE phenyl ether

**DOXORUBICIN**

- INIS: 1980-11-07; ETDE: 1980-04-14  
 UF adriamycin  
 \*BT1 antibiotics  
 \*BT1 antineoplastic drugs  
 RT mutagenesis

**dpa**

- INIS: 1982-11-29; ETDE: 1980-05-06  
*Displacements per atom.*  
 USE atomic displacements

**DPCA**

- UF diphenylcarbazines  
 \*BT1 carbonic acid derivatives  
 \*BT1 organic nitrogen compounds

**dpo**

- Diphenylphosphine oxide.  
 USE organic phosphorus compounds

**DPPH**

- UF diphenylpicrylhydrazyl  
 \*BT1 nitro compounds  
 BT1 radicals  
 RT hydrazine

**DPSO**

- UF diamyl sulfoxide  
 UF dipentyl sulfoxide  
 \*BT1 sulfoxides

**DR-1 REACTOR**

- Risoe National Lab., Roskilde, Denmark.  
 UF danish reactor-1  
 \*BT1 aqueous homogeneous reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**DR-2 REACTOR**

- Risoe National Lab., Roskilde, Denmark.  
 UF danish reactor-2  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**DR-3 REACTOR**

- Risoe National Lab., Roskilde, Denmark.  
 UF danish reactor-3  
 \*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 materials testing reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**draft control systems**

- INIS: 2000-04-12; ETDE: 1979-01-30  
 (Prior to February 1997 this was a valid ETDE descriptor.)  
 USE flow regulators  
 USE gas flow

**DRAG**

- UF drag coefficient
- RT fluid mechanics
- RT hartmann number

**drag coefficient**

- USE drag

**drag effect**

- USE electrophoresis

**DRAGLINES**

INIS: 2000-04-12; ETDE: 1981-10-24  
Excavators operated by pulling buckets on cables toward jibs from which they are suspended.

- \*BT1 earthmoving equipment
- RT excavation
- RT mining equipment

**DRAGON REACTOR**

- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 helium cooled reactors
- \*BT1 htgr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors
- \*BT1 thorium reactors

**drain-down systems**

INIS: 2000-04-12; ETDE: 1978-03-03  
Components of equipment, e.g. solar collectors, using a method of freeze protection by draining out water when the equipment reaches a dangerously low temperature. Use descriptor for equipment involved, e.g. SOLAR COLLECTORS or SOLAR WATER HEATERS, and the descriptor below.

(Until March 1996 this was a valid ETDE descriptor.)

- USE freeze protection

**DRAINAGE**

INIS: 1984-08-24; ETDE: 1980-03-29

- UF drainage areas
- UF drainage systems
- RT floods
- RT fluid flow
- RT hydrology
- RT mine draining
- RT rivers
- RT runoff
- RT settling ponds
- RT waste water
- RT watersheds

**drainage areas**

INIS: 2000-04-12; ETDE: 1980-03-29

- USE drainage

**drainage systems**

INIS: 2000-04-12; ETDE: 1980-03-29

- USE drainage

**draperies**

INIS: 2000-04-12; ETDE: 1979-02-27

- USE curtains

**DRAWDOWN**

1992-04-08

Reduction of fluid level in reservoirs by intentional withdrawal.

- RT ground water
- RT pumping
- RT reservoir fluids

**DRAWING**

- \*BT1 materials working
- RT cold working

**DREDGE SPOIL**

INIS: 1991-10-11; ETDE: 1978-04-05

- RT dredging
- RT mineral wastes
- RT sediments
- RT solid wastes
- RT spoil banks

**DREDGING**

INIS: 1991-10-11; ETDE: 1978-04-05

- RT dredge spoil
- RT excavation

**DRELL MODEL**

- RT photoproduction

**DRESDEN-1 REACTOR**

Commonwealth Edison Co., Morris, Illinois, USA. Shut down in 1978; decommissioned in 1993.

- \*BT1 bwr type reactors

**DRESDEN-2 REACTOR**

Exelon Generation Co., LLC, Morris, Illinois, USA.

- \*BT1 bwr type reactors

**DRESDEN-3 REACTOR**

Exelon Generation Co., LLC, Morris, Illinois, USA.

- \*BT1 bwr type reactors

**drf**

INIS: 1984-04-04; ETDE: 1984-05-10

Dose Reduction Factor.

- USE efficiency
- USE radioprotective substances

**drift (electron)**

- USE electron drift

**drift (ion)**

- USE ion drift

**drift (plasma)**

- USE plasma drift

**DRIFT CHAMBERS**

- UF multiwire drift chambers
- \*BT1 multiwire proportional chambers
- NT1 time projection chambers
- RT fermilab collider detector
- RT ion-mobility detectors
- RT projection spark chambers
- RT stanford linear collider detector

**DRIFT INSTABILITY**

- \*BT1 plasma microinstabilities
- RT plasma drift

**drift pumping**

INIS: 2000-04-12; ETDE: 1984-11-09

A subset of plasma rf pumping that pumps perpendicular energy into the trapped ion population at frequencies near the trapped ion bounce frequency. Radial displacements by geodesic curvature drifts are enhanced so that the ions drift out to a limiter.

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE high-frequency heating

**DRIFT TUBES**

- RT linear accelerators

**DRILL BITS**

INIS: 1976-03-25; ETDE: 1975-09-11

- \*BT1 drilling equipment
- \*BT1 tools
- RT drilling
- RT drills
- RT jet drills
- RT machine tools

- RT materials drilling
- RT percussive drills
- RT rotary drills
- RT spark drills

**DRILL CORES**

Cylindrical or columnar pieces of solid rock or sections of soil, taken as samples of an underground formation by a special hollow-type drill bit.

- UF cores (drill)
- RT coring fluids
- RT well logging

**drill cuttings removal**

INIS: 1993-03-23; ETDE: 1983-03-23

- USE cuttings removal

**drill holes**

INIS: 2000-04-12; ETDE: 1985-05-31

- USE boreholes

**DRILL PIPES**

INIS: 1992-03-25; ETDE: 1977-03-08

- \*BT1 drilling equipment
- \*BT1 pipes
- RT drills

**drill ships**

INIS: 2000-04-12; ETDE: 1976-08-04

- USE offshore platforms
- USE ships

**DRILL STEM TESTING**

INIS: 2000-04-12; ETDE: 1977-06-02

Testing involving temporary completion of a well to prove the productive possibilities of an oil or gas strike with the drill stem in the hole.

- BT1 testing
- RT natural gas wells
- RT oil wells

**DRILLING**

1991-08-14

- NT1 directional drilling
- NT1 offshore drilling
- NT1 rock drilling
- NT1 rotary drilling
- NT1 well drilling
- RT cuttings removal
- RT drill bits
- RT drilling fluids
- RT mwd systems
- RT turbodrills
- RT wells

**drilling (materials)**

- USE materials drilling

**drilling (rock)**

- USE rock drilling

**DRILLING EQUIPMENT**

INIS: 1992-03-11; ETDE: 1976-03-11

(From July 1978 till April 1997 CORING EQUIPMENT was a valid ETDE descriptor.)

- UF core barrel
- UF coring equipment
- UF diamond drilling equipment
- BT1 equipment
- NT1 blowout preventers
- NT1 drill bits
- NT1 drill pipes
- NT1 drilling rigs
- NT1 drills
- NT2 jet drills
- NT2 percussive drills
- NT2 rotary drills
- NT3 turbodrills
- NT2 spark drills
- NT2 subterranean penetrators
- RT drilling fluids

- RT rotary drilling  
RT well drilling

**DRILLING FLUIDS**

1991-10-11

*Limited to materials used in well drilling.*

- UF drilling mud  
UF lost circulation  
BT1 fluids  
RT coring fluids  
RT cuttings removal  
RT drilling  
RT drilling equipment  
RT rotary drilling  
RT suspensions

**drilling mud**

1991-10-11

- USE drilling fluids

**drilling platforms**

INIS: 1992-04-09; ETDE: 1976-03-11

- USE offshore platforms

**DRILLING RIGS**

INIS: 1992-03-25; ETDE: 1975-10-01

*A drill machine complete with all tools and accessory equipment needed to drill boreholes.*

- \*BT1 drilling equipment  
RT well drilling

**drilling risers**

INIS: 2000-04-12; ETDE: 1977-04-12

- USE marine risers

**DRILLS**

INIS: 1992-05-08; ETDE: 1977-03-08

- \*BT1 drilling equipment  
NT1 jet drills  
NT1 percussive drills  
NT1 rotary drills  
NT2 turbodrills  
NT1 spark drills  
NT1 subterranean penetrators  
RT drill bits  
RT drill pipes  
RT rock drilling  
RT well drilling

**DRINKING WATER**

- UF potable water  
\*BT1 water  
RT auxiliary water systems  
RT beverages  
RT diet  
RT food  
RT fresh water  
RT ingestion  
RT water coolers  
RT water treatment

**DROPLET MODEL**

- \*BT1 nuclear models

**DROPLETS**

- BT1 particles  
RT aerosols  
RT atmospheric precipitations  
RT atomization  
RT liquids  
RT particle size  
RT rain  
RT spray cooling  
RT sprays  
RT washout

**DROPWISE CONDENSATION**

- BT1 vapor condensation

**DROSOPHILA**

- \*BT1 fruit flies

**DROUGHT RESISTANCE**

INIS: 1997-03-14; ETDE: 1997-04-01

- RT agriculture  
RT biological stress  
RT cultivation techniques  
RT irrigation  
RT plant breeding  
RT plant growth  
RT water requirements

**DROUGHTS**

INIS: 1992-07-23; ETDE: 1986-07-25

*Extensive periods of abnormally dry weather causing serious hydrologic imbalances.*

- RT arid lands  
RT atmospheric precipitations  
RT climates  
RT heat stress  
RT weather

**DRUG ABUSE**

INIS: 1988-05-13; ETDE: 1982-08-11

- RT drugs  
RT health hazards  
RT human factors  
RT occupational safety

**DRUGS**

(From April 1981 to March 1997 HORMONE ANTAGONISTS was a valid ETDE descriptor.)

- UF hormone antagonists  
UF medicines  
UF pharmaceuticals  
UF therapeutic agents  
NT1 anti-infective agents

## NT2 antibiotics

- NT3 actinomycin  
NT3 bleomycin  
NT3 chloramphenicol  
NT3 cycloheximide  
NT3 doxorubicin  
NT3 erythromycin  
NT3 mitomycin  
NT3 neocarcinostatin  
NT3 neomycin  
NT3 penicillin  
NT3 puromycin  
NT3 streptomycin  
NT3 streptozocin  
NT3 tetracyclines  
NT4 oxytetracycline  
NT3 valinomycin  
NT2 antimicrobial agents  
NT3 fudr  
NT3 isoniazid  
NT3 methylene blue  
NT3 quinine  
NT3 sulfonamides

## NT1 antiandrogens

## NT1 antihistaminics

## NT1 antimetabolites

- NT2 adenines  
NT3 kinetin  
NT2 aminopterin  
NT2 bromouracils  
NT3 budr  
NT2 deoxyuridine  
NT2 ethionine  
NT2 fluorodeoxyglucose  
NT2 fluorouracils  
NT3 fudr  
NT2 iodouracils  
NT3 iododeoxyuridine  
NT2 mercaptopurine  
NT2 methotrexate  
NT2 thiouracil  
NT1 antimitotic drugs  
NT2 actinomycin  
NT2 bleomycin

## NT2 colchicine

## NT2 mitomycin

## NT2 nem

## NT2 oncovin

## NT2 vinblastine

## NT1 antineoplastic drugs

## NT2 actinomycin

## NT2 aminopterin

## NT2 bleomycin

## NT2 chlorambucil

## NT2 doxorubicin

## NT2 metronidazole

## NT2 misonidazole

## NT2 mitomycin

## NT2 neocarcinostatin

## NT2 puromycin

## NT2 streptozocin

## NT1 antithyroid drugs

## NT2 thiocyanates

## NT3 ammonium thiocyanates

## NT2 thiouracil

## NT2 thiourea

## NT1 autonomic nervous system agents

## NT2 neuroregulators

## NT3 acetylcholine

## NT3 adrenaline

## NT3 aminobutyric acid

## NT3 dopa

## NT3 dopamine

## NT3 endorphins

## NT4 enkephalins

## NT3 noradrenaline

## NT3 serotonin

## NT4 bufotenine

## NT2 parasympholytics

## NT3 atropine

## NT3 nicotine

## NT2 parasymphathomimetics

## NT3 acetylcholine

## NT3 eserine

## NT3 nicotine

## NT3 pilocarpine

## NT2 spiperone

## NT2 sympatholytics

## NT3 ergotamine

## NT3 reserpine

## NT2 sympathomimetics

## NT3 adrenaline

## NT3 amphetamines

## NT4 benzedrine

## NT3 dopamine

## NT3 ephedrine

## NT3 noradrenaline

## NT3 serotonin

## NT4 bufotenine

## NT3 tyramine

## NT1 cardiovascular agents

## NT2 antihypertensive agents

## NT3 reserpine

## NT2 cardiotonics

## NT3 adrenaline

## NT3 cardiac glycosides

## NT4 digitalis glycosides

## NT5 digitoxin

## NT5 digoxin

## NT4 strophanthins

## NT5 ouabain

## NT3 dopamine

## NT3 noradrenaline

## NT2 vasoconstrictors

## NT3 angiotensin

## NT3 ephedrine

## NT2 vasodilators

## NT3 dipyridamole

## NT3 theobromine

## NT3 theophylline

## NT1 central nervous system agents

## NT2 analeptics

## NT3 amphetamines



NT4 benzedrine  
 NT3 caffeine  
 NT2 central nervous system depressants  
 NT3 analgesics  
   NT4 acetylsalicylic acid  
   NT4 antipyrine  
   NT4 codeine  
   NT4 opium  
     NT5 morphine  
     NT6 thebaine  
   NT4 pethidine  
 NT3 anesthetics  
   NT4 barbiturates  
     NT5 nembutal  
     NT5 phenobarbital  
   NT4 cocaine  
   NT4 procaine  
 NT3 anticonvulsants  
   NT4 phenobarbital  
 NT3 antipyretics  
   NT4 acetylsalicylic acid  
   NT4 antipyrine  
   NT4 colchicine  
   NT4 quinine  
 NT3 hypnotics and sedatives  
   NT4 barbiturates  
     NT5 nembutal  
     NT5 phenobarbital  
   NT4 chlorpromazine  
   NT4 codeine  
   NT4 reserpine  
 NT3 narcotics  
   NT4 heroin  
   NT4 methadone hydrochloride  
   NT4 opium  
     NT5 morphine  
     NT6 thebaine  
   NT4 pethidine  
 NT2 psychotropic drugs  
 NT3 antidepressants  
   NT4 cocaine  
   NT4 imipramine  
 NT3 hallucinogens  
   NT4 bufotenine  
 NT3 tranquilizers  
   NT4 chlorpromazine  
   NT4 reserpine  
 NT1 diuretics  
   NT2 neohydrin  
   NT2 sorbitol  
   NT2 theobromine  
   NT2 theophylline  
 NT1 hematologic agents  
   NT2 anticoagulants  
     NT3 coumarin  
     NT3 heparin  
     NT3 psoralen  
   NT2 blood substitutes  
   NT3 dextran  
   NT3 pectins  
   NT3 pvp  
 NT2 coagulants  
   NT3 protamines  
 NT2 fibrinolytic agents  
   NT3 fibrinolysin  
   NT3 plasminogen  
   NT3 urokinase  
 NT2 hematinics  
   NT3 folic acid  
   NT3 intrinsic factor  
   NT3 vitamin b-12  
 NT1 immunosuppressive drugs  
   NT2 cyclosporine  
   NT2 endoxan  
 NT1 lipotropic factors  
   NT2 betaine  
   NT2 choline  
   NT2 ethionine  
   NT2 inositol

NT2 methionine  
 NT2 phyctic acid  
 NT2 thioctic acid  
 NT1 radiomimetic drugs  
   NT2 neocarcinostatin  
 NT1 radiopharmaceuticals  
 NT1 radioprotective substances  
   NT2 beta-aminoethyl isothiourae  
   NT2 cystamine  
   NT2 cystaphos  
   NT2 cysteamine  
   NT2 dimercaprol  
   NT2 dtpa  
   NT2 gammaphos  
   NT2 glutathione  
   NT2 hydroxytryptophan  
   NT2 kallikrein  
   NT2 mercaptoethylguanidine  
   NT2 mercaptopropylamine  
   NT2 mexamine  
   NT2 mpg  
   NT2 penicillamine  
   NT2 serotonin  
     NT3 bufotenine  
 NT1 radiosensitizers  
   NT2 fudr  
   NT2 metronidazole  
   NT2 misonidazole  
   NT2 nem  
   NT2 triacetoneamine-n-oxyl  
 RT antiseptics  
 RT chelating agents  
 RT chemotherapy  
 RT clinical trials  
 RT consumer products  
 RT disinfectants  
 RT drug abuse  
 RT food additives  
 RT medical supplies  
 RT medicinal plants  
 RT microbial drug resistance  
 RT mutagens  
 RT ointments  
 RT pharmacology  
 RT teratogens  
 RT therapy  
 RT toxicity  
 RT vitamins  
 RT xenobiotics

#### DRUM WALLS

INIS: 1992-08-25; ETDE: 1979-02-27

UF *baer walls*  
 \*BT1 passive solar cooling systems  
 \*BT1 passive solar heating systems  
 BT1 walls  
 RT buildings

#### DRY ASHING

UF *ashing (dry)*  
 RT combustion  
 RT sample preparation

#### dry deposition

INIS: 2000-04-12; ETDE: 1980-01-15  
 USE deposition

#### DRY HOLES

INIS: 2000-04-12; ETDE: 1977-06-02  
*Wells that are not expected to produce hydrocarbons in sufficient quantities to make their development into producing wells a worthwhile proposition. They may or may not have shown the presence of oil or gas.*

BT1 wells  
 RT natural gas wells  
 RT oil wells

#### DRY SCRUBBERS

INIS: 1992-07-06; ETDE: 1981-07-18  
*Scrubbers in which a slurry is sprayed, or dry powder is injected, into the flue gas to react with the sulfur dioxide and collected in a baghouse or precipitator.*  
 \*BT1 scrubbers  
 RT desulfurization  
 RT flue gas  
 RT spray drying

#### dry-steam systems

INIS: 2000-04-12; ETDE: 1976-03-25  
 USE vapor-dominated systems

#### DRY STORAGE

INIS: 1996-04-16; ETDE: 1981-06-13  
 BT1 storage  
 RT away-from-reactor storage  
 RT radioactive waste storage  
 RT spent fuel storage  
 RT wet storage

#### dry-type cooling towers

2000-04-12  
 USE closed-cycle cooling systems  
 USE cooling towers

#### DRYERS

INIS: 1976-10-07; ETDE: 1975-10-01  
 (From January 1977 to February 1997 DEHYDRATORS was a valid ETDE descriptor.)

UF *dehydrators*  
 NT1 clothes dryers  
 NT1 microwave dryers  
 NT1 solar dryers  
 RT dehumidifiers  
 RT desiccants  
 RT dewatering equipment  
 RT drying  
 RT evaporators

#### DRYING

(From December 1978 to February 1997 DEHUMIDIFICATION was a valid ETDE descriptor.)

SF *dehumidification*  
 NT1 solar drying  
 NT1 spray drying  
 RT coal preparation  
 RT curing  
 RT dehydration  
 RT desiccants  
 RT dryers  
 RT evaporation  
 RT lyophilization  
 RT solar kilns

#### DRYOUT

RT burnout  
 RT heat flux  
 RT hot spots  
 RT rewetting

#### DSA METHOD

INIS: 1979-12-20; ETDE: 1980-01-24  
*Used for the determination of lifetimes of nuclear levels.*

UF *doppler shift attenuation method*  
 BT1 counting techniques  
 RT doppler effect  
 RT lifetime

#### dsnadns

2000-04-12  
 (Prior to June 1996 BERYLLON was a valid ETDE descriptor.)  
 USE arsonic acids  
 USE azo dyes  
 USE dicarboxylic acids

USE naphthols  
USE sulfonic acids

**dta**

USE differential thermal analysis

**dto**

1996-06-19

USE deuterium compounds  
USE tritium oxides

**DTPA**

*Diethylenetriaminepentaacetic acid.*  
UF *diethylenetriaminepentaacetic acid*  
\*BT1 amino acids  
BT1 chelating agents  
\*BT1 radioprotective substances

**DUAL ABSORPTION MODEL**

\*BT1 particle models

**DUAL CYCLE COOLING SYSTEMS**

\*BT1 reactor cooling systems

**dual energy use systems**

INIS: 2000-04-12; ETDE: 1978-11-14  
(From November 1978 till February 1997  
DEUS was used for this concept in ETDE.)  
USE cogeneration

**DUAL-FUEL ENGINES**

INIS: 1992-07-22; ETDE: 1977-07-23  
*Usually diesel engines modified to include a  
gas supply system for operation in dual mode.*  
\*BT1 internal combustion engines  
RT diesel engines  
RT fuel gas

**DUAL-ISOTOPE SUBTRACTION  
TECHNIQUE**

1992-07-10  
(Until July 1992, this descriptor was spelled  
DUAL-ISOTOPE SUBTRACTION TEC.)  
\*BT1 tracer techniques  
RT radiopharmaceuticals  
RT scintiscanning

**DUAL-PURPOSE POWER PLANTS**

INIS: 1977-01-26; ETDE: 1976-03-22  
UF *cogeneration plants*  
SF *mcpp*  
SF *modular cogeneration power plants*  
BT1 power plants  
RT cogeneration  
RT desalination  
RT desalination plants  
RT district heating  
RT power generation  
RT process heat  
RT refuse-fueled power plants

**DUAL RESONANCE MODEL**

\*BT1 veneziano model  
RT duality

**DUAL TEMPERATURE PROCESS**

ETDE: 1975-09-11  
UF *gs process*  
\*BT1 isotope separation  
BT1 isotopic exchange  
RT heavy water

**DUALITY**

*Correlation between resonance poles and  
scattering amplitudes.*  
RT dual resonance model  
RT scattering amplitudes

**DUANE ARNOLD-1 REACTOR**

*Nuclear Management Co., LLC, Palo, Iowa,  
USA.*  
\*BT1 bwr type reactors

**dubai**

INIS: 1992-05-07; ETDE: 1976-08-05  
USE united arab emirates

**DUBNA**

2000-04-12  
\*BT1 russian federation

**dubna, jinr**

INIS: 1975-10-09; ETDE: 2002-06-13  
USE jinr

**dubna ibr-2 reactor**

INIS: 1978-01-13; ETDE: 2002-06-13  
USE ibr-2 reactor

**dubna pulsed reactor**

2000-04-12  
USE ibr-2 reactor

**DUBNA SYNCHROCYCLOTRON**

\*BT1 synchrocyclotrons

**DUBNIUM**

2004-03-18  
(Prior to March 2004 ELEMENT 105 was  
used for this element.)  
UF *eka-tantalum*  
UF *element 105*  
UF *hahnium*  
UF *unnilpentium*  
\*BT1 transactinide elements

**DUBNIUM 255**

2004-03-18  
(Prior to March 2004 ELEMENT 105 255 was  
used for this concept.)  
UF *element 105 255*  
\*BT1 alpha decay radioisotopes  
\*BT1 dubnium isotopes  
\*BT1 heavy nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 spontaneous fission radioisotopes

**DUBNIUM 256**

2004-03-18  
(Prior to March 2004 ELEMENT 105 256 was  
used for this concept.)  
UF *element 105 256*  
\*BT1 alpha decay radioisotopes  
\*BT1 dubnium isotopes  
\*BT1 heavy nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 spontaneous fission radioisotopes

**DUBNIUM 257**

2004-03-18  
(Prior to March 2004 ELEMENT 105 257 was  
used for this concept.)  
UF *element 105 257*  
\*BT1 alpha decay radioisotopes  
\*BT1 dubnium isotopes  
\*BT1 heavy nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 spontaneous fission radioisotopes

**DUBNIUM 258**

2004-03-19  
(Prior to March 2004 ELEMENT 105 258 was  
used for this concept.)  
UF *element 105 258*  
\*BT1 alpha decay radioisotopes  
\*BT1 dubnium isotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 spontaneous fission radioisotopes

**DUBNIUM 259**

2004-03-19  
(Prior to March 2004 ELEMENT 105 259 was  
used for this concept.)  
UF *element 105 259*  
\*BT1 dubnium isotopes  
\*BT1 heavy nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 spontaneous fission radioisotopes

**DUBNIUM 260**

2004-03-19  
(Prior to March 2004 ELEMENT 105 260 was  
used for this element.)  
UF *element 105 260*  
\*BT1 alpha decay radioisotopes  
\*BT1 dubnium isotopes  
\*BT1 heavy nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 spontaneous fission radioisotopes

**DUBNIUM 261**

2004-03-19  
(Prior to March 2004 ELEMENT 105 261 was  
used for this concept.)  
UF *element 105 261*  
\*BT1 alpha decay radioisotopes  
\*BT1 dubnium isotopes  
\*BT1 heavy nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 spontaneous fission radioisotopes

**DUBNIUM 262**

2004-03-19  
(Prior to March 2004 ELEMENT 105 262 was  
used for this concept.)  
UF *element 105 262*  
\*BT1 alpha decay radioisotopes  
\*BT1 dubnium isotopes  
\*BT1 heavy nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 spontaneous fission radioisotopes

**DUBNIUM 263**

2004-03-19  
(Prior to March 2004 ELEMENT 105 263 was  
used for this concept.)  
UF *element 105 263*  
\*BT1 alpha decay radioisotopes  
\*BT1 dubnium isotopes  
\*BT1 heavy nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 spontaneous fission radioisotopes

**DUBNIUM COMPOUNDS**

2004-03-19  
(Prior to March 2004 ELEMENT 105  
COMPOUNDS was used for this concept.)  
UF *element 105 compounds*  
\*BT1 transactinide compounds

**DUBNIUM ISOTOPES**

2004-03-18  
(Prior to March 2004 ELEMENT 105  
ISOTOPES was used for this concept.)  
UF *element 105 isotopes*  
BT1 isotopes  
NT1 dubnium 255  
NT1 dubnium 256  
NT1 dubnium 257  
NT1 dubnium 258  
NT1 dubnium 259  
NT1 dubnium 260  
NT1 dubnium 261  
NT1 dubnium 262  
NT1 dubnium 263

**DUCKS**

\*BT1 fowl

**DUCTILE-BRITTLE TRANSITIONS**UF *transitions (ductile-brittle)*

RT brittleness

RT ductility

RT embrittlement

RT transition temperature

**DUCTILITY**

\*BT1 tensile properties

RT brittle-ductile transitions

RT ductile-brittle transitions

RT plasticity

**DUCTS**UF *ventilation ducts*

RT diffusers

RT fuel channels

RT openings

RT pipes

RT tubes

RT wind tunnels

**ducts (tear)**

INIS: 1977-07-05; ETDE: 2002-06-13

USE lacrimal ducts

**DUDVAH RIVER**

INIS: 2001-12-06; ETDE: 2002-01-18

\*BT1 rivers

RT slovakia

**DUKOVANY-1 REACTOR**

1997-08-20

*Dukovany, South Moravia, Czech Republic.*SF *dukovany v-2 reactor*SF *v-2 reactor (dukovany)*

\*BT1 wwer type reactors

**DUKOVANY-2 REACTOR**

1997-08-20

*Dukovany, South Moravia, Czech Republic.*SF *dukovany v-2 reactor*SF *v-2 reactor (dukovany)*

\*BT1 wwer type reactors

**DUKOVANY-3 REACTOR**

1997-08-20

*Dukovany, South Moravia, Czech Republic.*SF *dukovany v-2 reactor*SF *v-2 reactor (dukovany)*

\*BT1 wwer type reactors

**DUKOVANY-4 REACTOR**

1997-08-20

*Dukovany, South Moravia, Czech Republic.*SF *dukovany v-2 reactor*SF *v-2 reactor (dukovany)*

\*BT1 wwer type reactors

**dukovany v-2 reactor**

1997-08-20

(Until August 1997 this was a valid descriptor.)

SEE dukovany-1 reactor

SEE dukovany-2 reactor

SEE dukovany-3 reactor

SEE dukovany-4 reactor

**DUMAND PROJECT**

INIS: 1980-04-02; ETDE: 1979-09-06

*Deep Underwater Muon And Neutrino Detection Project.*

RT acoustic detection

RT coordinated research programs

RT international cooperation

RT muon detection

RT neutrino detection

RT underwater

RT underwater facilities

**dumontite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE phosphate minerals

USE uranium minerals

**dunes**

INIS: 2000-04-12; ETDE: 1984-08-20

*Low mounds, ridges, banks, or hills of loose, windblown granular material, usually sand, capable of movement.*

(Prior to February 1997 this was a valid ETDE descriptor.)

SEE sand

**DUNGENESS-A REACTOR***Dungeness Point, Kent, United Kingdom.*

\*BT1 carbon dioxide cooled reactors

\*BT1 magnox type reactors

\*BT1 thermal reactors

**DUNGENESS-B REACTOR***Romney Marsh, Kent, United Kingdom.*

\*BT1 agr type reactors

\*BT1 carbon dioxide cooled reactors

\*BT1 power reactors

\*BT1 thermal reactors

**duodenum**

USE small intestine

**DUOPLASMATRONS**

BT1 ion sources

\*BT1 plasmatrons

**DURALUMIN**

1993-10-03

\*BT1 alloy-al95cu4

**DURANALIUM**

2000-04-12

\*BT1 aluminium base alloys

\*BT1 magnesium alloys

**DURANICKEL**

2000-04-12

\*BT1 aluminium alloys

\*BT1 copper additions

\*BT1 iron additions

\*BT1 manganese additions

\*BT1 nickel base alloys

\*BT1 silicon additions

\*BT1 titanium additions

**DURCO**

2000-04-12

\*BT1 chromium-nickel steels

**DURENE**UF *1,2,4,5-tetramethylbenzene*

\*BT1 aromatics

\*BT1 hydrocarbons

**DURIRON**

2000-04-12

\*BT1 carbon additions

\*BT1 iron base alloys

\*BT1 manganese additions

\*BT1 silicon alloys

**DUST COLLECTORS**

INIS: 1976-10-07; ETDE: 1976-02-19

UF *collectors (dust)*

RT dusts

RT electrostatic precipitators

RT fabric filters

RT filters

RT inertial separators

RT scrubbers

RT separation processes

**DUST COOLED REACTORS**

BT1 reactors

**dust fueled reactors**

USE fluid fueled reactors

**DUSTS**UF *respirable dusts*

NT1 cosmic dust

RT acoustic agglomerators

RT aerosols

RT dispersions

RT dust collectors

RT elutriation

RT filters

RT inhalation

RT lunar materials

RT overburden

RT particle resuspension

RT particle size

RT particles

RT particulates

RT pneumoconioses

RT powders

RT respirators

RT rock dusting

RT sedimentation

**DWARF STARS**

BT1 stars

NT1 black dwarf stars

NT1 red dwarf stars

NT1 white dwarf stars

RT helium burning

**DWBA**UF *approximation (distorted-wave)*UF *distorted wave born approximation*

\*BT1 born approximation

RT distorted wave theory

RT nuclear reaction kinetics

RT scattering

**DYE LASERS**

1999-08-16

*Based on transitions between vibrationally broadened electronic states of polyatomic molecules.*

\*BT1 liquid lasers

RT chemical lasers

**DYES**

1996-07-18

UF *murexide*UF *purpuric acid*SF *chemicals*

NT1 acridine orange

NT1 alizarin

NT1 azo dyes

NT2 eriochrome dyes

NT2 evans blue

NT2 methyl orange

NT2 methyl red

NT2 toluidine blue

NT2 trypan blue

NT1 curcumin

NT1 cyanine dyes

NT1 eosin

NT1 fluorescein

NT2 erythrosine

NT1 hematoxylin

NT1 indigo

NT1 indocyanine green

NT1 morin

NT1 phthalocyanines

NT1 pyrocatechol violet

NT1 quinizarin

NT1 rhodamines

NT1 rose bengal

NT1 squarylium dyes

NT1 triphenylmethane dyes

NT2 methyl violet

NT2 methylthymol blue

**NT1** xylenol orange  
*RT* anthraquinones  
*RT* carminic acid  
*RT* chromotropic acid  
*RT* colorimetric dosimeters  
*RT* diazo compounds  
*RT* inks  
*RT* organic solar cells  
*RT* photochromic materials  
*RT* stains

**dymac system**

*INIS: 2000-04-12; ETDE: 1982-11-08*  
 USE nuclear materials management  
 USE plutonium

**DYNAMIC FUNCTION STUDIES**

*INIS: 1975-10-29; ETDE: 1975-12-16*  
*UF dynamic studies (biological)*  
*RT biological functions*  
*RT biological markers*  
*RT equilibrium*  
*RT flow rate*  
*RT radionuclide kinetics*  
*RT radiopharmaceuticals*  
*RT sequential scanning*  
*RT structure-activity relationships*  
*RT tracer techniques*

**dynamic inducer rotors**

*INIS: 2000-04-12; ETDE: 1978-09-13*  
 USE tipvane rotors

**DYNAMIC LOADS**

*INIS: 1981-02-27; ETDE: 1976-08-04*  
*UF load (dynamic)*  
*UF loads (dynamic)*  
**NT1** wind loads  
*RT deformation*  
*RT mechanical tests*  
*RT mechanical vibrations*  
*RT pipe whip*  
*RT ratcheting*  
*RT soil-structure interactions*  
*RT static loads*  
*RT stresses*

**DYNAMIC MASS SPECTROMETERS**

*UF r-f mass spectrometers*  
 \*BT1 mass spectrometers  
**NT1** energy balance mass spectrometers  
**NT1** time-of-flight mass spectrometers

**dynamic materials accountability system**

*INIS: 2000-04-12; ETDE: 1982-11-08*  
 USE nuclear materials management  
 USE plutonium

**DYNAMIC PROGRAMMING**

BT1 calculation methods  
*RT econometrics*  
*RT linear programming*  
*RT mathematical models*  
*RT nonlinear programming*  
*RT optimization*

**dynamic studies (biological)**

*INIS: 1975-10-29; ETDE: 1975-12-16*  
 USE dynamic function studies

**dynamical boson-fermion symmetry**

1984-12-04  
 USE boson-fermion symmetry

**DYNAMICAL GROUPS**

BT1 symmetry groups  
**NT1** o groups  
*RT boson-fermion symmetry*

**DYNAMICS**

*INIS: 1982-12-06; ETDE: 1979-02-27*  
*Study of the motion of a system of particles under the influence of forces.*

BT1 mechanics  
**NT1** beam dynamics  
**NT2** beam bunching  
**NT2** betatron oscillations  
**NT2** phase oscillations  
**NT2** synchrotron oscillations  
*RT bifurcation*  
*RT collisions*  
*RT kinetics*  
*RT limit cycle*

**dynamics (beam)**

2000-04-12  
 USE beam dynamics

**DYNAMITE**

\*BT1 chemical explosives

**DYNAMITRONS**

\*BT1 electrostatic accelerators  
*RT tandem electrostatic accelerators*

**DYNAMOMETERS**

BT1 measuring instruments

**DYNODES**

*RT electron multipliers*

**DYONS**

*Hypothetical particles endowed with both electric and magnetic charges.*  
 \*BT1 postulated particles

**DYSON REPRESENTATION**

*RT boson expansion*  
*RT quantum field theory*

**DYSPROSIUM**

\*BT1 rare earths

**DYSPROSIUM 140**

2004-10-19  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**DYSPROSIUM 141**

*INIS: 1984-08-23; ETDE: 1984-09-05*  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**DYSPROSIUM 142**

*INIS: 1987-02-25; ETDE: 1987-05-01*  
 \*BT1 dysprosium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**DYSPROSIUM 143**

*INIS: 1984-08-23; ETDE: 1984-09-05*  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**DYSPROSIUM 144**

*INIS: 1986-10-29; ETDE: 1986-11-20*  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei

\*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**DYSPROSIUM 145**

*INIS: 1982-08-27; ETDE: 1982-07-08*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**DYSPROSIUM 146**

1981-09-17  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**DYSPROSIUM 147**

*ETDE: 1975-07-29*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**DYSPROSIUM 148**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

**DYSPROSIUM 149**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

**DYSPROSIUM 150**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

**DYSPROSIUM 151**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

**DYSPROSIUM 152**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 rare earth nuclei

**DYSPROSIUM 153**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei

\*BT1 hours living radioisotopes  
 \*BT1 rare earth nuclei

**DYSPROSIUM 154**  
 \*BT1 alpha decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 years living radioisotopes

**DYSPROSIUM 154 TARGET**  
*INIS: 1977-09-15; ETDE: 1977-11-10*  
 BT1 targets

**DYSPROSIUM 155**  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 rare earth nuclei

**DYSPROSIUM 156**  
 \*BT1 dysprosium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

**DYSPROSIUM 156 TARGET**  
*INIS: 1976-02-11; ETDE: 1976-07-12*  
 BT1 targets

**DYSPROSIUM 157**  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 rare earth nuclei

**DYSPROSIUM 158**  
 \*BT1 dysprosium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

**DYSPROSIUM 158 TARGET**  
*INIS: 1975-09-26; ETDE: 1976-07-09*  
 BT1 targets

**DYSPROSIUM 159**  
 \*BT1 days living radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 rare earth nuclei

**DYSPROSIUM 160**  
 \*BT1 dysprosium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

**DYSPROSIUM 160 TARGET**  
*ETDE: 1976-07-09*  
 BT1 targets

**DYSPROSIUM 161**  
 \*BT1 dysprosium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

**DYSPROSIUM 161 REACTIONS**  
*1984-11-30*  
 \*BT1 heavy ion reactions

**DYSPROSIUM 161 TARGET**  
*ETDE: 1976-07-09*  
 BT1 targets

**DYSPROSIUM 162**  
 \*BT1 dysprosium isotopes

\*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

**DYSPROSIUM 162 TARGET**  
*ETDE: 1976-07-09*  
 BT1 targets

**DYSPROSIUM 163**  
 \*BT1 dysprosium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

**DYSPROSIUM 163 TARGET**  
*ETDE: 1976-07-09*  
 BT1 targets

**DYSPROSIUM 164**  
 \*BT1 dysprosium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

**DYSPROSIUM 164 TARGET**  
*ETDE: 1976-07-09*  
 BT1 targets

**DYSPROSIUM 165**  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

**DYSPROSIUM 165 TARGET**  
*INIS: 1981-08-06; ETDE: 1981-09-22*  
 BT1 targets

**DYSPROSIUM 166**  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei

**DYSPROSIUM 167**  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

**DYSPROSIUM 168**  
*INIS: 1982-08-27; ETDE: 1980-05-06*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

**DYSPROSIUM 169**  
*INIS: 1990-12-05; ETDE: 1991-01-15*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 dysprosium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**DYSPROSIUM ADDITIONS**  
*Alloys containing not more than 1% Dy are listed here.*  
 \*BT1 dysprosium alloys  
 \*BT1 rare earth additions

**DYSPROSIUM ALLOYS**  
*Alloys containing more than 1% Dy.*  
 \*BT1 rare earth alloys  
 NT1 dysprosium additions  
 NT1 dysprosium base alloys

**DYSPROSIUM BASE ALLOYS**  
 \*BT1 dysprosium alloys

**DYSPROSIUM BORIDES**  
 \*BT1 borides  
 \*BT1 dysprosium compounds

**DYSPROSIUM BROMIDES**  
 \*BT1 bromides  
 \*BT1 dysprosium compounds

**DYSPROSIUM CARBIDES**  
 \*BT1 carbides  
 \*BT1 dysprosium compounds

**DYSPROSIUM CHLORIDES**  
 \*BT1 chlorides  
 \*BT1 dysprosium compounds

**DYSPROSIUM COMPLEXES**  
 \*BT1 rare earth complexes

**DYSPROSIUM COMPOUNDS**  
*1997-06-17*  
*UF dysprosium perchlorates*  
 BT1 rare earth compounds  
 NT1 dysprosium borides  
 NT1 dysprosium bromides  
 NT1 dysprosium carbides  
 NT1 dysprosium chlorides  
 NT1 dysprosium fluorides  
 NT1 dysprosium hydrides  
 NT1 dysprosium hydroxides  
 NT1 dysprosium iodides  
 NT1 dysprosium nitrates  
 NT1 dysprosium nitrides  
 NT1 dysprosium oxides  
 NT1 dysprosium phosphates  
 NT1 dysprosium phosphides  
 NT1 dysprosium selenides  
 NT1 dysprosium silicates  
 NT1 dysprosium silicides  
 NT1 dysprosium sulfates  
 NT1 dysprosium sulfides  
 NT1 dysprosium tellurides  
 NT1 dysprosium tungstates

**DYSPROSIUM FLUORIDES**  
 \*BT1 dysprosium compounds  
 \*BT1 fluorides

**DYSPROSIUM HYDRIDES**  
 \*BT1 dysprosium compounds  
 \*BT1 hydrides

**DYSPROSIUM HYDROXIDES**  
 \*BT1 dysprosium compounds  
 \*BT1 hydroxides

**DYSPROSIUM IODIDES**  
 \*BT1 dysprosium compounds  
 \*BT1 iodides

**DYSPROSIUM IONS**  
 \*BT1 ions

**DYSPROSIUM ISOTOPES**  
 BT1 isotopes  
 NT1 dysprosium 140  
 NT1 dysprosium 141  
 NT1 dysprosium 142  
 NT1 dysprosium 143  
 NT1 dysprosium 144  
 NT1 dysprosium 145  
 NT1 dysprosium 146  
 NT1 dysprosium 147  
 NT1 dysprosium 148  
 NT1 dysprosium 149  
 NT1 dysprosium 150  
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NT1 dysprosium 155  
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 NT1 dysprosium 164  
 NT1 dysprosium 165  
 NT1 dysprosium 166  
 NT1 dysprosium 167  
 NT1 dysprosium 168  
 NT1 dysprosium 169

**DYSPROSIUM NITRATES**

\*BT1 dysprosium compounds  
 \*BT1 nitrates

**DYSPROSIUM NITRIDES**

\*BT1 dysprosium compounds  
 \*BT1 nitrides

**DYSPROSIUM OXIDES**

\*BT1 dysprosium compounds  
 \*BT1 oxides

**dysprosium perchlorates**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE dysprosium compounds  
 USE perchlorates

**DYSPROSIUM PHOSPHATES**

1975-10-23

\*BT1 dysprosium compounds  
 \*BT1 phosphates

**DYSPROSIUM PHOSPHIDES**

INIS: 2000-04-12; ETDE: 1977-04-12

\*BT1 dysprosium compounds  
 \*BT1 phosphides

**DYSPROSIUM SELENIDES**

INIS: 1982-02-10; ETDE: 1977-12-22

\*BT1 dysprosium compounds  
 \*BT1 selenides

**DYSPROSIUM SILICATES**

INIS: 1991-09-16; ETDE: 1982-12-01

\*BT1 dysprosium compounds  
 \*BT1 silicates

**DYSPROSIUM SILICIDES**

\*BT1 dysprosium compounds  
 \*BT1 silicides

**DYSPROSIUM SULFATES**

\*BT1 dysprosium compounds  
 \*BT1 sulfates

**DYSPROSIUM SULFIDES**

\*BT1 dysprosium compounds  
 \*BT1 sulfides

**DYSPROSIUM TELLURIDES**

INIS: 1978-02-23; ETDE: 1977-10-20

\*BT1 dysprosium compounds  
 \*BT1 tellurides

**DYSPROSIUM TUNGSTATES**

INIS: 2000-04-12; ETDE: 1977-06-02

\*BT1 dysprosium compounds  
 \*BT1 tungstates

**e-1422 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE f1-1420 mesons

**e-beam type reactors**

INIS: 1982-11-29; ETDE: 1976-09-15

USE electron beam fusion reactors

**E CENTERS**

\*BT1 color centers

**E CODES**

BT1 computer codes

**e layer**

USE e region

**E REGION**

UF e layer

\*BT1 ionosphere

NT1 sporadic e

**E STATES**

BT1 energy levels

**E0-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28

Electric monopole transitions.

UF electric monopole transitions

\*BT1 multipole transitions

**E1-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28

Electric dipole transitions.

UF electric dipole transitions

\*BT1 multipole transitions

**E2-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28

Electric quadrupole transitions.

UF electric quadrupole transitions

\*BT1 multipole transitions

**E3-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28

Electric octupole transitions.

UF electric octupole transitions

\*BT1 multipole transitions

**E4-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28

Electric hexadecapole transitions.

UF electric hexadecapole transitions

\*BT1 multipole transitions

**early notification convention**

INIS: 1989-02-24; ETDE: 1989-03-20

USE cenna

**EARLY RADIATION EFFECTS**

UF early radiation injuries

UF immediate radiation effects

\*BT1 biological radiation effects

RT biological indicators

RT delayed radiation effects

RT time dependence

**early radiation injuries**

USE early radiation effects

USE radiation injuries

**ears**

USE auditory organs

**earth (electric grounds)**

INIS: 1982-06-09; ETDE: 2002-06-13

USE electric grounds

**EARTH ATMOSPHERE**

NT1 earth magnetosphere

NT2 magnetotail

NT2 plasma sheet

NT2 plasmopause

NT2 plasmasphere

NT1 exosphere

NT1 ionosphere

NT2 c region

NT2 d region

NT2 e region

NT3 sporadic e

NT2 f region

NT3 f1 layer

NT3 f2 layer

NT3 spread f

NT1 mesosphere

NT1 stratosphere

NT1 thermosphere

NT1 troposphere

NT2 tropopause

RT air

RT airglow

RT atmospheric circulation

RT atmospheric explosions

RT atmospheric precipitations

RT atmospheric pressure

RT earth planet

RT environment

RT fallout

RT geocorona

RT global aspects

RT greenhouse effect

RT meteorology

RT radioactive clouds

RT residence half-time

RT surface air

RT temperature inversions

**EARTH BERMS**

INIS: 2000-04-12; ETDE: 1979-09-26

Earth banks used to moderate temperature change.

UF berms

RT earth-covered buildings

RT landscaping

RT thermal insulation

**EARTH CORE**

1988-02-02

UF core (earth)

RT earth crust

RT earth mantle

RT earth planet

**EARTH-COVERED BUILDINGS**

INIS: 1997-06-17; ETDE: 1977-09-19

UF underground buildings

BT1 buildings

RT earth berms

RT fallout shelters

RT subsurface structures

**EARTH CRUST**

(Prior to March 1997 MOHOLE PROJECT was a valid ETDE descriptor.)

SF mohole project

NT1 continental crust

NT1 oceanic crust

RT earth core

RT earth mantle

RT earth planet

RT geology

RT geomorphology

RT geothermal energy

RT natural occurrence

RT particle resuspension

RT plate tectonics

RT sea bed

RT sea-floor spreading

RT soil mechanics

RT volcanoes

**EARTH MAGNETOSPHERE**

INIS: 1999-04-28; ETDE: 1979-10-03

UF magnetosphere (earth)

BT1 earth atmosphere

NT1 magnetotail

NT1 plasma sheet

NT1 plasmopause

**NTI** plasmasphere  
*RT* geomagnetic field  
*RT* international magnetospheric study  
*RT* loss cone  
*RT* magnetic storms  
*RT* magnetopause  
*RT* magnetosheath  
*RT* planetary magnetospheres  
*RT* polar cusp  
*RT* radiation belts

**EARTH MANTLE**

1985-12-10

*Intermediate shell zone of the earth below the crust and above the core.*

*SF* mohole project  
*RT* earth core  
*RT* earth crust  
*RT* earth planet  
*RT* overburden

**EARTH PENETRATORS**

INIS: 2000-04-12; ETDE: 1976-09-28

**BT1** penetrators  
**NTI** subterranean penetrators  
*RT* projectiles

**EARTH PLANET**

1999-04-28

*SF* world  
**BT1** planets  
**NTI** northern hemisphere  
**NTI** southern hemisphere  
*RT* continental crust  
*RT* earth atmosphere  
*RT* earth core  
*RT* earth crust  
*RT* earth mantle  
*RT* geography  
*RT* geology  
*RT* geophysics  
*RT* oceanic crust  
*RT* oceanography  
*RT* topography

**earthing**

INIS: 2000-04-12; ETDE: 1984-02-10

USE electric grounds

**earthing (electric grounds)**

INIS: 1984-02-22; ETDE: 2002-06-13

USE electric grounds

**EARTHMOVING EQUIPMENT**

INIS: 1983-06-30; ETDE: 1977-03-04

*UF* excavators  
**\*BT1** materials handling equipment  
**NTI** bucket wheel excavators  
**NTI** draglines  
*RT* boreholes  
*RT* excavation  
*RT* mining equipment  
*RT* vehicles

**earthquake foci**

INIS: 2000-04-12; ETDE: 1979-04-11

*Those points within the earth which are the center of earthquakes and the origins of their elastic waves.*

(Prior to February 1997 this was a valid ETDE descriptor.)

USE earthquakes  
 USE origin

**earthquake magnitude**

INIS: 2000-04-12; ETDE: 1978-06-14

*A measure of the strength of an earthquake or the strain energy released by it, as determined by seismographic observations.*

(Prior to March 1996 this was a valid ETDE descriptor.)

USE earthquakes

**EARTHQUAKES**

(From June 1978 until March 1996

EARTHQUAKE MAGNITUDE was a valid ETDE descriptor.)

*UF* benioff zone  
*UF* earthquake foci  
*UF* earthquake magnitude  
**BT1** seismic events  
**NTI** microearthquakes  
*RT* aftershocks  
*RT* epicenters  
*RT* exceptional natural disaster  
*RT* foreshocks  
*RT* geodetic surveys  
*RT* geologic faults  
*RT* ground motion  
*RT* hypocenters  
*RT* landslides  
*RT* precursor  
*RT* rayleigh waves  
*RT* seismic effects  
*RT* seismic isolation  
*RT* seismic p waves  
*RT* seismic s waves  
*RT* seismic surface waves  
*RT* seismic waves  
*RT* seismicity  
*RT* seismographs  
*RT* seismology  
*RT* shock waves  
*RT* soil-structure interactions  
*RT* tsunamis

**earthworms**

INIS: 2000-04-12; ETDE: 1976-12-15

USE annelids

**east china sea**

INIS: 1992-01-16; ETDE: 1981-03-16

USE china sea

**east coast**

INIS: 2000-04-12; ETDE: 1979-12-10

(Prior to December 1991 this was a valid ETDE descriptor.)

USE us east coast

**east facility**

INIS: 2000-04-12; ETDE: 1981-08-21

*Primary systems test and evaluation facility at Savannah River Plant for DOE's residual energy applications program (REAP) for R and D on heat recovery and conversion equipment.*

(Prior to February 1995, this was a valid ETDE descriptor.)

SEE savannah river plant

**EAST MESA GEOTHERMAL FIELD**

INIS: 1992-06-04; ETDE: 1977-03-04

**BT1** geothermal fields  
*RT* imperial valley

**east pakistan**

INIS: 2000-04-12; ETDE: 1976-05-17

USE bangladesh

**east tokamak**

2006-07-25

USE ht-7u tokamak

**EAST-WEST ASYMMETRY***For global aspects only.*

**BT1** asymmetry  
*RT* cosmic radiation  
*RT* geographical variations

**EASTERN EUROPE**

INIS: 1997-11-11; ETDE: 1993-01-27

**BT1** europe  
**NTI** albania  
**NTI** belarus  
**NTI** bosnia and herzegovina  
**NTI** bulgaria  
**NTI** croatia  
**NTI** czech republic  
**NTI** estonia  
**NTI** hungary  
**NTI** latvia  
**NTI** lithuania  
**NTI** moldova  
**NTI** poland  
**NTI** romania  
**NTI** russian federation  
**NT2** dubna  
**NT2** kamchatka  
**NT2** kurile islands  
**NT2** lovozero  
**NT2** novaya zemlya  
**NT2** siberia  
**NTI** serbia and montenegro  
**NTI** slovakia  
**NTI** slovenia  
**NTI** the former yugoslav republic of macedonia  
**NTI** ukraine  
**NT2** crimea

**easton power reactor**

USE fitzpatrick reactor

**EBASCO STANDARD PLANT**

INIS: 1978-11-24; ETDE: 1978-08-07

*Ebasco Services reference PWR nuclear power plant.***\*BT1** nuclear power plants**ebd**

INIS: 2000-04-12; ETDE: 1980-02-13

USE energy beam deposition

**ebd films**

INIS: 2000-04-12; ETDE: 1980-02-11

*Energy beam deposition films.*

(Prior to February 1997 ENERGY BEAM DEPOSITION FILMS was a valid ETDE descriptor.)

USE energy beam deposition  
 USE thin films

**ebfa**

INIS: 1981-02-27; ETDE: 1979-07-24

USE electron beam fusion accelerator

**ebic**

INIS: 2000-04-12; ETDE: 1983-03-23

USE scanning electron microscopy

**ebis**

INIS: 2000-04-12; ETDE: 1976-05-17

USE electron beam ion sources

**EBONITE****BT1** vulcanized elastomers**EBOR REACTOR***INEEL, Idaho Falls, Idaho, USA. Never operational.**UF* experimental beryllium oxide reactor

**\*BT1** beryllium moderated reactors  
**\*BT1** enriched uranium reactors  
**\*BT1** helium cooled reactors

- \*BT1 power reactors
- \*BT1 research reactors
- \*BT1 solid homogeneous reactors
- \*BT1 test reactors
- \*BT1 thermal reactors

**EBR-1 REACTOR**

*ANL/INEEL, Idaho Falls, Idaho, USA.  
Decommissioned in 1964.*

- UF experimental breeder reactor-1*
- \*BT1 experimental reactors
- \*BT1 lmfr type reactors
- \*BT1 nak cooled reactors
- \*BT1 plutonium reactors
- \*BT1 potassium cooled reactors
- \*BT1 power reactors
- \*BT1 research reactors
- \*BT1 sodium cooled reactors
- \*BT1 test reactors
- RT natural uranium reactors*

**EBR-2 REACTOR**

*ANL/INEEL, Idaho Falls, Idaho, USA. Shut down in 1994.*

- UF experimental breeder reactor-2*
- \*BT1 experimental reactors
- \*BT1 lmfr type reactors
- \*BT1 power reactors
- \*BT1 sodium cooled reactors
- RT enriched uranium reactors*
- RT plutonium reactors*

**EBULLATED BED**

*INIS: 2000-04-12; ETDE: 1978-02-14  
Gas-liquid-solid fluidization.*

- RT fluidized beds*
- RT packed beds*

**EBWR REACTOR**

*ANL, Argonne, Illinois, USA. Shut down in 1967.*

- UF experimental boiling water reactor*
- \*BT1 bwr type reactors
- \*BT1 experimental reactors

**ECAT SCANNING**

*INIS: 1980-04-02; ETDE: 1979-05-09  
Emission Computer Axial Tomography scanning.*

- UF emission computer axial tomography scanning*
- \*BT1 emission computed tomography
- \*BT1 photon emission scanning
- RT image processing*
- RT radioisotope scanning*
- RT radiopharmaceuticals*

**eccles-jordan circuits**

- USE flip-flop circuits

**ECCS**

- UF emergency core cooling system*
- \*BT1 reactor protection systems
- NTI** core flooding systems
- NTI** core spray systems
- NTI** high pressure coolant injection
- NTI** low pressure coolant injection
- RT depressurization systems*
- RT reactor safety experiments*
- RT safety injection*

**ECEL REACTOR**

*Atoms International Div., Rockwell International, Canoga Park, California, USA.*

- \*BT1 fast reactors
- \*BT1 zero power reactors

**echelle gratings**

*INIS: 1984-01-18; ETDE: 2002-06-13  
USE diffraction gratings*

**echelon gratings**

*INIS: 1984-01-18; ETDE: 2002-06-13  
USE diffraction gratings*

**ECHINODERMS**

- \*BT1 benthos
- \*BT1 invertebrates
- NTI** sea urchins
- RT exoskeleton*

**echography**

*INIS: 1984-04-04; ETDE: 1984-05-10  
Method to detect inhomogenities in the human body by means of reflected ultrasonic waves.  
USE ultrasonography*

**ECLIPSE**

- UF lunar occultation*
- UF occultation*
- UF solar occultation*
- RT astronomy*

**ECN**

*INIS: 1977-02-08; ETDE: 1977-04-13  
Energieonderzoek Centrum Nederland; prior to 1 August 1976 known as Reactor Centrum Nederland, and documents written before that date should be indexed to RCN.*

- UF energieonderzoek centrum nederland*
- \*BT1 netherlands organizations
- NTI** rcn

**ECO REACTOR**

- UF experience critique orgel*
- \*BT1 heavy water moderated reactors
- \*BT1 natural uranium reactors
- \*BT1 organic cooled reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 test reactors

**ecological communities**

- USE ecosystems

**ECOLOGICAL CONCENTRATION**

*INIS: 1976-07-16; ETDE: 1975-11-11  
Concentration of a substance in organisms or the environment.*

- UF concentration processes (ecological)*
- UF environmental concentration*
- UF transfer factors (biological)*
- SF concentration*
- NTI** radioecological concentration
- RT carbon cycle*
- RT concentration ratio*
- RT environmental transport*
- RT mineral cycling*
- RT nitrogen cycle*
- RT sulfur cycle*

**ECOLOGICAL SUCCESSION**

*INIS: 1986-07-09; ETDE: 1981-07-06  
Orderly and progressive change in animal and/or plant communities.*

- RT competition*
- RT ecology*
- RT population dynamics*
- RT species diversity*

**ECOLOGY**

- NTI** baseline ecology
- NTI** radioecology
- RT animals*
- RT biological adaptation*
- RT biological extinction*
- RT ecological succession*
- RT ecosystems*
- RT home range*
- RT predator-prey interactions*
- RT regional analysis*
- RT species diversity*

- RT symbiosis*

**ECONOMETRICS**

*The application of mathematical methods to the study of economic data and problems.*

- BT1** economics
- RT dynamic programming*
- RT economic analysis*
- RT economic elasticity*
- RT linear programming*
- RT nonlinear programming*
- RT optimization*

**ECONOMIC ANALYSIS**

*INIS: 1999-06-29; ETDE: 1978-04-06*

- BT1** economics
- NTI** cost benefit analysis
- NTI** input-output analysis
- RT capitalized cost*
- RT econometrics*
- RT economy*
- RT energy analysis*
- RT operating cost*
- RT per capita values*
- RT regional analysis*
- RT regression analysis*

**ECONOMIC DEVELOPMENT**

*1997-06-19*

- UF economic growth*
- UF growth (economic)*
- RT centrally planned economies*
- RT commercial sector*
- RT commercialization*
- RT developed countries*
- RT economic policy*
- RT economics*
- RT gross domestic product*
- RT gross national product*
- RT industry*
- RT inflation*
- RT nuclear trade*
- RT resource development*
- RT standard of living*
- RT sustainable development*
- RT us economic recovery tax act*

**ECONOMIC ELASTICITY**

*INIS: 2000-05-02; ETDE: 1975-11-11*

- UF elasticity (economic)*
- RT econometrics*
- RT economics*
- RT energy expenses*
- RT energy substitution*
- RT prices*

**economic growth**

*INIS: 1993-02-01; ETDE: 1977-10-20  
(Prior to February 1992, this was a valid ETDE descriptor.)*

- USE economic development

**ECONOMIC IMPACT**

*INIS: 1991-10-11; ETDE: 1977-01-31*

- RT economics*
- RT socio-economic factors*
- RT technology impacts*

**ECONOMIC POLICY**

*1999-06-29*

- BT1** government policies
- RT allocations*
- RT centrally planned economies*
- RT deregulation*
- RT economic development*
- RT economics*
- RT forecasting*
- RT foreign policy*
- RT nationalization*
- RT nuclear trade*
- RT pricing regulations*





RT technology transfer

**EDUCATIONAL FACILITIES**

INIS: 1983-06-30; ETDE: 1979-05-31

UF colleges  
 UF facilities (educational)  
 UF museums  
 UF school facilities  
 UF school plant  
 UF schools  
 UF teaching facilities  
 UF training facilities  
 UF universities  
 NT1 school buildings  
 RT education  
 RT educational tools  
 RT exhibits  
 RT information centers  
 RT libraries

**EDUCATIONAL TOOLS**

INIS: 1992-02-05; ETDE: 1977-06-21

Activities or materials such as movies, slides, or computer media intended to assist in promoting learning or understanding.

UF curriculum guides  
 UF tools (educational)  
 RT education  
 RT educational facilities  
 RT exhibits  
 RT training

**edwin i. hatch-1 reactor**

USE hatch-1 reactor

**edwin i. hatch-2 reactor**

USE hatch-2 reactor

**EEL**

\*BT1 fishes

**ees**

INIS: 2000-04-12; ETDE: 1977-04-12

USE us energy extension service

**EEV RANGE**

INIS: 1977-01-26; ETDE: 1976-08-24

From 10 exp 18 to 10 exp 21 ev.

BT1 energy range

**EFD WIND GENERATORS**

INIS: 2000-04-12; ETDE: 1977-11-09

UF electrofluid dynamic wind generator  
 BT1 direct energy converters  
 \*BT1 wind power plants

**EFDR-50 REACTOR**

INIS: 1977-04-07; ETDE: 1977-06-03

Entwickelter Fortschrittlicher Druckwasser Reactor for ship propulsion with 50000 SHP.

UF entwickelter fortschrittlicher druckwasser reaktor

\*BT1 pwr type reactors  
 \*BT1 ship propulsion reactors

**EFFECTIVE CHARGE**

Observed charge of nucleus or atom, less than  $Z_e$  because of screening effects.

RT nuclear screening

**effective energy (internal irradiation)**

USE internal irradiation  
 USE spatial dose distributions

**effective half-life**

USE biological half-life

**EFFECTIVE MASS**

BT1 mass

**EFFECTIVE RANGE THEORY**

RT efmov effect  
 RT interactions

RT nucleons

RT scattering

**EFFICIENCY**

UF automobile efficiency standards  
 UF decontamination factor  
 UF dose reduction factor  
 UF dose relative factor  
 UF drf  
 NT1 energy efficiency  
 NT1 heat rate  
 NT1 mechanical efficiency  
 NT1 quantum efficiency  
 NT1 thermal efficiency  
 RT coefficient of performance  
 RT comparative evaluations  
 RT energy conservation  
 RT energy yield  
 RT feasibility studies  
 RT net energy  
 RT performance  
 RT productivity  
 RT spectral response  
 RT uses

**effluents (chemical)**

INIS: 1982-08-27; ETDE: 1975-12-16

USE chemical effluents

**effluents (gaseous)**

INIS: 1975-10-09; ETDE: 1975-12-16

USE gaseous wastes

**effluents (liquid)**

INIS: 1975-10-09; ETDE: 1975-12-16

USE liquid wastes

**effluents (radioactive)**

INIS: 1975-10-09; ETDE: 1975-12-16

USE radioactive effluents

**effluents (thermal)**

USE thermal effluents

**effusion**

INIS: 2000-04-12; ETDE: 1981-06-13

USE diffusion

**EEG METHOD**

INIS: 2000-04-12; ETDE: 1979-08-07

Edge-defined, film-fed growth method for crystal growth.

BT1 crystal growth methods  
 RT cast method  
 RT crystal growth  
 RT inverted stepanov method

**EFIMOV EFFECT**

INIS: 1985-11-19; ETDE: 1985-12-13

The conjectured possibility of an anomalous behaviour of a resonant interacting three-body system near the three-body breakup threshold.

RT bound state  
 RT effective range theory  
 RT three-body problem

**efr reactor**

INIS: 1977-03-01; ETDE: 1977-04-12

USE joyo reactor

**EGCR REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut down.

UF experimental gas cooled reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 graphite moderated reactors  
 \*BT1 helium cooled reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**EGGS**

UF yolk  
 RT birds  
 RT food  
 RT hatching  
 RT ichthyoplankton  
 RT ova

**egr systems**

INIS: 2000-04-12; ETDE: 1976-01-07

USE exhaust recirculation systems

**EGTA**

INIS: 1977-09-15; ETDE: 1977-11-10

Ethylene glycol-bis(2-aminoethylether) tetraacetic acid.

\*BT1 carboxylic acids  
 BT1 chelating agents  
 \*BT1 glycols

**EGYPTIAN ARAB REPUBLIC**

UF arab republic of egypt

UF uar

UF united arab republic

BT1 africa

BT1 arab countries

BT1 developing countries

BT1 middle east

RT nile river

RT oapec

RT red sea

RT sues canal

**EGYPTIAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**egyptian testing research reactor-1**

2005-05-18

USE etrr-1 reactor

**egyptian testing research reactor-2**

2005-05-18

USE etrr-2 reactor

**eh (redox potential)**

INIS: 2000-04-12; ETDE: 1982-12-01

USE redox potential

**ehd channels**

INIS: 2000-04-12; ETDE: 1979-03-28

(Prior to February 1995, this was a valid ETDE descriptor.)

SEE ehd generators

**EHD GENERATORS**

UF electrohydrodynamic generators

SF ehd channels

SF electrohydrodynamic channels

BT1 direct energy converters

RT electrohydrodynamics

**ehf radiation**

USE microwave radiation

**EHRlich ASCITES TUMOR**

\*BT1 experimental neoplasms

RT ascites

RT ascites tumor cells

**EHV AC SYSTEMS**

INIS: 1993-01-18; ETDE: 1976-05-17

345-765 kV.

UF extrahigh voltage ac systems

UF extrahigh voltage alternating current systems

\*BT1 ac systems

**EHV DC SYSTEMS**

INIS: 1992-03-09; ETDE: 1976-05-17

345-765 kV.

UF extrahigh voltage dc systems

*UF* extrahigh voltage direct current systems  
 \*BT1 dc systems

**EICOSANOIC ACID**

*UF* arachidic acid  
 \*BT1 monocarboxylic acids

**EIGENFREQUENCY**

*UF* frequency (*eigen*)  
*RT* eigenvalues  
*RT* hydrodynamic mass effect

**EIGENFUNCTIONS**

BT1 functions  
*RT* expectation value  
*RT* quantum mechanics  
*RT* Sturm-Liouville equation  
*RT* wave functions

**EIGENSTATES**

*UF* coherent states  
*RT* energy levels  
*RT* quantum mechanics

**EIGENVALUES**

*RT* eigenfrequency  
*RT* expectation value  
*RT* mathematical operators  
*RT* multiplicity  
*RT* quantum mechanics  
*RT* secular equation

**EIGENVECTORS**

*RT* mathematical operators  
*RT* mathematics  
*RT* vectors

**eightfold way**

USE octet model

**eiip**

*INIS*: 2000-04-12; *ETDE*: 1979-09-26  
*Energy Integrated Industrial Parks*.  
 USE energy parks

**EIKONAL APPROXIMATION**

\*BT1 approximations  
*RT* scattering amplitudes  
*RT* straight-line path approximation

**eindhoven argonaut reactor**

2000-04-12  
 USE athene reactor

**EINDHOVEN CYCLOTRON**

*INIS*: 1983-06-01; *ETDE*: 1983-03-24  
*Eindhoven AVF cyclotron*.  
 \*BT1 isochronous cyclotrons

**EINSTEIN COEFFICIENTS**

*RT* energy-level transitions  
*RT* oscillator strengths  
*RT* stimulated emission

**einstein-de sitter model**

USE cosmological models

**EINSTEIN EFFECT**

*INIS*: 1975-10-23; *ETDE*: 1975-12-16  
*A shift towards longer wavelengths of spectral lines emitted by atoms in strong gravitational fields*.

*UF* einstein shift  
*RT* general relativity theory  
*RT* gravitation  
*RT* gravitational fields  
*RT* red shift  
*RT* spectral shift

**EINSTEIN FIELD EQUATIONS**

\*BT1 field equations  
*RT* cosmological constant

*RT* general relativity theory  
*RT* gravitational fields  
*RT* Kerr field

**einstein gravitation theory**

USE general relativity theory

**EINSTEIN-MAXWELL EQUATIONS**

*UF* electrovac equations  
 \*BT1 field equations  
*RT* electromagnetic fields  
*RT* general relativity theory  
*RT* gravitational fields  
*RT* gravitational waves

**EINSTEIN-SCHROEDINGER THEORY**

\*BT1 unified-field theories

**einstein shift**

*INIS*: 1975-10-23; *ETDE*: 1975-12-16  
 USE einstein effect

**EINSTEINIUM**

\*BT1 actinides  
 \*BT1 transplutonium elements

**EINSTEINIUM 243**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 einsteinium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**EINSTEINIUM 244**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 einsteinium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**EINSTEINIUM 245**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 einsteinium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**EINSTEINIUM 246**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 einsteinium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**EINSTEINIUM 247**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 einsteinium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**EINSTEINIUM 248**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 einsteinium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**EINSTEINIUM 249**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 einsteinium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 odd-even nuclei

**EINSTEINIUM 250**

\*BT1 actinide nuclei  
 \*BT1 einsteinium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 odd-odd nuclei

**EINSTEINIUM 251**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 einsteinium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 odd-even nuclei

**EINSTEINIUM 252**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 einsteinium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 years living radioisotopes

**EINSTEINIUM 253**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 einsteinium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 spontaneous fission radioisotopes

**EINSTEINIUM 253 TARGET**

*INIS*: 1978-01-13; *ETDE*: 1977-08-24  
 BT1 targets

**EINSTEINIUM 254**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 einsteinium isotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 spontaneous fission radioisotopes

**EINSTEINIUM 254 TARGET**

*ETDE*: 1976-07-09  
 BT1 targets

**EINSTEINIUM 255**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 einsteinium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 spontaneous fission radioisotopes

**EINSTEINIUM 255 TARGET**

*INIS*: 1978-09-28; *ETDE*: 1978-07-05  
 BT1 targets

**EINSTEINIUM 256**

*INIS*: 1977-01-25; *ETDE*: 1976-09-14  
 \*BT1 actinide nuclei  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 einsteinium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**einsteinium additions**

2000-04-12  
 (Prior to August 1993 this was a valid ETDE descriptor.)  
 USE alloys

**EINSTEINIUM ALLOYS**

2000-04-12  
 \*BT1 actinide alloys

**EINSTEINIUM BROMIDES**

1976-01-27

- \*BT1 bromides
- \*BT1 einsteinium compounds

**EINSTEINIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 einsteinium compounds

**EINSTEINIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes

**EINSTEINIUM COMPOUNDS**

1996-11-13

- UF einsteinium fluorides
- UF einsteinium iodides
- BT1 actinide compounds
- \*BT1 transplutonium compounds
- NT1 einsteinium bromides
- NT1 einsteinium chlorides
- NT1 einsteinium nitrates
- NT1 einsteinium oxides

**einsteinium fluorides**

INIS: 1997-01-28; ETDE: 1981-01-09

(Until October 1996 this was a valid descriptor.)

- USE einsteinium compounds
- USE fluorides

**einsteinium iodides**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE einsteinium compounds
- USE iodides

**EINSTEINIUM IONS**

- \*BT1 ions

**EINSTEINIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 einsteinium 243
- NT1 einsteinium 244
- NT1 einsteinium 245
- NT1 einsteinium 246
- NT1 einsteinium 247
- NT1 einsteinium 248
- NT1 einsteinium 249
- NT1 einsteinium 250
- NT1 einsteinium 251
- NT1 einsteinium 252
- NT1 einsteinium 253
- NT1 einsteinium 254
- NT1 einsteinium 255
- NT1 einsteinium 256

**EINSTEINIUM NITRATES**

- \*BT1 einsteinium compounds
- \*BT1 nitrates

**EINSTEINIUM OXIDES**

- \*BT1 einsteinium compounds
- \*BT1 oxides

**eka-astatine**

INIS: 2000-04-12; ETDE: 1978-04-06

USE element 117

**eka-bismuth**

INIS: 2000-04-12; ETDE: 1978-04-06

USE element 115

**eka-gold**

INIS: 2000-04-12; ETDE: 1978-04-06

USE roentgenium

**eka-hafnium**

INIS: 2000-04-12; ETDE: 1978-04-06

USE rutherfordium

**eka-iridium**

INIS: 2000-04-12; ETDE: 1978-04-06

USE meitnerium

**eka-lead**

INIS: 2000-04-12; ETDE: 1978-04-06

USE element 114

**eka-mercury**

INIS: 2000-04-12; ETDE: 1978-04-06

USE element 112

**eka-osmium**

INIS: 2000-04-12; ETDE: 1978-04-06

USE hassium

**eka-platinum**

INIS: 2000-04-12; ETDE: 1978-04-06

USE darmstadtium

**eka-polonium**

INIS: 2000-04-12; ETDE: 1978-04-06

USE element 116

**eka-radon**

INIS: 2000-04-12; ETDE: 1978-04-06

USE element 118

**eka-rhenium**

INIS: 2000-04-12; ETDE: 1978-04-06

USE bohrium

**eka-tantalum**

INIS: 2000-04-12; ETDE: 1978-04-06

USE dubnium

**eka-thallium**

INIS: 2000-04-12; ETDE: 1978-04-06

USE element 113

**eka-tungsten**

INIS: 2000-04-12; ETDE: 1978-04-06

USE seaborgium

**EKANITE**

2000-04-12

- \*BT1 silicate minerals
- \*BT1 thorium minerals
- \*BT1 uranium minerals
- RT thorium silicates
- RT uranium silicates

**eku**

USE erevan synchrotron

**EL-1 REACTOR**

UF zoe reactor

- \*BT1 experimental reactors
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 isotope production reactors
- \*BT1 natural uranium reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors

**EL-2 REACTOR**

- \*BT1 carbon dioxide cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 isotope production reactors
- \*BT1 natural uranium reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors

**EL-3 REACTOR**

Saclay, France.

- \*BT1 enriched uranium reactors
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 isotope production reactors
- \*BT1 materials testing reactors

\*BT1 research reactors

\*BT1 tank type reactors

**EL-4 REACTOR**

Brennilis, Monts Arrel, France.

- \*BT1 carbon dioxide cooled reactors
- \*BT1 enriched uranium reactors
- \*BT1 hwgr type reactors
- \*BT1 pressure tube reactors
- \*BT1 thermal reactors

**el nino**

INIS: 1992-06-12; ETDE: 1991-06-21

USE southern oscillation

**EL SALVADOR**

- \*BT1 central america
- BT1 developing countries
- RT ahuachapan geothermal field

**EL TATIO GEOTHERMAL FIELD**

2000-04-12

- BT1 geothermal fields
- RT chile

**elastic properties**

USE elasticity

**ELASTIC SCATTERING**

- BT1 scattering
- NT1 bhhabha scattering
- NT1 compton effect
- NT1 coulomb scattering
- NT1 moeller scattering
- NT1 mott scattering
- NT1 potential scattering
- NT1 rutherford scattering
- NT1 wigner scattering
- RT blair model
- RT coherent scattering
- RT diffuse scattering
- RT quasi-elastic scattering
- RT ramsauer effect
- RT rosenbluth formula
- RT skyrme potential
- RT zero-range approximation

**ELASTICITY**

- UF elastic properties
- BT1 mechanical properties
- NT1 photoelasticity
- NT1 thermoelasticity
- RT deformation
- RT hooke law
- RT poisson ratio
- RT shape memory effect
- RT strains
- RT young modulus

**elasticity (economic)**

INIS: 2000-05-02; ETDE: 1980-08-25

USE economic elasticity

**ELASTOMERS**

1996-01-24

- BT1 polymers
- NT1 ethylene propylene diene polymers
- NT1 neoprene
- NT1 polyisoprene
- NT1 rubbers
- NT2 buna
- NT2 latex
- NT2 natural rubber
- NT2 silastic
- NT2 viton
- RT vulcanized elastomers

**ELDERLY PEOPLE**

INIS: 1985-07-18; ETDE: 1978-02-14

- UF aged
- \*BT1 aged adults
- \*BT1 man

\*BT1 minority groups  
 RT handicapped people  
 RT life cycle  
 RT sociology

**ELDOR**

UF *electron-electron double resonance*  
 \*BT1 magnetic resonance  
 RT double resonance methods

**ELECTRETS**

\*BT1 dielectric materials  
 RT polarization

**ELECTRIC APPLIANCES**

INIS: 1993-01-22; ETDE: 1977-06-21

UF *stoves (electric)*  
 SF *food disposers*

\*BT1 appliances  
 \*BT1 electrical equipment  
 NT1 microwave ovens  
 RT air conditioners  
 RT clothes dryers  
 RT clothes washers  
 RT dehumidifiers  
 RT dishwashers  
 RT freezers  
 RT humidifiers  
 RT ovens  
 RT refrigerators

**ELECTRIC ARCS**

\*BT1 electric currents  
 BT1 electric discharges  
 RT electrical faults  
 RT flashover  
 RT plasma

**ELECTRIC BATTERIES**

*Devices for production and/or storage of electrical energy from chemical reactions; excludes FUEL CELLS and RADIOISOTOPE BATTERIES.*

UF *accumulators (electric batteries)*  
 UF *batteries (electric)*  
 UF *secondary batteries*  
 UF *storage batteries*  
 UF *voltaic cells*  
 BT1 electrochemical cells  
 \*BT1 energy storage systems  
 NT1 lead-acid batteries  
 NT1 metal-gas batteries  
 NT2 aluminium-air batteries  
 NT2 cadmium-air batteries  
 NT2 iron-air batteries  
 NT2 lithium-chlorine batteries  
 NT2 lithium-water-air batteries  
 NT2 nickel-hydrogen batteries  
 NT2 silver-hydrogen batteries  
 NT2 zinc-air batteries  
 NT2 zinc-chlorine batteries  
 NT1 metal-metal batteries  
 NT1 metal-metal oxide batteries  
 NT2 iron-nickel batteries  
 NT2 nickel-cadmium batteries  
 NT2 nickel-zinc batteries  
 NT2 silver-cadmium batteries  
 NT2 silver-zinc batteries  
 NT2 zinc-manganese batteries  
 NT1 metal-nonmetal batteries  
 NT2 lithium-copper chloride batteries  
 NT2 lithium-sulfur batteries  
 NT2 sodium-sulfur batteries  
 NT2 zinc-bromine batteries  
 NT1 primary-secondary hybrid batteries  
 NT1 thermal batteries  
 RT battery charge state  
 RT battery paste  
 RT battery separators  
 RT cardiac pacemakers  
 RT electric-powered vehicles

RT electrical equipment  
 RT electrolytic cells  
 RT electromotive force  
 RT energy storage  
 RT hybrid electric-powered vehicles  
 RT off-peak energy storage  
 RT primary batteries  
 RT solid electrolytes

**ELECTRIC BORN MODEL**

\*BT1 ope model  
 RT electroproduction  
 RT photoproduction

**ELECTRIC BRIDGES**

UF *bridges (electric)*  
 \*BT1 electrical equipment  
 RT electric measuring instruments

**ELECTRIC CABLES**

1997-06-17

UF *cables (electric)*  
 BT1 cables  
 \*BT1 conductor devices  
 NT1 coaxial cables  
 NT1 cryogenic cables  
 NT1 gas-insulated cables  
 NT1 oil-filled cables  
 NT1 superconducting cables  
 RT power transmission lines

**ELECTRIC CHARGES**

1996-07-08

(Prior to August 1996 POSITIVE EXCESS was a valid ETDE descriptor.)

UF *electric monopoles*  
 UF *pyroelectricity*  
 SF *positive excess*  
 NT1 point charge  
 RT battery charge state  
 RT c invariance  
 RT capacitance  
 RT charge carriers  
 RT charge conservation  
 RT charge density  
 RT charge distribution  
 RT charge states  
 RT charge transport  
 RT electrostatic charge eliminators  
 RT electrostatics  
 RT minus-plus ratio  
 RT polar compounds  
 RT pyroelectric effect  
 RT space charge

**ELECTRIC COILS**

UF *coils (electric)*  
 \*BT1 electrical equipment  
 NT1 magnet coils  
 NT2 pulsed magnet coils  
 NT1 rogowski coil  
 NT1 solenoids  
 NT1 superconducting coils  
 RT electromagnets  
 RT magnetic circuits  
 RT transformers  
 RT winding machines

**electric condensers**

USE capacitors

**ELECTRIC CONDUCTIVITY**

UF *conductivity (electric)*  
 UF *current-voltage curves*  
 UF *electric resistivity*  
 UF *electrical conductivity*  
 UF *electrical resistance*  
 UF *electrical resistivity*  
 UF *i-v characteristic*  
 UF *ohmic resistance*  
 UF *resistivity (electric)*

UF *va characteristic*  
 UF *volt-ampere characteristic*

\*BT1 electrical properties  
 NT1 ionic conductivity  
 NT1 magnetoresistance  
 NT1 photoconductivity  
 NT1 superconductivity  
 RT carrier mobility  
 RT electric conductors  
 RT electric impedance  
 RT electrical testing  
 RT electrophysiology  
 RT grueneisen formula  
 RT inductance  
 RT matthiessen rule  
 RT ohm law  
 RT umklapp processes  
 RT wiedemann-franz law

**ELECTRIC CONDUCTORS**

UF *conductors (electric)*  
 RT conductor devices  
 RT electric conductivity  
 RT electron mobility  
 RT hall effect  
 RT photoconductors  
 RT semiconductor materials  
 RT skin effect  
 RT superconductors

**electric contactors**

USE switches

**ELECTRIC CONTACTS**

UF *contacts (electric)*  
 UF *point contacts*  
 SF *junctions*  
 \*BT1 electrical equipment  
 RT switches

**ELECTRIC CONTROLLERS**

\*BT1 control equipment  
 RT surges  
 RT voltage regulators

**electric cooperatives**

INIS: 2000-04-12; ETDE: 1993-07-09

USE cooperatives  
 USE electric utilities

**ELECTRIC CURRENTS**

UF *currents (electric)*  
 UF *foucault current*  
 UF *plasma currents*  
 BT1 currents  
 NT1 alternating current  
 NT1 bootstrap current  
 NT1 critical current  
 NT1 direct current  
 NT1 eddy currents  
 NT1 electric arcs  
 NT1 electrojets  
 NT1 faraday current  
 NT1 leakage current  
 NT1 overcurrent  
 NT1 photocurrents  
 NT1 ring currents  
 NT1 threshold current  
 RT current density  
 RT current limiters  
 RT electricity  
 RT electrocarbonization  
 RT electrocardiograms  
 RT excitation systems  
 RT flashover  
 RT kruskal limit  
 RT non-inductive current drive  
 RT reversed-field pinch devices  
 RT skin effect  
 RT surges

**ELECTRIC DIPOLE MOMENTS**

- BT1 dipole moments
- BT1 electric moments
- RT nuclear electric moments
- RT polarizability

**electric dipole transitions**

INIS: 1978-02-23; ETDE: 1978-04-28  
USE e1-transitions

**ELECTRIC DIPOLES**

- \*BT1 dipoles
- RT electric fields

**electric discharge pumping**

INIS: 1982-07-22; ETDE: 1977-05-07  
USE electrical pumping

**ELECTRIC DISCHARGES**

1996-04-16

- UF discharges (electric)
- NT1 corona discharges
- NT1 electric arcs
- NT1 electric sparks
- NT1 flashover
- NT1 glow discharges
- NT1 high-frequency discharges
- NT1 lightning
  - NT2 ball lightning
- NT1 penning discharges
- NT1 townsend discharge
- RT afterglow
- RT breakdown
- RT discharge quenching
- RT paschen law
- RT positive column
- RT saha equation
- RT spark gaps
- RT striations
- RT switches

**ELECTRIC FIELDS**

- UF fields (electric)
- NT1 coulomb field
- RT casimir effect
- RT crossed fields
- RT electric dipoles
- RT electromagnetic fields
- RT excitation systems
- RT inhomogeneous fields
- RT nuclear quadrupole resonance
- RT parametric instabilities
- RT stark effect

**ELECTRIC FILTERS**

- UF filters (electric)
- BT1 filters

**ELECTRIC FURNACES**

- BT1 furnaces
- NT1 arc furnaces
- NT1 ceramic melters
- NT1 induction furnaces

**ELECTRIC FUSES**

- UF current limiting fuses
- UF fuses (electric)
- \*BT1 conductor devices
- BT1 equipment protection devices
- RT circuit breakers
- RT switches

**ELECTRIC GENERATORS**

Excludes the concept DIRECT ENERGY CONVERTERS.

- UF generators (electric)
- UF wind generators
- \*BT1 electrical equipment
- NT1 alternators
- NT1 flux pumps
- NT1 homopolar generators

- NT1 induction generators
- NT1 rotating generators
- NT2 superconducting generators
- NT1 turbogenerators
- NT1 water current power generators
- RT armatures
- RT excitation systems

**ELECTRIC GROUNDS**

1982-06-09

- UF earth (electric grounds)
- UF earthing
- UF earthing (electric grounds)
- UF grounds
- UF grounds (electric)
- RT electrical faults
- RT electronic circuits

**ELECTRIC HEATING**

INIS: 1999-01-22; ETDE: 1977-04-12

(From April 1977 till March 1997 RESISTANCE HEATING was a valid ETDE descriptor.)

- UF resistance heating
- BT1 heating
- NT1 joule heating
  - NT2 current-drive heating
- NT1 radiant cable heating
- RT baseboard heating
- RT heat pumps
- RT space heating

**electric hexadecapole transitions**

INIS: 1978-02-23; ETDE: 1978-04-28  
USE e4-transitions

**ELECTRIC IMPEDANCE**

INIS: 1975-11-07; ETDE: 1975-12-16

- BT1 impedance
- RT capacitance
- RT electric conductivity

**ELECTRIC LOGGING**

INIS: 2000-06-27; ETDE: 1977-01-10

- BT1 well logging
- NT1 induced polarization logging
- NT1 induction logging
- NT1 resistivity logging
- NT1 sp logging
- RT electrical surveys

**ELECTRIC MEASURING****INSTRUMENTS**

- \*BT1 electrical equipment
- BT1 measuring instruments
- NT1 ammeters
- NT1 electrometers
- NT1 electroscopes
- NT1 galvanometers
- NT1 potentiometers
- NT1 power meters
- NT1 voltmeters
- RT electric bridges
- RT electronic equipment
- RT faraday cups

**ELECTRIC MOMENTS**

1996-07-18

(Prior to March 1997 GYROELECTRIC RATIO was a valid ETDE descriptor.)

- SF gyroelectric ratio
- NT1 electric dipole moments
- NT1 nuclear electric moments
- RT quadrupole moments

**electric monopole transitions**

INIS: 1978-02-23; ETDE: 1978-04-28  
USE e0-transitions

**electric monopoles**

- USE electric charges

**ELECTRIC MOTORS**

- SF stepper motors
- \*BT1 electrical equipment
- \*BT1 motors
- NT1 superconducting motors
- RT armatures

**electric octupole transitions**

INIS: 1978-02-23; ETDE: 1978-04-28  
USE e3-transitions

**ELECTRIC POTENTIAL**

- UF open-circuit voltage
- UF potential (electric)
- UF voltage
- NT1 plasma potential
- RT breakdown
- RT electrical transients
- RT electromotive force
- RT electrophysiology
- RT ionization potential
- RT overvoltage
- RT paschen law
- RT pyroelectric effect
- RT surges
- RT voltage drop

**ELECTRIC POWER**

1996-07-16

- BT1 power
- NT1 hydroelectric power
- NT1 off-peak power
- NT1 surplus power
- RT alaska power administration
- RT bonneville power administration
- RT combined cycles
- RT demand factors
- RT dispersed storage and generation
- RT electric power industry
- RT electric utilities
- RT electricity
- RT epr
- RT load management
- RT marginal-cost pricing
- RT master metering
- RT nuclear power
- RT on-site power generation
- RT peak-load pricing
- RT power demand
- RT power generation
- RT power losses
- RT power meters
- RT power plants
- RT power potential
- RT power supplies
- RT power transmission
- RT power transmission lines
- RT public utilities
- RT southeastern power administration
- RT southwestern power administration
- RT spacecraft power supplies
- RT time-of-use pricing
- RT var control systems
- RT western area power administration

**ELECTRIC POWER INDUSTRY**

INIS: 1999-06-30; ETDE: 1978-02-14

Only for general papers when descriptors such as ELECTRICPOWER, ELECTRIC UTILITIES, or POWER SYSTEMS will not suffice.

- BT1 industry
- RT electric power
- RT electric reliability councils
- RT electric utilities
- RT epr
- RT nuclear power
- RT power systems

**electric power research institute**

INIS: 1993-11-05; ETDE: 1977-01-10  
USE epi

**electric power substations**

INIS: 1992-10-06; ETDE: 1976-07-07  
USE power substations

**electric power systems**

INIS: 1982-12-07; ETDE: 1976-02-23  
USE power systems

**ELECTRIC-POWERED VEHICLES**

1992-04-09

UF trolleybuses  
BT1 vehicles  
NT1 hybrid electric-powered vehicles  
NT1 roadway-powered electric vehicles  
RT aaps  
RT electric batteries  
RT electric railways  
RT fuel cells  
RT regenerative braking

**ELECTRIC PROBES**

BT1 probes  
NT1 langmuir probe  
NT1 plasma eaters

**electric properties**

INIS: 1975-09-26; ETDE: 2002-06-13  
USE electrical properties

**electric pulses**

USE pulses

**electric quadrupole transitions**

INIS: 1978-02-23; ETDE: 1978-04-28  
USE e2-transitions

**ELECTRIC RAILWAYS**

INIS: 2000-04-12; ETDE: 1977-01-10  
BT1 railways  
RT electric-powered vehicles  
RT rapid transit systems  
RT trains

**ELECTRIC RELIABILITY COUNCILS**

INIS: 2000-04-12; ETDE: 1979-09-27  
UF national electric reliability councils  
UF regional electric reliability councils  
RT electric power industry  
RT electric utilities

**electric resistivity**

USE electric conductivity

**ELECTRIC RESONANCE**

BT1 resonance  
NT1 paraelectric resonance

**ELECTRIC SHOCK**

INIS: 1999-03-30; ETDE: 1979-07-24  
(Until March 1999 this concept was indexed by BIOLOGICAL SHOCK and ELECTRICITY.)  
UF shock (electric)  
RT biological shock

**ELECTRIC SPARKS**

UF sparks (electric)  
BT1 electric discharges  
RT breakdown  
RT electrostatics  
RT flashover  
RT spark drills  
RT spark gaps

**electric switches**

USE switches

**ELECTRIC UTILITIES**

INIS: 1979-02-21; ETDE: 1978-02-15  
Enterprises engaged in the generation, transmission, and distribution of electric power; may be investor-owned, cooperatively owned, or government-owned.

UF electric cooperatives  
SF utilities  
BT1 public utilities  
RT cooperatives  
RT dispersed storage and generation  
RT electric power  
RT electric power industry  
RT electric reliability councils  
RT load analysis  
RT master metering  
RT peak load  
RT power pooling  
RT surplus power  
RT us power plant and industrial fuel use act

**electrical breakdown**

INIS: 2000-04-12; ETDE: 1977-01-10  
USE electrical faults

**electrical conductivity**

USE electric conductivity

**ELECTRICAL ENGINEERING**

INIS: 1992-01-22; ETDE: 1978-06-14  
BT1 engineering

**ELECTRICAL EQUIPMENT**

BT1 equipment  
NT1 antennas  
NT2 radio telescopes  
NT2 rectennas  
NT1 armatures  
NT1 battery chargers  
NT2 solar battery chargers  
NT1 capacitors  
NT1 circuit breakers  
NT1 conductor devices  
NT2 connectors  
NT2 electric cables  
NT3 coaxial cables  
NT3 cryogenic cables  
NT3 gas-insulated cables  
NT3 oil-filled cables  
NT3 superconducting cables  
NT2 electric fuses  
NT1 current limiters  
NT1 dc to dc converters  
NT1 electric appliances  
NT2 microwave ovens  
NT1 electric bridges  
NT1 electric coils  
NT2 magnet coils  
NT3 pulsed magnet coils  
NT2 rogowski coil  
NT2 solenoids  
NT2 superconducting coils  
NT1 electric contacts  
NT1 electric generators  
NT2 alternators  
NT2 flux pumps  
NT2 homopolar generators  
NT2 induction generators  
NT2 rotating generators  
NT3 superconducting generators  
NT2 turbogenerators  
NT2 water current power generators  
NT1 electric measuring instruments  
NT2 ammeters  
NT2 electrometers  
NT2 electroscopes  
NT2 galvanometers  
NT2 potentiometers  
NT2 power meters

NT2 voltmeters  
NT1 electric motors  
NT2 superconducting motors  
NT1 electrical insulators  
NT1 electromagnets  
NT2 superconducting magnets  
NT1 inverters  
NT1 lightning arresters  
NT1 potheads  
NT1 rectifiers  
NT2 rectifier tubes  
NT3 ignitrons  
NT2 semiconductor rectifiers  
NT1 relays  
NT1 resistors  
NT2 photoresistors  
NT2 semiconductor resistors  
NT1 shunt reactors  
NT1 switches  
NT2 cryotrons  
NT2 plasma switches  
NT2 semiconductor switches  
NT1 transformers  
NT2 gas-insulated transformers  
RT electric batteries  
RT electron tubes  
RT electronic circuits  
RT electronic equipment  
RT excitation systems  
RT lighting systems  
RT miniaturization  
RT potting  
RT potting materials  
RT power supplies  
RT radar  
RT reactor components  
RT semiconductor devices  
RT sonar  
RT standby mode  
RT transducers  
RT waveguides

**ELECTRICAL FAULTS**

INIS: 1983-10-14; ETDE: 1977-01-10

UF electrical breakdown  
UF short circuits  
UF shorts (electrical)  
RT breakdown  
RT electric arcs  
RT electric grounds  
RT failures  
RT flashover

**ELECTRICAL INSULATION**

1982-11-29

(Prior to January 1983 this concept was indexed by DIELECTRIC MATERIALS.)  
UF insulation (electrical, by dielectric materials)  
UF insulation (electrical)  
RT dielectric materials  
RT electrical insulators  
RT organic insulators

**ELECTRICAL INSULATORS**

INIS: 1976-05-07; ETDE: 1976-02-23

UF insulators (electrical)  
\*BT1 electrical equipment  
RT dielectric materials  
RT electrical insulation  
RT insulating oils  
RT organic insulators

**ELECTRICAL PROPERTIES**

UF electric properties  
UF magnetoelectricity  
BT1 physical properties  
NT1 capacitance  
NT1 dielectric properties  
NT2 kerr effect

- NT2 permittivity
- NT1 electric conductivity
- NT2 ionic conductivity
- NT2 magnetoresistance
- NT2 photoconductivity
- NT2 superconductivity
- NT1 inductance
- NT1 polarizability
- NT1 thermoelectric properties
- RT electricity
- RT electro-optical effects
- RT magnetic properties

**ELECTRICAL PUMPING**

INIS: 1995-04-10; ETDE: 1977-05-07  
*Pumping achieved by allowing a suitable electric current to pass through the lasing medium.*

- UF electric discharge pumping
- UF pumping (electrical)
- BT1 pumping
- NT1 electron beam pumping
- RT lasers
- RT nuclear pumping
- RT optical pumping
- RT stimulated emission

**electrical resistance**

- USE electric conductivity

**electrical resistivity**

- USE electric conductivity

**ELECTRICAL SURVEYS**

*Surveys or mapping of a portion of the earth's interior by use of one of the electrical methods.*

- \*BT1 geophysical surveys
- NT1 electromagnetic surveys
- NT2 magnetotelluric surveys
- NT1 resistivity surveys
- NT1 self-potential surveys
- NT1 telluric surveys
- RT electric logging
- RT exploration
- RT geothermal exploration
- RT induced polarization logging
- RT resistivity logging

**ELECTRICAL TESTING**

- \*BT1 nondestructive testing
- RT electric conductivity

**ELECTRICAL TRANSIENTS**

INIS: 1983-06-02; ETDE: 1979-07-24  
*Temporary oscillations that occur in circuits because of sudden changes of voltage, load or frequency.*

- BT1 transients
- BT1 voltage drop
- RT electric potential
- RT overvoltage
- RT power systems
- RT surges
- RT var control systems

**ELECTRICITE DE FRANCE**

INIS: 1995-02-15; ETDE: 1983-03-24  
 \*BT1 french organizations

**ELECTRICITY**

*Only for the physical phenomenon sense; for utility purposes, use ELECTRIC POWER.*

- NT1 bioelectricity
- NT1 piezoelectricity
- NT1 thermoelectricity
- RT electric currents
- RT electric power
- RT electrical properties

**electricity supply company reactor**

1993-11-05  
 USE escom reactor

**ELECTRO-OPTICAL EFFECTS**

INIS: 1978-11-24; ETDE: 1976-08-04  
 NT1 electrochromism  
 RT electrical properties  
 RT magneto-optical effects  
 RT optical properties

**ELECTROCARBONIZATION**

2000-04-12  
 \*BT1 carbonization  
 RT electric currents

**ELECTROCARDIOGRAMS**

- \*BT1 diagrams
- RT cardiography
- RT diagnostic techniques
- RT electric currents
- RT heart
- RT pulses
- RT recording systems

**ELECTROCATALYSTS**

INIS: 1992-02-26; ETDE: 1978-10-30  
 UF fuel cell catalysts  
 BT1 catalysts  
 RT catalysis  
 RT catalytic effects

**ELECTROCHEMICAL CELLS**

1992-02-22  
 SF electrochemical engines  
 NT1 electric batteries  
 NT2 lead-acid batteries  
 NT2 metal-gas batteries  
 NT3 aluminium-air batteries  
 NT3 cadmium-air batteries  
 NT3 iron-air batteries  
 NT3 lithium-chlorine batteries  
 NT3 lithium-water-air batteries  
 NT3 nickel-hydrogen batteries  
 NT3 silver-hydrogen batteries  
 NT3 zinc-air batteries  
 NT3 zinc-chlorine batteries  
 NT2 metal-metal batteries  
 NT2 metal-metal oxide batteries  
 NT3 iron-nickel batteries  
 NT3 nickel-cadmium batteries  
 NT3 nickel-zinc batteries  
 NT3 silver-cadmium batteries  
 NT3 silver-zinc batteries  
 NT3 zinc-manganese batteries  
 NT2 metal-nonmetal batteries  
 NT3 lithium-copper chloride batteries  
 NT3 lithium-sulfur batteries  
 NT3 sodium-sulfur batteries  
 NT3 zinc-bromine batteries  
 NT2 primary-secondary hybrid batteries  
 NT2 thermal batteries  
 NT1 fuel cells  
 NT2 acid electrolyte fuel cells  
 NT2 alcohol fuel cells  
 NT3 direct ethanol fuel cells  
 NT3 direct methanol fuel cells  
 NT2 alkaline electrolyte fuel cells  
 NT2 ammonia fuel cells  
 NT2 biochemical fuel cells  
 NT2 coal fuel cells  
 NT2 formaldehyde fuel cells  
 NT2 formate fuel cells  
 NT2 formic acid fuel cells  
 NT2 high-temperature fuel cells  
 NT3 molten carbonate fuel cells  
 NT3 solid oxide fuel cells  
 NT2 hydrazine fuel cells  
 NT2 hydrocarbon fuel cells  
 NT2 hydrogen fuel cells

- NT2 natural gas fuel cells
- NT2 regenerative fuel cells
- NT3 redox fuel cells
- NT2 solid electrolyte fuel cells
- NT3 proton exchange membrane fuel cells
- NT3 solid oxide fuel cells
- NT1 photoelectrochemical cells
- NT2 photogalvanic cells
- RT electrochemical energy conversion
- RT electrochemistry
- RT primary batteries

**ELECTROCHEMICAL COATING**

- \*BT1 chemical coating
- NT1 anodization

**ELECTROCHEMICAL CORROSION**

- UF bimetallic corrosion
- UF couple corrosion
- UF electrolytic corrosion
- UF galvanic corrosion
- \*BT1 corrosion
- RT cathodic protection
- RT electrochemistry
- RT electrolysis

**ELECTROCHEMICAL ENERGY CONVERSION**

INIS: 2000-04-12; ETDE: 1981-07-18  
 \*BT1 energy conversion  
 RT electrochemical cells

**electrochemical engines**

INIS: 2000-04-12; ETDE: 1978-08-08  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 SEE electrochemical cells

**ELECTROCHEMICAL MACHINING**

- \*BT1 chemical machining

**ELECTROCHEMISTRY**

1999-05-04  
 BT1 chemistry  
 RT electrochemical cells  
 RT electrochemical corrosion  
 RT electrochromism  
 RT electrometallurgy  
 RT electromotive force  
 RT fuel cells  
 RT photoelectrochemical cells

**ELECTROCHROMISM**

INIS: 1999-03-02; ETDE: 1984-06-29  
*A reversible color change in a material induced by the injection of ions under an applied current.*  
 BT1 electro-optical effects  
 RT color  
 RT electrochemistry

**ELECTRODEPOSITED COATINGS**

- BT1 coatings
- RT electroplating

**ELECTRODEPOSITION**

- UF electroforming
- \*BT1 electrolysis
- \*BT1 surface coating
- NT1 electroplating
- RT electrometallurgy

**ELECTRODES**

- NT1 anodes
- NT2 hollow anodes
- NT2 photoanodes
- NT1 cathodes
- NT2 hollow cathodes
- NT2 photocathodes
- NT1 dees
- NT1 grids



**NT1** ion-selective electrodes  
*RT* battery paste  
*RT* electron tubes  
*RT* ion selective electrode analysis

**ELECTRODIALYSIS**  
*INIS: 1993-02-18; ETDE: 1977-06-30*  
 \*BT1 dialysis

**ELECTRODYNAMICS**  
*UF electrokinetics*  
**NT1** quantum electrodynamics  
**NT2** schwinger-tomonaga formalism  
*RT* born-infeld theory  
*RT* charge renormalization  
*RT* electromagnetic fields  
*RT* electromagnetic interactions  
*RT* electromagnetism  
*RT* field theories  
*RT* maxwell equations

**ELECTROENCEPHALOGRAPHY**  
*INIS: 1980-07-24; ETDE: 1979-07-24*  
 BT1 diagnostic techniques  
*RT* brain

**ELECTROFISSION**  
*INIS: 1977-03-14; ETDE: 1977-06-03*  
*Fission of heavy nuclei by MeV range electrons.*  
 \*BT1 electron reactions  
 \*BT1 fission

**electrofluid dynamic wind generator**  
*INIS: 2000-04-12; ETDE: 1977-11-09*  
 USE efd wind generators

**electroforming**  
 2006-09-25  
 USE electrodeposition

**ELECTROGASDYNAMICS**  
 \*BT1 fluid mechanics  
*RT* gas flow

**electrohydrodynamic channels**  
*INIS: 2000-04-12; ETDE: 1979-03-28*  
 SEE ehd generators

**electrohydrodynamic generators**  
 USE ehd generators

**ELECTROHYDRODYNAMICS**  
 \*BT1 hydrodynamics  
*RT* direct energy conversion  
*RT* ehd generators

**ELECTROJETS**  
*UF auroral electrojets*  
*UF equatorial electrojets*  
 \*BT1 electric currents  
*RT* ring currents

**electrokinetics**  
 USE electrodynamics

**ELECTROLINKING**  
*INIS: 2000-04-12; ETDE: 1976-06-07*  
*In underground gasification, the linking of holes drilled into a fossil fuel seam with the aid of electric current.*  
 BT1 borehole linking  
 BT1 fracturing  
*RT* boreholes  
*RT* in-situ gasification

**ELECTROLUMINESCENCE**  
 \*BT1 luminescence

**ELECTROLYSIS**  
 BT1 lysis  
**NT1** anodization  
**NT1** electrodeposition

**NT2** electroplating  
**NT1** electropolishing  
**NT1** electrorefining  
**NT1** photoelectrolysis  
*RT* anions  
*RT* cations  
*RT* dissociation  
*RT* electrochemical corrosion  
*RT* electrolytic cells  
*RT* electrometallurgy  
*RT* faraday laws  
*RT* polarography  
*RT* voltametry

**electrolyte tiles**

*INIS: 2000-04-12; ETDE: 1980-07-23*  
 USE matrix materials

**ELECTROLYTES**

**NT1** solid electrolytes  
*RT* dissociation  
*RT* donnan theory  
*RT* polyacetylenes

**ELECTROLYTIC CELLS**

*UF cells (electrolytic)*  
*UF photoelectrolytic cells*  
*RT* electric batteries  
*RT* electrolysis  
*RT* thermal batteries  
*RT* voltametry

**electrolytic corrosion**

USE electrochemical corrosion

**ELECTROMAGNETIC FIELDS**

*UF fields (electromagnetic)*  
*RT* aharonov-bohm effect  
*RT* einstein-maxwell equations  
*RT* electric fields  
*RT* electrodynamics  
*RT* inhomogeneous fields  
*RT* magnetic fields  
*RT* maxwell equations  
*RT* ponderomotive force  
*RT* potentials  
*RT* weyl unified theory

**ELECTROMAGNETIC FILTERS**

1980-05-14  
 BT1 filters  
*RT* corrosion products  
*RT* filtration  
*RT* primary coolant circuits  
*RT* water

**ELECTROMAGNETIC FORM FACTORS**

\*BT1 form factors  
*RT* four momentum transfer

**ELECTROMAGNETIC INTERACTIONS**

1995-08-10  
 \*BT1 basic interactions  
**NT1** compton effect  
**NT1** coulomb scattering  
**NT1** electroproduction  
**NT1** photon-hadron interactions  
**NT2** photon-baryon interactions  
**NT3** photon-hyperon interactions  
**NT3** photon-nucleon interactions  
**NT4** photon-neutron interactions  
**NT4** photon-proton interactions  
**NT2** photon-meson interactions  
**NT1** photon-photon interactions  
**NT1** photoproduction  
**NT2** primakoff effect  
**NT1** umklapp processes  
*RT* annihilation  
*RT* charged currents

*RT* coulomb correction  
*RT* electrodynamics  
*RT* electromagnetic particle decay  
*RT* electron-quark interactions  
*RT* grand unified theory  
*RT* hadron-hadron interactions  
*RT* lepton-hadron interactions  
*RT* lepton-lepton interactions  
*RT* neutral currents  
*RT* photon-lepton interactions  
*RT* radiative corrections  
*RT* standard model

**ELECTROMAGNETIC ISOTOPE SEPARATION**

1975-09-25

*The process.*

\*BT1 isotope separation  
*RT* electromagnetic isotope separators

**ELECTROMAGNETIC ISOTOPE SEPARATORS**

1993-11-05

*UF calutrons*

**NT1** tristan separator  
*RT* electromagnetic isotope separation  
*RT* isotope separation

**ELECTROMAGNETIC LENSES**

*UF plasma lens*  
 BT1 lenses  
*RT* end effects  
*RT* magnetic analyzers  
*RT* magnets

**ELECTROMAGNETIC PARTICLE DECAY**

*INIS: 1978-02-23; ETDE: 1978-04-28*

\*BT1 particle decay  
*RT* electromagnetic interactions  
*RT* radiative decay

**ELECTROMAGNETIC PULSES**

*UF emp*  
 \*BT1 electromagnetic radiation  
 BT1 pulses  
**NT1** internal electromagnetic pulses  
*RT* nuclear explosions

**ELECTROMAGNETIC PUMPS**

\*BT1 pumps

**ELECTROMAGNETIC RADIATION**

*UF electromagnetic waves*  
 BT1 radiations  
**NT1** auroral hiss  
**NT1** blackbody radiation  
**NT1** bremsstrahlung  
**NT2** cyclotron radiation  
**NT2** internal bremsstrahlung  
**NT2** undulator radiation  
**NT2** synchrotron radiation  
**NT1** cherenkov radiation  
**NT1** coherent radiation  
**NT1** electromagnetic pulses  
**NT2** internal electromagnetic pulses  
**NT1** gamma radiation  
**NT2** delayed gamma radiation  
**NT2** prompt gamma radiation  
**NT1** helicon waves  
**NT1** infrared radiation  
**NT2** far infrared radiation  
**NT2** intermediate infrared radiation  
**NT2** near infrared radiation  
**NT1** laser radiation  
**NT1** microwave radiation  
**NT2** relict radiation  
**NT1** monochromatic radiation  
**NT1** multipole radiation  
**NT1** radiowave radiation  
**NT2** long wave radiation

**NT2** medium wave radiation  
**NT2** radio noise  
**NT3** atmospherics  
**NT3** whistlers  
**NT2** radioecho  
**NT2** short wave radiation  
**NT2** solar radio bursts  
**NT2** solar radiowave radiation  
**NT1** thermal radiation  
**NT1** transition radiation  
**NT1** ultralow frequency radiation  
**NT1** ultraviolet radiation  
**NT2** extreme ultraviolet radiation  
**NT2** far ultraviolet radiation  
**NT2** near ultraviolet radiation  
**NT1** visible radiation  
**NT1** x radiation  
**NT2** hard x radiation  
**NT2** soft x radiation  
**NT1** zodiacal light  
*RT* faraday effect  
*RT* frequency mixing  
*RT* harmonic generation  
*RT* photons  
*RT* radiation pressure  
*RT* signal distortion  
*RT* standing waves  
*RT* travelling waves  
*RT* wave forms

**ELECTROMAGNETIC SURVEYS**  
 1981-02-27  
*A subgroup of methods of electrical exploration based on the measurement of alternating magnetic fields associated with currents artificially or naturally maintained in the subsurface.*  
 \*BT1 electrical surveys  
**NT1** magnetotelluric surveys  
*RT* geothermal exploration

**ELECTROMAGNETIC TESTING**  
 \*BT1 nondestructive testing  
**NT1** eddy current testing

*electromagnetic transitions*  
 USE energy-level transitions

*electromagnetic waves*  
 USE electromagnetic radiation

**ELECTROMAGNETISM**  
**BT1** magnetism  
*RT* continuity equations  
*RT* electrodynamics  
*RT* kaluza-klein theory

*electromagnetostriction*  
 USE magnetostriction

**ELECTROMAGNETS**  
 \*BT1 electrical equipment  
 \*BT1 magnets  
**NT1** superconducting magnets  
*RT* electric coils  
*RT* magnetic properties

**ELECTROMECHANICS**  
**BT1** mechanics

**ELECTROMETALLURGY**  
*UF* electrowinning  
**BT1** metallurgy  
*RT* electrochemistry  
*RT* electrodeposition  
*RT* electrolysis  
*RT* electrorefining  
*RT* extractive metallurgy

**ELECTROMETERS**  
 \*BT1 electric measuring instruments  
*RT* condenser ionization chambers

*electromigration*  
 USE electrophoresis

**ELECTROMOTIVE FORCE**  
 1999-06-30  
*A force capable of maintaining a potential difference, and thus a current, within a circuit. it can be established by chemical action or by mechanical work.*  
*UF* emf  
*RT* electric batteries  
*RT* electric potential  
*RT* electrochemistry

*electron acceptor*  
 USE binding energy  
 USE electrons  
 USE valence

*electron acoustic waves*  
 INIS: 1984-04-04; ETDE: 1984-05-10  
 USE electron plasma waves

*electron affinity*  
 INIS: 2000-04-12; ETDE: 1979-04-11  
 USE affinity

**ELECTRON ANTINEUTRINOS**  
 \*BT1 antineutrinos  
 \*BT1 electron neutrinos

**ELECTRON-ATOM COLLISIONS**  
 \*BT1 atom collisions  
 \*BT1 electron collisions

**ELECTRON ATTACHMENT**  
*A(neutral) + e yields A(l minus).*  
*RT* electron capture  
*RT* ionization

**ELECTRON BEAM FURNACES**  
**BT1** furnaces  
*RT* vacuum furnaces

**ELECTRON BEAM FUSION ACCELERATOR**  
 INIS: 1981-02-27; ETDE: 1979-07-24  
*Electron beam accelerator at Sandia Laboratories to be used for inertial confinement fusion experiments.*  
*UF* ebfa  
*RT* electron beam fusion reactors  
*RT* inertial confinement  
*RT* particle beam fusion accelerator

**ELECTRON BEAM FUSION REACTORS**  
 INIS: 1982-11-29; ETDE: 1983-02-09  
*UF* e-beam type reactors  
*UF* electron beam type reactors  
**BT1** thermonuclear reactors  
*RT* electron beam fusion accelerator  
*RT* icf devices  
*RT* inertial confinement

*electron beam induced current*  
 INIS: 2000-04-12; ETDE: 1983-03-23  
 USE scanning electron microscopy

**ELECTRON BEAM INJECTION**  
**BT1** beam injection

**ELECTRON BEAM ION SOURCES**  
 INIS: 1976-08-17; ETDE: 1976-05-13  
*Ion source creating high charge states by sequential electron impact ionization.*  
*UF* ebis  
**BT1** ion sources  
*RT* electron beams

**ELECTRON BEAM MACHINING**  
**BT1** machining

**ELECTRON BEAM MELTING**  
 \*BT1 melting

**ELECTRON BEAM PUMPING**  
 INIS: 1993-07-12; ETDE: 1981-08-21  
 \*BT1 electrical pumping  
*RT* excitation  
*RT* lasers  
*RT* stimulated emission

**ELECTRON BEAM TARGETS**  
 INIS: 1982-11-29; ETDE: 1978-09-11  
*SF* icf targets  
*SF* inertial confinement fusion targets  
**BT1** targets  
*RT* inertial confinement  
*RT* ion beam targets  
*RT* laser targets  
*RT* thermonuclear fuels

*electron beam type reactors*  
 INIS: 1982-11-29; ETDE: 1976-09-15  
 USE electron beam fusion reactors

**ELECTRON BEAM WELDING**  
 \*BT1 welding  
*RT* vacuum welding

**ELECTRON BEAMS**  
*UF* beta beams (electrons)  
 \*BT1 lepton beams  
*RT* electron beam ion sources  
*RT* electron cooling  
*RT* electrons  
*RT* llnl advanced test accelerator  
*RT* pierce instability

**ELECTRON CAPTURE**  
*By projectiles in collisions; not for ELECTRON CAPTURE DECAY.*  
**BT1** capture  
*RT* charge exchange  
*RT* charge states  
*RT* electron attachment  
*RT* recombination

**ELECTRON CAPTURE DECAY**  
 \*BT1 beta decay  
**NT1** k capture  
**NT1** l capture  
**NT1** m capture  
*RT* beta-plus decay  
*RT* capture  
*RT* delayed protons  
*RT* electron capture radioisotopes

**ELECTRON-CAPTURE DETECTORS**  
*Instrument for gas analysis which incorporates an ionization chamber and internal beta source.*  
 \*BT1 radiometric gages  
*RT* gas analysis  
*RT* ionization chambers

**ELECTRON CAPTURE RADIOISOTOPES**  
 1997-02-07  
 \*BT1 beta decay radioisotopes  
**NT1** actinium 214  
**NT1** actinium 215  
**NT1** actinium 222  
**NT1** actinium 223  
**NT1** actinium 224  
**NT1** actinium 226  
**NT1** americium 232  
**NT1** americium 233  
**NT1** americium 234  
**NT1** americium 235  
**NT1** americium 236  
**NT1** americium 237  
**NT1** americium 238

NT1 americium 239  
NT1 americium 240  
NT1 americium 242  
NT1 americium 244  
NT1 antimony 107  
NT1 antimony 109  
NT1 antimony 110  
NT1 antimony 111  
NT1 antimony 112  
NT1 antimony 113  
NT1 antimony 114  
NT1 antimony 115  
NT1 antimony 116  
NT1 antimony 117  
NT1 antimony 118  
NT1 antimony 119  
NT1 antimony 120  
NT1 antimony 122  
NT1 argon 37  
NT1 arsenic 67  
NT1 arsenic 70  
NT1 arsenic 71  
NT1 arsenic 72  
NT1 arsenic 73  
NT1 arsenic 74  
NT1 astatine 195  
NT1 astatine 197  
NT1 astatine 199  
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NT1 astatine 202  
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NT1 astatine 210  
NT1 astatine 211  
NT1 barium 117  
NT1 barium 119  
NT1 barium 120  
NT1 barium 121  
NT1 barium 122  
NT1 barium 123  
NT1 barium 124  
NT1 barium 125  
NT1 barium 126  
NT1 barium 127  
NT1 barium 128  
NT1 barium 129  
NT1 barium 131  
NT1 barium 133  
NT1 berkelium 240  
NT1 berkelium 242  
NT1 berkelium 243  
NT1 berkelium 244  
NT1 berkelium 245  
NT1 berkelium 246  
NT1 berkelium 248  
NT1 beryllium 7  
NT1 bismuth 190  
NT1 bismuth 191  
NT1 bismuth 192  
NT1 bismuth 193  
NT1 bismuth 194  
NT1 bismuth 195  
NT1 bismuth 196  
NT1 bismuth 197  
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NT1 bismuth 203  
NT1 bismuth 204  
NT1 bismuth 205  
NT1 bismuth 206

NT1 bismuth 207  
NT1 bismuth 208  
NT1 bromine 71  
NT1 bromine 73  
NT1 bromine 74  
NT1 bromine 75  
NT1 bromine 76  
NT1 bromine 77  
NT1 bromine 78  
NT1 bromine 80  
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NT1 gadolinium 149  
NT1 gadolinium 151  
NT1 gadolinium 153  
NT1 gallium 62  
NT1 gallium 63

NTI gallium 64	NTI iodine 111	NTI lead 198
NTI gallium 65	NTI iodine 112	NTI lead 199
NTI gallium 66	NTI iodine 113	NTI lead 200
NTI gallium 67	NTI iodine 114	NTI lead 201
NTI gallium 68	NTI iodine 115	NTI lead 202
NTI gallium 70	NTI iodine 116	NTI lead 203
NTI germanium 64	NTI iodine 117	NTI lead 205
NTI germanium 65	NTI iodine 118	NTI lutetium 153
NTI germanium 66	NTI iodine 119	NTI lutetium 154
NTI germanium 67	NTI iodine 120	NTI lutetium 155
NTI germanium 68	NTI iodine 121	NTI lutetium 156
NTI germanium 69	NTI iodine 122	NTI lutetium 157
NTI germanium 71	NTI iodine 123	NTI lutetium 158
NTI gold 180	NTI iodine 124	NTI lutetium 159
NTI gold 181	NTI iodine 125	NTI lutetium 160
NTI gold 182	NTI iodine 126	NTI lutetium 161
NTI gold 183	NTI iodine 128	NTI lutetium 162
NTI gold 184	NTI iridium 178	NTI lutetium 163
NTI gold 185	NTI iridium 179	NTI lutetium 164
NTI gold 186	NTI iridium 180	NTI lutetium 165
NTI gold 187	NTI iridium 181	NTI lutetium 166
NTI gold 188	NTI iridium 182	NTI lutetium 167
NTI gold 189	NTI iridium 183	NTI lutetium 168
NTI gold 190	NTI iridium 184	NTI lutetium 169
NTI gold 191	NTI iridium 185	NTI lutetium 170
NTI gold 192	NTI iridium 186	NTI lutetium 171
NTI gold 193	NTI iridium 187	NTI lutetium 172
NTI gold 194	NTI iridium 188	NTI lutetium 173
NTI gold 195	NTI iridium 189	NTI lutetium 174
NTI gold 196	NTI iridium 190	NTI manganese 51
NTI hafnium 154	NTI iridium 192	NTI manganese 52
NTI hafnium 155	NTI iron 45	NTI manganese 53
NTI hafnium 157	NTI iron 52	NTI manganese 54
NTI hafnium 158	NTI iron 53	NTI mendeleevium 248
NTI hafnium 159	NTI iron 55	NTI mendeleevium 249
NTI hafnium 160	NTI krypton 69	NTI mendeleevium 250
NTI hafnium 162	NTI krypton 71	NTI mendeleevium 251
NTI hafnium 163	NTI krypton 72	NTI mendeleevium 252
NTI hafnium 166	NTI krypton 73	NTI mendeleevium 253
NTI hafnium 167	NTI krypton 74	NTI mendeleevium 254
NTI hafnium 168	NTI krypton 75	NTI mendeleevium 255
NTI hafnium 169	NTI krypton 76	NTI mendeleevium 256
NTI hafnium 170	NTI krypton 77	NTI mendeleevium 257
NTI hafnium 171	NTI krypton 79	NTI mendeleevium 258
NTI hafnium 172	NTI krypton 81	NTI mercury 177
NTI hafnium 173	NTI lanthanum 120	NTI mercury 178
NTI hafnium 175	NTI lanthanum 121	NTI mercury 179
NTI holmium 143	NTI lanthanum 122	NTI mercury 180
NTI holmium 145	NTI lanthanum 123	NTI mercury 181
NTI holmium 147	NTI lanthanum 124	NTI mercury 182
NTI holmium 149	NTI lanthanum 125	NTI mercury 183
NTI holmium 150	NTI lanthanum 126	NTI mercury 184
NTI holmium 151	NTI lanthanum 127	NTI mercury 185
NTI holmium 152	NTI lanthanum 128	NTI mercury 186
NTI holmium 153	NTI lanthanum 129	NTI mercury 187
NTI holmium 154	NTI lanthanum 130	NTI mercury 188
NTI holmium 155	NTI lanthanum 131	NTI mercury 189
NTI holmium 156	NTI lanthanum 132	NTI mercury 190
NTI holmium 157	NTI lanthanum 133	NTI mercury 191
NTI holmium 158	NTI lanthanum 134	NTI mercury 192
NTI holmium 159	NTI lanthanum 135	NTI mercury 193
NTI holmium 160	NTI lanthanum 136	NTI mercury 194
NTI holmium 161	NTI lanthanum 137	NTI mercury 195
NTI holmium 162	NTI lanthanum 138	NTI mercury 197
NTI holmium 163	NTI lawrencium 254	NTI molybdenum 87
NTI holmium 164	NTI lawrencium 255	NTI molybdenum 88
NTI indium 102	NTI lawrencium 256	NTI molybdenum 89
NTI indium 103	NTI lead 186	NTI molybdenum 90
NTI indium 104	NTI lead 187	NTI molybdenum 91
NTI indium 105	NTI lead 188	NTI molybdenum 93
NTI indium 106	NTI lead 189	NTI neodymium 125
NTI indium 107	NTI lead 190	NTI neodymium 129
NTI indium 108	NTI lead 191	NTI neodymium 130
NTI indium 109	NTI lead 192	NTI neodymium 132
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NTI indium 111	NTI lead 194	NTI neodymium 134
NTI indium 112	NTI lead 195	NTI neodymium 135
NTI indium 114	NTI lead 196	NTI neodymium 136
NTI iodine 110	NTI lead 197	NTI neodymium 137

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**NT1** zirconium 84  
**NT1** zirconium 85  
**NT1** zirconium 86  
**NT1** zirconium 87  
**NT1** zirconium 88  
**NT1** zirconium 89  
*RT* electron capture decay

**ELECTRON CHANNELING**

**BT1** channeling  
*RT* crystal lattices

**ELECTRON COLLISIONS**

**BT1** collisions  
**NT1** electron-atom collisions  
**NT1** electron-electron collisions  
**NT1** electron-ion collisions  
**NT1** electron-molecule collisions  
**NT1** electron-positron collisions  
**NT1** photon-electron collisions

**electron compounds**

2003-05-30

*USE* intermetallic compounds

**electron configuration (atoms)**

*USE* electronic structure

**ELECTRON COOLING**

1975-08-22

*Reduction of particle beam oscillations by collisions with a low energy electron beam.*

**BT1** beam cooling  
*RT* beam luminosity  
*RT* coulomb scattering  
*RT* electron beams  
*RT* proton beams

**ELECTRON CORRELATION**

*In atomic models.*

*UF* correlation energy

**BT1** correlations  
*RT* atomic models  
*RT* density functional method

**electron cyclotron masers**

*INIS: 2000-04-12; ETDE: 1978-04-06*

*USE* microwave amplifiers

**ELECTRON CYCLOTRON-RESONANCE**

*UF* ecr

\***BT1** cyclotron resonance

*RT* ecr heating  
*RT* ecr ion sources

**electron cyclotron-resonance current drive**

INIS: 1999-07-26; ETDE: 1999-09-03

USE ecr current drive

**electron cyclotron-resonance heating**

USE ecr heating

**electron cyclotron-resonance ion sources**

1995-07-03

USE ecr ion sources

**ELECTRON DENSITY**

UF density (electron)

RT current density

RT electrons

RT plasma eaters

**ELECTRON DETACHMENT***A(1 minus) yields A(neutral) + e.*

RT electron loss

RT ionization

**ELECTRON DETECTION**

\*BT1 charged particle detection

RT beta detection

RT beta spectrometers

RT electron dosimetry

RT electron spectrometers

RT positron detection

**electron-deuteron interactions**

(Prior to March 1996 this was a valid ETDE descriptor.)

USE electron-neutron interactions

USE electron-proton interactions

**ELECTRON DIFFRACTION**

UF diffraction (electron)

UF leed

UF low energy electron diffraction

\*BT1 diffraction

RT crystallography

RT diffuse scattering

RT kikuchi lines

**electron donor**

USE binding energy

USE valence

USE valence

**ELECTRON DOSIMETRY**

BT1 dosimetry

RT electron detection

**ELECTRON DRIFT**

UF drift (electron)

RT ambipolar diffusion

RT electrons

**ELECTRON-ELECTRON COLLISIONS**

\*BT1 electron collisions

**ELECTRON-ELECTRON COUPLING**

1998-10-23

BT1 coupling

RT superconductivity

**electron-electron double resonance**

1993-11-05

USE eldor

**ELECTRON-ELECTRON INTERACTIONS**

\*BT1 lepton-lepton interactions

**ELECTRON EMISSION**

UF emission (electron)

BT1 emission

NT1 photoelectric emission

RT auger effect

RT electron sources

RT field emission

RT internal electromagnetic pulses

RT thermionic emission

RT work functions

**ELECTRON EXCHANGE**

UF exchange (electron)

BT1 electron transfer

RT atom-atom collisions

RT atom-molecule collisions

**ELECTRON GAS**

RT fermi gas

RT gases

RT pinnes-bohm theory

RT solid-state plasma

**ELECTRON GUNS**

1999-07-02

UF guns (electron)

NT1 pierce electron guns

RT electron tubes

**ELECTRON-HOLE COUPLING**

INIS: 1989-09-14; ETDE: 1980-03-29

BT1 coupling

RT electrons

RT holes

RT superconductivity

**ELECTRON-HOLE DROPLETS**

INIS: 1999-10-07; ETDE: 1979-02-23

\*BT1 solid-state plasma

RT charge carriers

RT excitons

RT holes

**electron-hole plasma**

INIS: 1983-06-30; ETDE: 2002-06-13

USE solid-state plasma

**electron holes**

ETDE: 1975-09-11

USE holes

**ELECTRON-ION COLLISIONS**

\*BT1 electron collisions

\*BT1 ion collisions

**ELECTRON-ION COUPLING**

1984-04-04

BT1 coupling

RT superconductivity

**ELECTRON LOSS**

RT beam strippers

RT charge exchange

RT charge states

RT electron detachment

RT ionization

**ELECTRON-MESON INTERACTIONS**

\*BT1 lepton-meson interactions

NT1 electron-pion interactions

**ELECTRON MICROPROBE ANALYSIS**

BT1 microanalysis

\*BT1 nondestructive analysis

RT ceramography

RT electron probes

RT post-irradiation examination

**ELECTRON MICROSCOPES**

BT1 microscopes

**ELECTRON MICROSCOPY**

BT1 microscopy

NT1 scanning electron microscopy

NT1 transmission electron microscopy

RT cytological techniques

RT dielectric track detectors

RT electron scanning

RT labelled compounds

RT replicas

RT resolution

RT sample preparation

RT ultrastructural changes

**ELECTRON MOBILITY**

\*BT1 particle mobility

RT electric conductors

RT semiconductor materials

**ELECTRON-MOLECULE COLLISIONS**

\*BT1 electron collisions

\*BT1 molecule collisions

**ELECTRON MULTIPLIER DETECTORS**

\*BT1 radiation detectors

RT electron multipliers

**ELECTRON MULTIPLIERS**

UF multiplier tubes

BT1 electron tubes

NT1 microchannel electron multipliers

RT dynodes

RT electron multiplier detectors

RT photomultipliers

**ELECTRON-MUON INTERACTIONS**

\*BT1 lepton-lepton interactions

**ELECTRON-MUON-TAU UNIVERSALITY**

INIS: 1989-09-14; ETDE: 1989-10-16

*Identity of all properties but mass.*

NT1 electron-muon universality

RT electrons

RT muons

RT tau particles

**ELECTRON-MUON UNIVERSALITY***Identity of all properties but mass.*

BT1 electron-muon-tau universality

RT electrons

RT muons

**ELECTRON NEUTRINOS**

\*BT1 neutrinos

NT1 electron antineutrinos

**ELECTRON-NEUTRON INTERACTIONS**

(From February 1975 until March 1996

ELECTRON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

UF electron-deuteron interactions

\*BT1 electron-nucleon interactions

**electron nuclear double resonance**

USE endor

**ELECTRON-NUCLEON INTERACTIONS**

\*BT1 lepton-nucleon interactions

NT1 electron-neutron interactions

NT1 electron-proton interactions

**ELECTRON PAIRS**

RT electrons

RT pair production

RT positrons

**electron paramagnetic resonance**

USE electron spin resonance

**ELECTRON-PHONON COUPLING**

1983-03-15

BT1 coupling

RT crystal lattices

RT electrons  
RT phonons  
RT superconductivity

**ELECTRON-PION INTERACTIONS**

INIS: 1982-08-27; ETDE: 1979-04-11

\*BT1 electron-meson interactions

**ELECTRON PLASMA WAVES**

UF *electron acoustic waves*  
BT1 plasma waves

**ELECTRON-POSITRON COLLISIONS**

\*BT1 electron collisions  
\*BT1 positron collisions

**ELECTRON-POSITRON INTERACTIONS**

\*BT1 lepton-lepton interactions

**ELECTRON PRECIPITATION**

BT1 charged-particle precipitation  
RT aurorae  
RT auroral oval  
RT midday aurorae  
RT polar cusp  
RT radiation belts  
RT trapped electrons

**ELECTRON PROBES**

BT1 probes  
RT electron microprobe analysis  
RT x-ray emission analysis

**ELECTRON-PROMOTION MODEL**

UF *fano-lichter model*  
BT1 mathematical models  
RT diabatic approximation  
RT ion-atom collisions

**ELECTRON-PROTON INTERACTIONS**

(From February 1975 until March 1996

ELECTRON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

UF *electron-deuteron interactions*  
\*BT1 electron-nucleon interactions

**ELECTRON-QUARK INTERACTIONS**

INIS: 1995-08-10; ETDE: 1985-08-09

\*BT1 particle interactions  
RT electromagnetic interactions  
RT intermediate vector bosons  
RT weak interactions

**ELECTRON REACTIONS**

\*BT1 charged-particle reactions  
\*BT1 lepton reactions  
NT1 electrofission

**ELECTRON-RING ACCELERATORS**

UF *adgezator*  
UF *ion-drag accelerators*  
UF *ringotron*  
UF *smokatron*  
\*BT1 collective accelerators  
RT electron rings

**ELECTRON RINGS**

INIS: 1976-05-07; ETDE: 1978-03-08

RT confinement  
RT electron-ring accelerators  
RT magnetic confinement

**ELECTRON SCANNING**

UF *scanning (electron)*  
RT cathode ray tubes  
RT electron microscopy

**ELECTRON SOURCES**

\*BT1 particle sources

NT1 pierce electron guns  
RT electron emission  
RT thermionic emitters

**ELECTRON SPECTRA**

INIS: 1975-11-27; ETDE: 1976-01-26

BT1 spectra  
RT x-ray photoelectron spectroscopy

**ELECTRON SPECTROMETERS**

\*BT1 spectrometers  
RT electron detection

**ELECTRON SPECTROSCOPY**

BT1 spectroscopy  
NT1 auger electron spectroscopy  
NT1 energy-loss spectroscopy  
NT1 photoelectron spectroscopy  
NT2 x-ray photoelectron spectroscopy  
RT electrons

***electron-spin echo***

INIS: 2000-04-12; ETDE: 1980-03-29

SEE acoustic esr

**ELECTRON SPIN RESONANCE**

UF *electron paramagnetic resonance*  
UF *epr*  
UF *esr*  
UF *paramagnetic resonance (electron)*  
\*BT1 magnetic resonance  
NT1 acoustic esr  
RT double resonance methods  
RT overhauser effect  
RT structural chemical analysis

**ELECTRON TEMPERATURE**

UF *plasma temperature*  
UF *temperature (electron)*  
RT electrons  
RT energy

**ELECTRON TRANSFER**

Not for the concept covered by CHARGE EXCHANGE.

UF *transfer (electron)*  
NT1 electron exchange  
RT carrier mobility

**ELECTRON TUBES**

UF *storage tubes*  
NT1 cathode ray tubes  
NT1 cold cathode tubes  
NT1 counting tubes  
NT1 diode tubes  
NT2 thermionic diodes  
NT1 electron multipliers  
NT2 microchannel electron multipliers  
NT1 gas discharge tubes  
NT2 flash tubes  
NT2 ignitrons  
NT2 thyratrons  
NT1 gyrocons  
NT1 microwave tubes  
NT2 backward wave tubes  
NT2 klystrons  
NT2 lasertrons  
NT2 magnetrons  
NT2 travelling wave tubes  
NT1 plasmatrions  
NT2 duoplasmatrions  
NT2 triplasmatrions  
NT1 rectifier tubes  
NT2 ignitrons  
NT1 thermionic tubes  
NT2 thermionic diodes  
NT1 triode tubes  
NT1 x-ray tubes  
RT cathodes  
RT electrical equipment  
RT electrodes  
RT electron guns

RT electronic equipment  
RT gettering  
RT getters  
RT image tubes  
RT phototubes  
RT space charge  
RT thermionic emission  
RT work functions

**ELECTRONEGATIVITY**

RT affinity  
RT ionization potential

**ELECTRONIC CIRCUITS**

UF *circuits (electronic)*  
NT1 campbelling circuits  
NT1 cathode followers  
NT1 coincidence circuits  
NT1 comparator circuits  
NT1 counting circuits  
NT1 delay circuits  
NT1 digital circuits  
NT1 discriminators  
NT2 pulse discriminators  
NT1 equivalent circuits  
NT1 gating circuits  
NT1 limiter circuits  
NT1 logic circuits  
NT1 microelectronic circuits  
NT2 integrated circuits  
NT2 microprocessors  
NT1 power conditioning circuits  
NT1 printed circuits  
NT1 pulse circuits  
NT2 multivibrators  
NT3 flip-flop circuits  
NT2 pulse discriminators  
NT2 signal conditioners  
NT3 digitizers  
NT4 cathode ray tube digitizers  
NT4 flying spot digitizers  
NT4 scanning measuring projectors  
NT4 spiral reader digitizers  
NT3 pulse shapers  
NT2 trigger circuits  
NT3 transistor trigger circuits  
NT1 sequential circuits  
NT1 sweep circuits  
NT1 switching circuits  
NT2 transistor switching circuits  
NT1 tank circuits  
NT1 timing circuits  
RT amplifiers  
RT analog systems  
RT circuit breakers  
RT circuit theory  
RT counting techniques  
RT digital systems  
RT electric grounds  
RT electrical equipment  
RT electronic equipment  
RT lock-in amplifiers  
RT microelectronics  
RT oscillators  
RT response functions  
RT speech synthesizers  
RT transistors

***electronic data processing***

USE data processing

**ELECTRONIC EQUIPMENT**

BT1 equipment  
NT1 amplifiers  
NT2 ac amplifiers  
NT2 dc amplifiers  
NT2 dielectric amplifiers  
NT2 high frequency amplifiers  
NT2 lock-in amplifiers  
NT2 magnetic amplifiers



**NT2** microwave amplifiers  
**NT3** masers  
**NT2** operational amplifiers  
**NT2** parametric amplifiers  
**NT2** power amplifiers  
**NT2** preamplifiers  
**NT2** pulse amplifiers  
**NT2** transistor amplifiers  
**NT1** analog-to-digital converters  
**NT1** counting ratemeters  
**NT2** linear ratemeters  
**NT2** logarithmic ratemeters  
**NT1** digital-to-analog converters  
**NT1** function generators  
**NT2** pulse generators  
**NT3** high-voltage pulse generators  
**NT4** marx generators  
**NT1** microwave equipment  
**NT2** heterodyne receivers  
**NT2** microwave amplifiers  
**NT3** masers  
**NT2** microwave dryers  
**NT2** microwave tubes  
**NT3** backward wave tubes  
**NT3** klystrons  
**NT3** lasertrons  
**NT3** magnetrons  
**NT3** travelling wave tubes  
**NT2** squid devices  
**NT1** multiplexers  
**NT1** oscillators  
**NT2** blocking oscillators  
**NT2** parametric oscillators  
**NT2** transistor oscillators  
**NT1** oscillographs  
**NT1** power supplies  
**NT2** marx generators  
**NT2** photovoltaic power supplies  
**NT2** radio equipment power supplies  
**NT2** spacecraft power supplies  
**NT2** uninterruptible power supplies  
**NT1** pulse analyzers  
**NT2** multi-channel analyzers  
**NT1** pulse converters  
**NT2** current-to-frequency converters  
**NT2** time-to-amplitude converters  
**NT1** pulse integrators  
**NT1** radio equipment  
**NT2** heterodyne receivers  
**NT2** ionosondes  
**NT2** radio telescopes  
**NT1** resonators  
**NT2** cavity resonators  
**NT3** superconducting cavity resonators  
**NT1** scalars  
**NT1** speech synthesizers  
**RT** analog systems  
**RT** atomic clocks  
**RT** camac system  
**RT** computer architecture  
**RT** computers  
**RT** consoles  
**RT** counting techniques  
**RT** data acquisition systems  
**RT** digital systems  
**RT** digitizers  
**RT** display devices  
**RT** electric measuring instruments  
**RT** electrical equipment  
**RT** electron tubes  
**RT** electronic circuits  
**RT** electronic guidance  
**RT** equipment interfaces  
**RT** image scanners  
**RT** miniaturization  
**RT** nuclear instrument modules  
**RT** potting  
**RT** potting materials  
**RT** pulse techniques

**RT** radar  
**RT** reactor components  
**RT** recording systems  
**RT** semiconductor devices  
**RT** sonar  
**RT** standby mode  
**RT** x-ray equipment

### ELECTRONIC GUIDANCE

**UF** *guidance (electronic)*  
**BT1** control systems  
**RT** electronic equipment  
**RT** inertial guidance  
**RT** navigational instruments  
**RT** rockets  
**RT** space vehicles

### ELECTRONIC SPECIFIC HEAT

*Electron contribution to the specific heat of electronic conductors.*

**\*BT1** specific heat  
**RT** magnetic specific heat  
**RT** nuclear specific heat

### ELECTRONIC STRUCTURE

*For electron configuration in atoms and molecules, and electron band structure in solids.*

**UF** *atomic shells*  
**UF** *electron configuration (atoms)*  
**NT1** k shell  
**NT1** l shell  
**NT1** m shell  
**NT1** n shell  
**RT** atomic models  
**RT** atomic radii  
**RT** aufbau principle  
**RT** band theory  
**RT** configuration interaction  
**RT** conformational changes  
**RT** crystal field  
**RT** energy levels  
**RT** extreme ultraviolet spectra  
**RT** hartree-fock method  
**RT** heisenberg model  
**RT** hsk procedure  
**RT** hubbard model  
**RT** hybridization  
**RT** isoelectronic atoms  
**RT** molecular orbital method  
**RT** muffin-tin potential  
**RT** nanostructures  
**RT** photoelectron spectroscopy  
**RT** rydberg-klein-rees method  
**RT** rydberg states  
**RT** slater method  
**RT** ultraviolet spectra

### electronics (quantum)

*INIS: 1981-05-11; ETDE: 1976-08-05*

**USE** quantum electronics

### ELECTRONS

**UF** *electron acceptor*  
**UF** *electron donor*  
**UF** *knock-on electrons*  
**UF** *negatons*  
**UF** *negatrons*  
**UF** *valence electrons*  
**\*BT1** leptons  
**NT1** cosmic electrons  
**NT1** exoelectrons  
**NT1** prompt electrons  
**NT1** runaway electrons  
**NT1** solar electrons  
**NT1** solvated electrons  
**NT1** tail electrons  
**NT1** trapped electrons  
**RT** beta particles  
**RT** charge carriers  
**RT** cooper pairs

**RT** delta rays  
**RT** dirac equation  
**RT** electron beams  
**RT** electron density  
**RT** electron drift  
**RT** electron-hole coupling  
**RT** electron-muon-tau universality  
**RT** electron-muon universality  
**RT** electron pairs  
**RT** electron-phonon coupling  
**RT** electron spectroscopy  
**RT** electron temperature  
**RT** muonium  
**RT** nanostructures  
**RT** positronium  
**RT** positrons  
**RT** traps  
**RT** umklapp processes

### ELECTROPHORESIS

**UF** *cataphoresis*  
**UF** *drag effect*  
**UF** *electromigration*  
**UF** *ionophoresis*  
**NT1** isotachophoresis  
**NT1** two-dimensional electrophoresis  
**RT** separation processes  
**RT** thermophoresis  
**RT** transfer numbers

### ELECTROPHYSIOLOGY

*INIS: 1994-04-07; ETDE: 1985-08-22*

**BT1** physiology  
**RT** bioelectricity  
**RT** electric conductivity  
**RT** electric potential

### ELECTROPLATING

**\*BT1** electrodeposition  
**\*BT1** plating  
**RT** electrodeposited coatings

### ELECTROPOLISHING

**\*BT1** electrolysis  
**\*BT1** polishing  
**RT** cleaning

### ELECTROPRODUCTION

**\*BT1** electromagnetic interactions  
**\*BT1** particle interactions  
**BT1** particle production  
**RT** electric born model

### ELECTROREFINING

**\*BT1** electrolysis  
**\*BT1** refining  
**RT** electrometallurgy

### ELECTROSCOPES

**\*BT1** electric measuring instruments

### ELECTROSLAG CASTING

*INIS: 2000-04-12; ETDE: 1982-08-24*

**\*BT1** casting  
**RT** electroslag welding

### ELECTROSLAG WELDING

**\*BT1** welding  
**RT** arc welding  
**RT** electroslag casting

### ELECTROSTATIC ACCELERATORS

**BT1** accelerators  
**NT1** cockcroft-walton accelerators  
**NT1** dynamitrons  
**NT1** pelletron accelerators  
**NT2** 5u pelletron accelerator  
**NT1** tandem electrostatic accelerators  
**NT2** antares tandem accelerator  
**NT2** crml mp tandem accelerator  
**NT2** jaeri tandem accelerator  
**NT2** orsay tandem accelerator

- NT2 vivitron tandem accelerator
- NT1 van de graaff accelerators
- NT2 crnl mp tandem accelerator
- NT2 jaeri tandem accelerator
- NT2 orsay tandem accelerator
- NT2 vivitron tandem accelerator

**ELECTROSTATIC ANALYZERS**

- BT1 beam analyzers
- RT electrostatic lenses

**ELECTROSTATIC CHARGE****ELIMINATORS**

- UF static electricity eliminators
- RT electric charges
- RT electrostatics

**ELECTROSTATIC LENSES**

- BT1 lenses
- RT beam optics
- RT electrostatic analyzers
- RT electrostatic mirrors
- RT electrostatic septa

**ELECTROSTATIC MIRRORS**

INIS: 1986-03-04; ETDE: 1989-08-16

- BT1 mirrors
- RT beam optics
- RT electrostatic lenses
- RT electrostatics
- RT reflection

**ELECTROSTATIC PRECIPITATORS**

- \*BT1 pollution control equipment
- RT air cleaning
- RT air cleaning systems
- RT air pollution control
- RT air pollution monitors
- RT dust collectors
- RT electrostatics
- RT gaseous wastes
- RT hot gas cleanup
- RT separation processes
- RT stack disposal

**ELECTROSTATIC PROBES**

- BT1 probes

**ELECTROSTATIC SEPARATION**

1994-06-27

- BT1 separation processes

**ELECTROSTATIC SEPTA**

- RT beam optics
- RT electrostatic lenses
- RT magnetic analyzers
- RT septum magnets

**ELECTROSTATIC SPECTROMETERS**

- \*BT1 spectrometers

**electrostatic waves**

- USE plasma waves

**ELECTROSTATICICS**

- RT capacitors
- RT charge distribution
- RT electric charges
- RT electric sparks
- RT electrostatic charge eliminators
- RT electrostatic mirrors
- RT electrostatic precipitators
- RT xerography

**electrovac equations**

INIS: 1983-06-30; ETDE: 1983-07-20  
USE einstein-maxwell equations

**electroweak interaction model**

INIS: 1995-08-10; ETDE: 2002-06-13  
USE weinberg-salam gauge model

**electroweak mixing angle**

INIS: 2000-04-12; ETDE: 1985-07-23  
USE weinberg angle

**electroweak model**

INIS: 2000-04-12; ETDE: 1985-03-26  
USE weinberg-salam gauge model

**electrowinning**

- USE electrometallurgy

**element 104**

(Prior to March 2004 this was a valid descriptor.)  
USE rutherfordium

**element 104 253**

INIS: 1986-06-10; ETDE: 1986-08-21  
(Prior to March 2004 this was a valid descriptor.)  
USE rutherfordium 253

**element 104 254**

INIS: 1986-06-10; ETDE: 1986-08-22  
(Prior to March 2004 this was a valid descriptor.)  
USE rutherfordium 254

**element 104 255**

INIS: 1986-06-10; ETDE: 1986-08-22  
(Prior to March 2004 this was a valid descriptor.)  
USE rutherfordium 255

**element 104 256**

INIS: 1986-06-10; ETDE: 1986-08-22  
(Prior to March 2004 this was a valid descriptor.)  
USE rutherfordium 256

**element 104 257**

INIS: 1986-06-10; ETDE: 1986-08-22  
(Prior to March 2004 this was a valid descriptor.)  
USE rutherfordium 257

**element 104 258**

INIS: 1986-06-10; ETDE: 1986-08-22  
(Prior to March 2004 this was a valid descriptor.)  
USE rutherfordium 258

**element 104 259**

INIS: 1986-06-10; ETDE: 1986-08-22  
(Prior to March 2004 this was a valid descriptor.)  
USE rutherfordium 259

**element 104 260**

INIS: 1986-06-10; ETDE: 1986-08-22  
(Prior to March 2004 this was a valid descriptor.)  
USE rutherfordium 260

**element 104 261**

INIS: 1986-06-10; ETDE: 1986-08-22  
(Prior to March 2004 this was a valid descriptor.)  
USE rutherfordium 261

**element 104 262**

INIS: 1986-06-10; ETDE: 1986-08-22  
(Prior to March 2004 this was a valid descriptor.)  
USE rutherfordium 262

**element 104 263**

2002-08-13  
(Prior to March 2004 this was a valid descriptor.)  
USE rutherfordium 263

**element 104 chlorides**

(Prior to March 2004 this was a valid descriptor.)  
USE rutherfordium chlorides

**element 104 complexes**

(Prior to March 2004 this was a valid descriptor.)  
USE rutherfordium complexes

**element 104 compounds**

(Prior to March 2004 this was a valid descriptor.)  
USE rutherfordium compounds

**element 104 isotopes**

1975-09-02  
(Prior to March 2004 this was a valid descriptor.)  
USE rutherfordium isotopes

**element 105**

(Prior to March 2004 this was a valid descriptor.)  
USE dubnium

**element 105 255**

INIS: 1986-06-10; ETDE: 1986-08-22  
(Prior to March 2004 this was a valid descriptor.)  
USE dubnium 255

**element 105 256**

2002-01-11  
(Prior to March 2004 this was a valid descriptor.)  
USE dubnium 256

**element 105 257**

INIS: 1986-06-10; ETDE: 1986-08-22  
(Prior to March 2004 this was a valid descriptor.)  
USE dubnium 257

**element 105 258**

INIS: 1986-06-10; ETDE: 1986-08-22  
(Prior to March 2004 this was a valid descriptor.)  
USE dubnium 258

**element 105 259**

INIS: 1986-06-10; ETDE: 1986-08-22  
(Prior to March 2004 this was a valid descriptor.)  
USE dubnium 259

**element 105 260**

INIS: 1986-06-10; ETDE: 1986-08-22  
(Prior to March 2004 this was a valid descriptor.)  
USE dubnium 260

**element 105 261**

INIS: 1986-06-10; ETDE: 1986-08-25  
(Prior to March 2004 this was a valid descriptor.)  
USE dubnium 261

**element 105 262**

INIS: 1986-06-10; ETDE: 1986-08-25  
(Prior to March 2004 this was a valid descriptor.)  
USE dubnium 262

**element 105 263**

INIS: 1992-01-15; ETDE: 1992-02-14  
(Prior to March 2004 this was a valid descriptor.)  
USE dubnium 263

**element 105 compounds**

(Prior to March 2004 this was a valid descriptor.)

USE dubnium compounds

**element 105 isotopes**

INIS: 1986-06-10; ETDE: 1986-08-21

(Prior to March 2004 this was a valid descriptor.)

USE dubnium isotopes

**element 106**

(Prior to March 2004 this was a valid descriptor.)

USE seaborgium

**element 106 259**

INIS: 1986-06-10; ETDE: 1986-08-25

(Prior to March 2004 this was a valid descriptor.)

USE seaborgium 259

**element 106 260**

INIS: 1986-06-10; ETDE: 1986-08-25

(Prior to March 2004 this was a valid descriptor.)

USE seaborgium 260

**element 106 261**

INIS: 1986-06-10; ETDE: 1986-08-25

(Prior to March 2004 this was a valid descriptor.)

USE seaborgium 261

**element 106 262**

INIS: 2001-03-15; ETDE: 2001-02-12

(Prior to March 2004 this was a valid descriptor.)

USE seaborgium 262

**element 106 263**

INIS: 1986-06-10; ETDE: 1986-08-25

(Prior to March 2004 this was a valid descriptor.)

USE seaborgium 263

**element 106 265**

INIS: 1996-06-17; ETDE: 1996-05-31

(Prior to March 2004 this was a valid descriptor.)

USE seaborgium 265

**element 106 266**

INIS: 1996-06-17; ETDE: 1996-05-31

(Prior to March 2004 this was a valid descriptor.)

USE seaborgium 266

**element 106 compounds**

(Prior to March 2004 this was a valid descriptor.)

USE seaborgium compounds

**element 106 isotopes**

INIS: 1996-06-17; ETDE: 1976-04-19

(Prior to March 2004 this was a valid descriptor.)

USE seaborgium isotopes

**element 107**

(Prior to March 2004 this was a valid descriptor.)

USE bohrium

**element 107 261**

INIS: 1986-06-10; ETDE: 1986-08-25

(Prior to March 2004 this was a valid descriptor.)

USE bohrium 261

**element 107 262**

INIS: 1986-06-10; ETDE: 1986-08-25

(Prior to March 2004 this was a valid descriptor.)

USE bohrium 262

**element 107 264**

1995-03-28

(Prior to March 2004 this was a valid descriptor.)

USE bohrium 264

**element 107 compounds**

(Prior to March 2004 this was a valid descriptor.)

USE bohrium compounds

**element 107 isotopes**

INIS: 1995-03-28; ETDE: 1986-08-21

(Prior to March 2004 this was a valid descriptor.)

USE bohrium isotopes

**element 108**

(Prior to March 2004 this was a valid descriptor.)

USE hassium

**element 108 264**

INIS: 1986-10-29; ETDE: 1986-11-20

(Prior to March 2004 this was a valid descriptor.)

USE hassium 264

**element 108 265**

INIS: 1986-06-10; ETDE: 1986-08-25

(Prior to March 2004 this was a valid descriptor.)

USE hassium 265

**element 108 266**

INIS: 2001-03-15; ETDE: 2001-02-12

(Prior to March 2004 this was a valid descriptor.)

USE hassium 266

**element 108 270**

2002-08-13

(Prior to March 2004 this was a valid descriptor.)

USE hassium 270

**element 108 compounds**

2002-08-13

(Prior to March 2004 this was a valid descriptor.)

USE hassium compounds

**element 108 isotopes**

INIS: 1986-06-10; ETDE: 1986-08-21

(Prior to March 2004 this was a valid descriptor.)

USE hassium isotopes

**element 109**

(Prior to March 2004 this was a valid descriptor.)

USE meitnerium

**element 109 266**

INIS: 1986-06-10; ETDE: 1986-08-25

(Prior to March 2004 this was a valid descriptor.)

USE meitnerium 266

**element 109 268**

1995-03-28

(Prior to March 2004 this was a valid descriptor.)

USE meitnerium 268

**element 109 isotopes**

INIS: 1995-03-28; ETDE: 1986-08-21

(Prior to March 2004 this was a valid descriptor.)

USE meitnerium isotopes

**element 110**

(Prior to March 2004 this was a valid descriptor.)

USE darmstadtium

**element 110 269**

1995-03-23

(Prior to March 2004 this was a valid descriptor.)

USE darmstadtium 269

**element 110 270**

INIS: 2001-03-15; ETDE: 2001-02-12

(Prior to March 2004 this was a valid descriptor.)

USE darmstadtium 270

**element 110 compounds**

(Prior to March 2004 this was a valid descriptor.)

USE darmstadtium compounds

**element 110 isotopes**

1995-03-23

(Prior to March 2004 this was a valid descriptor.)

USE darmstadtium isotopes

**element 111**

(Prior to January 2006 this was a valid descriptor.)

USE roentgenium

**ELEMENT 111 272**

1995-03-28

(Prior to January 2006 this was a valid descriptor.)

USE roentgenium 272

**element 111 compounds**

(Prior to January 2006 this was a valid descriptor.)

USE roentgenium compounds

**element 111 isotopes**

INIS: 1995-03-28; ETDE: 2006-01-09

(Prior to January 2006 this was a valid descriptor.)

USE roentgenium isotopes

**ELEMENT 112**

UF *eka-mercury*

UF *ununbium*

\*BT1 transactinide elements

**ELEMENT 112 277**

1996-05-14

\*BT1 alpha decay radioisotopes

BT1 element 112 isotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 microseconds living radioisotopes

**ELEMENT 112 283**

INIS: 1999-06-24; ETDE: 1999-08-24

BT1 element 112 isotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 spontaneous fission radioisotopes

**ELEMENT 112 COMPOUNDS**

2002-08-13

\*BT1 transactinide compounds

**ELEMENT 112 ISOTOPES**

1996-05-14

- NT1 element 112 277  
NT1 element 112 283

**ELEMENT 113**

- UF *eka-thallium*  
UF *ununtrium*  
\*BT1 transactinide elements

**ELEMENT 113 COMPOUNDS**

- \*BT1 transactinide compounds

**ELEMENT 114**

- UF *eka-lead*  
UF *ununquadium*  
\*BT1 transactinide elements

**ELEMENT 114 COMPOUNDS**

- \*BT1 transactinide compounds

**ELEMENT 115**

- UF *eka-bismuth*  
UF *ununpentium*  
\*BT1 transactinide elements

**ELEMENT 116**

INIS: 1977-03-01; ETDE: 1976-12-15

- UF *eka-polonium*  
UF *ununhexium*  
\*BT1 transactinide elements

**ELEMENT 117**

- UF *eka-astatine*  
UF *ununseptium*  
\*BT1 transactinide elements

**ELEMENT 118**

INIS: 1975-10-29; ETDE: 1975-08-19

- UF *eka-radon*  
UF *ununoctium*  
\*BT1 transactinide elements

**ELEMENT 119**

INIS: 1981-11-27; ETDE: 1981-08-04

- UF *ununennium*  
\*BT1 transactinide elements

**ELEMENT 120**

INIS: 1981-11-27; ETDE: 1981-08-04

- UF *unbinilium*  
\*BT1 transactinide elements

**ELEMENT 126**

- UF *unbihexium*  
\*BT1 transactinide elements

**ELEMENT 128**

INIS: 1977-09-15; ETDE: 1977-11-10

- UF *unbioctium*  
\*BT1 transactinide elements

**ELEMENT 134**

INIS: 1977-09-15; ETDE: 1977-11-10

- UF *untriquadium*  
\*BT1 transactinide elements

**ELEMENT 145**

INIS: 1977-09-15; ETDE: 1977-11-10

- UF *unquadpentium*  
\*BT1 transactinide elements

**ELEMENT 164**

INIS: 1977-09-15; ETDE: 1977-11-10

- UF *unhexquadium*  
\*BT1 transactinide elements

**ELEMENT 173**

INIS: 1977-09-15; ETDE: 1977-11-10

- UF *unseptrium*  
\*BT1 transactinide elements

**ELEMENT ABUNDANCE**

ETDE: 1978-09-11

Always coordinate with descriptor(s) for element(s) involved.

- UF *abundance (element)*  
BT1 abundance  
RT chemical composition  
RT cosmochemistry  
RT isotope ratio  
RT natural occurrence

**elemental minerals**

INIS: 2000-04-12; ETDE: 1982-05-12

Use the descriptor below or a more specific term such as *DIAMONDS* or *GRAPHITE*.

(Prior to February 1997 this was a valid descriptor.)

- USE minerals

**ELEMENTARY LENGTH**

1976-08-17

- BT1 distance  
\*BT1 length

**ELEMENTARY PARTICLES**UF *fundamental particles*

NT1 antiparticles

NT2 antibaryons

NT3 antihyperons

NT4 antilambda particles

NT4 antiomega particles

NT4 antisigma particles

NT4 antixi particles

NT3 antinucleons

NT4 antineutrons

NT4 antiprotons

NT2 antikaons

NT3 antikaons neutral

NT2 antileptons

NT3 antineutrinos

NT4 electron antineutrinos

NT4 muon antineutrinos

NT3 muons plus

NT3 positrons

NT4 cosmic positrons

NT2 antimesons

NT3 pseudoscalar antimesons

NT4 anti-b neutral mesons

NT4 anti-d neutral mesons

NT1 beauty particles

NT2 b quarks

NT2 beauty baryons

NT3 lambda b neutral baryons

NT2 beauty mesons

NT3 b c mesons

NT3 b mesons

NT4 b minus mesons

NT4 b neutral mesons

NT5 anti-b neutral mesons

NT4 b plus mesons

NT3 b s mesons

NT3 b\*-5325 mesons

NT1 charm particles

NT2 c quarks

NT2 charmed baryons

NT3 lambda c-2625 baryons

NT3 lambda c plus baryons

NT3 omega c neutral baryons

NT3 sigma c-2455 baryons

NT3 xi c neutral baryons

NT3 xi c plus baryons

NT2 charmed mesons

NT3 b c mesons

NT3 d mesons

NT4 d minus mesons

NT4 d neutral mesons

NT5 anti-d neutral mesons

NT4 d plus mesons

NT3 d s-2536 mesons

NT3 d s mesons

NT3 d\*-2010 mesons

NT3 d\*2-2460 mesons

NT3 d\*s-2110 mesons

NT3 d1-2420 mesons

NT1 hadrons

NT2 baryons

NT3 antibaryons

NT4 antihyperons

NT5 antilambda particles

NT5 antiomega particles

NT5 antisigma particles

NT5 antixi particles

NT4 antinucleons

NT5 antineutrons

NT5 antiprotons

NT3 beauty baryons

NT4 lambda b neutral baryons

NT3 charmed baryons

NT4 lambda c-2625 baryons

NT4 lambda c plus baryons

NT4 omega c neutral baryons

NT4 sigma c-2455 baryons

NT4 xi c neutral baryons

NT4 xi c plus baryons

NT3 dibaryons

NT4 dineutrons

NT4 diprotons

NT4 lambda-n-2130 dibaryons

NT4 nn-2170 dibaryons

NT4 nn-2250 dibaryons

NT3 hyperons

NT4 antihyperons

NT5 antilambda particles

NT5 antiomega particles

NT5 antisigma particles

NT5 antixi particles

NT4 lambda baryons

NT5 lambda-1405 baryons

NT5 lambda-1520 baryons

NT5 lambda-1600 baryons

NT5 lambda-1670 baryons

NT5 lambda-1690 baryons

NT5 lambda-1800 baryons

NT5 lambda-1810 baryons

NT5 lambda-1820 baryons

NT5 lambda-1830 baryons

NT5 lambda-1890 baryons

NT5 lambda-2100 baryons

NT5 lambda-2110 baryons

NT5 lambda particles

NT6 antilambda particles

NT4 lambda-n-2130 dibaryons

NT4 omega baryons

NT5 omega-2250 baryons

NT5 omega particles

NT6 antiomega particles

NT6 omega minus particles

NT4 sigma baryons

NT5 sigma-1385 baryons

NT5 sigma-1660 baryons

NT5 sigma-1670 baryons

NT5 sigma-1750 baryons

NT5 sigma-1775 baryons

NT5 sigma-1775 baryons

NT5 sigma-1915 baryons

NT5 sigma-1940 baryons

NT5 sigma-2030 baryons

NT5 sigma-2455 baryons

NT5 sigma particles

NT6 antisigma particles

NT6 sigma minus particles

NT6 sigma neutral particles

NT6 sigma plus particles

NT4 xi baryons

NT5 xi-1530 baryons

NT5 xi-1690 baryons

NT5 xi-1820 baryons

NT5 xi-1950 baryons

NT5 xi-2030 baryons

- NT5** xi-2250 baryons  
**NT5** xi-2500 baryons  
**NT5** xi particles  
**NT6** antixi particles  
**NT6** xi minus particles  
**NT6** xi neutral particles  
**NT4** z\*baryons  
**NT3** n\*baryons  
**NT4** delta baryons  
**NT5** delta-1232 baryons  
**NT5** delta-1600 baryons  
**NT5** delta-1620 baryons  
**NT5** delta-1700 baryons  
**NT5** delta-1900 baryons  
**NT5** delta-1905 baryons  
**NT5** delta-1910 baryons  
**NT5** delta-1920 baryons  
**NT5** delta-1930 baryons  
**NT5** delta-1950 baryons  
**NT5** delta-2000 baryons  
**NT5** delta-2150 baryons  
**NT5** delta-2200 baryons  
**NT5** delta-2400 baryons  
**NT5** delta-2420 baryons  
**NT5** delta-3000 baryons  
**NT4** n baryons  
**NT5** n-1440 baryons  
**NT5** n-1520 baryons  
**NT5** n-1535 baryons  
**NT5** n-1650 baryons  
**NT5** n-1675 baryons  
**NT5** n-1680 baryons  
**NT5** n-1700 baryons  
**NT5** n-1710 baryons  
**NT5** n-1720 baryons  
**NT5** n-1960 baryons  
**NT5** n-1990 baryons  
**NT5** n-2000 baryons  
**NT5** n-2080 baryons  
**NT5** n-2100 baryons  
**NT5** n-2190 baryons  
**NT5** n-2250 baryons  
**NT5** n-3000 baryons  
**NT3** nucleons  
**NT4** antineutrons  
**NT5** antineutrons  
**NT5** antiprotons  
**NT4** neutrons  
**NT5** antineutrons  
**NT5** beta-delayed neutrons  
**NT5** cold neutrons  
**NT6** ultracold neutrons  
**NT5** cosmic neutrons  
**NT5** epithermal neutrons  
**NT5** fast neutrons  
**NT5** fission neutrons  
**NT6** delayed neutrons  
**NT6** prompt neutrons  
**NT5** intermediate neutrons  
**NT5** photoneutrons  
**NT5** pile neutrons  
**NT5** polynutrons  
**NT6** dineutrons  
**NT6** tetra-neutrons  
**NT6** trineutrons  
**NT5** resonance neutrons  
**NT5** slow neutrons  
**NT5** solar neutrons  
**NT5** thermal neutrons  
**NT4** photonucleons  
**NT5** photoneutrons  
**NT5** photoprotons  
**NT4** protons  
**NT5** antiprotons  
**NT5** cosmic protons  
**NT5** delayed protons  
**NT5** diprotons  
**NT5** photoprotons  
**NT5** prompt protons  
**NT5** solar protons  
**NT5** trapped protons  
**NT2** mesons  
**NT3** antimesons  
**NT4** pseudoscalar antimesons  
**NT5** anti-b neutral mesons  
**NT5** anti-d neutral mesons  
**NT3** axial vector mesons  
**NT4** a1-1260 mesons  
**NT4** b1-1235 mesons  
**NT4** chi b1-9890 mesons  
**NT4** chi1-3510 mesons  
**NT4** d s-2536 mesons  
**NT4** d1-2420 mesons  
**NT4** f1-1285 mesons  
**NT4** f1-1420 mesons  
**NT4** f1-1510 mesons  
**NT4** h1-1170 mesons  
**NT4** k1-1270 mesons  
**NT4** k1-1400 mesons  
**NT3** baryonium  
**NT3** beauty mesons  
**NT4** b c mesons  
**NT4** b mesons  
**NT5** b minus mesons  
**NT5** b neutral mesons  
**NT6** anti-b neutral mesons  
**NT5** b plus mesons  
**NT4** b s mesons  
**NT4** b\*-5325 mesons  
**NT3** bottomonium  
**NT4** chi b0-10235 mesons  
**NT4** chi b0-9860 mesons  
**NT4** chi b1-10255 mesons  
**NT4** chi b1-9890 mesons  
**NT4** chi b2-10270 mesons  
**NT4** chi b2-9915 mesons  
**NT4** upsilon-110223 mesons  
**NT4** upsilon-10355 mesons  
**NT4** upsilon-10580 mesons  
**NT4** upsilon-10860 mesons  
**NT4** upsilon-11020 mesons  
**NT4** upsilon-9460 mesons  
**NT3** charmed mesons  
**NT4** b c mesons  
**NT4** d mesons  
**NT5** d minus mesons  
**NT5** d neutral mesons  
**NT6** anti-d neutral mesons  
**NT5** d plus mesons  
**NT4** d s-2536 mesons  
**NT4** d s mesons  
**NT4** d\*-2010 mesons  
**NT4** d\*2-2460 mesons  
**NT4** d\*s-2110 mesons  
**NT4** d1-2420 mesons  
**NT3** charmonium  
**NT4** chi0-3415 mesons  
**NT4** chi1-3510 mesons  
**NT4** chi2-3555 mesons  
**NT4** eta c-2980 mesons  
**NT4** eta c-3590 mesons  
**NT4** j psi-3097 mesons  
**NT4** psi-3685 mesons  
**NT4** psi-3770 mesons  
**NT4** psi-4040 mesons  
**NT4** psi-4160 mesons  
**NT4** psi-4415 mesons  
**NT3** pseudoscalar mesons  
**NT4** b c mesons  
**NT4** b mesons  
**NT5** b minus mesons  
**NT5** b neutral mesons  
**NT6** anti-b neutral mesons  
**NT5** b plus mesons  
**NT4** b s mesons  
**NT4** d mesons  
**NT5** d minus mesons  
**NT5** d neutral mesons  
**NT6** anti-d neutral mesons  
**NT5** d plus mesons  
**NT4** eta-1295 mesons  
**NT4** eta-1440 mesons  
**NT4** eta c-2980 mesons  
**NT4** eta mesons  
**NT4** eta prime-958 mesons  
**NT4** k-1460 mesons  
**NT4** k-1830 mesons  
**NT4** kaons  
**NT5** antikaons  
**NT6** antikaons neutral  
**NT5** cosmic kaons  
**NT5** kaons minus  
**NT5** kaons neutral  
**NT6** antikaons neutral  
**NT6** kaons neutral long-lived  
**NT6** kaons neutral short-lived  
**NT5** kaons plus  
**NT4** pi-1300 mesons  
**NT4** pi-1770 mesons  
**NT4** pions  
**NT5** cosmic pions  
**NT5** pions minus  
**NT5** pions neutral  
**NT5** pions plus  
**NT4** pseudoscalar antimesons  
**NT5** anti-b neutral mesons  
**NT5** anti-d neutral mesons  
**NT3** scalar mesons  
**NT4** a0-980 mesons  
**NT4** chi0-3415 mesons  
**NT4** f0-1240 mesons  
**NT4** f0-1300 mesons  
**NT4** f0-1590 mesons  
**NT4** f0-1730 mesons  
**NT4** f0-980 mesons  
**NT4** k\*0-1430 mesons  
**NT3** strange mesons  
**NT4** b s mesons  
**NT4** d s-2536 mesons  
**NT4** d s mesons  
**NT4** d\*s-2110 mesons  
**NT4** k-1460 mesons  
**NT4** k-1830 mesons  
**NT4** k\*-1410 mesons  
**NT4** k\*-1680 mesons  
**NT4** k\*-892 mesons  
**NT4** k\*0-1430 mesons  
**NT4** k\*2-1430 mesons  
**NT4** k\*3-1780 mesons  
**NT4** k\*4-2045 mesons  
**NT4** k1-1270 mesons  
**NT4** k1-1400 mesons  
**NT4** k2-1770 mesons  
**NT4** k2-1820 mesons  
**NT4** kaons  
**NT5** antikaons  
**NT6** antikaons neutral  
**NT5** cosmic kaons  
**NT5** kaons minus  
**NT5** kaons neutral  
**NT6** antikaons neutral  
**NT6** kaons neutral long-lived  
**NT6** kaons neutral short-lived  
**NT5** kaons plus  
**NT3** strangeonium  
**NT4** f2 prime-1525 mesons  
**NT4** phi-1020 mesons  
**NT4** phi-1680 mesons  
**NT4** phi3-1850 mesons  
**NT3** tensor mesons  
**NT4** a2-1320 mesons  
**NT4** a4-2040 mesons  
**NT4** a6-2450 mesons  
**NT4** chi b2-9915 mesons  
**NT4** chi2-3555 mesons  
**NT4** d\*2-2460 mesons

- NT4 f2-1270 mesons  
 NT4 f2-1430 mesons  
 NT4 f2-1720 mesons  
 NT4 f2-1810 mesons  
 NT4 f2-2010 mesons  
 NT4 f2-2300 mesons  
 NT4 f2-2340 mesons  
 NT4 f2 prime-1525 mesons  
 NT4 f4-2050 mesons  
 NT4 f4-2300 mesons  
 NT4 f6-2510 mesons  
 NT4 k\*2-1430 mesons  
 NT4 k\*3-1780 mesons  
 NT4 k\*4-2045 mesons  
 NT4 k2-1770 mesons  
 NT4 k2-1820 mesons  
 NT4 omega3-1670 mesons  
 NT4 phi3-1850 mesons  
 NT4 pi2-1670 mesons  
 NT4 pi2-2100 mesons  
 NT4 rho3-1690 mesons  
 NT4 rho3-2250 mesons  
 NT4 rho5-2350 mesons  
 NT3 toponium  
 NT3 vector mesons  
 NT4 b\*-5325 mesons  
 NT4 d\*-2010 mesons  
 NT4 j psi-3097 mesons  
 NT4 k\*-1410 mesons  
 NT4 k\*-1680 mesons  
 NT4 k\*-892 mesons  
 NT4 omega-1420 mesons  
 NT4 omega-1600 mesons  
 NT4 omega-782 mesons  
 NT4 phi-1020 mesons  
 NT4 phi-1680 mesons  
 NT4 psi-3685 mesons  
 NT4 psi-3770 mesons  
 NT4 psi-4040 mesons  
 NT4 psi-4160 mesons  
 NT4 psi-4415 mesons  
 NT4 rho-1450 mesons  
 NT4 rho-1700 mesons  
 NT4 rho-2150 mesons  
 NT4 rho-770 mesons  
 NT4 upsilon-10023 mesons  
 NT4 upsilon-10355 mesons  
 NT4 upsilon-10580 mesons  
 NT4 upsilon-10860 mesons  
 NT4 upsilon-11020 mesons  
 NT4 upsilon-9460 mesons  
 NT3 x-1700 mesons  
 NT3 x-1935 mesons  
 NT3 x-2220 mesons  
 NT3 x-3075 mesons  
 NT2 resonance particles  
 NT3 exotic resonances  
 NT1 intermediate bosons  
 NT2 intermediate vector bosons  
 NT3 w minus bosons  
 NT3 w plus bosons  
 NT3 z neutral bosons  
 NT1 leading particles  
 NT1 leptons  
 NT2 antileptons  
 NT3 antineutrinos  
 NT4 electron antineutrinos  
 NT4 muon antineutrinos  
 NT3 muons plus  
 NT3 positrons  
 NT4 cosmic positrons  
 NT2 electrons  
 NT3 cosmic electrons  
 NT3 exoelectrons  
 NT3 prompt electrons  
 NT3 runaway electrons  
 NT3 solar electrons  
 NT3 solvated electrons  
 NT3 tail electrons  
 NT3 trapped electrons  
 NT2 heavy leptons  
 NT3 heavy neutral muons  
 NT3 tau neutrinos  
 NT3 tau particles  
 NT2 muons  
 NT3 cosmic muons  
 NT3 muons minus  
 NT3 muons plus  
 NT2 neutrinos  
 NT3 antineutrinos  
 NT4 electron antineutrinos  
 NT4 muon antineutrinos  
 NT3 cosmic neutrinos  
 NT3 electron neutrinos  
 NT4 electron antineutrinos  
 NT3 muon neutrinos  
 NT4 muon antineutrinos  
 NT3 solar neutrinos  
 NT3 tau neutrinos  
 NT1 massless particles  
 NT2 gravitons  
 NT2 neutrinos  
 NT3 antineutrinos  
 NT4 electron antineutrinos  
 NT4 muon antineutrinos  
 NT3 cosmic neutrinos  
 NT3 electron neutrinos  
 NT4 electron antineutrinos  
 NT3 muon neutrinos  
 NT4 muon antineutrinos  
 NT3 solar neutrinos  
 NT3 tau neutrinos  
 NT1 postulated particles  
 NT2 dyons  
 NT2 goldstone bosons  
 NT3 axions  
 NT2 gravitons  
 NT2 heavy neutral muons  
 NT2 higgs bosons  
 NT2 magnetic monopoles  
 NT2 preons  
 NT2 sparticles  
 NT2 spurions  
 NT2 tachyons  
 NT2 top particles  
 NT3 t quarks  
 NT1 strange particles  
 NT2 hyperons  
 NT3 antihyperons  
 NT4 antilambda particles  
 NT4 antiomega particles  
 NT4 antisigma particles  
 NT4 antixi particles  
 NT3 lambda baryons  
 NT4 lambda-1405 baryons  
 NT4 lambda-1520 baryons  
 NT4 lambda-1600 baryons  
 NT4 lambda-1670 baryons  
 NT4 lambda-1690 baryons  
 NT4 lambda-1800 baryons  
 NT4 lambda-1810 baryons  
 NT4 lambda-1820 baryons  
 NT4 lambda-1830 baryons  
 NT4 lambda-1890 baryons  
 NT4 lambda-2100 baryons  
 NT4 lambda-2110 baryons  
 NT4 lambda particles  
 NT5 antilambda particles  
 NT3 lambda-baryons  
 NT3 omega baryons  
 NT4 omega-2250 baryons  
 NT4 omega particles  
 NT5 antiomega particles  
 NT5 omega minus particles  
 NT3 sigma baryons  
 NT4 sigma-1385 baryons  
 NT4 sigma-1660 baryons  
 NT4 sigma-1670 baryons  
 NT4 sigma-1750 baryons  
 NT4 sigma-1770 baryons  
 NT4 sigma-1775 baryons  
 NT4 sigma-1915 baryons  
 NT4 sigma-1940 baryons  
 NT4 sigma-2030 baryons  
 NT4 sigma-2455 baryons  
 NT4 sigma particles  
 NT5 antisigma particles  
 NT5 sigma minus particles  
 NT5 sigma neutral particles  
 NT5 sigma plus particles  
 NT3 xi baryons  
 NT4 xi-1530 baryons  
 NT4 xi-1690 baryons  
 NT4 xi-1820 baryons  
 NT4 xi-1950 baryons  
 NT4 xi-2030 baryons  
 NT4 xi-2250 baryons  
 NT4 xi-2500 baryons  
 NT4 xi particles  
 NT5 antixi particles  
 NT5 xi minus particles  
 NT5 xi neutral particles  
 NT3 z\*baryons  
 NT2 s quarks  
 NT2 spurions  
 NT2 strange mesons  
 NT3 b s mesons  
 NT3 d s-2536 mesons  
 NT3 d s mesons  
 NT3 d\*s-2110 mesons  
 NT3 k-1460 mesons  
 NT3 k-1830 mesons  
 NT3 k\*-1410 mesons  
 NT3 k\*-1680 mesons  
 NT3 k\*-892 mesons  
 NT3 k\*0-1430 mesons  
 NT3 k\*2-1430 mesons  
 NT3 k\*3-1780 mesons  
 NT3 k\*4-2045 mesons  
 NT3 k1-1270 mesons  
 NT3 k1-1400 mesons  
 NT3 k2-1770 mesons  
 NT3 k2-1820 mesons  
 NT3 kaons  
 NT4 antikaons  
 NT5 antikaons neutral  
 NT4 cosmic kaons  
 NT4 kaons minus  
 NT4 kaons neutral  
 NT5 antikaons neutral  
 NT5 kaons neutral long-lived  
 NT5 kaons neutral short-lived  
 NT4 kaons plus  
 NT1 virtual particles  
 RT charged-particle transport theory  
 RT fundamental constants  
 RT schwinger source theory

## ELEMENTS

*For chemical elements only.*

*UF trace elements*

*NT1 metals*

- NT2 actinides  
 NT3 actinium  
 NT3 americium  
 NT3 berkelium  
 NT3 californium  
 NT3 curium  
 NT3 einsteinium  
 NT3 fermium  
 NT3 lawrencium  
 NT3 mendeleevium  
 NT3 neptunium  
 NT4 neptunium-alpha  
 NT4 neptunium-gamma

NT3 nobelium  
 NT3 plutonium  
   NT4 plutonium-alpha  
   NT4 plutonium-beta  
   NT4 plutonium-delta  
   NT4 plutonium-epsilon  
   NT4 plutonium-gamma  
 NT3 protactinium  
 NT3 thorium  
   NT4 thorium-alpha  
   NT4 thorium-beta  
 NT3 uranium  
   NT4 depleted uranium  
   NT4 enriched uranium  
   NT5 highly enriched uranium  
   NT5 moderately enriched uranium  
   NT5 slightly enriched uranium  
   NT4 natural uranium  
   NT4 uranium-alpha  
   NT4 uranium-beta  
   NT4 uranium-gamma  
 NT2 alkali metals  
 NT3 cesium  
 NT3 francium  
 NT3 lithium  
 NT3 potassium  
 NT3 rubidium  
 NT3 sodium  
 NT2 alkaline earth metals  
   NT3 barium  
   NT3 beryllium  
   NT3 calcium  
   NT3 magnesium  
   NT3 radium  
   NT3 strontium  
 NT2 aluminium  
 NT2 antimony  
 NT2 bismuth  
 NT2 cadmium  
 NT2 gallium  
 NT2 germanium  
 NT2 heavy metals  
 NT2 indium  
 NT2 lead  
 NT2 liquid metals  
 NT2 mercury  
 NT2 polonium  
 NT2 rare earths  
   NT3 cerium  
     NT4 cerium-alpha  
     NT4 cerium-beta  
     NT4 cerium-gamma  
   NT3 dysprosium  
   NT3 erbium  
   NT3 europium  
   NT3 gadolinium  
   NT3 holmium  
   NT3 lanthanum  
   NT3 lutetium  
   NT3 neodymium  
   NT3 praseodymium  
   NT3 promethium  
   NT3 samarium  
   NT3 terbium  
   NT3 thulium  
   NT3 ytterbium  
 NT2 refractory metals  
   NT3 hafnium  
     NT4 hafnium-alpha  
     NT4 hafnium-beta  
   NT3 iridium  
   NT3 molybdenum  
   NT3 niobium  
     NT4 niobium-alpha  
     NT4 niobium-beta  
   NT3 osmium  
   NT3 rhenium  
   NT3 rhodium  
   NT3 ruthenium

NT3 tantalum  
 NT3 technetium  
 NT3 tungsten  
   NT4 tungsten-alpha  
 NT2 scrap metals  
 NT2 thallium  
 NT2 tin  
 NT2 transition elements  
   NT3 chromium  
   NT3 cobalt  
   NT3 copper  
   NT3 gold  
   NT3 hafnium  
     NT4 hafnium-alpha  
     NT4 hafnium-beta  
   NT3 iron  
     NT4 iron-alpha  
     NT4 iron-delta  
     NT4 iron-gamma  
   NT3 manganese  
     NT4 manganese-alpha  
   NT3 molybdenum  
   NT3 nickel  
   NT3 niobium  
     NT4 niobium-alpha  
     NT4 niobium-beta  
   NT3 platinum metals  
     NT4 iridium  
     NT4 osmium  
     NT4 palladium  
     NT4 platinum  
     NT4 rhodium  
     NT4 ruthenium  
   NT3 rhenium  
   NT3 scandium  
   NT3 silver  
   NT3 tantalum  
   NT3 technetium  
   NT3 titanium  
     NT4 titanium-alpha  
     NT4 titanium-beta  
   NT3 tungsten  
     NT4 tungsten-alpha  
   NT3 vanadium  
   NT3 yttrium  
   NT3 zirconium  
     NT4 zirconium-alpha  
     NT4 zirconium-beta  
     NT4 zirconium-omega  
 NT2 zinc  
 NT1 nonmetals  
   NT2 carbon  
     NT3 activated carbon  
     NT3 carbon black  
     NT3 carbynes  
     NT3 diamonds  
     NT3 fullerenes  
     NT3 graphite  
     NT3 pyrolytic carbon  
   NT2 halogens  
     NT3 astatine  
     NT3 bromine  
     NT3 chlorine  
     NT3 fluorine  
     NT3 iodine  
   NT2 hydrogen  
   NT2 nitrogen  
   NT2 oxygen  
   NT2 phosphorus  
   NT2 rare gases  
     NT3 argon  
     NT3 helium  
     NT3 krypton  
     NT3 neon  
     NT3 radon  
     NT3 xenon  
   NT2 sulfur  
 NT1 semimetals  
   NT2 arsenic

NT2 boron  
 NT2 selenium  
 NT2 silicon  
 NT2 tellurium  
 NT1 transuranium elements  
   NT2 neptunium  
     NT3 neptunium-alpha  
     NT3 neptunium-gamma  
   NT2 plutonium  
     NT3 plutonium-alpha  
     NT3 plutonium-beta  
     NT3 plutonium-delta  
     NT3 plutonium-epsilon  
     NT3 plutonium-gamma  
   NT2 transplutonium elements  
     NT3 americium  
     NT3 berkelium  
     NT3 californium  
     NT3 curium  
     NT3 einsteinium  
     NT3 fermium  
     NT3 lawrencium  
     NT3 mendelevium  
     NT3 nobelium  
   NT3 transactinide elements  
     NT4 bohrium  
     NT4 darmstadtium  
     NT4 dubnium  
     NT4 element 112  
     NT4 element 113  
     NT4 element 114  
     NT4 element 115  
     NT4 element 116  
     NT4 element 117  
     NT4 element 118  
     NT4 element 119  
     NT4 element 120  
     NT4 element 126  
     NT4 element 128  
     NT4 element 134  
     NT4 element 145  
     NT4 element 164  
     NT4 element 173  
     NT4 hassium  
     NT4 meitnerium  
     NT4 roentgenium  
     NT4 rutherfordium  
     NT4 seaborgium  
 RT periodic system

**elevation**

INIS: 2000-04-12; ETDE: 1976-10-13  
 USE levels

**ELEVATORS**

2006-09-25  
 UF lifts  
 RT buildings  
 RT occupants

**eliashberg equations**

INIS: 1977-07-05; ETDE: 1976-01-07  
 USE gorkov-eliashberg theory

**elisa**

INIS: 1991-09-19; ETDE: 2002-06-13  
 Enzyme-Linked Immunosorbent Assay.  
 USE enzyme immunoassay

**elk river reactor**

USE err reactor

**ELLIOT LAKE**

\*BT1 ontario  
 RT stanleigh mine

**ELLIOT MODEL**

\*BT1 nuclear models  
 RT shell models

**ELLIPSOMETERS**

INIS: 1993-05-07; ETDE: 1979-02-23

Instruments for determining the ellipticity of polarized light. Used to measure the thickness of very thin transparent films.

- BT1 measuring instruments
- BT1 polarimeters

**ELLIPSOmetry**

INIS: 1993-05-07; ETDE: 1981-03-16

- BT1 measuring methods

**ELLIPTICAL CONFIGURATION**

- BT1 configuration

**ELLSWORTHITE**

2000-04-12

- \*BT1 oxide minerals
- \*BT1 uranium minerals
- RT calcium oxides
- RT niobium oxides
- RT uranium oxides

**elm (plasma physics)**

INIS: 1989-12-07; ETDE: 1990-01-03

- USE edge localized modes

**elmax devices**

2000-04-12

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE magnetic mirrors

**elmo bumpy square**

INIS: 2000-04-12; ETDE: 1986-04-11

An ELMO bumpy square consists of four straight magnetic mirror arrays linked by curved high-field corner coils. The bumpy square is a reconfiguration of the ELMO bumpy torus.

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE elmo devices

**ELMO BUMPY TORUS**

- \*BT1 bumpy tori
- \*BT1 elmo devices

**ELMO DEVICES**

UF elmo bumpy square

- \*BT1 magnetic mirrors
- NT1 elmo bumpy torus

**ELONGATION**

- BT1 deformation
- RT expansion
- RT thermal expansion

**elpidite**

1996-06-26

(Until June 1996 this was a valid descriptor.)

- USE silicate minerals

**elution (insoluble particles)**

- USE elutriation

**elution (soluble constituents)**

- USE leaching

**ELUTRIATION**

- UF elution (insoluble particles)
- BT1 separation processes
- RT dispersions
- RT dusts
- RT particle size
- RT particles
- RT powders
- RT sampling

**EMANATION METHOD**

- NT1 emanation thermal analysis
- RT materials testing
- RT radiochemistry

- RT rare gases

**EMANATION THERMAL ANALYSIS**

- BT1 emanation method
- BT1 thermal analysis
- RT rare gases

**EMANOMETERS**

- UF radon monitors
- \*BT1 radiation detectors

**EMBALSE REACTOR**

INIS: 1992-06-30; ETDE: 1992-07-10

Embalse, Cordoba, Argentina.

- \*BT1 candu type reactors

**EMBANKMENTS**

INIS: 1999-03-15; ETDE: 1975-10-01

- RT dams
- RT soils

**EMBARGOES**

INIS: 1993-03-24; ETDE: 1978-03-08

Orders or edicts of a government prohibiting the departure or entry of goods within its domains; orders issued by common carrier or public regulatory agency prohibiting the acceptance of goods.

- RT cartels
- RT foreign policy
- RT international cooperation
- RT supply disruption
- RT trade

**embezzlement**

INIS: 2000-04-12; ETDE: 1983-03-23

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE theft

**EMBOLI**

- RT blood circulation
- RT blood flow
- RT blood vessels
- RT cardiovascular diseases
- RT vascular diseases

**EMBRITTLEMENT**

- NT1 helium embrittlement
- NT1 hydrogen embrittlement
- RT brittle-ductile transitions
- RT brittleness
- RT ductile-brittle transitions

**EMBRYONIC CELLS**

- UF amnion cells
- BT1 animal cells
- RT embryos

**embryonic development**

INIS: 2000-04-12; ETDE: 1976-12-15

- USE ontogenesis

**EMBRYOS**

- NT1 zygotes
- RT age groups
- RT amniotic fluid
- RT carcinoembryonic antigen
- RT embryonic cells
- RT fetal membranes
- RT fetuses
- RT ontogenesis
- RT pregnancy
- RT prenatal irradiation
- RT reproduction
- RT uterus

**EMC EFFECT**

INIS: 1985-11-19; ETDE: 1985-06-25

The unexpected variation of the structure functions of nucleons bound in nuclei as compared with the structure functions of nucleons bound in the deuteron.

- UF european muon collaboration effect
- RT deep inelastic scattering
- RT lepton reactions
- RT particle structure
- RT structure functions

**emergencies**

- USE accidents

**emergency core cooling system**

- USE eccs

**emergency energy conservation act**

INIS: 2000-04-12; ETDE: 1979-12-17

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE emergency plans
- USE energy conservation

**emergency petroleum allocation act**

INIS: 2000-04-12; ETDE: 1979-11-23

(Prior to February 1995, this was a valid ETDE descriptor.)

- SEE emergency plans

**EMERGENCY PLANS**

1995-05-10

(Prior to August 1985 EMERGENCY PROVISIONS was used.)

- UF emergency energy conservation act
- UF emergency provisions
- SF emergency petroleum allocation act
- RT evacuation
- RT external zones
- RT international nuclear event scale
- RT planning
- RT radiation accidents
- RT reactor accidents
- RT safety
- RT us emergency preparedness act

**emergency preparedness act**

INIS: 2000-04-12; ETDE: 1983-04-07

(Prior to February 1992 this was a valid ETDE descriptor.)

- USE us emergency preparedness act

**emergency provisions**

INIS: 1985-07-18; ETDE: 1977-08-25

(Prior to August 1985 this was a valid descriptor.)

- USE emergency plans

**emergency rods**

- USE scram rods

**emergency showers**

- USE safety showers

**emergency shutdown**

- USE scram

**emery operation**

INIS: 2000-04-12; ETDE: 1979-11-23

(Prior to February 1995, this was a valid ETDE descriptor.)

- USE nuclear explosions
- USE underground explosions

**emf**

- USE electromotive force

**EMINENT DOMAIN**

INIS: 2000-04-12; ETDE: 1979-05-25

The right of a government to take private property for public use by virtue of the



*superior dominion of the sovereign power over all lands within its jurisdiction.*

- RT land use  
RT legal aspects  
RT rights-of-way

**EMISSION**

- NT1 electron emission  
NT2 photoelectric emission  
NT1 field emission  
NT1 ion emission  
NT1 neutron emission  
NT1 photon emission  
NT2 luminescence  
NT3 bioluminescence  
NT3 cathodoluminescence  
NT3 chemiluminescence  
NT3 electroluminescence  
NT3 fluorescence  
NT4 resonance fluorescence  
NT3 lyoluminescence  
NT3 phosphorescence  
NT3 photoluminescence  
NT3 radioluminescence  
NT4 radiothermoluminescence  
NT3 thermoluminescence  
NT4 radiothermoluminescence  
NT2 superradiance  
NT1 secondary emission  
NT2 photoemission  
NT1 stimulated emission  
NT2 superradiance  
NT1 thermionic emission  
RT angular distribution  
RT emission spectra  
RT stationary pollutant sources

**emission (cooperative spontaneous)**

INIS: 1993-11-05; ETDE: 2002-06-13  
USE superradiance

**emission (electron)**

2000-04-12  
USE electron emission

**EMISSION COMPUTED TOMOGRAPHY**

INIS: 1980-04-02; ETDE: 1980-05-07  
\*BT1 computerized tomography  
NT1 ecat scanning  
NT1 positron computed tomography  
NT1 single photon emission computed tomography  
RT biomedical radiography  
RT gamma cameras  
RT photon emission scanning  
RT positron cameras  
RT radioisotope scanning

**emission computer axial tomography scanning**

INIS: 2000-04-12; ETDE: 1979-09-06  
USE ecat scanning

**EMISSION SPECTRA**

- BT1 spectra  
RT emission

**EMISSION SPECTROSCOPY**

UF flame spectrometry  
SF spectrochemistry  
BT1 spectroscopy  
NT1 fluorescence spectroscopy  
RT cathodoluminescence  
RT fourier transform spectrometers  
RT qualitative chemical analysis  
RT quantitative chemical analysis

**emissions (industrial)**

2003-08-26  
SEE exhaust gases

- SEE industrial wastes  
SEE liquid wastes  
SEE plumes  
SEE solid wastes  
SEE thermal effluents

**emissions rights trading**

2003-08-26  
USE emissions trading

**EMISSIONS TAX**

2003-08-27  
*Tax on the amount of pollution produced.*  
BT1 taxes  
RT climatic change  
RT emissions trading  
RT environmental policy  
RT exhaust gases  
RT greenhouse gases  
RT industrial wastes  
RT kyoto protocol  
RT liquid wastes  
RT plumes  
RT pollution  
RT rio declaration  
RT solid wastes  
RT thermal effluents

**EMISSIONS TRADING**

2003-08-26  
*Regulatory program that permits generators of pollution the option to exchange emission allowances as a cost-effective solution to achieve environmental goals.*  
UF emissions rights trading  
\*BT1 environmental policy  
RT allocations  
RT charges  
RT climatic change  
RT emissions tax  
RT energy policy  
RT exhaust gases  
RT greenhouse gases  
RT industrial wastes  
RT kyoto protocol  
RT pollution  
RT rio declaration

**EMISSIONIVITY**

UF spectral flame radiance  
\*BT1 optical properties  
BT1 surface properties  
RT blackbody radiation  
RT radiant heat transfer

**emittance (beam)**

USE beam emittance

**eml**

INIS: 2000-04-12; ETDE: 1984-07-20  
SEE environmental measurements laboratory

**emp**

USE electromagnetic pulses

**EMPHYSEMA**

INIS: 1979-01-18; ETDE: 1977-11-29  
BT1 pathological changes  
\*BT1 respiratory system diseases  
RT lungs

**emplacement**

1984-02-22  
*The positioning or locating of an object in a particular place as, e.g., the emplacement of a nuclear explosive device within a borehole.*  
USE positioning

**employees**

USE personnel

**EMPLOYMENT**

INIS: 1996-05-14; ETDE: 1977-08-09  
*Number of workers employed.*  
UF unemployment  
SF labor  
RT manpower  
RT occupations  
RT us affirmative action program  
RT work  
RT working days

**ems (ethyl methanesulfonate)**

ETDE: 2005-01-28  
(Prior to January 2005 EMS was a valid descriptor.)  
USE ethyl methanesulfonate

**EMSLAND REACTOR**

INIS: 1980-02-26; ETDE: 1980-03-29  
*Lingen, Niedersachsen, Federal Republic of Germany.*  
UF kernkraftwerk emsland  
\*BT1 pwr type reactors

**EMULSIFICATION**

1992-03-17  
RT demulsification  
RT demulsifiers  
RT emulsifiers  
RT emulsions

**EMULSIFIERS**

BT1 additives  
NT1 detergents  
NT2 pluronics  
RT demulsification  
RT demulsifiers  
RT emulsification  
RT emulsions  
RT soaps

**EMULSIONS**

\*BT1 colloids  
NT1 microemulsions  
NT1 photographic emulsions  
RT demulsification  
RT demulsifiers  
RT emulsification  
RT emulsifiers  
RT latex

**ENAMELS**

BT1 coatings  
RT ceramics

**enanthic acid**

USE heptanoic acid

**ENANTIOMORPHS**

INIS: 1994-06-27; ETDE: 1976-02-19  
*Pair of chemical compounds or crystals whose molecular structures have a mirror-image relationship to each other.*  
UF chiral molecules  
UF dextro and levo optical isomers  
UF optical antipodes  
UF optical isomers  
BT1 isomers  
RT stereochemistry

**ENCAPSULATION**

INIS: 1978-11-24; ETDE: 1978-04-27  
*May be used for biological systems, radioactive waste processing, etc.*  
RT capsules  
RT potting  
RT potting materials  
RT radioactive waste processing

**ENCEPHALITIS**

\*BT1 nervous system diseases  
RT brain

RT viral diseases

## END EFFECTS

1982-11-29

UF end losses  
RT electromagnetic lenses  
RT magnetic fields  
RT mhd generators  
RT wall effects

### end losses

INIS: 1982-11-29; ETDE: 2002-06-13  
USE end effects

### end use sector

INIS: 2000-04-12; ETDE: 1979-05-03  
See specific entries such as those listed below.  
SEE commercial sector  
SEE industry  
SEE residential sector  
SEE transportation sector

## ENDANGERED SPECIES

INIS: 1991-10-11; ETDE: 1976-03-22  
A species in danger of extinction in all or a significant part of its range.

RT animals  
RT biological extinction  
RT plants

## endf

INIS: 1994-07-01; ETDE: 1983-03-23  
Evaluated Nuclear Data File.  
USE nuclear data collections

## ENDOCRINE DISEASES

BT1 diseases  
NT1 acromegaly  
NT1 cushing syndrome  
NT1 diabetes mellitus  
NT1 goiter  
NT1 hyperparathyroidism  
NT1 hyperthyroidism  
NT1 hypothyroidism  
NT1 thyroiditis  
RT endocrine glands  
RT hormones  
RT menstruation disorders  
RT metabolic diseases  
RT reproductive disorders  
RT urogenital system diseases

## ENDOCRINE GLANDS

\*BT1 glands  
NT1 adrenal glands  
NT1 pancreas  
NT1 parathyroid glands  
NT1 pituitary gland  
NT1 thyroid  
RT endocrine diseases  
RT gonads  
RT homeostasis  
RT hormones  
RT hypothalamus  
RT pineal gland  
RT receptors

## endometrium

USE uterus

## ENDONUCLEASES

INIS: 1997-06-17; ETDE: 1984-06-29  
Repair enzymes which remove short segments of DNA containing a damaged nucleotide or a mismatched base pair.  
\*BT1 dna-ase  
RT contigs  
RT dna methylases  
RT dna repair  
RT gene recombination proteins  
RT nucleoproteins

RT rflps

## ENDOPLASMIC RETICULUM

1999-04-20

BT1 cell constituents  
NT1 sarcoplasmic reticulum  
RT golgi complexes

## ENDOR

UF electron nuclear double resonance  
\*BT1 magnetic resonance  
RT double resonance methods

## ENDORPHINS

INIS: 1982-09-21; ETDE: 1981-04-20  
\*BT1 neuroregulators  
\*BT1 polypeptides  
NT1 enkephalins  
RT brain  
RT central nervous system depressants

## ENDOSPERM

BT1 plant tissues  
RT seeds

## endosteum

USE bone tissues

## ENDOTHELINS

2003-11-05  
\*BT1 polypeptides  
RT endothelium  
RT vasoconstrictors

## ENDOTHELIUM

\*BT1 animal tissues  
RT endothelins  
RT epithelium

## ENDOTOXINS

\*BT1 toxins  
RT bacteria  
RT infectivity  
RT polysaccharides

## ENDOXAN

UF cyclophosphamide  
BT1 alkylating agents  
\*BT1 immunosuppressive drugs  
RT immunosuppression

## ENDURO

2000-04-12  
\*BT1 chromium-nickel steels  
\*BT1 heat resisting alloys

## enea

1995-03-28  
European Nuclear Energy Agency.  
(Until March 1995 this was a valid descriptor. Name changed to OECD Nuclear Energy Agency in April 1972 and more recent material should have been indexed to NEA.)  
USE nea

## enea italy

INIS: 1985-03-15; ETDE: 2002-06-13  
Comitato Nazionale per la Ricerca e lo Sviluppo dell'Energia Nucleare e delle Energie Alternative.  
USE italian enea

## ENEL-4 REACTOR

Caorso, Italy.  
UF caorso reactor  
\*BT1 bwr type reactors

## enel-6 reactor

INIS: 1985-03-15; ETDE: 1985-04-09  
USE montalto di castro-1 reactor

## enel-8 reactor

INIS: 1985-03-15; ETDE: 1985-04-09  
USE montalto di castro-2 reactor

## energetic electrons

1994-02-28  
USE tail electrons

## energetic ions

INIS: 1994-02-28; ETDE: 2002-06-13  
USE tail ions

## energetic solar particles

1985-11-18  
(Prior to December 1985 this was a valid descriptor.)  
USE solar particles

## energia nucl e altern, com naz

INIS: 1985-03-15; ETDE: 2002-06-13  
Comitato Nazionale per la Ricerca e lo Sviluppo dell'Energia Nucleare e delle Energie Alternative.  
USE italian enea

## energieonderzoek centrum nederland

INIS: 1993-11-08; ETDE: 2002-06-13  
USE ecn

## ENERGY

1996-01-24

SF energy content  
NT1 activation energy  
NT1 binding energy  
NT2 neutron separation energy  
NT2 pairing energy  
NT1 coulomb energy  
NT1 dissociation energy  
NT1 exergy  
NT1 free energy  
NT2 formation free energy  
NT2 surface energy  
NT1 free enthalpy  
NT2 formation free enthalpy  
NT2 oxygen potential  
NT1 geothermal energy  
NT1 gray energy  
NT1 heat  
NT2 absorption heat  
NT2 combustion heat  
NT2 process heat  
NT3 geothermal process heat  
NT3 solar process heat  
NT2 waste heat  
NT1 kinetic energy  
NT2 transverse energy  
NT1 net energy  
NT1 nuclear energy  
NT1 potential energy  
NT2 fission barrier  
NT1 q-value  
NT1 self-energy  
NT1 solar energy  
NT1 stored energy  
NT1 threshold energy  
RT electron temperature  
RT energy dependence  
RT energy-momentum tensor  
RT energy range  
RT energy sources  
RT ion temperature  
RT neutron temperature  
RT nuclear temperature  
RT photon temperature  
RT proton temperature  
RT radioisotope heat sources  
RT thermodynamics  
RT work functions

**ENERGY ABSORPTION**

- SF energy deposition  
 \*BT1 absorption  
 RT ionization  
 RT radiation doses

**ENERGY ACCOUNTING**

INIS: 1982-12-03; ETDE: 1977-05-07  
*Procedure of preparing an 'energy balance sheet' of all energy inputs, outputs, and losses of a process or facility; energy forms, quantities, costs, and flows through the system are considered.*

- UF energy costs  
 SF energy content  
 BT1 accounting  
 BT1 energy analysis  
 RT energy audits  
 RT energy management  
 RT energy quality  
 RT gray energy  
 RT net energy

**ENERGY ANALYSIS**

INIS: 1979-09-18; ETDE: 1977-10-20  
*Any analysis or methodology to discover how energy is used by economies.*

- NT1 energy accounting  
 NT1 energy quality  
 NT1 net energy  
 RT economic analysis  
 RT energy models  
 RT input-output analysis  
 RT systems analysis

**energy applied systems test facility**

INIS: 2000-04-12; ETDE: 1981-08-21  
 SEE savannah river plant

**ENERGY AUDITS**

INIS: 1992-03-27; ETDE: 1979-08-07  
*The analysis of a facility to determine the forms of energy used, the quantities and costs of various forms of energy used, the purposes for which the energy is used, and the identification of energy conservation opportunities.*

- SF energy content  
 BT1 audits  
 RT energy accounting  
 RT energy conservation  
 RT low-energy buildings

**ENERGY BALANCE**

For energy economics studies use ENERGY ACCOUNTING.

- UF balance (energy)  
 UF energy budgets  
 SF energy content  
 NT1 breakeven  
 RT confinement  
 RT energy recovery  
 RT energy transfer

**ENERGY BALANCE MASS****SPECTROMETERS**

- \*BT1 dynamic mass spectrometers

**ENERGY BEAM DEPOSITION**

INIS: 1999-02-15; ETDE: 1980-02-11

- UF ebd  
 UF ebd films  
 UF energy beam deposition films  
 \*BT1 surface coating

**energy beam deposition films**

INIS: 2000-04-12; ETDE: 1980-02-11  
 (Prior to February 1997 this was a valid ETDE descriptor.)

- USE energy beam deposition  
 USE thin films

**energy budgets**

INIS: 2000-04-12; ETDE: 1980-02-11  
*Input-output analysis of ecosystem bioenergetics.*  
 (Prior to February 1997 this was a valid ETDE descriptor.)

- USE ecosystems  
 USE energy balance

**energy cascade**

INIS: 2000-04-12; ETDE: 1979-01-30  
*Conservation concept starting with a high-temperature process (e.g. steel rolling mill, furnace) and with recuperation utilizes heat at progressively lower stages: gas turbine, steam turbine, process steam, and organic turbine.*  
 (Prior to February 1997 this was a valid ETDE descriptor.)

- USE waste heat utilization

**energy cascading**

INIS: 2000-04-12; ETDE: 1979-01-30  
 (Prior to February 1997 ENERGY CASCADE was used for this concept in ETDE.)

- USE waste heat utilization

**energy complexes**

INIS: 2000-04-12; ETDE: 1977-03-04  
 USE energy parks

**ENERGY CONSERVATION**

1977-10-17

*Conservation of energy resources.*

- UF conservation (energy)  
 UF emergency energy conservation act  
 RT air infiltration  
 RT carpooling  
 RT efficiency  
 RT energy audits  
 RT energy conservation and production act  
 RT energy consumption  
 RT energy efficiency  
 RT energy management  
 RT energy management systems  
 RT energy recovery  
 RT low-energy buildings  
 RT national energy conservation incentives act  
 RT national energy plans  
 RT recycling  
 RT resource conservation  
 RT resource recovery acts  
 RT solar fraction  
 RT thermal insulation  
 RT total energy systems  
 RT us energy policy and conservation act  
 RT us energy tax act  
 RT us national energy conservation policy act  
 RT us national energy plan  
 RT us public utility regulatory policies act  
 RT vanpooling  
 RT vernacular architecture

**ENERGY CONSERVATION AND PRODUCTION ACT**

INIS: 2000-04-12; ETDE: 1977-11-28

- UF ecpa  
 BT1 laws  
 RT energy conservation  
 RT energy supplies  
 RT petroleum

**ENERGY CONSUMPTION**

- NT1 fuel consumption  
 RT consumption rates  
 RT demand  
 RT demand factors

- RT energy conservation  
 RT energy efficiency  
 RT energy expenses  
 RT gas meters  
 RT life cycle assessment  
 RT net energy  
 RT per capita values  
 RT power  
 RT power meters  
 RT total energy systems  
 RT us energy tax act

**energy content**

2004-05-14

- SEE energy  
 SEE energy accounting  
 SEE energy audits  
 SEE energy balance  
 SEE gray energy  
 SEE life cycle assessment

**ENERGY CONVERSION**

- BT1 conversion  
 NT1 direct energy conversion  
 NT2 photovoltaic conversion  
 NT2 thermionic conversion  
 NT2 thermoelectric conversion  
 NT2 thermomagnetic conversion  
 NT2 thermophotovoltaic conversion  
 NT1 electrochemical energy conversion  
 NT1 geothermal energy conversion  
 NT1 heat production  
 NT1 solar energy conversion  
 NT2 ocean thermal energy conversion  
 NT2 solar thermal conversion  
 RT energy transfer  
 RT photovoltaic effect  
 RT water brakes  
 RT wave energy converters  
 RT working fluids

**energy costs**

INIS: 1982-12-03; ETDE: 1977-05-07  
 USE energy accounting

**ENERGY DEMAND**

1991-10-21

*For general reference to all forms of energy; for electric-power demand use POWER DEMAND.*

- BT1 demand  
 RT demand factors  
 RT energy efficiency  
 RT energy shortages  
 RT energy supplies  
 RT energy surpluses  
 RT power demand  
 RT supply and demand

**ENERGY DENSITY**

INIS: 1980-09-12; ETDE: 1979-04-11

- UF density (energy)  
 RT charge density  
 RT quantum mechanics

**ENERGY DEPENDENCE**

*For explicit dependence of a certain quantity or phenomenon on the energy.*

- RT energy  
 RT energy range  
 RT excitation functions  
 RT spectral response

**energy deposition**

INIS: 1982-11-29; ETDE: 1991-07-05  
 (Prior to August 00, this was a valid INIS descriptor assigned to 3658 documents.)

- SEE energy absorption  
 SEE energy losses

**energy dissipation**

USE energy losses

**energy distribution**

USE energy spectra

**ENERGY EFFICIENCY**

INIS: 1991-08-19; ETDE: 1977-06-21

BT1 efficiency  
 RT energy conservation  
 RT energy consumption  
 RT energy demand  
 RT energy efficiency standards  
 RT energy quality  
 RT energy substitution equivalent  
 RT net energy  
 RT us public utility regulatory policies act

**ENERGY EFFICIENCY STANDARDS**

INIS: 1991-08-14; ETDE: 1980-08-12

UF energy performance standards  
 BT1 standards  
 RT energy efficiency  
 RT standardization

**energy exchange**

USE energy transfer

**ENERGY EXPENSES**

INIS: 1991-12-11; ETDE: 1981-03-16

*Monetary outlays or charges for energy consumed; not for Energy Costs, for which see ENERGY ACCOUNTING.*

RT cost  
 RT economic elasticity  
 RT energy consumption  
 RT prices

**energy extension service**

INIS: 2000-04-12; ETDE: 1977-04-12

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us energy extension service

**ENERGY FACILITIES**

INIS: 1994-10-13; ETDE: 1977-06-21

UF facilities (energy)  
 NT1 resource recovery facilities  
 RT distributed structures  
 RT energy parks  
 RT ices program  
 RT maintenance facilities  
 RT modular structures  
 RT nuclear facilities  
 RT rural energy centers  
 RT storage facilities  
 RT terminal facilities  
 RT underground facilities

**ENERGY GAP**

RT band theory  
 RT superconductivity

**energy information administration**

INIS: 2000-04-12; ETDE: 1979-12-17

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us energy information administration

**energy integrated industrial parks**

INIS: 2000-04-12; ETDE: 1979-09-26

USE energy parks

**ENERGY-LEVEL DENSITY**

UF density (energy-level)  
 UF level density  
 RT energy levels  
 RT energy resolution  
 RT level widths

**energy-level schemes**

USE energy levels

**ENERGY-LEVEL TRANSITIONS**

UF electromagnetic transitions

UF transitions (energy level)

NT1 coster-kronig transitions

NT1 de-excitation

NT2 radiationless decay

NT1 excitation

NT2 collective excitations

NT2 coulomb excitation

NT2 inner-shell excitation

NT1 forbidden transitions

NT1 isomeric transitions

NT1 multipole transitions

NT2 e0-transitions

NT2 e1-transitions

NT2 e2-transitions

NT2 e3-transitions

NT2 e4-transitions

NT2 m1-transitions

NT2 m2-transitions

NT2 m3-transitions

NT2 m4-transitions

NT1 nuclear cascades

NT2 gamma cascades

NT1 stimulated emission

NT2 superradiance

RT auger effect

RT band theory

RT decay

RT einstein coefficients

RT energy levels

RT franck-condon principle

RT mixing ratio

RT multi-photon processes

RT oscillator strengths

RT selection rules

**ENERGY LEVELS**

UF energy-level schemes

UF level schemes

UF resonance states

UF states (energy)

NT1 d states

NT1 e states

NT1 excited states

NT2 metastable states

NT2 rotational states

NT2 rydberg states

NT2 vibrational states

NT1 f states

NT1 fermi level

NT1 g states

NT1 ground states

NT1 high spin states

NT1 isobaric analogs

NT1 negative energy states

NT1 p states

NT1 s states

NT1 virtual states

NT1 yrast states

RT bound state

RT brillouin theorem

RT eigenstates

RT electronic structure

RT energy-level density

RT energy-level transitions

RT external conversion

RT fine structure

RT internal conversion

RT jahn-teller effect

RT lamb shift

RT lande factor

RT level widths

RT nuclear cascades

RT nuclear structure

RT population inversion

RT quasibound state

RT rydberg correction

RT strangeness analog resonances

RT strength functions

**ENERGY-LOSS SPECTROSCOPY**

INIS: 1999-07-02; ETDE: 1983-03-23

\*BT1 electron spectroscopy

**ENERGY LOSSES**

UF degradation (energy)

UF energy dissipation

UF ionization loss

UF ohmic plasma losses

SF energy deposition

SF heat dissipation

BT1 losses

NT1 ac losses

NT1 heat losses

NT1 power losses

NT1 relaxation losses

RT attenuation

RT bragg curve

RT damping

RT dissipation factor

RT flaring

RT friction

RT hysteresis

RT ionization

RT ionizing radiations

RT landau fluctuations

RT let

RT microdosimetry

RT particle losses

RT radiation effects

RT radiation length

RT radiation quality

RT range

RT shock absorbers

RT slowing-down

RT stopping power

**ENERGY MANAGEMENT**

INIS: 1999-03-02; ETDE: 1977-06-21

BT1 management

RT energy accounting

RT energy conservation

RT energy management systems

RT energy supplies

RT resource management

**ENERGY MANAGEMENT SYSTEMS**

INIS: 1993-02-18; ETDE: 1979-07-18

BT1 control systems

BT1 energy systems

RT buildings

RT computerized control systems

RT energy conservation

RT energy management

RT low-energy buildings

RT space hvac systems

**ENERGY MODELS**

INIS: 1992-03-27; ETDE: 1976-01-23

NT1 national coal model

NT1 pies

NT1 projection series

RT computerized simulation

RT energy analysis

RT mathematical models

**ENERGY-MOMENTUM TENSOR**

INIS: 1983-03-15; ETDE: 1976-07-07

BT1 tensors

RT energy

RT general relativity theory

RT linear momentum

**energy of dissociation**

USE dissociation energy

**energy operators**

USE hamiltonians

**ENERGY PARKS**

INIS: 2000-04-12; ETDE: 1976-01-07

(From September 1979 to March 1997

INDUSTRIAL PARKS was a valid ETDE descriptor.)

UF eiip

UF energy complexes

UF energy integrated industrial parks

UF parks (energy)

SF industrial parks

NT1 nuclear parks

RT energy facilities

RT rural energy centers

**energy performance standards**

INIS: 1991-08-14; ETDE: 1980-08-12

USE energy efficiency standards

**ENERGY POLICY**

1999-07-06

Overall policy concerning development, production, use, and conservation of energy and its sources.

SF policy

BT1 government policies

NT1 national energy plans

NT2 us national energy plan

NT1 project independence

RT allocations

RT emissions trading

RT foreign policy

RT international energy agency

RT nuclear power phaseout

RT planning

RT regional cooperation

RT sustainable development

RT synthetic fuels corporation

RT us energy policy and conservation act

RT us national energy conservation policy act

RT us natural gas policy act

RT wends

RT world energy council

**energy policy and conservation act**

INIS: 2000-04-12; ETDE: 1976-09-29

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us energy policy and conservation act

**ENERGY QUALITY**

INIS: 2000-04-12; ETDE: 1978-04-28

Measured by the energy cost of sustaining an energy flow or storage.

BT1 energy analysis

RT energy accounting

RT energy efficiency

RT entropy

**ENERGY RANGE**

NT1 eev range

NT1 ev range

NT2 ev range 01-10

NT2 ev range 10-100

NT2 ev range 100-1000

NT1 gev range

NT2 gev range 01-10

NT2 gev range 10-100

NT2 gev range 100-1000

NT1 kev range

NT2 kev range 01-10

NT2 kev range 10-100

NT2 kev range 100-1000

NT1 mev range

NT2 mev range 01-10

NT2 mev range 10-100

NT2 mev range 100-1000

NT1 milli ev range

NT1 pev range

NT1 relativistic range

NT1 tev range

NT2 tev range 01-10

NT2 tev range 10-100

NT2 tev range 100-1000

RT energy

RT energy dependence

RT group constants

**ENERGY RECOVERY**

INIS: 1985-12-11; ETDE: 1978-04-06

SF recovery

NT1 heat recovery

RT energy balance

RT energy conservation

RT heat

RT resource recovery facilities

RT waste product utilization

**energy research advisory board**

INIS: 2000-04-12; ETDE: 1981-07-18

(Prior to September 1994, this was a valid ETDE descriptor.)

USE advisory committees

USE research programs

**energy research and development****administration**

INIS: 2000-04-12; ETDE: 1975-10-01

USE us erda

**ENERGY RESOLUTION**

Full Width at Half-Maximum of energy spectra.

BT1 resolution

RT energy-level density

RT energy spectra

**energy security act**

INIS: 2000-04-12; ETDE: 1980-07-23

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us energy security act

**energy security corporation**

INIS: 2000-04-12; ETDE: 1980-07-23

USE synthetic fuels corporation

**ENERGY SHORTAGES**

BT1 shortages

RT energy demand

RT energy supplies

RT energy surpluses

RT fuel substitution

RT international energy agency

**ENERGY SOURCE DEVELOPMENT**

INIS: 1992-03-12; ETDE: 1977-01-10

RT energy sources

RT resource assessment

RT resource development

RT resource management

RT resource potential

RT risk assessment

RT sustainable development

RT synthetic fuels corporation

**ENERGY SOURCES**

NT1 fossil fuels

NT2 coal

NT3 black coal

NT4 anthracite

NT4 bituminous coal

NT3 brown coal

NT4 lignite

NT3 coal fines

NT3 sapropelic coal

NT4 boghead coal

NT5 torbanite

NT4 cannel coal

NT3 subbituminous coal

NT2 natural gas

NT3 abiogenic gas

NT3 liquefied natural gas

NT2 oil sands

NT2 oil shales

NT3 black shales

NT2 peat

NT2 petroleum

NT3 petroleum fractions

NT4 petroleum distillates

NT5 gas oils

NT6 diesel fuels

NT6 fuel oils

NT7 heating oils

NT7 residual fuels

NT6 kerosene

NT4 petroleum residues

NT4 refinery gases

NT3 residual petroleum

NT3 shale oil

NT4 shale oil fractions

NT3 sour crudes

NT1 fuel gas

NT2 high btu gas

NT2 intermediate btu gas

NT3 carburetted water gas

NT3 town gas

NT3 water gas

NT2 landfill gas

NT2 low btu gas

NT3 producer gas

NT2 natural gas

NT3 abiogenic gas

NT3 liquefied natural gas

NT1 nuclear fuels

NT2 alloy nuclear fuels

NT3 uranium-molybdenum fuels

NT2 denatured fuel

NT2 dispersion nuclear fuels

NT2 fuel solutions

NT2 liquid metal fuels

NT2 mixed carbide fuels

NT2 mixed nitride fuels

NT2 mixed oxide fuels

NT2 molten salt fuels

NT2 spent fuels

NT1 renewable energy sources

NT2 biomass

NT2 geothermal energy

NT2 hydroelectric power

NT2 solar energy

NT2 tidal power

NT2 wave power

NT2 wind power

RT availability

RT energy

RT energy source development

RT energy substitution equivalent

RT energy supplies

RT energy surpluses

RT interchangeability

RT sun

RT us national energy plan

RT waste heat

**ENERGY SPECTRA**

UF energy distribution

BT1 spectra

RT energy resolution

RT energy yield

RT group constants

RT rydberg correction

RT spectral density

RT spectral response

RT transverse energy

**ENERGY STORAGE**

1995-01-11

- UF annual energy storage
- BT1 storage
- NT1 cold storage
- NT1 compressed air energy storage
- NT1 flywheel energy storage
- NT1 heat storage
  - NT2 latent heat storage
  - NT2 seasonal thermal energy storage
  - NT2 sensible heat storage
  - NT2 thermochemical heat storage
- NT1 magnetic energy storage
  - NT2 superconducting magnetic energy storage
- NT1 off-peak energy storage
- NT1 photochemical energy storage
- NT1 pumped storage
  - RT capacitive energy storage equipment
  - RT capacitors
  - RT dispersed storage and generation
  - RT electric batteries
  - RT energy storage systems
  - RT flywheels
  - RT hydraulic accumulators
  - RT hydrogen storage
  - RT mechanical energy storage equipment
  - RT underground storage
  - RT water reservoirs

**ENERGY STORAGE SYSTEMS**

INIS: 1999-07-06; ETDE: 1976-08-04

- BT1 energy systems
- NT1 electric batteries
  - NT2 lead-acid batteries
  - NT2 metal-gas batteries
    - NT3 aluminium-air batteries
    - NT3 cadmium-air batteries
    - NT3 iron-air batteries
    - NT3 lithium-chlorine batteries
    - NT3 lithium-water-air batteries
    - NT3 nickel-hydrogen batteries
    - NT3 silver-hydrogen batteries
    - NT3 zinc-air batteries
    - NT3 zinc-chlorine batteries
  - NT2 metal-metal batteries
  - NT2 metal-metal oxide batteries
    - NT3 iron-nickel batteries
    - NT3 nickel-cadmium batteries
    - NT3 nickel-zinc batteries
    - NT3 silver-cadmium batteries
    - NT3 silver-zinc batteries
    - NT3 zinc-manganese batteries
  - NT2 metal-nonmetal batteries
    - NT3 lithium-copper chloride batteries
    - NT3 lithium-sulfur batteries
    - NT3 sodium-sulfur batteries
    - NT3 zinc-bromine batteries
  - NT2 primary-secondary hybrid batteries
  - NT2 thermal batteries
- NT1 flywheels
- NT1 magnetic energy storage equipment
- NT1 thermal energy storage equipment
  - RT capacitive energy storage equipment
  - RT capacitors
  - RT compressed air energy storage equipment
  - RT energy storage
  - RT heat storage
  - RT mechanical energy storage equipment
  - RT regenerators
  - RT water reservoirs

**ENERGY SUBSTITUTION**

INIS: 2000-04-12; ETDE: 1980-01-24

*Substitution of other factors, e.g., labor, capital, or materials for energy in the economy.*

- RT economic elasticity

- RT energy substitution equivalent
- RT fuel substitution

**ENERGY SUBSTITUTION EQUIVALENT**

INIS: 2000-04-12; ETDE: 1978-06-14

*The amount of fuel saved by the substitution of one fuel for another when the same energy product is generated by both fuels.*

- UF fuel substitution equivalent
- UF substitution equivalent
- RT energy efficiency
- RT energy sources
- RT energy substitution
- RT fuel substitution
- RT net energy

**ENERGY SUPPLIES**

1991-10-21

- UF contracting of energy services
- NT1 fuel supplies
  - RT energy conservation and production act
  - RT energy demand
  - RT energy management
  - RT energy shortages
  - RT energy sources
  - RT energy surpluses
  - RT fuel substitution
  - RT strategic petroleum reserve
  - RT supply and demand
  - RT supply disruption
  - RT us emergency preparedness act
  - RT us national energy plan
  - RT us naval petroleum reserves

**ENERGY SURPLUSES**

INIS: 2000-04-12; ETDE: 1980-08-25

- RT energy demand
- RT energy shortages
- RT energy sources
- RT energy supplies
- RT fuel substitution

**ENERGY SYSTEMS**

INIS: 1999-05-26; ETDE: 1993-08-10

*Use only in generic sense; e.g., comparisons of several energy systems or theoretical studies when system is not denoted specifically.*

- NT1 binary-fluid systems
- NT1 cooling systems
  - NT2 closed-cycle cooling systems
  - NT2 condenser cooling systems
  - NT2 coolant loops
  - NT2 once-through cooling systems
  - NT2 open-cycle cooling systems
  - NT2 reactor cooling systems
    - NT3 direct cycle cooling systems
    - NT3 dual cycle cooling systems
    - NT3 integrated cooling systems
    - NT3 primary coolant circuits
      - NT4 coolant cleanup systems
    - NT3 rcic systems
    - NT3 rhr systems
    - NT3 secondary coolant circuits
    - NT3 shrouds
  - NT2 thermonuclear reactor cooling systems
- NT1 energy management systems
- NT1 energy storage systems
  - NT2 electric batteries
    - NT3 lead-acid batteries
    - NT3 metal-gas batteries
      - NT4 aluminium-air batteries
      - NT4 cadmium-air batteries
      - NT4 iron-air batteries
      - NT4 lithium-chlorine batteries
      - NT4 lithium-water-air batteries
      - NT4 nickel-hydrogen batteries

- NT4 silver-hydrogen batteries
- NT4 zinc-air batteries
- NT4 zinc-chlorine batteries
- NT3 metal-metal batteries
- NT3 metal-metal oxide batteries
  - NT4 iron-nickel batteries
  - NT4 nickel-cadmium batteries
  - NT4 nickel-zinc batteries
  - NT4 silver-cadmium batteries
  - NT4 silver-zinc batteries
  - NT4 zinc-manganese batteries
- NT3 metal-nonmetal batteries
  - NT4 lithium-copper chloride batteries
  - NT4 lithium-sulfur batteries
  - NT4 sodium-sulfur batteries
  - NT4 zinc-bromine batteries
- NT3 primary-secondary hybrid batteries
  - NT3 thermal batteries
- NT2 flywheels
- NT2 magnetic energy storage equipment
- NT2 thermal energy storage equipment
- NT1 geopressured systems
- NT1 heat distribution systems
- NT1 heating systems
  - NT2 geothermal heating systems
  - NT2 solar heating systems
    - NT3 passive solar heating systems
      - NT4 bead walls
      - NT4 direct gain systems
      - NT4 drum walls
      - NT4 roof ponds
      - NT4 thermic diode solar panels
      - NT4 trombe walls
      - NT4 water walls
    - NT3 solar-assisted heat pumps
- NT1 hot-dry-rock systems
- NT1 hydrothermal systems
  - NT2 geothermal hot-water systems
  - NT2 vapor-dominated systems
- NT1 ices program
  - NT2 thermal transmission ices
- NT1 integrated energy utility systems
  - NT2 modular integrated utility systems
- NT1 lighting systems
- NT1 natural gas distribution systems
- NT1 power systems
  - NT2 ac systems
    - NT3 ehv ac systems
    - NT3 hvac systems
    - NT3 uhv ac systems
  - NT2 brayton cycle power systems
  - NT2 dc systems
    - NT3 ehv dc systems
    - NT3 hvdc systems
    - NT3 uhv dc systems
  - NT2 interconnected power systems
  - NT2 rankine cycle power systems
  - NT2 solar-assisted power systems
- NT1 space hvac systems
- NT1 steam systems
  - NT2 flashed steam systems
- NT1 total energy systems
- NT1 total flow systems
  - RT cogeneration

**energy tax act**

INIS: 2000-04-12; ETDE: 1980-05-06

*(Prior to February 1992 this was a valid ETDE descriptor.)*

- USE us energy tax act

**energy technology data exchange**

INIS: 1993-11-08; ETDE: 1991-02-25

- USE etde

**ENERGY TRANSFER**

- UF energy exchange
- UF transfer (energy)

**NT1** heat transfer  
**NT2** convection  
**NT3** forced convection  
**NT3** natural convection  
**NT3** thermosyphon effect  
**NT2** heat gain  
**NT2** heat losses  
**NT2** radiant heat transfer  
**NT2** thermal conduction  
**NT1** let  
**NT1** radiationless decay  
*RT* angular momentum transfer  
*RT* energy balance  
*RT* energy conversion  
*RT* energy yield  
*RT* internal waves  
*RT* linear momentum transfer  
*RT* mass transfer

**energy transmission**

2000-03-27

SEE power transmission

**energy transport**

2000-04-12

(Prior to December 1991 this was a valid ETDE descriptor.)

SEE natural gas distribution systems

SEE pipelines

SEE power transmission

**ENERGY YIELD**

1975-11-27

*RT* efficiency  
*RT* energy spectra  
*RT* energy transfer  
*RT* net energy

**enewetak**

INIS: 1977-09-06; ETDE: 1979-07-24

USE eniwetok

**ENFORCEMENT**

INIS: 1978-11-24; ETDE: 1976-11-01

*RT* administrative procedures  
*RT* compliance  
*RT* implementation  
*RT* laws  
*RT* legal aspects  
*RT* pollution control agencies  
*RT* pollution regulations  
*RT* regulations  
*RT* us superfund  
*RT* violations

**ENGINEERED SAFETY SYSTEMS**

1992-07-13

**NT1** air cleaning systems  
**NT1** containment systems  
**NT2** containment spray systems  
**NT1** reactor protection systems  
**NT2** eccs  
**NT3** core flooding systems  
**NT3** core spray systems  
**NT3** high pressure coolant injection  
**NT3** low pressure coolant injection  
**NT2** reactor core restraints  
**NT1** ventilation barriers  
*RT* safety  
*RT* safety engineering  
*RT* safety margins

**ENGINEERING**

**NT1** chemical engineering  
**NT1** civil engineering  
**NT1** electrical engineering  
**NT1** environmental engineering  
**NT1** human factors engineering  
**NT1** mechanical engineering  
**NT1** mining engineering  
**NT1** nuclear engineering

**NT1** reservoir engineering  
**NT1** safety engineering  
*RT* engineering geology

**ENGINEERING DRAWINGS**

INIS: 1992-03-17; ETDE: 1982-10-20

\*BT1 diagrams

*RT* design*RT* specifications**ENGINEERING GEOLOGY**

INIS: 1992-09-01; ETDE: 1977-03-08

*Geology as applied to engineering practice, especially in mining and civil engineering.**UF* geologic engineering**BT1** geology*RT* engineering*RT* soil-structure interactions**engineering personnel**

INIS: 2000-04-12; ETDE: 1982-02-08

(Prior to August 1992 this was a valid ETDE descriptor.)

USE engineers

**engineering test facility (tokamak)**

INIS: 1993-11-08; ETDE: 1979-12-17

USE etf tokamak

**engineering test reactor**

USE etr reactor

**engineering test reactor critical facility**

2000-04-12

USE etrc reactor

**ENGINEERS**

INIS: 1992-08-18; ETDE: 1980-01-15

*UF* engineering personnel*SF* professional personnel**BT1** personnel*RT* construction industry**ENGINES**

1992-01-15

*Machines in which work is done by the conversion of energy into mechanical force and motion.***NT1** heat engines**NT2** internal combustion engines**NT3** diesel engines**NT3** direct injection engines**NT3** dual-fuel engines**NT3** gas turbine engines**NT3** ramjet engines**NT3** rotary engines**NT4** wankel engines**NT3** spark ignition engines**NT4** wankel engines**NT3** stratified charge engines**NT3** turbofan engines**NT3** turbojet engines**NT2** nitinol heat engines**NT2** rankine cycle engines**NT2** rocket engines**NT2** solar heat engines**NT2** stirling engines**NT1** motors**NT2** electric motors**NT3** superconducting motors**NT2** pneumatic motors*RT* combustion chambers*RT* federal test procedure*RT* fuel injection systems**england**

USE united kingdom

**ENHANCED RADIATION WEAPONS**

INIS: 2000-04-12; ETDE: 1981-03-16

*UF* neutron bombs

\*BT1 nuclear weapons

*RT* radiological warfare**ENHANCED RECOVERY**

INIS: 1991-10-22; ETDE: 1976-02-19

*UF* secondary recovery*UF* solfrac process*UF* tertiary recovery*SF* eor*SF* recovery**NT1** microbial eor**NT1** thermal recovery*RT* acidization*RT* carbon dioxide injection*RT* caustic flooding*RT* directional drilling*RT* displacement fluids*RT* explosive stimulation*RT* fluid injection*RT* fluid injection processes*RT* microemulsion flooding*RT* miscible-phase displacement*RT* sweep efficiency*RT* well stimulation**enhanced recovery (biological)**

INIS: 1991-10-22; ETDE: 1992-01-09

USE biological recovery

**ENIWETOK**

1996-01-24

*UF* enewetak

\*BT1 marshall islands

*RT* greenhouse project*RT* hardtack project**ENKEPHALINS**

INIS: 1978-11-24; ETDE: 1978-07-05

*Naturally occurring (brain and pituitary gland) opiate-like materials composed of a mixture of two pentapeptides.*

\*BT1 endorphins

*RT* narcotics**ENOLS**

\*BT1 alcohols

*RT* ketones**enriched materials (isotopes)**

USE isotope enriched materials

**enriched materials (ores)**

USE ore concentrates

**ENRICHED URANIUM**

\*BT1 isotope enriched materials

\*BT1 uranium

**NT1** highly enriched uranium**NT1** moderately enriched uranium**NT1** slightly enriched uranium*RT* enriched uranium reactors*RT* portsmouth centrifuge enrichment plant**ENRICHED URANIUM REACTORS**

1998-01-29

*Reactors fuelled primarily with enriched uranium.**UF* in-core thermionic reactor*UF* itr reactor*SF* 710 reactor**BT1** reactors**NT1** acpr reactor**NT1** aerogel-general nucleonics reactors**NT1** afsr reactor**NT1** agr type reactors**NT2** connah quay-b reactor**NT2** dungeness-b reactor

NT2	hartlepool reactor	NT2	browns ferry-1 reactor	NT2	lacbwr reactor
NT2	heysham-a reactor	NT2	browns ferry-2 reactor	NT2	laguna verde-1 reactor
NT2	heysham-b reactor	NT2	browns ferry-3 reactor	NT2	laguna verde-2 reactor
NT2	hinkley point-b reactor	NT2	brunsbuettel reactor	NT2	leibstadt reactor
NT2	hunterston-b reactor	NT2	brunswick-1 reactor	NT2	limerick-1 reactor
NT2	torness reactor	NT2	brunswick-2 reactor	NT2	limerick-2 reactor
NT2	wagr reactor	NT2	chinshan-1 reactor	NT2	lingen reactor
NT1	ai-l-77 reactor	NT2	chinshan-2 reactor	NT2	mendocino-1 reactor
NT1	akr-1 reactor	NT2	clinton-1 reactor	NT2	mendocino-2 reactor
NT1	alrr reactor	NT2	clinton-2 reactor	NT2	millstone-1 reactor
NT1	anex reactor	NT2	cofrentes reactor	NT2	montague-1 reactor
NT1	anna reactor	NT2	cooper reactor	NT2	montague-2 reactor
NT1	aps reactor	NT2	dodewaard reactor	NT2	montalto di castro-1 reactor
NT1	apsara reactor	NT2	douglas point-1 reactor	NT2	montalto di castro-2 reactor
NT1	arbus reactor	NT2	douglas point-2 reactor	NT2	monticello reactor
NT1	argonaut type reactors	NT2	dresden-1 reactor	NT2	muehleberg reactor
NT2	aeg-pr-10 reactor	NT2	dresden-2 reactor	NT2	nine mile point-1 reactor
NT2	arbi reactor	NT2	dresden-3 reactor	NT2	nine mile point-2 reactor
NT2	argonaut reactor	NT2	duane arnold-1 reactor	NT2	okg-1 reactor
NT2	argos reactor	NT2	ebwr reactor	NT2	okg-2 reactor
NT2	athene reactor	NT2	enel-4 reactor	NT2	okg-3 reactor
NT2	jason reactor	NT2	enrico fermi-2 reactor	NT2	olkiluoto-1 reactor
NT2	lfr reactor	NT2	err reactor	NT2	olkiluoto-2 reactor
NT2	moata reactor	NT2	fitzpatrick reactor	NT2	onagawa-1 reactor
NT2	nestor reactor	NT2	forsmark-1 reactor	NT2	onagawa-2 reactor
NT2	queen mary college utr-b reactor	NT2	forsmark-2 reactor	NT2	onagawa-3 reactor
NT2	ra-1 reactor	NT2	forsmark-3 reactor	NT2	oyster creek-1 reactor
NT2	rb-2 reactor	NT2	fukushima-1 reactor	NT2	pathfinder reactor
NT2	rien-1 reactor	NT2	fukushima-2 reactor	NT2	peach bottom-2 reactor
NT2	src-utr-100 reactor	NT2	fukushima-3 reactor	NT2	peach bottom-3 reactor
NT2	stark reactor	NT2	fukushima-4 reactor	NT2	perry-1 reactor
NT2	strasbourg-cronenbourg reactor	NT2	fukushima-5 reactor	NT2	perry-2 reactor
NT2	ufr reactor	NT2	fukushima-6 reactor	NT2	philippsburg-1 reactor
NT2	ulyse reactor	NT2	fukushima-ii-1 reactor	NT2	phipps bend-1 reactor
NT2	urr reactor	NT2	fukushima-ii-2 reactor	NT2	phipps bend-2 reactor
NT2	utr-10-kinki reactor	NT2	fukushima-ii-3 reactor	NT2	pilgrim-1 reactor
NT2	vpi-utr-10 reactor	NT2	fukushima-ii-4 reactor	NT2	quad cities-1 reactor
NT1	argus reactor	NT2	garigliano reactor	NT2	quad cities-2 reactor
NT1	armf-1 reactor	NT2	garona reactor	NT2	ringhals-1 reactor
NT1	astra reactor	NT2	ge standard reactor	NT2	river bend-1 reactor
NT1	atr reactor	NT2	graben-1 reactor	NT2	river bend-2 reactor
NT1	atrc reactor	NT2	graben-2 reactor	NT2	rwe-bayernwerk reactor
NT1	avogadro rs-1 reactor	NT2	grand gulf-1 reactor	NT2	shika-1 reactor
NT1	avr reactor	NT2	grand gulf-2 reactor	NT2	shimane-1 reactor
NT1	bawtr reactor	NT2	gundremmingen-2 reactor	NT2	shimane-2 reactor
NT1	beloyarsk-1 reactor	NT2	gundremmingen-3 reactor	NT2	shoreham reactor
NT1	beloyarsk-2 reactor	NT2	hamaoka-1 reactor	NT2	skagit-1 reactor
NT1	bgr reactor	NT2	hamaoka-2 reactor	NT2	skagit-2 reactor
NT1	bigr reactor	NT2	hamaoka-3 reactor	NT2	sl-1 reactor
NT1	bir reactor	NT2	hamaoka-4 reactor	NT2	susquehanna-1 reactor
NT1	bor-60 reactor	NT2	hamaoka-5 reactor	NT2	susquehanna-2 reactor
NT1	borax-1 reactor	NT2	hartsville-1 reactor	NT2	tarapur-1 reactor
NT1	borax-2 reactor	NT2	hartsville-2 reactor	NT2	tarapur-2 reactor
NT1	borax-3 reactor	NT2	hartsville-3 reactor	NT2	tokai-2 reactor
NT1	borax-4 reactor	NT2	hartsville-4 reactor	NT2	tsuruga reactor
NT1	borax-5 reactor	NT2	hatch-1 reactor	NT2	tullnerfeld reactor
NT1	br-02 reactor	NT2	hatch-2 reactor	NT2	vak reactor
NT1	br-2 reactor	NT2	hdr reactor	NT2	vbwr reactor
NT1	br-3-vn reactor	NT2	hope creek-1 reactor	NT2	vermont yankee reactor
NT1	brr reactor	NT3	newbold island-1 reactor	NT2	verplanck-1 reactor
NT1	bsr-1 reactor	NT2	hope creek-2 reactor	NT2	verplanck-2 reactor
NT1	bsr-2 reactor	NT3	newbold island-2 reactor	NT2	vk-50 reactor
NT1	bwr type reactors	NT2	humboldt bay reactor	NT2	wnp-2 reactor
NT2	allens creek-1 reactor	NT2	isar reactor	NT2	wuergassen reactor
NT2	allens creek-2 reactor	NT2	jpdr-2 reactor	NT2	zimmer-1 reactor
NT2	bailly-1 reactor	NT2	jpdr reactor	NT2	zimmer-2 reactor
NT2	barsebaeck-1 reactor	NT2	kaiseraugst reactor	NT1	byu 1-77 reactor
NT2	barsebaeck-2 reactor	NT2	kashiwazaki-kariwa-1 reactor	NT1	cabri reactor
NT2	barton-1 reactor	NT2	kashiwazaki-kariwa-2 reactor	NT1	cesnef reactor
NT2	barton-2 reactor	NT2	kashiwazaki-kariwa-3 reactor	NT1	chernobylsk-1 reactor
NT2	barton-3 reactor	NT2	kashiwazaki-kariwa-4 reactor	NT1	chernobylsk-2 reactor
NT2	barton-4 reactor	NT2	kashiwazaki-kariwa-5 reactor	NT1	chernobylsk-3 reactor
NT2	bell reactor	NT2	kashiwazaki-kariwa-6 reactor	NT1	chernobylsk-4 reactor
NT2	big rock point reactor	NT2	kashiwazaki-kariwa-7 reactor	NT1	consort-2 reactor
NT2	black fox-1 reactor	NT2	kruemmel reactor	NT1	coral-1 reactor
NT2	black fox-2 reactor	NT2	kuosheng-1 reactor	NT1	cp-3m reactor
NT2	bolsa chica-1 reactor	NT2	kuosheng-2 reactor	NT1	cp-5 reactor
NT2	bolsa chica-2 reactor	NT2	la salle county-1 reactor	NT1	cvtr reactor
NT2	bonus reactor	NT2	la salle county-2 reactor	NT1	democritus reactor



NT1	dfr reactor	NT1	jmtr reactor	NT1	prnc-l-77 reactor
NT1	dido reactor	NT1	jrr-1 reactor	NT1	proteus reactor
NT1	dmtr reactor	NT1	jrr-2 reactor	NT1	prr-1 reactor
NT1	dr-1 reactor	NT1	jrr-3m reactor	NT1	prr reactor
NT1	dr-2 reactor	NT1	jrr-4 reactor	NT1	ptr reactor
NT1	dr-3 reactor	NT1	jules horowitz reactor	NT1	pulstar-buffalo reactor
NT1	dragon reactor	NT1	knk-2 reactor	NT1	pur-1 reactor
NT1	ebor reactor	NT1	knk reactor	NT1	pwr type reactors
NT1	egcr reactor	NT1	kuca reactor	NT2	aguirre reactor
NT1	el-3 reactor	NT1	kuhfr reactor	NT2	almaraz-1 reactor
NT1	el-4 reactor	NT1	kur reactor	NT2	almaraz-2 reactor
NT1	enrico fermi-1 reactor	NT1	kursk-1 reactor	NT2	angra-1 reactor
NT1	eocr reactor	NT1	kursk-2 reactor	NT2	angra-2 reactor
NT1	es-salam reactor	NT1	kursk-3 reactor	NT2	angra-3 reactor
NT1	esada-vesr reactor	NT1	kursk-4 reactor	NT2	ardennes b-1 reactor
NT1	essor reactor	NT1	leningrad-1 reactor	NT2	ardennes b-2 reactor
NT1	etr reactor	NT1	leningrad-2 reactor	NT2	ardennes reactor
NT1	etrc reactor	NT1	leningrad-3 reactor	NT2	arkansas-1 reactor
NT1	etrr-2 reactor	NT1	leningrad-4 reactor	NT2	arkansas-2 reactor
NT1	evsr reactor	NT1	lido reactor	NT2	asco-1 reactor
NT1	ewg-1 reactor	NT1	litr reactor	NT2	asco-2 reactor
NT1	fimrb reactor	NT1	lpr reactor	NT2	atlantic-1 reactor
NT1	fnr reactor	NT1	lptr reactor	NT2	atlantic-2 reactor
NT1	fr-0 reactor	NT1	lucens reactor	NT2	basf-1 reactor
NT1	frf reactor	NT1	maple reactor	NT2	basf-2 reactor
NT1	frg-1 reactor	NT1	maple type reactors	NT2	beaver valley-1 reactor
NT1	frg-2 reactor	NT1	maria reactor	NT2	beaver valley-2 reactor
NT1	frj-1 reactor	NT1	marviken reactor	NT2	bellefonte-1 reactor
NT1	frj-2 reactor	NT1	maryla reactor	NT2	bellefonte-2 reactor
NT1	frm-ii reactor	NT1	masurca reactor	NT2	belleville sur loire-1 reactor
NT1	frm reactor	NT1	melusine-1 reactor	NT2	belleville sur loire-2 reactor
NT1	fulton-1 reactor	NT1	merlin reactor	NT2	beznau-1 reactor
NT1	fulton-2 reactor	NT1	minerve reactor	NT2	beznau-2 reactor
NT1	ga siwabessy reactor	NT1	mitr reactor	NT2	biblis-1 reactor
NT1	ga standard reactor	NT1	ml-1 reactor	NT2	biblis-2 reactor
NT1	getr reactor	NT1	mnr reactor	NT2	biblis-3 reactor
NT1	gidra reactor	NT1	mnsr type reactors	NT2	biblis-4 reactor
NT1	gtr reactor	NT2	gharr-1 reactor	NT2	blayais-1 reactor
NT1	hanaro reactor	NT2	mnsr-ciae reactor	NT2	blue hills-1 reactor
NT1	harmonie reactor	NT2	mnsr-sd reactor	NT2	blue hills-2 reactor
NT1	hbwr reactor	NT2	mnsr-sh reactor	NT2	borssele reactor
NT1	hector reactor	NT2	mnsr-sz reactor	NT2	br-3 reactor
NT1	herald reactor	NT2	nirr-1 reactor	NT2	braidwood-1 reactor
NT1	hero reactor	NT2	parr-2 reactor	NT2	braidwood-2 reactor
NT1	hfbr reactor	NT2	srr-1 reactor	NT2	brokdorf reactor
NT1	hfetr reactor	NT1	mrr reactor	NT2	bugey-2 reactor
NT1	hfir reactor	NT1	msre reactor	NT2	bugey-3 reactor
NT1	hfr reactor	NT1	mtr reactor	NT2	bugey-4 reactor
NT1	hifar reactor	NT1	murr reactor	NT2	bugey-5 reactor
NT1	hnpf reactor	NT1	n-reactor	NT2	bw standard reactor
NT1	hor reactor	NT1	ncscr-1 reactor	NT2	byron-1 reactor
NT1	horace reactor	NT1	nevada university reactor	NT2	byron-2 reactor
NT1	hprr reactor	NT1	nhr-5 reactor	NT2	calhoun-1 reactor
NT1	hre-2 reactor	NT1	niederreichbach reactor	NT2	calhoun-2 reactor
NT1	htlfr reactor	NT1	nsrr reactor	NT2	callaway-1 reactor
NT1	htr-10 reactor	NT1	ntr reactor	NT2	callaway-2 reactor
NT1	htr reactor	NT1	nuclear furnace reactor	NT2	calvert cliffs-1 reactor
NT1	httr reactor	NT1	nur reactor	NT2	calvert cliffs-2 reactor
NT1	hwctr reactor	NT1	oldbury-b reactor	NT2	catawba-1 reactor
NT1	ian-r1 reactor	NT1	omre reactor	NT2	catawba-2 reactor
NT1	iear-1 reactor	NT1	opal reactor	NT2	cattenom-1 reactor
NT1	ignalina-1 reactor	NT1	orr reactor	NT2	cattenom-2 reactor
NT1	ignalina-2 reactor	NT1	osiris reactor	NT2	cattenom-3 reactor
NT1	igr reactor	NT1	owr reactor	NT2	cattenom-4 reactor
NT1	irl reactor	NT1	parr-1 reactor	NT2	ce standard reactor
NT1	irr-1 reactor	NT1	pbr reactor	NT2	cherokee-1 reactor
NT1	irt-2000 djakarta reactor	NT1	ptr reactor	NT2	cherokee-2 reactor
NT1	irt-2000 moscow reactor	NT1	peach bottom-1 reactor	NT2	cherokee-3 reactor
NT1	irt-c reactor	NT1	pegase reactor	NT2	chinon-b1 reactor
NT1	irt-f reactor	NT1	peggy reactor	NT2	civaux-1 reactor
NT1	irt reactor	NT1	pelinduna reactor	NT2	civaux-2 reactor
NT1	irt-sofia reactor	NT1	perryman-1 reactor	NT2	comanche peak-1 reactor
NT1	isis reactor	NT1	perryman-2 reactor	NT2	comanche peak-2 reactor
NT1	ispra-1 reactor	NT1	phebus reactor	NT2	connecticut yankee reactor
NT1	ivv-2m reactor	NT1	phenix reactor	NT2	cook-1 reactor
NT1	janus reactor	NT1	pik physical model reactor	NT2	cook-2 reactor
NT1	jeep-2 reactor	NT1	pik reactor	NT2	cruas-2 reactor
NT1	jen-1 reactor	NT1	pluto reactor	NT2	cruas-3 reactor
NT1	jen reactor	NT1	pnpf reactor	NT2	cruas-4 reactor

NT2	crystal river-3 reactor	NT2	lingao-2 reactor	NT2	rheinsberg akw1 reactor
NT2	crystal river-4 reactor	NT2	loft reactor	NT2	ringhals-2 reactor
NT2	dampierre-1 reactor	NT2	lucie-1 reactor	NT2	ringhals-3 reactor
NT2	dampierre-2 reactor	NT2	lucie-2 reactor	NT2	ringhals-4 reactor
NT2	dampierre-3 reactor	NT2	maanshan-1 reactor	NT2	robinson-2 reactor
NT2	dampierre-4 reactor	NT2	maine yankee reactor	NT2	roopur reactor
NT2	davis besse-1 reactor	NT2	malibu-1 reactor	NT2	rowe yankee reactor
NT2	davis besse-2 reactor	NT2	marble hill-1 reactor	NT2	s1c prototype reactor
NT2	davis besse-3 reactor	NT2	marble hill-2 reactor	NT2	saint alban-1 reactor
NT2	daya bay-1 reactor	NT2	mc guire-1 reactor	NT2	saint alban-2 reactor
NT2	daya bay-2 reactor	NT2	mc guire-2 reactor	NT2	saint laurent-b1 reactor
NT2	diablo canyon-1 reactor	NT2	mh-1a reactor	NT2	salem-1 reactor
NT2	diablo canyon-2 reactor	NT2	midland-1 reactor	NT2	salem-2 reactor
NT2	doel-1 reactor	NT2	midland-2 reactor	NT2	san onofre-1 reactor
NT2	doel-2 reactor	NT2	mihama-1 reactor	NT2	san onofre-2 reactor
NT2	doel-3 reactor	NT2	mihama-2 reactor	NT2	san onofre-3 reactor
NT2	doel-4 reactor	NT2	mihama-3 reactor	NT2	savannah reactor
NT2	efdr-50 reactor	NT2	millstone-2 reactor	NT2	saxton reactor
NT2	emsland reactor	NT2	millstone-3 reactor	NT2	seabrook-1 reactor
NT2	erie-1 reactor	NT2	muelheim-kaerlich reactor	NT2	seabrook-2 reactor
NT2	erie-2 reactor	NT2	mutsu reactor	NT2	selni reactor
NT2	farley-1 reactor	NT2	neckar-1 reactor	NT2	sendai-1 reactor
NT2	farley-2 reactor	NT2	neckar-2 reactor	NT2	sendai-2 reactor
NT2	fessenheim-1 reactor	NT2	nep-1 reactor	NT2	sequoyah-1 reactor
NT2	flamanville-1 reactor	NT2	nep-2 reactor	NT2	sequoyah-2 reactor
NT2	flamanville-2 reactor	NT2	neupotz-1 reactor	NT2	shippingport reactor
NT2	forked river-1 reactor	NT2	neupotz-2 reactor	NT2	sizewell-b reactor
NT2	genkai-1 reactor	NT2	nogent sur seine-1 reactor	NT2	sm-1 reactor
NT2	genkai-2 reactor	NT2	nogent sur seine-2 reactor	NT2	sm-1a reactor
NT2	genkai-3 reactor	NT2	north anna-1 reactor	NT2	south texas project-1 reactor
NT2	genkai-4 reactor	NT2	north anna-2 reactor	NT2	south texas project-2 reactor
NT2	ginna-1 reactor	NT2	north anna-3 reactor	NT2	stade reactor
NT2	goesgen reactor	NT2	north anna-4 reactor	NT2	sterling-1 reactor
NT2	golfech-1 reactor	NT2	north coast-1 reactor	NT2	sterling-2 reactor
NT2	golfech-2 reactor	NT2	obrigheim reactor	NT2	summer-1 reactor
NT2	grafenhainfeld reactor	NT2	oconee-1 reactor	NT2	sundesert-1 reactor
NT2	gravelines-1 reactor	NT2	oconee-2 reactor	NT2	sundesert-2 reactor
NT2	gravelines-2 reactor	NT2	oconee-3 reactor	NT2	surry-1 reactor
NT2	gravelines-3 reactor	NT2	oi-1 reactor	NT2	surry-2 reactor
NT2	gravelines-4 reactor	NT2	oi-2 reactor	NT2	surry-3 reactor
NT2	gravelines-5 reactor	NT2	oi-3 reactor	NT2	surry-4 reactor
NT2	gravelines-6 reactor	NT2	oi-4 reactor	NT2	takahama-1 reactor
NT2	greene county reactor	NT2	oktemberyan-2 reactor	NT2	takahama-2 reactor
NT2	greenwood-2 reactor	NT2	olkiluoto-3 reactor	NT2	takahama-3 reactor
NT2	greenwood-3 reactor	NT2	otto hahn reactor	NT2	takahama-4 reactor
NT2	grohnde reactor	NT2	palisades-1 reactor	NT2	three mile island-1 reactor
NT2	hamm-uentrop reactor	NT2	palo verde-1 reactor	NT2	three mile island-2 reactor
NT2	harris-1 reactor	NT2	palo verde-2 reactor	NT2	tihange-2 reactor
NT2	harris-2 reactor	NT2	palo verde-3 reactor	NT2	tihange-3 reactor
NT2	harris-3 reactor	NT2	palo verde-4 reactor	NT2	tihange reactor
NT2	harris-4 reactor	NT2	palo verde-5 reactor	NT2	tomari-1 reactor
NT2	haven-1 reactor	NT2	paluel-1 reactor	NT2	tomari-2 reactor
NT3	koshkonong-1 reactor	NT2	paluel-2 reactor	NT2	tricastin-1 reactor
NT2	haven-2 reactor	NT2	paluel-3 reactor	NT2	tricastin-4 reactor
NT3	koshkonong-2 reactor	NT2	paluel-4 reactor	NT2	trillo-1 reactor
NT2	ikata-2 reactor	NT2	pat reactor	NT2	trojan reactor
NT2	ikata-3 reactor	NT2	pebble springs-1 reactor	NT2	tsuruga-2 reactor
NT2	ikata reactor	NT2	pebble springs-2 reactor	NT2	turkey point-3 reactor
NT2	indian point-1 reactor	NT2	penly-1 reactor	NT2	turkey point-4 reactor
NT2	indian point-2 reactor	NT2	perkins-1 reactor	NT2	tva-1 reactor
NT2	indian point-3 reactor	NT2	perkins-2 reactor	NT2	tva-2 reactor
NT2	iran-1 reactor	NT2	perkins-3 reactor	NT2	tyrone-1 reactor
NT2	iran-2 reactor	NT2	philippsburg-2 reactor	NT2	tyrone-2 reactor
NT2	isar-2 reactor	NT2	pilgrim-2 reactor	NT2	ulchin-1 reactor
NT2	jamesport-1 reactor	NT2	pilgrim-3 reactor	NT2	ulchin-2 reactor
NT2	jamesport-2 reactor	NT2	pm-2a reactor	NT2	ulchin-3 reactor
NT2	kewaunee reactor	NT2	pm-3a reactor	NT2	ulchin-4 reactor
NT2	koeberg-1 reactor	NT2	pnp-1 reactor	NT2	unterweser reactor
NT2	koeberg-2 reactor	NT2	point beach-1 reactor	NT2	vahnum-1 reactor
NT2	kori-1 reactor	NT2	point beach-2 reactor	NT2	vahnum-2 reactor
NT2	kori-2 reactor	NT2	prairie island-1 reactor	NT2	vandellos-2 reactor
NT2	kori-3 reactor	NT2	prairie island-2 reactor	NT2	vogtle-1 reactor
NT2	kori-4 reactor	NT2	qinshan-1 reactor	NT2	vogtle-2 reactor
NT2	krsko reactor	NT2	qinshan-2-1 reactor	NT2	vogtle-3 reactor
NT2	lemoniz-1 reactor	NT2	qinshan-2-2 reactor	NT2	vogtle-4 reactor
NT2	lemoniz-2 reactor	NT2	quanicassee-1 reactor	NT2	waterford-3 reactor
NT2	lenin reactor	NT2	quanicassee-2 reactor	NT2	waterford-4 reactor
NT2	leonid brezhnev reactor	NT2	rancho seco-1 reactor	NT2	watts bar-1 reactor
NT2	lingao-1 reactor	NT2	remerschen reactor	NT2	watts bar-2 reactor

NT2	westinghouse standard reactor	NT2	wyhl-1 reactor	NT1	tr-1 reactor
NT2	wnp-1 reactor	NT2	wyhl-2 reactor	NT1	tr-2 reactor
NT2	wnp-3 reactor	NT2	yellow creek-1 reactor	NT1	tracy reactor
NT2	wnp-4 reactor	NT2	yellow creek-2 reactor	NT1	treat reactor
NT2	wnp-5 reactor	NT2	yonggwang-1 reactor	NT1	triga type reactors
NT2	wolf creek-1 reactor	NT2	yonggwang-2 reactor	NT2	afri reactor
NT2	wup-3 reactor	NT2	yonggwang-3 reactor	NT2	atpr reactor
NT2	wup-4 reactor	NT2	yonggwang-4 reactor	NT2	colorado triga-mk-3 reactor
NT2	wup-5 reactor	NT2	zion-1 reactor	NT2	cornell triga-mk-2 reactor
NT2	wup-6 reactor	NT2	zion-2 reactor	NT2	dow triga-mk-1 reactor
NT2	wwer type reactors	NT2	zorita-1 reactor	NT2	fir-1 reactor
NT3	armenian-1 reactor	NT1	r-2 reactor	NT2	frf-2 reactor
NT3	armenian-2 reactor	NT1	r-a reactor	NT2	fm reactor
NT3	balakovo-1 reactor	NT1	r2-0 reactor	NT2	gulf triga-mk-3 reactor
NT3	balakovo-2 reactor	NT1	ra-5 reactor	NT2	kartini-ppny reactor
NT3	balakovo-3 reactor	NT1	ra-6 reactor	NT2	lopra reactor
NT3	balakovo-4 reactor	NT1	ra-8 reactor	NT2	nscr reactor
NT3	blahutovice-1 reactor	NT1	rana reactor	NT2	ostr reactor
NT3	bohunice v-1 reactor	NT1	rapsodie reactor	NT2	prpr reactor
NT3	bohunice v-2 reactor	NT1	rb-1 reactor	NT2	pstr reactor
NT3	dukovany-1 reactor	NT1	rg-1m reactor	NT2	rtp reactor
NT3	dukovany-2 reactor	NT1	ritmo reactor	NT2	trico reactor
NT3	dukovany-3 reactor	NT1	rospo reactor	NT2	triga-1-arizona reactor
NT3	dukovany-4 reactor	NT1	rpt reactor	NT2	triga-1-california reactor
NT3	greifswald-1 reactor	NT1	rts-1 reactor	NT2	triga-1-hanford reactor
NT3	greifswald-2 reactor	NT1	rv-1 reactor	NT2	triga-1-hanover reactor
NT3	greifswald-3 reactor	NT1	safari-1 reactor	NT2	triga-1-heidelberg reactor
NT3	greifswald-4 reactor	NT1	saphir reactor	NT2	triga-1-michigan reactor
NT3	greifswald-5 reactor	NT1	sbr-1 reactor	NT2	triga-2-bandung reactor
NT3	greifswald-6 reactor	NT1	schmehausen-2 reactor	NT2	triga-2-bangladesh reactor
NT3	juragua-1 reactor	NT1	ser reactor	NT2	triga-2-dalat reactor
NT3	kalinin-1 reactor	NT1	sghwr reactor	NT2	triga-2-illinois reactor
NT3	kalinin-3 reactor	NT1	shca reactor	NT2	triga-2-kansas reactor
NT3	kecerovce-1 reactor	NT1	silene reactor	NT2	triga-2-ljubljana reactor
NT3	khmelnitskij-1 reactor	NT1	siloe reactor	NT2	triga-2-mainz reactor
NT3	kola-1 reactor	NT1	siloette reactor	NT2	triga-2-musashi reactor
NT3	kola-2 reactor	NT1	slowpoke type reactors	NT2	triga-2-pavia reactor
NT3	kola-3 reactor	NT2	slowpoke-alberta reactor	NT2	triga-2-pitesti reactor
NT3	kola-4 reactor	NT2	slowpoke-dalhousie reactor	NT2	triga-2 reactor
NT3	kozloduy-1 reactor	NT2	slowpoke-montreal reactor	NT2	triga-2-rikkyo reactor
NT3	kozloduy-2 reactor	NT2	slowpoke-ottawa reactor	NT2	triga-2-rome reactor
NT3	kozloduy-3 reactor	NT2	slowpoke-toronto reactor	NT2	triga-2-seoul reactor
NT3	kozloduy-4 reactor	NT2	slowpoke-wvre reactor	NT2	triga-2-vienna reactor
NT3	kozloduy-5 reactor	NT1	smolensk-1 reactor	NT2	triga-3-la jolla reactor
NT3	kozloduy-6 reactor	NT1	smolensk-2 reactor	NT2	triga-3-munich reactor
NT3	kudankulam-1 reactor	NT1	smolensk-3 reactor	NT2	triga-3-salazar reactor
NT3	kudankulam-2 reactor	NT1	snap 10 reactor	NT2	triga-3-seoul reactor
NT3	loviisa-1 reactor	NT2	s10fs-1 reactor	NT2	triga-brazil reactor
NT3	loviisa-2 reactor	NT2	s10fs-3 reactor	NT2	triga-texas reactor
NT3	mochovce-1 reactor	NT2	s10fs-4 reactor	NT2	triga-veterans reactor
NT3	mochovce-2 reactor	NT1	snap 2 reactor	NT2	ucbrr reactor
NT3	novovoronezh-1 reactor	NT2	s2ds reactor	NT2	uwnr reactor
NT3	novovoronezh-2 reactor	NT1	snap 50 reactor	NT2	wsur reactor
NT3	novovoronezh-3 reactor	NT1	snap 8 reactor	NT1	triton reactor
NT3	novovoronezh-4 reactor	NT2	s8dr reactor	NT1	trr-1 reactor
NT3	novovoronezh-5 reactor	NT2	s8er reactor	NT1	tsr-1 reactor
NT3	paks-1 reactor	NT1	snap-tsrf reactor	NT1	tz1 reactor
NT3	paks-2 reactor	NT1	snaptran reactors	NT1	tz2 reactor
NT3	paks-3 reactor	NT1	spert-1 reactor	NT1	uhtrex reactor
NT3	paks-4 reactor	NT1	spert-2 reactor	NT1	uknr reactor
NT3	rovno-1 reactor	NT1	spert-3 reactor	NT1	umne-1 reactor
NT3	rovno-2 reactor	NT1	spert-4 reactor	NT1	umrr reactor
NT3	rovno-3 reactor	NT1	sr-1 reactor	NT1	utrr reactor
NT3	rovno-4 reactor	NT1	sr-0a reactor	NT1	uvar reactor
NT3	rovno-5 reactor	NT1	sre reactor	NT1	uwtr reactor
NT3	south ukrainian-1 reactor	NT1	stacy reactor	NT1	venus reactor
NT3	south ukrainian-2 reactor	NT1	stek reactor	NT1	vg-400 reactor
NT3	south ukrainian-3 reactor	NT1	stir reactor	NT1	vgr-50 reactor
NT3	stendal-1 reactor	NT1	summit-1 reactor	NT1	vhtr reactor
NT3	tatarian reactor	NT1	summit-2 reactor	NT1	vidal-1 reactor
NT3	temelin-1 reactor	NT1	super phenix reactor	NT1	vidal-2 reactor
NT3	temelin-2 reactor	NT1	supo reactor	NT1	viper reactor
NT3	tianwan-1 reactor	NT1	sur-100 series reactor	NT1	vr-1 reactor
NT3	zaporozhe-1 reactor	NT1	tca reactor	NT1	vrain reactor
NT3	zaporozhe-2 reactor	NT1	thetis reactor	NT1	wnttr reactor
NT3	zaporozhe-3 reactor	NT1	thor reactor	NT1	wpir reactor
NT3	zaporozhe-4 reactor	NT1	thtr-300 reactor	NT1	wr-1 reactor
NT3	zaporozhe-5 reactor	NT1	tibr reactor	NT1	wrrr reactor
NT3	zaporozhe-6 reactor	NT1	toshiba reactor	NT1	wtr reactor

**NT1** wwr type reactors  
**NT2** budapest training reactor  
**NT2** irt-1 libya reactor  
**NT2** irt-baghdad reactor  
**NT2** lvr-15 reactor  
**NT2** wwr-2 reactor  
**NT2** wwr-k-almaty reactor  
**NT2** wwr-m-kiev reactor  
**NT2** wwr-m-leningrad reactor  
**NT2** wwr-s-bucharest reactor  
**NT2** wwr-s-budapest reactor  
**NT2** wwr-s-cairo reactor  
**NT2** wwr-s-moscow reactor  
**NT2** wwr-s-prague reactor  
**NT2** wwr-s-tashkent reactor  
**NT2** wwr-sm rossendorf reactor  
**NT2** wwr-z reactor  
**NT1** xma-1 reactor  
**NT1** zlfr reactor  
**NT1** zpr reactor  
*RT* beloyarsk-3 reactor  
*RT* bn-350 reactor  
*RT* cesar reactor  
*RT* clinch river breeder reactor  
*RT* ebr-2 reactor  
*RT* enriched uranium  
*RT* eole reactor  
*RT* iea-zpr reactor  
*RT* lwgr type reactors  
*RT* nora reactor  
*RT* pdp reactor  
*RT* pfr reactor  
*RT* sneak reactor  
*RT* vera reactor  
*RT* zebra reactor  
*RT* zenith reactor

## ENRICHMENT

2000-04-12

For isotopic enrichment use ISOTOPE SEPARATION.

**NT1** ore enrichment  
**NT1** oxygen enrichment  
*RT* isotope separation  
*RT* purification  
*RT* refining

### enrichment (isotopic)

USE isotope separation

### enrichment (ores)

USE ore enrichment

### enrichment (uranium)

INIS: 1975-08-20; ETDE: 2002-06-13

USE isotope separation

### enrichment plants (centrifuge)

INIS: 1978-02-23; ETDE: 1978-04-27

USE centrifuge enrichment plants

### enrichment plants (gaseous diffusion)

INIS: 1993-11-08; ETDE: 2002-06-13

USE gaseous diffusion plants

### enrichment plants (ultracentrifuge)

INIS: 1993-11-08; ETDE: 2002-06-13

USE centrifuge enrichment plants

## ENRICO FERMI-1 REACTOR

Detroit Edison Co., New Port, Michigan, USA. Shut down in 1972; mothballed.

**\*BT1** enriched uranium reactors  
**\*BT1** lmfr type reactors  
**\*BT1** power reactors  
**\*BT1** sodium cooled reactors

## ENRICO FERMI-2 REACTOR

Detroit Edison Co., New Port, Michigan, USA.

**\*BT1** bwr type reactors

### enrico fermi award

INIS: 2000-04-12; ETDE: 1981-01-27  
(Prior to June 1994, this was a valid ETDE descriptor.)

USE awards

### enrico fermi nuclear research center reactor

1993-11-05

USE cesnef reactor

### enrico fermi reactor

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

SEE pwr type reactors  
 SEE ship propulsion reactors

## ENSTATITE

ETDE: 1976-03-31

A common rock forming mineral of the orthopyroxene group.

**\*BT1** silicate minerals  
*RT* magnesium silicates

## ENTERITIS

**\*BT1** digestive system diseases  
*RT* diarrhea  
*RT* intestines

## ENTHALPY

**\*BT1** thermodynamic properties  
**NT1** absorption heat  
**NT1** adsorption heat  
**NT1** mixing heat  
**NT1** reaction heat  
**NT2** combustion heat  
**NT2** dissociation heat  
**NT2** formation heat  
**NT1** solution heat  
**NT1** transition heat  
**NT2** fusion heat  
**NT2** sublimation heat  
**NT2** vaporization heat  
*RT* entropy  
*RT* heating load  
*RT* thermodynamics

### enthalpy of formation

INIS: 1975-09-01; ETDE: 2002-06-13

USE formation heat

### enthalpy wheels

2006-07-03

SEE heat exchangers

## ENTITLEMENTS PROGRAM

INIS: 2000-04-12; ETDE: 1977-06-02  
Government program under which refiners with unusually large amounts of old (cheaper) crude pay premium to refine it; premium is paid to firms that have primarily higher-cost crude.

*UF* domestic crude oil entitlements program  
*RT* allocations  
*RT* petroleum refineries  
*RT* prices

### entombment (radioactive materials)

INIS: 1993-11-08; ETDE: 2002-06-13

USE containment

## entomology

USE insects

## ENTRAINMENT

1997-06-17

*RT* babcock and wilcox-dupont process  
*RT* ce entrained fuel process  
*RT* combined-cycle fw process  
*RT* dow gasification process  
*RT* extraction apparatuses  
*RT* impingement  
*RT* solvent extraction

### entrainment separators

INIS: 2000-04-12; ETDE: 1977-03-08

USE mist extractors

## ENTROPY

**\*BT1** thermodynamic properties  
*RT* energy quality  
*RT* enthalpy  
*RT* formation free enthalpy  
*RT* h theorem  
*RT* isentropic processes  
*RT* quantum information  
*RT* thermodynamics

## ENTRY CONTROL SYSTEMS

INIS: 1999-05-12; ETDE: 1982-07-08

Systems for controlling access to areas of a facility.

*UF* access denial systems  
**BT1** control systems  
*RT* human intrusion  
*RT* identification systems  
*RT* physical protection  
*RT* physical protection devices  
*RT* security

### entwickelter fortschrittlicher

#### druckwasser reaktor

INIS: 1993-11-08; ETDE: 2002-06-13

USE efd-50 reactor

### envelope houses

INIS: 2000-04-12; ETDE: 1981-06-13

USE double envelope buildings

## ENVIRONMENT

*RT* accidents  
*RT* biological adaptation  
*RT* biosphere  
*RT* clean air acts  
*RT* clean water acts  
*RT* contamination  
*RT* controlled atmospheres  
*RT* earth atmosphere  
*RT* ecosystems  
*RT* environmental awareness  
*RT* environmental effects  
*RT* environmental exposure pathway  
*RT* environmental impact statements  
*RT* environmental impacts  
*RT* environmental policy  
*RT* environmental protection  
*RT* environmental transport  
*RT* fallout deposits  
*RT* habitat  
*RT* hydrosphere  
*RT* land use  
*RT* nature reserves  
*RT* pollution  
*RT* preventive medicine  
*RT* radiation protection  
*RT* radionuclide migration  
*RT* reactor sites  
*RT* recreational areas  
*RT* regional analysis  
*RT* site selection  
*RT* thermal comfort  
*RT* us national environmental policy act  
*RT* water use  
*RT* wilderness protection acts

**ENVIRONMENTAL AWARENESS**

2004-08-26

*Public consciousness related to the environment, preservation of its quality, and causes of its deterioration.*

- BT1 public opinion
- RT environment
- RT environmental policy
- RT environmental quality

**environmental concentration**

INIS: 2000-04-12; ETDE: 1984-06-14

USE ecological concentration

**ENVIRONMENTAL EFFECTS**

1991-08-09

*Actual effects on the environment.*

- RT environment
- RT environmental impact statements
- RT environmental impacts
- RT environmental policy
- RT environmental protection
- RT land pollution
- RT thermal pollution
- RT water pollution

**ENVIRONMENTAL ENGINEERING**

- BT1 engineering
- RT aesthetics
- RT air conditioning
- RT pollution control equipment
- RT remedial action

**ENVIRONMENTAL EXPOSURE**

INIS: 1992-02-20; ETDE: 1984-09-21

- RT acute exposure
- RT air pollution
- RT carcinogens
- RT chronic exposure
- RT hazardous materials
- RT ionizing radiations
- RT land pollution
- RT mutagens
- RT water pollution

**environmental exposure chambers**

INIS: 1978-09-28; ETDE: 1977-10-20

USE exposure chambers

**ENVIRONMENTAL EXPOSURE PATHWAY**

INIS: 1975-09-25; ETDE: 1975-10-01

- RT biointrusion
- RT biological availability
- RT biological models
- RT ecosystems
- RT environment
- RT food chains
- RT radioactive waste disposal
- RT radionuclide migration

**ENVIRONMENTAL IMPACT STATEMENTS***Use only for items about Environmental Impact Statements, not for documents which are such statements.*

- BT1 document types
- RT environment
- RT environmental effects
- RT environmental impacts
- RT us national environmental policy act

**ENVIRONMENTAL IMPACTS**

INIS: 1977-07-05; ETDE: 1977-01-31

*Possible or anticipated effects on the environment from a proposed project.*

- RT aesthetics
- RT environment
- RT environmental effects
- RT environmental impact statements
- RT environmental policy

- RT environmental protection
- RT heavy metals
- RT kyoto protocol
- RT life cycle assessment
- RT nuclear winter
- RT rio declaration

**ENVIRONMENTAL MATERIALS**

INIS: 1980-12-02; ETDE: 1978-01-23

*Use only for unspecified samples from the environment.*

- UF materials (environmental)
- BT1 materials
- RT air
- RT atmospheric precipitations
- RT biological materials
- RT detritus
- RT minerals
- RT ores
- RT rocks
- RT sediments
- RT soils
- RT water

**ENVIRONMENTAL****MEASUREMENTS LABORATORY**

INIS: 1992-07-07; ETDE: 1984-07-20

New York, USA.

SF eml

\*BT1 us doe

**environmental parks**

INIS: 1992-03-30; ETDE: 1978-08-08

USE nature reserves

**ENVIRONMENTAL POLICY**

INIS: 1999-07-07; ETDE: 1978-02-14

- SF policy
- BT1 government policies
- NT1 emissions trading
- NT1 water policy
- RT clean air acts
- RT clean water acts
- RT economics
- RT emissions tax
- RT environment
- RT environmental awareness
- RT environmental effects
- RT environmental impacts
- RT kyoto protocol
- RT life cycle assessment
- RT planning
- RT rio declaration
- RT sustainable development
- RT us national environmental policy act
- RT us superfund

**ENVIRONMENTAL PROTECTION**

2004-08-26

*Action to minimize harmful effects of human activities on the environment.*

- UF nature conservation
- RT climatic change
- RT environment
- RT environmental effects
- RT environmental impacts
- RT kyoto protocol
- RT resource conservation
- RT rio declaration
- RT sustainable development

**environmental protection agency**

1978-07-04

USE us epa

**ENVIRONMENTAL QUALITY**

INIS: 1991-08-07; ETDE: 1979-09-06

- NT1 air quality
- NT1 water quality
- RT environmental awareness

**environmental temperature**

INIS: 2000-04-12; ETDE: 1976-03-22

USE ambient temperature

**ENVIRONMENTAL TRANSPORT**

INIS: 1982-12-03; ETDE: 1976-11-01

*For movement of chemicals, nuclides, etc., in the environment; not for goods and persons.*

- SF transport (environmental)
- BT1 mass transfer
- NT1 long-range transport
- NT1 radionuclide migration
- NT1 runoff
- RT air-biosphere interactions
- RT air-water interactions
- RT downwelling
- RT ecological concentration
- RT environment
- RT leachates
- RT radioecological concentration
- RT sinks
- RT transfrontier contamination

**ENZYMATIC HYDROLYSIS**

INIS: 1997-06-19; ETDE: 1976-03-22

UF cellulolytic activity

- \*BT1 hydrolysis
- RT acid hydrolysis
- RT alkaline hydrolysis
- RT biodegradation
- RT cellulase
- RT clostridium thermocellum
- RT enzymes
- RT hydrolases
- RT thermoactinomyces

**ENZYME ACTIVITY**

INIS: 1985-07-23; ETDE: 1978-08-08

- RT activity levels
- RT biochemical reaction kinetics
- RT catalysis
- RT chemical reaction kinetics
- RT enzymes
- RT metabolic activation
- RT metabolism
- RT structure-activity relationships

**ENZYME IMMUNOASSAY**

INIS: 1985-01-18; ETDE: 1985-02-22

UF elisa

- \*BT1 immunoassay
- RT antibodies
- RT antigen-antibody reactions
- RT antigens
- RT cpb
- RT enzymes

**ENZYME INDUCTION**

INIS: 1992-03-10; ETDE: 1985-11-19

*The process by which a cell accelerates the production of a specific protein or enzyme in response to environmental changes.*

- BT1 gene regulation
- RT biosynthesis
- RT enzymes
- RT gene repressors

**ENZYME INHIBITORS**

INIS: 1978-08-30; ETDE: 1976-03-11

*Substances capable of stopping or retarding the action of an enzyme. They usually interact with the enzyme to reduce the rate of reaction.*

- UF inhibitors (enzyme)
- RT enzymes
- RT inhibition

**ENZYME REACTIVATION**

INIS: 1993-08-24; ETDE: 1976-11-01

- RT chemical activation
- RT enzymes

**ENZYMES**

*The enzyme code numbers from enzyme nomenclature: Recommendations (1972) of the International Union of Pure and Applied Chemistry and the International Union of Biochemistry are given in scope notes for the individual enzymes.*

- UF photoreactivating enzyme
- UF pre (photoreactivating enzyme)
- \*BT1 proteins
- NT1 dna helicases
- NT1 gene recombination proteins
- NT1 hydrolases
  - NT2 acid anhydrases
    - NT3 gtp-ases
    - NT3 phosphohydrolases
    - NT4 atp-ase
  - NT2 esterases
    - NT3 carboxylesterases
    - NT4 cholinesterase
    - NT4 lipases
  - NT3 phosphatases
    - NT4 acid phosphatase
    - NT4 alkaline phosphatase
    - NT4 nucleotidases
  - NT3 phosphodiesterases
    - NT4 nucleases
    - NT5 dna-ase
    - NT6 endonucleases
    - NT5 rna-ase
  - NT2 glycosyl hydrolases
    - NT3 o-glycosyl hydrolases
    - NT4 amylase
    - NT4 cellulase
    - NT4 galactosidase
    - NT4 glucosidase
    - NT4 glucuronidase
    - NT4 hyaluronidase
    - NT4 lysozyme
    - NT4 xylanase
  - NT2 non-peptide c-n hydrolases
    - NT3 amidases
      - NT4 arginase
      - NT4 urease
    - NT3 amidinases
  - NT2 peptide hydrolases
    - NT3 acid proteinases
      - NT4 pepsin
    - NT3 aminopeptidases
    - NT3 carboxypeptidases
    - NT3 nonspecific peptidases
      - NT4 renin
      - NT4 urokinase
    - NT3 serine proteinases
      - NT4 chymotrypsin
      - NT4 fibrinolysin
      - NT4 kallikrein
      - NT4 thrombin
      - NT4 trypsin
    - NT3 sh-proteinases
      - NT4 cathepsins
      - NT4 papain
      - NT4 streptococcal proteinase
  - NT1 isomerases
  - NT1 ligases
  - NT1 lyases
    - NT2 carbon-carbon lyases
      - NT3 aldehyde-lyases
      - NT3 aldolases
      - NT3 carboxy-lyases
        - NT4 carboxylase
        - NT4 decarboxylases
        - NT4 ribulose diphosphate carboxylase
    - NT2 carbon-oxygen lyases
      - NT3 hyaluronidase
      - NT3 hydro-lyases
        - NT4 carbonic anhydrase
    - NT2 cyclases

- NT2 dna methylases
- NT1 oxidoreductases
  - NT2 amine oxidases
  - NT2 aryl 4-monoxygenase
  - NT2 diaphorase
  - NT2 hemiacetal dehydrogenases
    - NT3 alcohol dehydrogenase
    - NT3 lactate dehydrogenase
  - NT2 hydrogenases
  - NT2 hydroxylases
    - NT3 tyrosinase
  - NT2 nitro-group dehydrogenases
    - NT3 nitrogenase
  - NT2 oxidases
    - NT3 cytochrome oxidase
    - NT3 luciferase
  - NT2 oxygenases
    - NT3 mixed-function oxidases
  - NT2 peroxidases
    - NT3 catalase
  - NT2 superoxide dismutase
- NT1 transferases
  - NT2 carbon-group transferases
    - NT3 methyl transferases
  - NT2 glycosyl transferases
    - NT3 hexosyl transferases
    - NT3 pentosyl transferases
    - NT4 hypoxanthine phosphoribosyltransferase
  - NT2 nitrogen transferases
    - NT3 aminotransferases
  - NT2 phosphorus-group transferases
    - NT3 nucleotidyltransferases
      - NT4 polymerases
        - NT5 dna polymerases
        - NT5 rna polymerases
      - NT3 phosphotransferases
        - NT4 hexokinase
  - RT autolysis
  - RT biochemical reaction kinetics
  - RT biochemistry
  - RT biosynthesis
  - RT catalysis
  - RT coenzymes
  - RT digestion
  - RT enzymatic hydrolysis
  - RT enzyme activity
  - RT enzyme immunoassay
  - RT enzyme induction
  - RT enzyme inhibitors
  - RT enzyme reactivation
  - RT glycolysis
  - RT immobilized enzymes
  - RT isoenzymes
  - RT metabolism
  - RT radioenzymatic assay
  - RT receptors
  - RT substrates

**EOCENE EPOCH**

- INIS: 1992-04-14; ETDE: 1977-10-20
- \*BT1 tertiary period
- RT geologic history

**EOCR REACTOR**

- INEEL, Idaho Falls, Idaho, USA. Never operational.
- UF experimental organic cooled reactor
- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 organic cooled reactors
- \*BT1 organic moderated reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 test reactors
- \*BT1 thermal reactors

**EOLE REACTOR**

- CEA/CEN, Cadarache, St. Paul Lez Durance, France.
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- RT enriched uranium reactors
- RT natural uranium reactors

**eor**

- INIS: 2000-04-12; ETDE: 1980-03-04
- SEE enhanced recovery

**EOSIN**

- BT1 dyes
- \*BT1 hydroxy acids
- BT1 indicators
- \*BT1 organic bromine compounds
- RT phthalic acid

**EOSINOPHILS**

- \*BT1 leukocytes

**epa**

- USE us epa

**epca**

- INIS: 2000-04-12; ETDE: 1976-09-29
- USE us energy policy and conservation act

**epdm**

- INIS: 1992-09-25; ETDE: 1980-05-06
- USE ethylene propylene diene polymers

**EPEC REACTOR**

- \*BT1 power reactors

**EPHEDRINE**

- \*BT1 alkaloids
- \*BT1 amines
- \*BT1 hydroxy compounds
- \*BT1 sympathomimetics
- \*BT1 vasoconstrictors

**EPHEMEROPTERA**

- INIS: 1993-07-14; ETDE: 1984-02-21
- UF mayflies
- \*BT1 insects
- RT aquatic organisms

**EPIC STORAGE RING**

- Electron-positron(proton) intersecting complex.
- \*BT1 pep storage rings

**EPICENTERS**

- INIS: 1985-01-17; ETDE: 1978-10-25
- The parts of the earth's surface directly above the foci of earthquakes.*
- RT earthquakes

**EPIDEMIOLOGY**

- RT a-bomb survivors
- RT aids
- RT disease incidence
- RT disease resistance
- RT diseases
- RT human populations
- RT infectious diseases
- RT preventive medicine

**EPIDERMIS**

- \*BT1 epithelium
- \*BT1 skin

**EPIDOTES**

- 2000-04-12
- A mineral commonly found in metamorphic rock.*
- \*BT1 silicate minerals
- RT aluminium silicates
- RT calcium silicates

*RT* iron silicates

## EPILATION

**BT1** pathological changes  
*RT* hair  
*RT* skin

## EPILEPSY

*INIS: 1980-07-24; ETDE: 1976-07-07*  
\***BT1** nervous system diseases

## epinephrine

*ETDE: 1981-04-20*  
USE adrenaline

## epiphysis (bones)

USE bone tissues

## epiphysis (pineal gland)

USE pineal gland

## EPITAXY

**BT1** crystal growth methods  
**NT1** liquid phase epitaxy  
**NT1** molecular beam epitaxy  
**NT1** vapor phase epitaxy  
*RT* crystal growth  
*RT* crystallization

## EPITHELIOMAS

*SF* skin cancer  
\***BT1** carcinomas  
**NT1** melanomas  
*RT* epithelium

## EPITHELIUM

\***BT1** animal tissues  
**NT1** epidermis  
*RT* carcinomas  
*RT* conjunctiva  
*RT* crypt cells  
*RT* endothelium  
*RT* epitheliomas  
*RT* hair follicles  
*RT* mucous membranes

## EPITHERMAL NEUTRONS

\***BT1** neutrons  
*RT* epithermal reactors

## EPITHERMAL REACTORS

**BT1** reactors  
**NT1** fast reactors  
**NT2** actinide burner reactors  
**NT2** afsr reactor  
**NT2** aprf reactor  
**NT2** bfs reactor  
**NT2** bigr reactor  
**NT2** bir reactor  
**NT2** cejr reactor  
**NT2** cfrmf reactor  
**NT2** clementine reactor  
**NT2** coral-1 reactor  
**NT2** ecel reactor  
**NT2** fbr type reactors  
**NT3** aipfr reactor  
**NT3** gcfr type reactors  
**NT4** gcfr reactor  
**NT3** kalpakkam pfr reactor  
**NT3** lmfr type reactors  
**NT4** beloyarsk-3 reactor  
**NT4** beloyarsk-4 reactor  
**NT4** bn-1600 reactor  
**NT4** bn-350 reactor  
**NT4** bn-800 reactor  
**NT4** bor-60 reactor  
**NT4** cdfr reactor  
**NT4** clinch river breeder reactor  
**NT4** dfr reactor  
**NT4** ebr-1 reactor  
**NT4** ebr-2 reactor  
**NT4** enrico fermi-1 reactor

**NT4** joyo reactor  
**NT4** kalpakkam lmfr reactor  
**NT4** monju reactor  
**NT4** pfr reactor  
**NT4** phenix reactor  
**NT4** plbr reactor  
**NT4** rapsodie reactor  
**NT4** sbr-1 reactor  
**NT4** sbr-2 reactor  
**NT4** sbr-5 reactor  
**NT4** snr-2 reactor  
**NT4** snr reactor  
**NT4** super phenix reactor  
**NT3** pec brasimone reactor  
**NT3** zebra reactor  
**NT2** fbrf reactor  
**NT2** fca reactor  
**NT2** ffrf reactor  
**NT2** fr-0 reactor  
**NT2** harmonie reactor  
**NT2** hpr reactor  
**NT2** ibr-2 reactor  
**NT2** ibr-30 reactor  
**NT2** ifr reactor  
**NT2** kalpakkam pfr reactor  
**NT2** kbr-1 reactor  
**NT2** knk-2 reactor  
**NT2** lampre-1 reactor  
**NT2** masurca reactor  
**NT2** purmima-2 reactor  
**NT2** purmima reactor  
**NT2** saref reactor  
**NT2** sefor reactor  
**NT2** sneak reactor  
**NT2** sora reactor  
**NT2** stf reactor  
**NT2** tapiro reactor  
**NT2** tibr reactor  
**NT2** vera reactor  
**NT2** viper reactor  
**NT2** wntr reactor  
**NT2** yayoi reactor  
**NT2** zephyr reactor  
**NT2** zppr reactor  
**NT2** zpr-3 reactor  
**NT2** zpr-6 reactor  
**NT2** zpr-9 reactor  
**NT2** zrr reactor  
**NT1** intermediate reactors  
**NT2** thor reactor  
*RT* epithermal neutrons

## EPOXIDES

*UF* epoxy compounds  
*UF* oxirans  
*UF* poly(isobutylene oxide)  
\***BT1** organic oxygen compounds  
**NT1** araldite  
*RT* heterocyclic compounds  
*RT* potting materials  
*RT* resins

## epoxy compounds

USE epoxides

## epr

USE electron spin resonance

## EPR SPECTROMETERS

\***BT1** spectrometers

## EPRI

*INIS: 1982-12-03; ETDE: 1977-01-10*  
*Organization founded by US utilities to develop and carryout broad, coordinated technology program for improving electric power.*  
*UF* electric power research institute  
*RT* electric power  
*RT* electric power industry

## epsilon resonances

2000-04-12  
USE mesons

## epstein-barr virus

*INIS: 1976-03-25; ETDE: 1975-08-19*  
USE oncogenic viruses

## EQUATIONS

1996-07-08  
(Prior to July 1996 MASSEY-MOHR EQUATION was a valid ETDE descriptor.)

*UF* massey-mohr equation

**NT1** abfst equation  
**NT1** arrhenius equation  
**NT1** bethe-goldstone equation  
**NT1** bethe-salpeter equation  
**NT1** bloch equations  
**NT1** born-mayer equation  
**NT1** differential equations  
**NT2** bbgky equation  
**NT2** chapman-kolmogorov equation  
**NT2** dirac-hestenes equation  
**NT2** hill equation  
**NT2** joos-weinberg equation  
**NT2** mathieu equation  
**NT2** partial differential equations  
**NT3** boltzmann equation  
**NT3** boltzmann-vlasov equation  
**NT4** plasma fluid equations  
**NT3** continuity equations  
**NT3** diffusion equations  
**NT4** neutron diffusion equation  
**NT3** equations of motion  
**NT3** fokker-planck equation  
**NT3** fourier heat equation  
**NT3** grad-shafranov equation  
**NT3** hamilton-jacobi equations  
**NT3** korteweg-de vries equation  
**NT3** lagrange equations  
**NT3** laplace equation  
**NT3** maxwell equations  
**NT3** navier-stokes equations  
**NT3** poisson equation  
**NT3** proca equations  
**NT3** wave equations  
**NT4** dirac equation  
**NT4** klein-gordon equation  
**NT4** schroedinger equation

**NT2** riccati equation  
**NT2** schwinger functional equations  
**NT2** sturm-liouville equation

**NT1** equations of state  
**NT1** faddeev equations  
**NT1** field equations  
**NT2** dirac equation  
**NT2** einstein field equations  
**NT2** einstein-maxwell equations  
**NT2** klein-gordon equation  
**NT2** sine-gordon equation  
**NT1** gribov-lipatov relation  
**NT1** inhour equation  
**NT1** integral equations  
**NT2** blankenbecler-sugar equations  
**NT2** fredholm equation  
**NT2** lippmann-schwinger equation  
**NT2** quasipotential equation  
**NT2** volterra integral equations  
**NT1** integro-differential equations  
**NT2** boltzmann equation  
**NT1** kinetic equations  
**NT2** boltzmann equation  
**NT1** langevin equation  
**NT1** london equation  
**NT1** low equation  
**NT1** percus-yevick equation  
**NT1** prediction equations  
**NT1** rankine-hugoniot equations  
**NT1** reactor kinetics equations

NT2 response matrix method  
 NT1 richardson equation  
 NT1 rydberg equation  
 NT1 saha equation  
 NT1 secular equation  
 NT1 sum rules  
 NT1 virial equation  
 NT1 weil equation  
 NT1 wilkins equation  
 RT functions  
 RT galerkin-petrov method  
 RT mathematical solutions  
 RT mathematics  
 RT series expansion

**equations (differential)**

2000-04-12

USE differential equations

**EQUATIONS OF MOTION**

\*BT1 partial differential equations  
 RT anharmonic oscillators  
 RT canonical transformations  
 RT hamilton-jacobi equations  
 RT hamiltonian function  
 RT harmonic oscillators  
 RT lagrangian function  
 RT limit cycle  
 RT mechanics  
 RT navier-stokes equations  
 RT particle kinematics

**EQUATIONS OF STATE**

BT1 equations  
 RT thermodynamics  
 RT virial equation

**EQUATOR**

RT geomagnetic equator  
 RT latitude effect

**equatorial electrojets**

USE electrojets

**EQUILIBRIUM**

NT1 lte  
 NT1 mhd equilibrium  
 NT1 thermal equilibrium  
 RT chemical reactions  
 RT dynamic function studies  
 RT partition  
 RT population dynamics  
 RT reaction kinetics  
 RT stability  
 RT steady-state conditions  
 RT thermodynamic activity

**EQUILIBRIUM PLASMA**

BT1 plasma  
 RT magnetic surfaces  
 RT non-equilibrium plasma

**EQUIPMENT**

1995-02-27

Use of a more specific term is strongly recommended.

UF apparatus  
 UF devices

NT1 appliances  
 NT2 clothes dryers  
 NT2 clothes washers  
 NT2 coal burning appliances  
 NT2 dishwashers  
 NT2 electric appliances  
 NT3 microwave ovens  
 NT2 freezers  
 NT2 gas appliances  
 NT2 ovens  
 NT3 microwave ovens  
 NT2 space heaters  
 NT3 convectors

NT2 stoves  
 NT2 water coolers  
 NT2 water heaters  
 NT3 solar water heaters  
 NT4 passive solar water heaters  
 NT5 thermic diode solar panels  
 NT2 wood burning appliances  
 NT3 wood burning furnaces  
 NT1 capacitive energy storage equipment  
 NT1 compactors  
 NT1 compressed air energy storage equipment  
 NT1 control equipment  
 NT2 electric controllers  
 NT2 flow regulators  
 NT3 baffles  
 NT3 valves  
 NT4 relief valves  
 NT4 water faucets  
 NT2 fluidic control devices  
 NT2 humidistats  
 NT2 hydraulic control devices  
 NT2 pneumatic controllers  
 NT2 pressure regulators  
 NT2 servomechanisms  
 NT2 speed regulators  
 NT2 thermostats  
 NT3 cryostats  
 NT1 dissolvers  
 NT1 distillation equipment  
 NT2 retorts  
 NT1 drilling equipment  
 NT2 blowout preventers  
 NT2 drill bits  
 NT2 drill pipes  
 NT2 drilling rigs  
 NT2 drills  
 NT3 jet drills  
 NT3 percussive drills  
 NT3 rotary drills  
 NT4 turbodrills  
 NT3 spark drills  
 NT3 subterrene penetrators  
 NT1 electrical equipment  
 NT2 antennas  
 NT3 radio telescopes  
 NT3 rectennas  
 NT2 armatures  
 NT2 battery chargers  
 NT3 solar battery chargers  
 NT2 capacitors  
 NT2 circuit breakers  
 NT2 conductor devices  
 NT3 connectors  
 NT3 electric cables  
 NT4 coaxial cables  
 NT4 cryogenic cables  
 NT4 gas-insulated cables  
 NT4 oil-filled cables  
 NT4 superconducting cables  
 NT3 electric fuses  
 NT2 current limiters  
 NT2 dc to dc converters  
 NT2 electric appliances  
 NT3 microwave ovens  
 NT2 electric bridges  
 NT2 electric coils  
 NT3 magnet coils  
 NT4 pulsed magnet coils  
 NT3 rogowski coil  
 NT3 solenoids  
 NT3 superconducting coils  
 NT2 electric contacts  
 NT2 electric generators  
 NT3 alternators  
 NT3 flux pumps  
 NT3 homopolar generators  
 NT3 induction generators  
 NT3 rotating generators

NT4 superconducting generators  
 NT3 turbogenerators  
 NT3 water current power generators  
 NT2 electric measuring instruments  
 NT3 ammeters  
 NT3 electrometers  
 NT3 electroscopes  
 NT3 galvanometers  
 NT3 potentiometers  
 NT3 power meters  
 NT3 voltmeters  
 NT2 electric motors  
 NT3 superconducting motors  
 NT2 electrical insulators  
 NT2 electromagnets  
 NT3 superconducting magnets  
 NT2 inverters  
 NT2 lightning arresters  
 NT2 potheads  
 NT2 rectifiers  
 NT3 rectifier tubes  
 NT4 ignitrons  
 NT3 semiconductor rectifiers  
 NT2 relays  
 NT2 resistors  
 NT3 photoresistors  
 NT3 semiconductor resistors  
 NT2 shunt reactors  
 NT2 switches  
 NT3 cryotrons  
 NT3 plasma switches  
 NT3 semiconductor switches  
 NT2 transformers  
 NT3 gas-insulated transformers  
 NT1 electronic equipment  
 NT2 amplifiers  
 NT3 ac amplifiers  
 NT3 dc amplifiers  
 NT3 dielectric amplifiers  
 NT3 high frequency amplifiers  
 NT3 lock-in amplifiers  
 NT3 magnetic amplifiers  
 NT3 microwave amplifiers  
 NT4 masers  
 NT3 operational amplifiers  
 NT3 parametric amplifiers  
 NT3 power amplifiers  
 NT3 preamplifiers  
 NT3 pulse amplifiers  
 NT3 transistor amplifiers  
 NT2 analog-to-digital converters  
 NT2 counting ratemeters  
 NT3 linear ratemeters  
 NT3 logarithmic ratemeters  
 NT2 digital-to-analog converters  
 NT2 function generators  
 NT3 pulse generators  
 NT4 high-voltage pulse generators  
 NT5 marx generators  
 NT2 microwave equipment  
 NT3 heterodyne receivers  
 NT3 microwave amplifiers  
 NT4 masers  
 NT3 microwave dryers  
 NT3 microwave tubes  
 NT4 backward wave tubes  
 NT4 klystrons  
 NT4 lasertrons  
 NT4 magnetrons  
 NT4 travelling wave tubes  
 NT3 squid devices  
 NT2 multiplexers  
 NT2 oscillators  
 NT3 blocking oscillators  
 NT3 parametric oscillators  
 NT3 transistor oscillators  
 NT2 oscillographs  
 NT2 power supplies  
 NT3 marx generators



- NT3 photovoltaic power supplies
- NT3 radio equipment power supplies
- NT3 spacecraft power supplies
- NT3 uninterruptible power supplies
- NT2 pulse analyzers
  - NT3 multi-channel analyzers
- NT2 pulse converters
  - NT3 current-to-frequency converters
  - NT3 time-to-amplitude converters
- NT2 pulse integrators
- NT2 radio equipment
  - NT3 heterodyne receivers
  - NT3 ionosondes
  - NT3 radio telescopes
- NT2 resonators
  - NT3 cavity resonators
  - NT4 superconducting cavity resonators
- NT2 scalars
- NT2 speech synthesizers
- NT1 farm equipment
- NT1 field production equipment
  - NT2 well injection equipment
  - NT2 well recovery equipment
  - NT2 wellheads
- NT1 harvesting equipment
- NT1 heat recovery equipment
- NT1 hydraulic equipment
  - NT2 hydraulic control devices
- NT1 laboratory equipment
  - NT2 dna sequencers
  - NT2 fume hoods
  - NT2 gloveboxes
  - NT2 hot cells
  - NT2 manipulators
  - NT2 vacuum pumps
    - NT3 cryopumps
    - NT3 sputter-ion pumps
    - NT3 turbomolecular pumps
- NT1 machinery
  - NT2 pulverizers
  - NT2 refrigerating machinery
  - NT2 turbomachinery
    - NT3 turbines
      - NT4 gas turbines
      - NT5 coal-fired gas turbines
    - NT4 hydraulic turbines
      - NT5 pump turbines
    - NT4 radial inflow turbines
    - NT4 radial-outflow reaction turbines
    - NT4 rotary separator turbines
    - NT4 steam turbines
    - NT4 wind turbines
      - NT5 diffuser augmented turbines
      - NT5 horizontal axis turbines
      - NT5 vertical axis turbines
        - NT6 giromill turbines
        - NT6 tornado turbines
      - NT5 vortex augmented turbines
    - NT3 turbochargers
    - NT3 turbodrills
    - NT3 turbofan engines
    - NT3 turbogenerators
    - NT3 turbojet engines
  - NT2 winding machines
- NT1 magnetic energy storage equipment
- NT1 magnets
  - NT2 beam bending magnets
  - NT2 beam focusing magnets
  - NT2 electromagnets
    - NT3 superconducting magnets
  - NT2 kicker magnets
  - NT2 permanent magnets
  - NT2 septum magnets
  - NT2 wiggler magnets
- NT1 materials handling equipment
  - NT2 earthmoving equipment
    - NT3 bucket wheel excavators
    - NT3 draglines
- NT2 grabs
- NT2 haulage equipment
  - NT3 conveyors
    - NT4 belt conveyors
    - NT4 chain conveyors
  - NT3 loaders
    - NT4 cutter loaders
    - NT5 coal plows
    - NT5 continuous miners
    - NT5 heading machines
    - NT5 shearer loaders
  - NT3 mine cars
- NT2 hoists
- NT2 mixers
- NT2 remote handling equipment
  - NT3 cranes
  - NT3 manipulators
- NT2 shredders
- NT2 winches
- NT1 military equipment
- NT1 mining equipment
  - NT2 bucket wheel excavators
  - NT2 cutting machines
    - NT3 cutter loaders
    - NT4 coal plows
    - NT4 continuous miners
    - NT4 heading machines
    - NT4 shearer loaders
  - NT2 roof bolts
- NT1 odorant dispensers
- NT1 optical equipment
- NT1 particle size classifiers
- NT1 pollution control equipment
  - NT2 acoustic agglomerators
  - NT2 afterburners
  - NT2 air filters
  - NT2 baghouses
  - NT2 catalytic converters
  - NT2 electrostatic precipitators
  - NT2 exhaust recirculation systems
  - NT2 oil retention booms
  - NT2 pcv systems
  - NT2 rotating disk removal systems
  - NT2 scrubbers
    - NT3 dry scrubbers
  - NT2 skimmers
  - NT2 weir oil recovery systems
- NT1 portable equipment
- NT1 pumps
  - NT2 centrifugal pumps
  - NT2 electromagnetic pumps
  - NT2 rod pumps
  - NT2 vacuum pumps
    - NT3 cryopumps
    - NT3 sputter-ion pumps
    - NT3 turbomolecular pumps
  - NT2 water pumps
    - NT3 solar water pumps
  - NT2 wind-powered pumps
- NT1 remote viewing equipment
- NT1 robots
- NT1 samplers
  - NT2 air samplers
- NT1 scrapers
- NT1 separation equipment
  - NT2 extraction apparatuses
    - NT3 extraction columns
    - NT3 mist extractors
    - NT3 mixer-settlers
    - NT3 podbielniak contactors
  - NT2 inertial separators
    - NT3 cyclone separators
  - NT2 isotope separators
  - NT2 vapor separators
    - NT3 steam separators
- NT1 solar equipment
  - NT2 heliostats
    - NT3 solar tracking systems
  - NT2 photovoltaic power supplies
- NT2 pyranometers
- NT2 pyrheliometers
- NT2 solar absorbers
- NT2 solar battery chargers
- NT2 solar cell arrays
  - NT3 solar tracking systems
- NT2 solar cells
  - NT3 aluminium arsenide solar cells
  - NT3 back contact solar cells
  - NT3 cadmium arsenide solar cells
  - NT3 cadmium selenide solar cells
  - NT3 cadmium sulfide solar cells
  - NT3 cadmium telluride solar cells
  - NT3 cascade solar cells
  - NT3 concentrator solar cells
  - NT3 copper oxide solar cells
  - NT3 copper selenide solar cells
  - NT3 copper sulfide solar cells
  - NT3 gallium arsenide solar cells
  - NT3 gallium phosphide solar cells
  - NT3 indium phosphide solar cells
  - NT3 indium selenide solar cells
  - NT3 mi solar cells
  - NT3 mis solar cells
  - NT3 mos solar cells
  - NT3 ms solar cells
  - NT3 organic solar cells
  - NT3 pis solar cells
  - NT3 ps solar cells
  - NT3 schottky barrier solar cells
  - NT3 selenium solar cells
  - NT3 silicon arsenide solar cells
  - NT3 silicon solar cells
    - NT4 soc solar cells
  - NT3 zinc phosphide solar cells
  - NT3 zinc sulfide solar cells
- NT2 solar collectors
  - NT3 combined collectors
  - NT3 concentrating collectors
    - NT4 fixed mirror collectors
    - NT4 parabolic collectors
      - NT5 parabolic dish collectors
      - NT5 parabolic trough collectors
    - NT4 slat type collectors
    - NT4 tower focus collectors
    - NT4 v trough collectors
  - NT3 evacuated collectors
    - NT4 evacuated tube collectors
  - NT3 flat plate collectors
    - NT4 trickle-type collectors
  - NT3 inflatable collectors
  - NT3 solar air heaters
  - NT3 solar ponds
    - NT4 roof ponds
  - NT3 solar tracking systems
  - NT3 unglazed solar collectors
- NT2 solar concentrators
  - NT3 cassegrainian concentrators
  - NT3 compound parabolic concentrators
    - NT3 luminescent concentrators
    - NT3 solar reflectors
      - NT4 fresnel reflectors
      - NT4 orbital solar reflectors
      - NT4 parabolic reflectors
        - NT5 parabolic dish reflectors
        - NT5 parabolic trough reflectors
- NT2 solar cookers
- NT2 solar cooling systems
  - NT3 passive solar cooling systems
    - NT4 bead walls
    - NT4 drum walls
    - NT4 roof ponds
  - NT3 solar air conditioners
    - NT4 solar-assisted heat pumps
  - NT3 solar refrigerators
- NT2 solar dryers
- NT2 solar furnaces
- NT2 solar heating systems

**NT3** passive solar heating systems  
**NT4** bead walls  
**NT4** direct gain systems  
**NT4** drum walls  
**NT4** roof ponds  
**NT4** thermic diode solar panels  
**NT4** trombe walls  
**NT4** water walls  
**NT3** solar-assisted heat pumps  
**NT2** solar kilns  
**NT2** solar regenerators  
**NT2** solar simulators  
**NT2** solar stills  
**NT2** solar water heaters  
**NT3** passive solar water heaters  
**NT4** thermic diode solar panels  
**NT2** solar water pumps  
**NT2** spectrally selective surfaces  
**NT1** thermal energy storage equipment  
**NT1** tools  
**NT2** cutting tools  
**NT2** drill bits  
**NT2** machine tools  
**NT3** grinding machines  
**NT3** lathes  
**NT3** milling machines  
**NT1** tunneling machines  
**NT1** well casings  
**NT1** well logging equipment  
**NT1** wind tunnels  
**NT1** x-ray equipment  
**NT2** x-ray tubes  
**RT** equipment interfaces  
**RT** human factors engineering  
**RT** office furniture  
**RT** warranties

## EQUIPMENT INTERFACES

**UF** *interfaces (equipment)*  
**RT** camac system  
**RT** computer architecture  
**RT** computers  
**RT** data transmission  
**RT** electronic equipment  
**RT** equipment  
**RT** fastbus system

## EQUIPMENT PROTECTION DEVICES

**NT1** circuit breakers  
**NT1** electric fuses  
**RT** cryostats  
**RT** reactor protection systems  
**RT** relays  
**RT** switches

## EQUIVALENCE PRINCIPLE

**RT** general relativity theory  
**RT** gravitational fields  
**RT** mass

## EQUIVALENT CIRCUITS

**BT1** electronic circuits

## EQUIVALENT FISSION FLUENCE

*INIS: 1976-05-07; ETDE: 1978-03-08*  
**\*BT1** damaging neutron fluence  
**RT** irradiation  
**RT** neutronic damage functions  
**RT** physical radiation effects

## EQUIVALENT-PHOTON

### APPROXIMATION

**UF** *williams-weizsacker approximation*  
**\*BT1** approximations  
**RT** photon-photon interactions  
**RT** quantum electrodynamics

## ERBIUM

**\*BT1** rare earths

## ERBIUM 145

*1989-07-19*

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** erbium isotopes  
**\*BT1** even-odd nuclei  
**\*BT1** rare earth nuclei

## ERBIUM 146

*INIS: 1992-09-22; ETDE: 1984-09-05*

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** erbium isotopes  
**\*BT1** even-even nuclei  
**\*BT1** intermediate mass nuclei  
**\*BT1** seconds living radioisotopes

## ERBIUM 147

*INIS: 1983-09-05; ETDE: 1983-08-25*

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** erbium isotopes  
**\*BT1** even-odd nuclei  
**\*BT1** rare earth nuclei  
**\*BT1** seconds living radioisotopes

## ERBIUM 148

*1981-09-17*

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** erbium isotopes  
**\*BT1** even-even nuclei  
**\*BT1** rare earth nuclei  
**\*BT1** seconds living radioisotopes

## ERBIUM 149

*INIS: 1984-10-19; ETDE: 1984-05-08*

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** erbium isotopes  
**\*BT1** even-odd nuclei  
**\*BT1** rare earth nuclei  
**\*BT1** seconds living radioisotopes

## ERBIUM 150

*INIS: 1977-01-25; ETDE: 1976-11-01*

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** erbium isotopes  
**\*BT1** even-even nuclei  
**\*BT1** rare earth nuclei  
**\*BT1** seconds living radioisotopes

## ERBIUM 151

*1977-01-26*

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** erbium isotopes  
**\*BT1** even-odd nuclei  
**\*BT1** isomeric transition isotopes  
**\*BT1** milliseconds living radioisotopes  
**\*BT1** rare earth nuclei  
**\*BT1** seconds living radioisotopes

## ERBIUM 152

**\*BT1** alpha decay radioisotopes  
**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** erbium isotopes  
**\*BT1** even-even nuclei  
**\*BT1** rare earth nuclei  
**\*BT1** seconds living radioisotopes

## ERBIUM 153

**\*BT1** alpha decay radioisotopes  
**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** erbium isotopes  
**\*BT1** even-odd nuclei  
**\*BT1** rare earth nuclei  
**\*BT1** seconds living radioisotopes

## ERBIUM 154

**\*BT1** alpha decay radioisotopes

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** erbium isotopes  
**\*BT1** even-even nuclei  
**\*BT1** minutes living radioisotopes  
**\*BT1** rare earth nuclei

## ERBIUM 155

**\*BT1** alpha decay radioisotopes  
**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** erbium isotopes  
**\*BT1** even-odd nuclei  
**\*BT1** minutes living radioisotopes  
**\*BT1** rare earth nuclei

## ERBIUM 156

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** erbium isotopes  
**\*BT1** even-even nuclei  
**\*BT1** internal conversion radioisotopes  
**\*BT1** minutes living radioisotopes  
**\*BT1** rare earth nuclei

## ERBIUM 157

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** erbium isotopes  
**\*BT1** even-odd nuclei  
**\*BT1** minutes living radioisotopes  
**\*BT1** rare earth nuclei

## ERBIUM 158

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** erbium isotopes  
**\*BT1** even-even nuclei  
**\*BT1** hours living radioisotopes  
**\*BT1** rare earth nuclei

## ERBIUM 159

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** erbium isotopes  
**\*BT1** even-odd nuclei  
**\*BT1** minutes living radioisotopes  
**\*BT1** rare earth nuclei

## ERBIUM 160

**\*BT1** days living radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** erbium isotopes  
**\*BT1** even-even nuclei  
**\*BT1** rare earth nuclei

## ERBIUM 161

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** erbium isotopes  
**\*BT1** even-odd nuclei  
**\*BT1** hours living radioisotopes  
**\*BT1** rare earth nuclei

## ERBIUM 162

**\*BT1** erbium isotopes  
**\*BT1** even-even nuclei  
**\*BT1** rare earth nuclei  
**\*BT1** stable isotopes

## ERBIUM 162 TARGET

*ETDE: 1976-07-09*

**BT1** targets

## ERBIUM 163

**\*BT1** beta-plus decay radioisotopes  
**\*BT1** electron capture radioisotopes  
**\*BT1** erbium isotopes  
**\*BT1** even-odd nuclei  
**\*BT1** hours living radioisotopes  
**\*BT1** rare earth nuclei

**ERBIUM 163 TARGET***INIS: 1979-02-21; ETDE: 1979-03-28*

BT1 targets

**ERBIUM 164**

\*BT1 erbium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

**ERBIUM 164 TARGET***ETDE: 1976-07-09*

BT1 targets

**ERBIUM 165**

\*BT1 electron capture radioisotopes  
 \*BT1 erbium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 rare earth nuclei

**ERBIUM 165 TARGET***INIS: 1979-02-21; ETDE: 1979-03-28*

BT1 targets

**ERBIUM 166**

\*BT1 erbium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

**ERBIUM 166 REACTIONS***INIS: 1985-11-18; ETDE: 1985-12-13*

\*BT1 heavy ion reactions

**ERBIUM 166 TARGET***ETDE: 1976-07-09*

BT1 targets

**ERBIUM 167**

\*BT1 erbium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 stable isotopes

**ERBIUM 167 TARGET***ETDE: 1976-07-09*

BT1 targets

**ERBIUM 168**

\*BT1 erbium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

**ERBIUM 168 TARGET***ETDE: 1976-07-09*

BT1 targets

**ERBIUM 169**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 erbium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 rare earth nuclei

**ERBIUM 170**

\*BT1 erbium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

**ERBIUM 170 TARGET***ETDE: 1976-07-09*

BT1 targets

**ERBIUM 171**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 erbium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes

\*BT1 rare earth nuclei

**ERBIUM 172**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 erbium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 rare earth nuclei

**ERBIUM 173**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 erbium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

**ERBIUM 174***INIS: 1989-04-20; ETDE: 1989-05-11*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 erbium isotopes  
 \*BT1 even-even nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

**ERBIUM 175***1996-03-14*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 erbium isotopes  
 \*BT1 even-odd nuclei  
 \*BT1 rare earth nuclei

**ERBIUM ADDITIONS***Alloys containing not more than 1% Er are listed here.*

\*BT1 erbium alloys  
 \*BT1 rare earth additions

**ERBIUM ALLOYS***Alloys containing more than 1% Er.*

\*BT1 rare earth alloys  
 NT1 erbium additions  
 NT1 erbium base alloys

**ERBIUM BASE ALLOYS**

\*BT1 erbium alloys

**ERBIUM BORIDES**

\*BT1 borides  
 \*BT1 erbium compounds

**ERBIUM BROMIDES**

\*BT1 bromides  
 \*BT1 erbium compounds

**ERBIUM CARBIDES**

\*BT1 carbides  
 \*BT1 erbium compounds

**ERBIUM CARBONATES**

\*BT1 carbonates  
 \*BT1 erbium compounds

**ERBIUM CHLORIDES**

\*BT1 chlorides  
 \*BT1 erbium compounds

**ERBIUM COMPLEXES**

\*BT1 rare earth complexes

**ERBIUM COMPOUNDS***1997-06-17*

BT1 rare earth compounds  
 NT1 erbium borides  
 NT1 erbium bromides  
 NT1 erbium carbides  
 NT1 erbium carbonates  
 NT1 erbium chlorides  
 NT1 erbium fluorides  
 NT1 erbium hydrides  
 NT1 erbium hydroxides  
 NT1 erbium iodides  
 NT1 erbium nitrates  
 NT1 erbium nitrides  
 NT1 erbium oxides

NT1 erbium perchlorates  
 NT1 erbium phosphates  
 NT1 erbium phosphides  
 NT1 erbium selenides  
 NT1 erbium silicides  
 NT1 erbium sulfates  
 NT1 erbium sulfides  
 NT1 erbium tellurides  
 NT1 erbium tungstates

**ERBIUM FLUORIDES**

\*BT1 erbium compounds  
 \*BT1 fluorides

**ERBIUM HYDRIDES**

\*BT1 erbium compounds  
 \*BT1 hydrides

**ERBIUM HYDROXIDES**

\*BT1 erbium compounds  
 \*BT1 hydroxides

**ERBIUM IODIDES**

\*BT1 erbium compounds  
 \*BT1 iodides

**ERBIUM IONS**

\*BT1 ions

**ERBIUM ISOTOPES***1996-03-14*

BT1 isotopes  
 NT1 erbium 145  
 NT1 erbium 146  
 NT1 erbium 147  
 NT1 erbium 148  
 NT1 erbium 149  
 NT1 erbium 150  
 NT1 erbium 151  
 NT1 erbium 152  
 NT1 erbium 153  
 NT1 erbium 154  
 NT1 erbium 155  
 NT1 erbium 156  
 NT1 erbium 157  
 NT1 erbium 158  
 NT1 erbium 159  
 NT1 erbium 160  
 NT1 erbium 161  
 NT1 erbium 162  
 NT1 erbium 163  
 NT1 erbium 164  
 NT1 erbium 165  
 NT1 erbium 166  
 NT1 erbium 167  
 NT1 erbium 168  
 NT1 erbium 169  
 NT1 erbium 170  
 NT1 erbium 171  
 NT1 erbium 172  
 NT1 erbium 173  
 NT1 erbium 174  
 NT1 erbium 175

**ERBIUM NITRATES**

\*BT1 erbium compounds  
 \*BT1 nitrates

**ERBIUM NITRIDES**

\*BT1 erbium compounds  
 \*BT1 nitrides

**ERBIUM OXIDES**

\*BT1 erbium compounds  
 \*BT1 oxides

**ERBIUM PERCHLORATES***INIS: 2000-04-12; ETDE: 1975-10-28*

\*BT1 erbium compounds  
 \*BT1 perchlorates

**ERBIUM PHOSPHATES**

INIS: 1986-01-21; ETDE: 1984-03-06

- \*BT1 erbium compounds
- \*BT1 phosphates

**ERBIUM PHOSPHIDES**

INIS: 1981-08-06; ETDE: 1977-08-07

- \*BT1 erbium compounds
- \*BT1 phosphides

**ERBIUM SELENIDES**

INIS: 1978-08-30; ETDE: 1977-12-22

- \*BT1 erbium compounds
- \*BT1 selenides

**ERBIUM SILICIDES**

INIS: 1975-10-29; ETDE: 1975-12-16

- \*BT1 erbium compounds
- \*BT1 silicides

**ERBIUM SULFATES**

- \*BT1 erbium compounds
- \*BT1 sulfates

**ERBIUM SULFIDES**

- \*BT1 erbium compounds
- \*BT1 sulfides

**ERBIUM TELLURIDES**

INIS: 1991-09-16; ETDE: 1977-11-28

- \*BT1 erbium compounds
- \*BT1 tellurides

**ERBIUM TUNGSTATES**

1988-02-02

- \*BT1 erbium compounds
- \*BT1 tungstates

**EREVAN SYNCHROTRON**

UF eku

UF yerevan synchrotron

- \*BT1 synchrotrons

**ERGOALCIFEROL**

UF vitamin d-2

- \*BT1 vitamin d

**ERGODIC DIVERTORS**

1995-11-21

Devices based on externally produced ergodicity of the magnetic field configuration in the plasma edge region to divert plasma impurities and fuel ash in magnetic fusion devices.

- BT1 divertors
- RT randomness

**ERGODIC HYPOTHESIS**

- BT1 hypothesis
- RT phase space
- RT probability
- RT statistical mechanics

**ergonomics**

INIS: 1995-01-10; ETDE: 1982-06-07

- USE human factors engineering

**ERGOSTEROL**

- \*BT1 sterols

**ERGOTAMINE**

- \*BT1 alkaloids
- \*BT1 sympatholytics
- RT indoles

**ericson fluctuations**

- USE ericson theory

**ERICSON THEORY**

UF ericson fluctuations

- RT random phase approximation

**ERICSSON CYCLE**

2003-06-26

An ideal thermodynamic cycle consisting of two isobaric processes interspersed with processes which are, in effect, isothermal, but each of which consists of an infinite number of alternating isentropic and isobaric processes.

- BT1 thermodynamic cycles
- RT thermodynamics

**ERIE-1 REACTOR**

INIS: 1977-09-06; ETDE: 1977-06-02

Ohio Edison Co., Berlin Heights, Ohio, USA.

Canceled in 1980 before construction began.

- \*BT1 pwr type reactors

**ERIE-2 REACTOR**

INIS: 1977-09-06; ETDE: 1977-06-02

Ohio Edison Co., Berlin Heights, Ohio, USA.

Canceled in 1980 before construction began.

- \*BT1 pwr type reactors

**ERIOCHROME DYES**

- \*BT1 azo dyes
- \*BT1 phenols
- \*BT1 sulfonic acids

**erioglaucine**

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor.)

- USE azo dyes
- USE indicators
- USE sulfonic acids

**ERITREA**

INIS: 2002-07-22; ETDE: 2002-06-17

- BT1 africa
- BT1 developing countries

**ERMINE REACTOR**

- \*BT1 zero power reactors

**ernest orlando lawrence award**

INIS: 2000-04-12; ETDE: 1981-01-27

(Prior to June 1994, this was a valid ETDE descriptor.)

- USE awards

**EROSION**

- RT ablation
- RT abrasion
- RT corrosion
- RT ground cover
- RT soil conservation
- RT wear

**EROSION CONTROL**

INIS: 1992-07-07; ETDE: 1985-09-23

- BT1 control
- RT revegetation
- RT soil conservation

**ERR REACTOR**

US AEC, Elk River, Minnesota, USA.

Decommissioned in 1968.

- UF elk river reactor
- \*BT1 bwr type reactors
- \*BT1 thorium reactors

**ERRORS**

For considerations of causes of errors. For data uncertainties use DATA COVARIANCES.

- RT accuracy
- RT comparative evaluations
- RT corrections
- RT data covariances
- RT performance
- RT quality control
- RT reliability
- RT resolution
- RT sensitivity analysis

- RT tolerance

**ERUPTION**

INIS: 1993-02-18; ETDE: 1976-08-04

The ejection of volcanic materials onto the earth's surface.

- RT lava
- RT volcanism
- RT volcanoes

**eruptive binary stars**

INIS: 1984-05-24; ETDE: 2002-06-13

- USE eruptive variable stars

**ERUPTIVE VARIABLE STARS**

INIS: 1978-11-24; ETDE: 1978-12-20

Variable close binary systems, one star of which provides the other with accretion material.

- UF cataclysmic binary stars
- UF cataclysmic variable stars
- UF eruptive binary stars
- \*BT1 binary stars
- \*BT1 variable stars
- NT1 novae
- NT1 supernovae
- NT1 tauri stars
- RT accretion disks
- RT star accretion

**ERYTHEMA**

- BT1 symptoms
- RT skin
- RT skin diseases

**ERYTHRITOL**

UF tetrahydroxybutane

- \*BT1 alcohols
- \*BT1 monosaccharides

**erythroblasts**

- USE bone marrow cells

**ERYTHROCYTES**

- \*BT1 blood cells
- NT1 reticulocytes
- RT anemias
- RT babesidae
- RT blood groups
- RT carboxyhemoglobin
- RT hemagglutinins
- RT hemoglobin
- RT hemolysis
- RT megaloblastic anemia
- RT methemoglobin
- RT sickle cell anemia

**ERYTHROMYCIN**

- \*BT1 antibiotics

**ERYTHROPOIESIS**

- BT1 blood formation
- RT erythropoietin
- RT hematopoietic system

**ERYTHROPOIETIN**

1999-07-08

- BT1 mitogens
- \*BT1 peptide hormones
- RT erythropoiesis
- RT growth factors

**ERYTHROSINE**

ETDE: 1975-09-11

- \*BT1 fluorescein
- \*BT1 organic iodine compounds

**ERZGEBIRGE DEPOSIT**

INIS: 1992-02-04; ETDE: 1992-09-21

- \*BT1 uranium deposits
- RT federal republic of germany
- RT uranium ores

**ES COMPUTERS**

1982-02-10

BT1 computers

**ES-SALAM REACTOR**

2005-02-11

*Centre de Development des Systemes Energetiques, Ainoussera, Algeria.*

\*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**ESA**

INIS: 1995-10-27; ETDE: 1980-11-25  
 Until 1975 known as ESRO, and older material is indexed to ESRO.

UF esro

UF european space agency

UF european space research organization

BT1 international organizations

**ESADA-VESR REACTOR**

USA.

\*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**ESARDA**

INIS: 1976-09-06; ETDE: 1976-11-01  
 European Safeguards Research and Development Association.

UF european safeguard research development association

BT1 international organizations

**esca**

*Electron Spectroscopy for Chemical Analysis.*  
 (Prior to Dec 2002 CHEMICAL ANALYSIS + ELECTRON SPECTROSCOPY was used for this concept.)

USE x-ray photoelectron spectroscopy

**ESCAPE PEAKS**

BT1 peaks  
 RT gamma spectra

**escar**

INIS: 2000-04-12; ETDE: 1975-11-26  
 (Prior to July 1985, this was a valid ETDE descriptor and older material is so indexed.)

USE escar storage ring

**ESCAR STORAGE RING**

INIS: 1976-02-11; ETDE: 1977-01-31

*Experimental Superconducting Accelerating Ring at Berkeley.*

UF berkeley escar storage ring

UF escar

BT1 storage rings

\*BT1 synchrotrons

**ESCHERICHIA COLI**

\*BT1 bacteria  
 RT coliforms  
 RT intestines

**escm-1 reactor**

INIS: 1975-11-07; ETDE: 1975-12-16

USE koeberg-1 reactor

**ESCOM REACTOR**

UF electricity supply company reactor

\*BT1 power reactors

**escrow accounts**

INIS: 2000-04-12; ETDE: 1983-05-21

*Monies or other items held by a third party.*

(Prior to February 1995, this was a valid

ETDE descriptor.)

SEE compliance

**ESERINE**

UF physostigmine

\*BT1 alkaloids

\*BT1 parasymphomimetics

**ESKIMOS**

\*BT1 human populations

RT arctic regions

RT lapps

**ESOPHAGUS**

BT1 digestive system

\*BT1 organs

RT mediastinum

**esr**

USE electron spin resonance

**ESR STORAGE RING**

INIS: 1992-02-22; ETDE: 1992-03-09

UF darmstadt storage ring

BT1 storage rings

**esrf**

2000-09-08

USE european synchrotron radiation facility

**esro**

1997-01-28

(Until October 1995 this was a valid descriptor. Name changed in 1975 to ESA, and more recent material should have been indexed to ESA.)

USE esa

**esrom event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**ESSENTIAL OILS**

\*BT1 oils

RT buffalo gourd

RT plants

RT vegetable oils

**essex i project**

INIS: 2000-03-27; ETDE: 1975-08-19

(Until July 1996 this was a valid descriptor.)

USE underground explosions

**ESSOR REACTOR***Joint Research Centre, Ispra, Italy.*

UF orgel reactor

\*BT1 enriched uranium reactors

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 natural uranium reactors

\*BT1 organic cooled reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

**ESTERASES**

Code number 3.1.

\*BT1 hydrolases

NT1 carboxylesterases

NT2 cholinesterase

NT2 lipases

NT1 phosphatases

NT2 acid phosphatase

NT2 alkaline phosphatase

NT2 nucleotidases

NT1 phosphodiesterases

NT2 nucleases

NT3 dna-ase

NT4 endonucleases

NT3 rna-ase

RT esters

**ESTERIFICATION**

BT1 chemical reactions

RT esters

**ESTERS**

1996-10-23

*Includes esters of organic and inorganic acids.*

UF lanolin

UF wool fat

BT1 organic compounds

NT1 acetylcholine

NT1 carbonic acid esters

NT1 carboxylic acid esters

NT2 acetic acid esters

NT3 methyl acetate

NT3 polyvinyl acetate

NT3 vinyl acetate

NT2 acetoacetic acid esters

NT2 acrylic acid esters

NT2 bromosulphophthalein

NT2 carbamic acid esters

NT2 citric acid esters

NT2 glucoheptonate

NT2 malathion

NT2 methacrylic acid esters

NT2 oxalic acid esters

NT2 phenolphthalein

NT2 retinoic acid

NT1 cellulose esters

NT2 nitrocellulose

NT1 isocyanic acid esters

NT1 lactones

NT2 coumarin

NT2 gibberellic acid

NT1 nitric acid esters

NT2 nitrocellulose

NT2 nitroglycerin

NT2 peroxyacetyl nitrate

NT2 petn

NT1 nitrous acid esters

NT1 phorbol esters

NT1 phosphinic acid esters

NT1 phospholipids

NT2 cardiolipin

NT2 lecithins

NT2 sphingomyelins

NT1 phosphonic acid esters

NT2 dampa

NT2 dhdecamp

NT1 phosphoric acid esters

NT2 butyl phosphates

NT3 dbp

NT3 mbp

NT3 tbp

NT2 hdehp

NT2 mdpa

NT2 phytic acid

NT2 tcp

NT1 phthalic acid esters

NT1 polyacrylates

NT2 lucite

NT2 perspex

NT2 plexiglas

NT2 pmma

NT1 polyesters

NT2 dacron

NT2 homalite

NT2 mylar

NT1 sulfonic acid esters

NT2 alkyl benzenesulfonates

NT2 ethyl methanesulfonate

NT2 methyl methanesulfonate

NT2 petroleum sulfonates

NT1 sulfuric acid esters

- NT1** thiophosphoric acid esters  
**NT2** cystaphos  
**NT2** gammaphos  
**NT2** parathion  
**NT1** triglycerides  
**NT2** corn oil  
**NT2** linseed oil  
**NT2** olive oil  
**NT2** peanut oil  
**NT2** soybean oil  
**NT2** triolein  
*RT* carboxylic acid salts  
*RT* claisen condensation  
*RT* esterases  
*RT* esterification  
*RT* hydrolysis  
*RT* lipids

**esthetics**

*INIS: 1983-06-30; ETDE: 1978-03-03*  
 USE aesthetics

**ESTONIA**

*INIS: 1997-08-20; ETDE: 1993-03-15*  
 (Until January 1993, this was indexed by USSR.)

- SF* soviet union  
*SF* union of soviet socialist republics  
*SF* ussr  
 \*BT1 eastern europe

**ESTONIAN ORGANIZATIONS**

2004-03-31  
 BT1 national organizations

**ESTRADIOL**

- \*BT1 estranes  
 \*BT1 estrogens  
 \*BT1 hydroxy compounds

**ESTRANES**

- \*BT1 steroids  
**NT1** estradiol  
**NT1** estriol  
**NT1** estrone  
*RT* estrogens

**ESTRIOL**

- \*BT1 estranes  
 \*BT1 estrogens  
 \*BT1 hydroxy compounds

**ESTROGENS**

- \*BT1 steroid hormones  
**NT1** estradiol  
**NT1** estriol  
**NT1** estrone  
*RT* castration  
*RT* estranes  
*RT* estrous cycle  
*RT* fsh  
*RT* ovaries  
*RT* stilbestrol  
*RT* tamoxifen

**ESTRONE**

- \*BT1 estranes  
 \*BT1 estrogens  
 \*BT1 hydroxy compounds  
 \*BT1 ketones

**ESTROUS CYCLE**

- RT* estrogens  
*RT* female genitals  
*RT* luteinizing hormone  
*RT* menopause  
*RT* menstrual cycle  
*RT* menstruation disorders  
*RT* ovulation  
*RT* rhythmicity

**ESTUARIES**

- \*BT1 coastal waters  
**NT1** fiords  
**NT1** long island sound  
*RT* eutrophication  
*RT* fresh water  
*RT* offshore nuclear power plants  
*RT* offshore sites  
*RT* rivers  
*RT* salinity  
*RT* seas  
*RT* seawater

**estuarine ecosystems**

USE aquatic ecosystems

**estuary event**

*INIS: 2000-04-12; ETDE: 1977-06-21*  
 USE anvil project

**eta-1060 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE eta-1295 mesons

**eta-1275 mesons**

*INIS: 1995-08-07; ETDE: 1988-01-29*  
 (From December 1987 until July 1995 this was a valid term.)  
 USE eta-1295 mesons

**ETA-1295 MESONS**

1995-08-07  
 (Until December 1987 this concept was indexed by ETA-1060 RESONANCES; from then until July 1995 it was indexed by ETA-1275 MESONS.)

- UF* eta-1060 resonances  
*UF* eta-1275 mesons  
 \*BT1 pseudoscalar mesons

**ETA-1440 MESONS**

*INIS: 1987-12-21; ETDE: 1988-01-29*  
 (Prior to December 1987 this concept was indexed by IOTA-1440 RESONANCES.)  
*UF* iota-1440 resonances  
 \*BT1 pseudoscalar mesons

**eta-2980 resonances**

*INIS: 1987-12-21; ETDE: 1984-12-26*  
 (Prior to December 1987 this was a valid descriptor.)  
 USE eta c-2980 mesons

**eta-549**

USE eta mesons

**eta-700 resonances**

1988-03-08  
 (Prior to December 1987 this was a valid descriptor.)  
 USE mesons

**eta-958 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE eta prime-958 mesons

**ETA C-2980 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*  
 (Prior to December 1987 this concept was indexed by ETA-2980 RESONANCES.)  
*UF* eta-2980 resonances  
*UF* eta-c resonances  
 \*BT1 charmonium  
 \*BT1 pseudoscalar mesons

**ETA C-3590 MESONS**

*INIS: 1995-08-07; ETDE: 1988-02-01*  
 \*BT1 charmonium

**eta-c resonances**

*INIS: 2000-04-12; ETDE: 1984-12-26*  
 USE eta c-2980 mesons

**ETA MESON BEAMS**

\*BT1 meson beams

**ETA MESONS**

*UF* eta-549  
 \*BT1 pseudoscalar mesons

**ETA PRIME-958 MESONS**

*INIS: 1987-12-21; ETDE: 1988-01-25*  
 (Prior to December 1987 this concept was indexed by ETA-958 RESONANCES.)  
*UF* eta-958 resonances  
*UF* x-zero resonances  
 \*BT1 pseudoscalar mesons

**ETCHING**

1999-07-08  
 BT1 surface finishing  
*RT* ceramography  
*RT* dielectric track detectors  
*RT* masking  
*RT* metallography  
*RT* particle tracks

**ETDE**

1991-02-11  
*UF* energy technology data exchange  
 BT1 information systems  
*RT* international energy agency

**etf (tokamak)**

*INIS: 2000-04-12; ETDE: 1979-12-17*  
 USE etf tokamak

**ETF TOKAMAK**

*INIS: 1981-07-06; ETDE: 1981-08-04*  
*UF* engineering test facility (tokamak)  
*UF* etf (tokamak)  
*UF* tokamak etf  
 \*BT1 tokamak devices

**ethanal**

USE acetaldehyde

**ETHANE**

\*BT1 alkanes  
*RT* ddt

**ETHANOL**

*UF* cologne spirits  
*UF* ethyl alcohol  
*UF* fermentation alcohol  
*UF* grain alcohol  
 \*BT1 alcohols  
*RT* ethanol fuels  
*RT* gasohol program

**ETHANOL FUELS**

*INIS: 1992-07-23; ETDE: 1979-09-06*  
 For pure ethanol, ethanol-water mixtures, or ethanol with additives; for ethanol-gasoline mixtures use GASOHOL.  
 \*BT1 alcohol fuels  
*RT* automotive fuels  
*RT* diesel fuels  
*RT* ethanol  
*RT* gasohol

**ETHANOL PLANTS**

*INIS: 1992-07-23; ETDE: 1981-05-18*  
 BT1 industrial plants  
*RT* biomass conversion plants  
*RT* chemical plants

**ETHERS**

1996-10-23  
 For the commonly used anesthetic and solvent, use ETHYL ETHER.  
*UF* batyl alcohol

UF carbitols  
 UF diglycol monoalkyl ethers  
 UF ethocel  
 UF ioglycamic acid  
 UF octadecyl glyceryl ether- $\alpha$   
 UF oxetane  
 \*BT1 organic oxygen compounds  
 NT1 acetals  
 NT2 acetal  
 NT1 anisole  
 NT1 butyl ether  
 NT1 cellosolves  
 NT1 crown ethers  
 NT1 curcumin  
 NT1 dme  
 NT1 ethyl ether  
 NT1 isopropyl ether  
 NT1 methyl ether  
 NT1 methylal  
 NT1 mexamine  
 NT1 morpholines  
 NT1 phenyl ether  
 RT polyethylene glycols  
 RT tetrahydropyran  
 RT thyronine  
 RT thyroxine

**ETHICAL ASPECTS**

1982-02-09

UF ethics  
 RT hazards  
 RT political aspects  
 RT public opinion  
 RT radiation protection  
 RT safety  
 RT safety culture  
 RT sociology

**ethics**

INIS: 2000-04-12; ETDE: 1978-03-03  
 (Prior to July 1985, this was a valid ETDE descriptor.)  
 USE ethical aspects

**ethine**

USE acetylene

**ETHIONINE**

UF ethylmercaptoaminobutyric acid  
 UF ethylthioaminobutyric acid  
 \*BT1 amino acids  
 \*BT1 antimetabolites  
 \*BT1 lipotropic factors  
 \*BT1 organic sulfur compounds

**ETHIOPIA**

BT1 africa  
 BT1 developing countries

**ethnic groups**

INIS: 2000-04-12; ETDE: 1979-10-23  
 USE minority groups

**ethocel**

USE cellulose  
 USE ethers

**ETHOXY RADICALS**

\*BT1 alkoxy radicals

**ethyl alcohol**

USE ethanol

**ETHYL ETHER**

UF diethyl ether  
 \*BT1 ethers  
 RT anesthetics  
 RT organic solvents

**ETHYL METHANESULFONATE**

ETDE: 2005-01-28  
 (Prior to January 2005 EMS was used for this concept.)

UF ems (ethyl methanesulfonate)  
 BT1 mutagens  
 \*BT1 sulfonic acid esters  
 RT methane

**ETHYL RADICALS**

\*BT1 alkyl radicals

**ethylaldehyde**

USE acetaldehyde

**ETHYLENE**

\*BT1 alkenes

**ethylene glycol**

USE glycols

**ethylene polymers**

USE polyethylenes

**ETHYLENE PROPYLENE DIENE POLYMERS**

INIS: 1992-09-25; ETDE: 1980-05-06

UF epdm  
 \*BT1 elastomers  
 RT rubbers

**ethylenecarboxylic acid**

USE acrylic acid

**ethylenediaminetetraacetic acid**

USE edta

**ethylmercaptoaminobutyric acid**

USE ethionine

**ethylthioaminobutyric acid**

USE ethionine

**ethyne**

USE acetylene

**ethyrene**

2000-04-12

(Prior to April 1994, this was a valid ETDE descriptor.)

USE organic sulfur compounds  
 USE radioprotective substances

**ethyreneethyl phosphinate**

2000-04-12

USE organic sulfur compounds  
 USE radioprotective substances

**ETIOLOGY**

Dealing with all causes of a disease or abnormal condition of an organism.

RT diseases

**etioporphyryns**

2000-04-12

(Prior to September 1994, this was a valid ETDE descriptor.)

USE porphyrins

**ETR REACTOR**

INEEL, Idaho Falls, Idaho, USA. Shut down in 1981.

UF engineering test reactor  
 UF nrtis-etr reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**ETRC REACTOR**

2000-04-12

INEEL, Idaho Falls, Idaho, USA. Shut down in 1981.

UF engineering test reactor critical facility  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 zero power reactors

**ETRR-1 REACTOR**

INIS: 1990-08-24; ETDE: 1990-09-10

Atomic Energy Authority, Cairo, Egypt.

UF egyptian testing research reactor-1  
 \*BT1 research reactors  
 \*BT1 tank type reactors

**ETRR-2 REACTOR**

1999-09-24

Atomic Energy Authority, Cairo, Egypt.

UF egyptian testing research reactor-2  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**ETTINGHAUSEN EFFECT**

RT hall effect

**EUCALYPTUSES**

INIS: 1978-01-13; ETDE: 1978-03-03

\*BT1 magnoliopsida  
 \*BT1 trees

**euclidean quantum field theory**

INIS: 1977-11-21; ETDE: 1978-03-08

USE constructive field theory  
 USE euclidean space

**EUCLIDEAN SPACE**

UF euclidean quantum field theory  
 \*BT1 riemann space

**eudialyte**

INIS: 1997-01-28; ETDE: 1975-10-01

(Until October 1996 this was a valid descriptor.)

USE silicate minerals

**euflavine**

USE acriflavine

**EUGLENA**

\*BT1 euglenophycota  
 \*BT1 mastigophora  
 \*BT1 unicellular algae

**EUGLENOPHYCOTA**

INIS: 1991-12-13; ETDE: 1988-12-20

BT1 plants  
 NT1 euglena

**EUMYCOTA**

INIS: 1996-11-13; ETDE: 1988-12-20

(The UF terms below were valid ETDE descriptors till March 1997.)

UF claviceps  
 UF pellicularia  
 UF phycomyces  
 UF thielavia  
 \*BT1 fungi  
 NT1 aspergillus  
 NT1 fusarium  
 NT1 lichens  
 NT1 mildew  
 NT1 neurospora  
 NT1 penicillium  
 NT1 phanerochaete  
 NT1 rhizopus

NT1 trichoderma  
 NT2 trichoderma viride  
 NT1 ustilago  
 NT1 yeasts  
 NT2 candida  
 NT2 saccharomyces  
 NT3 saccharomyces cerevisiae  
 NT2 torula

**EUPHORBIA**

INIS: 1997-06-17; ETDE: 1979-07-24  
*Latex bearing plants and possible source of hydrocarbons.*

UF chinese tallow tree

\*BT1 magnoliopsida

NT1 castor

NT1 milkweed

NT1 rubber trees

NT2 guayule

NT2 hevea

**EURATOM**

UF european atomic energy community

\*BT1 european union

RT europe

**eurelios solar power plant**

INIS: 2000-04-12; ETDE: 1986-02-21  
 (Prior to September 1994, this was a valid ETDE descriptor.)

USE tower focus power plants

**EUREX PROCESS**

\*BT1 reprocessing

RT amines

RT solvent extraction

**EUROCHEMIC**

RT reprocessing

**eurocurrency**

INIS: 2000-04-12; ETDE: 1979-09-28

USE euromarket

**EURODIF**

INIS: 1975-11-11; ETDE: 1975-12-16  
*International association founded in march 1972 to promote the construction of a European gaseous diffusion plant.*

BT1 international organizations

RT gaseous diffusion plants

**eurodollars**

INIS: 2000-04-12; ETDE: 1979-09-28

USE euromarket

**EUROMARKET**

INIS: 2000-04-12; ETDE: 1979-10-03  
*Money on deposit and available for lending at financial institutions outside the country of the money's origin; beyond the control of any nation, it is mostly in hands of world's largest banks and free from reserve requirements and other national regulations.*

UF eurocurrency

UF eurodollars

RT capital

RT international cooperation

RT investment

**EUROPE**

1995-04-03

NT1 eastern europe

NT2 albania

NT2 belarus

NT2 bosnia and herzegovina

NT2 bulgaria

NT2 croatia

NT2 czech republic

NT2 estonia

NT2 hungary

NT2 latvia

NT2 lithuania

NT2 moldova

NT2 poland

NT2 romania

NT2 russian federation

NT3 dubna

NT3 kamchatka

NT3 kurile islands

NT3 lozero

NT3 novaya zemlya

NT3 siberia

NT2 serbia and montenegro

NT2 slovakia

NT2 slovenia

NT2 the former yugoslav republic of macedonia

NT2 ukraine

NT3 crimea

NT1 western europe

NT2 austria

NT2 belgium

NT2 federal republic of germany

NT2 france

NT3 reunion island

NT2 greece

NT2 iceland

NT2 ireland

NT2 italy

NT3 appennines

NT3 sicily

NT2 luxembourg

NT2 malta

NT2 monaco

NT2 netherlands

NT2 portugal

NT3 azores islands

NT2 san marino

NT2 scandinavia

NT3 denmark

NT3 finland

NT3 norway

NT3 sweden

NT2 spain

NT3 canary islands

NT2 switzerland

NT2 united kingdom

RT euratom

RT european union

**european atomic energy community**

1999-07-08

USE euratom

**european coal and steel community**

USE ecsc

**european committee for****standardization**

INIS: 2004-07-16; ETDE: 2002-10-02

USE cen

**european communities**

1997-01-28

(Until December 1994 this was a valid descriptor.)

USE european union

**european economic community**

USE internal market

**european muon collaboration effect**

INIS: 1993-11-08; ETDE: 1985-06-25

USE emc effect

**european nuclear energy agency**

1995-03-28

USE nea

**european organization for nuclear research**

USE cern

**european safeguard research development association**

INIS: 1993-11-08; ETDE: 1976-11-02

USE esarda

**european space agency**

INIS: 1982-04-13; ETDE: 1982-05-07

USE esa

**european space research organization**

1995-10-27

USE esa

**EUROPEAN SYNCHROTRON RADIATION FACILITY**

2000-09-08

Grenoble, France.

UF esrf

\*BT1 synchrotron radiation sources

**EUROPEAN UNION**

INIS: 1995-04-03; ETDE: 1994-10-20

(Until December 1994 this concept was indexed to EUROPEAN COMMUNITIES.)

UF european communities

BT1 international organizations

NT1 ecsc

NT1 euratom

NT1 internal market

RT europe

**EUROPIUM**

\*BT1 rare earths

**EUROPIUM 130**

INIS: 2003-01-03; ETDE: 2002-12-26

\*BT1 europium isotopes

\*BT1 microseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 proton decay radioisotopes

\*BT1 rare earth nuclei

**EUROPIUM 131**

INIS: 2003-01-03; ETDE: 2002-12-26

\*BT1 europium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

\*BT1 rare earth nuclei

**EUROPIUM 134**

INIS: 1989-10-27; ETDE: 1989-11-21

\*BT1 beta-plus decay radioisotopes

\*BT1 europium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

**EUROPIUM 135**

INIS: 1989-10-27; ETDE: 1989-11-21

\*BT1 beta-plus decay radioisotopes

\*BT1 europium isotopes

\*BT1 odd-even nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**EUROPIUM 136**

INIS: 1986-04-02; ETDE: 1985-12-11

\*BT1 beta-plus decay radioisotopes

\*BT1 europium isotopes

\*BT1 odd-odd nuclei

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes



**EUROPIUM 137***INIS: 1988-04-15; ETDE: 1984-08-20*

- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 138***INIS: 1977-06-14; ETDE: 1977-10-20*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 139**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 140**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 141**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 142**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 143**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 144**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 145**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 146**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 147**

- \*BT1 alpha decay radioisotopes

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 148**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 149**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 150**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**EUROPIUM 151**

- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**EUROPIUM 151 TARGET***ETDE: 1976-07-09*

- BT1 targets

**EUROPIUM 152**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**EUROPIUM 152 TARGET***INIS: 1977-11-21; ETDE: 1977-12-22*

- BT1 targets

**EUROPIUM 153**

- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**EUROPIUM 153 TARGET***ETDE: 1976-07-09*

- BT1 targets

**EUROPIUM 154**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 europium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**EUROPIUM 154 TARGET***INIS: 1977-11-21; ETDE: 1978-03-08*

- BT1 targets

**EUROPIUM 155**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**EUROPIUM 155 TARGET***INIS: 1979-12-20; ETDE: 1980-01-24*

- BT1 targets

**EUROPIUM 156**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 157**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 158**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 159**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**EUROPIUM 160**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 161***INIS: 1986-10-29; ETDE: 1986-11-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM 162***INIS: 1987-08-27; ETDE: 1987-10-02*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 europium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**EUROPIUM ADDITIONS***Alloys containing not more than 1% Eu are listed here.*

- \*BT1 europium alloys
- \*BT1 rare earth additions

**EUROPIUM ALLOYS***Alloys containing more than 1% Eu.*

- \*BT1 rare earth alloys
- NT1 europium additions
- NT1 europium base alloys

**EUROPIUM ARSENIDES***INIS: 1989-09-14; ETDE: 1976-08-24*

- \*BT1 arsenides
- \*BT1 europium compounds

**EUROPIUM BASE ALLOYS**

- \*BT1 europium alloys

**EUROPIUM BORIDES**

- \*BT1 borides
- \*BT1 europium compounds

**EUROPIUM BROMIDES**

- \*BT1 bromides
- \*BT1 europium compounds

**EUROPIUM CARBIDES**

- \*BT1 carbides
- \*BT1 europium compounds

**EUROPIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 europium compounds

**EUROPIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 europium compounds

**EUROPIUM COMPLEXES**

- \*BT1 rare earth complexes

**EUROPIUM COMPOUNDS**

- BT1 rare earth compounds
- NT1 europium arsenides
- NT1 europium borides
- NT1 europium bromides
- NT1 europium carbides
- NT1 europium carbonates
- NT1 europium chlorides
- NT1 europium fluorides
- NT1 europium hydrides
- NT1 europium hydroxides
- NT1 europium iodides
- NT1 europium nitrates
- NT1 europium nitrides
- NT1 europium oxides
- NT1 europium perchlorates
- NT1 europium phosphates
- NT1 europium phosphides
- NT1 europium selenides
- NT1 europium silicates
- NT1 europium silicides
- NT1 europium sulfates
- NT1 europium sulfides
- NT1 europium tellurides

**EUROPIUM FLUORIDES**

- \*BT1 europium compounds
- \*BT1 fluorides

**EUROPIUM HYDRIDES**

- \*BT1 europium compounds
- \*BT1 hydrides

**EUROPIUM HYDROXIDES**

- \*BT1 europium compounds
- \*BT1 hydroxides

**EUROPIUM IODIDES**

- \*BT1 europium compounds
- \*BT1 iodides

**EUROPIUM IONS**

- \*BT1 ions

**EUROPIUM ISOTOPES**

- BT1 isotopes
- NT1 europium 130
- NT1 europium 131
- NT1 europium 134
- NT1 europium 135
- NT1 europium 136
- NT1 europium 137
- NT1 europium 138
- NT1 europium 139
- NT1 europium 140
- NT1 europium 141
- NT1 europium 142
- NT1 europium 143
- NT1 europium 144
- NT1 europium 145

NT1 europium 146

NT1 europium 147

NT1 europium 148

NT1 europium 149

NT1 europium 150

NT1 europium 151

NT1 europium 152

NT1 europium 153

NT1 europium 154

NT1 europium 155

NT1 europium 156

NT1 europium 157

NT1 europium 158

NT1 europium 159

NT1 europium 160

NT1 europium 161

NT1 europium 162

**EUROPIUM NITRATES**

- \*BT1 europium compounds
- \*BT1 nitrates

**EUROPIUM NITRIDES**

- \*BT1 europium compounds
- \*BT1 nitrides

**EUROPIUM OXIDES**

- \*BT1 europium compounds
- \*BT1 oxides

**EUROPIUM PERCHLORATES**

*INIS: 1991-09-16; ETDE: 1975-10-28*

- \*BT1 europium compounds
- \*BT1 perchlorates

**EUROPIUM PHOSPHATES**

*INIS: 1975-10-23; ETDE: 1975-12-16*

- \*BT1 europium compounds
- \*BT1 phosphates

**EUROPIUM PHOSPHIDES**

*INIS: 1983-10-14; ETDE: 1977-11-28*

- \*BT1 europium compounds
- \*BT1 phosphides

**EUROPIUM SELENIDES**

*INIS: 1976-10-29; ETDE: 1975-09-11*

- \*BT1 europium compounds
- \*BT1 selenides

**EUROPIUM SILICATES**

- \*BT1 europium compounds
- \*BT1 silicates

**EUROPIUM SILICIDES**

*INIS: 1975-10-29; ETDE: 1975-12-16*

- \*BT1 europium compounds
- \*BT1 silicides

**EUROPIUM SULFATES**

- \*BT1 europium compounds
- \*BT1 sulfates

**EUROPIUM SULFIDES**

- \*BT1 europium compounds
- \*BT1 sulfides

**EUROPIUM TELLURIDES**

*INIS: 1976-05-05; ETDE: 1975-09-11*

- \*BT1 europium compounds
- \*BT1 tellurides

**EUTECTICS**

- RT monotectics
- RT phase change materials
- RT phase diagrams
- RT phase transformations

**EUTECTOIDS**

- RT monotectoids
- RT phase diagrams
- RT phase transformations

**EUTERPE STORAGE RING**

*INIS: 1992-10-19; ETDE: 1992-11-04*

*Eindhoven University of Technology ring for protons and electrons.*

- BT1 storage rings

**EUTROPHICATION**

*INIS: 1975-12-17; ETDE: 1976-08-24*

- RT algae
- RT aquatic ecosystems
- RT estuaries
- RT fertilizers
- RT lakes
- RT limnology
- RT nutrients
- RT water pollution

**euxenite**

*2000-04-12*

*(Prior to September 1994, this was a valid ETDE descriptor.)*

- USE uranium minerals

**EV RANGE**

- BT1 energy range
- NT1 ev range 01-10
- NT1 ev range 10-100
- NT1 ev range 100-1000

**EV RANGE 01-10**

- \*BT1 ev range

**EV RANGE 10-100**

- \*BT1 ev range

**EV RANGE 100-1000**

- \*BT1 ev range

**EVACUATED COLLECTORS**

*INIS: 2000-04-12; ETDE: 1978-03-08*

- \*BT1 solar collectors
- NT1 evacuated tube collectors

**EVACUATED TUBE COLLECTORS**

*INIS: 2000-04-12; ETDE: 1978-03-08*

- \*BT1 evacuated collectors

**EVACUATION**

*INIS: 1997-06-17; ETDE: 1983-03-23*

*An organized withdrawal of people from a place or area as a protective measure.*

- RT accidents
- RT civil defense
- RT emergency plans
- RT external zones
- RT mine rescue
- RT population relocation
- RT routing

**EVALUATED DATA**

*INIS: 1978-10-20; ETDE: 1979-02-27*

*Use only in conjunction with literary indicator N for data flagging; refers to data gathered from other sources and may consist of a compilation of data which, however, has been evaluated and some judgement as to its accuracy or value is expressed or implied.*

- UF data compilation (evaluated)
- \*BT1 numerical data
- RT nuclear data collections

**evaluated nuclear data file**

*INIS: 1994-07-01; ETDE: 1983-03-23*

- USE nuclear data collections

**EVALUATION**

*INIS: 1995-04-09; ETDE: 1976-06-07*

*Process of subjecting to critical judgement or interpretation.*

- NT1 comparative evaluations
- RT audits
- RT feasibility studies

- RT* forecasting  
*RT* inspection  
*RT* quality assurance  
*RT* testing  
*RT* validation
- EVANS BLUE**
- \*BT1 azo dyes  
 BT1 reagents  
 \*BT1 sulfonic acids
- EVAPORATION**
- UF* vaporization  
*UF* volatilization  
 BT1 phase transformations  
 NT1 flashing  
 NT1 sublimation  
 NT1 vacuum evaporation  
*RT* blowoff  
*RT* boiling  
*RT* dehydration  
*RT* distillation  
*RT* drying  
*RT* evaporative cooling  
*RT* evaporators  
*RT* flash heating  
*RT* interception  
*RT* spray drying  
*RT* throughfall  
*RT* transpiration  
*RT* vaporization heat  
*RT* vapors  
*RT* waste processing
- EVAPORATION MODEL**
- UF* nuclear evaporation  
 \*BT1 nuclear models  
 NT1 weisskopf model  
*RT* compound-nucleus reactions  
*RT* nuclear fireball model  
*RT* nuclear temperature  
*RT* precompound-nucleus emission
- EVAPORATIVE COOLING**
- INIS: 1976-09-06; ETDE: 1975-10-01*  
*Cooling of a liquid by using the vaporization heat of part of the liquid or cooling air by evaporating water into it.*
- BT1 cooling  
*RT* cold storage  
*RT* cooling systems  
*RT* cooling towers  
*RT* evaporation
- EVAPORATORS**
- NT1 solar stills  
*RT* counterflow systems  
*RT* crossflow systems  
*RT* desalination  
*RT* distillation  
*RT* dryers  
*RT* evaporation  
*RT* heat exchangers  
*RT* vapor condensers
- EVAPORITES**
- INIS: 1984-04-04; ETDE: 1981-07-06*  
 \*BT1 sedimentary rocks  
*RT* halite
- EVEN-EVEN NUCLEI**
- 1996-06-17*  
*Even protons, even neutrons.*
- BT1 nuclei  
 NT1 argon 32  
 NT1 argon 34  
 NT1 argon 36  
 NT1 argon 38  
 NT1 argon 40  
 NT1 argon 42  
 NT1 argon 44
- NT1 argon 46  
 NT1 argon 50  
 NT1 barium 114  
 NT1 barium 116  
 NT1 barium 118  
 NT1 barium 120  
 NT1 barium 122  
 NT1 barium 124  
 NT1 barium 126  
 NT1 barium 128  
 NT1 barium 130  
 NT1 barium 132  
 NT1 barium 134  
 NT1 barium 136  
 NT1 barium 138  
 NT1 barium 140  
 NT1 barium 142  
 NT1 barium 144  
 NT1 barium 146  
 NT1 barium 148  
 NT1 beryllium 10  
 NT1 beryllium 12  
 NT1 beryllium 14  
 NT1 beryllium 6  
 NT1 beryllium 8  
 NT1 cadmium 100  
 NT1 cadmium 102  
 NT1 cadmium 104  
 NT1 cadmium 106  
 NT1 cadmium 108  
 NT1 cadmium 110  
 NT1 cadmium 112  
 NT1 cadmium 114  
 NT1 cadmium 116  
 NT1 cadmium 118  
 NT1 cadmium 120  
 NT1 cadmium 122  
 NT1 cadmium 124  
 NT1 cadmium 126  
 NT1 cadmium 128  
 NT1 cadmium 130  
 NT1 cadmium 96  
 NT1 cadmium 98  
 NT1 calcium 36  
 NT1 calcium 38  
 NT1 calcium 40  
 NT1 calcium 42  
 NT1 calcium 44  
 NT1 calcium 46  
 NT1 calcium 48  
 NT1 calcium 50  
 NT1 calcium 52  
 NT1 californium 238  
 NT1 californium 240  
 NT1 californium 242  
 NT1 californium 244  
 NT1 californium 246  
 NT1 californium 248  
 NT1 californium 250  
 NT1 californium 252  
 NT1 californium 254  
 NT1 californium 256  
 NT1 carbon 10  
 NT1 carbon 12  
 NT1 carbon 14  
 NT1 carbon 16  
 NT1 carbon 18  
 NT1 carbon 20  
 NT1 carbon 22  
 NT1 carbon 8  
 NT1 cerium 124  
 NT1 cerium 126  
 NT1 cerium 128  
 NT1 cerium 130  
 NT1 cerium 132  
 NT1 cerium 134  
 NT1 cerium 136  
 NT1 cerium 138  
 NT1 cerium 140
- NT1 cerium 142  
 NT1 cerium 144  
 NT1 cerium 146  
 NT1 cerium 148  
 NT1 cerium 150  
 NT1 cerium 152  
 NT1 chromium 42  
 NT1 chromium 44  
 NT1 chromium 46  
 NT1 chromium 48  
 NT1 chromium 50  
 NT1 chromium 52  
 NT1 chromium 54  
 NT1 chromium 56  
 NT1 chromium 58  
 NT1 chromium 60  
 NT1 chromium 62  
 NT1 chromium 64  
 NT1 chromium 66  
 NT1 curium 232  
 NT1 curium 236  
 NT1 curium 238  
 NT1 curium 240  
 NT1 curium 242  
 NT1 curium 244  
 NT1 curium 246  
 NT1 curium 248  
 NT1 curium 250  
 NT1 curium 252  
 NT1 darmstadtium 270  
 NT1 dysprosium 140  
 NT1 dysprosium 142  
 NT1 dysprosium 144  
 NT1 dysprosium 146  
 NT1 dysprosium 148  
 NT1 dysprosium 150  
 NT1 dysprosium 152  
 NT1 dysprosium 154  
 NT1 dysprosium 156  
 NT1 dysprosium 158  
 NT1 dysprosium 160  
 NT1 dysprosium 162  
 NT1 dysprosium 164  
 NT1 dysprosium 166  
 NT1 dysprosium 168  
 NT1 erbium 146  
 NT1 erbium 148  
 NT1 erbium 150  
 NT1 erbium 152  
 NT1 erbium 154  
 NT1 erbium 156  
 NT1 erbium 158  
 NT1 erbium 160  
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 NT1 erbium 166  
 NT1 erbium 168  
 NT1 erbium 170  
 NT1 erbium 172  
 NT1 erbium 174  
 NT1 fermium 242  
 NT1 fermium 244  
 NT1 fermium 246  
 NT1 fermium 248  
 NT1 fermium 250  
 NT1 fermium 252  
 NT1 fermium 254  
 NT1 fermium 256  
 NT1 fermium 258  
 NT1 gadolinium 138  
 NT1 gadolinium 140  
 NT1 gadolinium 142  
 NT1 gadolinium 144  
 NT1 gadolinium 146  
 NT1 gadolinium 148  
 NT1 gadolinium 150  
 NT1 gadolinium 152  
 NT1 gadolinium 154  
 NT1 gadolinium 156

NT1	gadolinium 158	NT1	lead 200	NT1	nickel 56
NT1	gadolinium 160	NT1	lead 202	NT1	nickel 58
NT1	gadolinium 162	NT1	lead 204	NT1	nickel 60
NT1	gadolinium 164	NT1	lead 206	NT1	nickel 62
NT1	germanium 62	NT1	lead 208	NT1	nickel 64
NT1	germanium 64	NT1	lead 210	NT1	nickel 66
NT1	germanium 66	NT1	lead 212	NT1	nickel 68
NT1	germanium 68	NT1	lead 214	NT1	nickel 70
NT1	germanium 70	NT1	lead 216	NT1	nickel 72
NT1	germanium 72	NT1	magnesium 20	NT1	nickel 74
NT1	germanium 74	NT1	magnesium 22	NT1	nickel 78
NT1	germanium 76	NT1	magnesium 24	NT1	nobelium 250
NT1	germanium 78	NT1	magnesium 26	NT1	nobelium 252
NT1	germanium 80	NT1	magnesium 28	NT1	nobelium 254
NT1	germanium 82	NT1	magnesium 30	NT1	nobelium 256
NT1	germanium 84	NT1	magnesium 32	NT1	nobelium 258
NT1	hafnium 154	NT1	magnesium 34	NT1	nobelium 260
NT1	hafnium 156	NT1	magnesium 36	NT1	nobelium 262
NT1	hafnium 158	NT1	magnesium 40	NT1	nobelium 264
NT1	hafnium 160	NT1	mercury 176	NT1	osmium 162
NT1	hafnium 162	NT1	mercury 178	NT1	osmium 164
NT1	hafnium 164	NT1	mercury 180	NT1	osmium 166
NT1	hafnium 166	NT1	mercury 182	NT1	osmium 168
NT1	hafnium 168	NT1	mercury 184	NT1	osmium 170
NT1	hafnium 170	NT1	mercury 186	NT1	osmium 172
NT1	hafnium 172	NT1	mercury 188	NT1	osmium 174
NT1	hafnium 174	NT1	mercury 190	NT1	osmium 176
NT1	hafnium 176	NT1	mercury 192	NT1	osmium 178
NT1	hafnium 178	NT1	mercury 194	NT1	osmium 180
NT1	hafnium 180	NT1	mercury 196	NT1	osmium 182
NT1	hafnium 182	NT1	mercury 198	NT1	osmium 184
NT1	hafnium 184	NT1	mercury 200	NT1	osmium 186
NT1	hafnium 186	NT1	mercury 202	NT1	osmium 188
NT1	hassium 264	NT1	mercury 204	NT1	osmium 190
NT1	hassium 266	NT1	mercury 206	NT1	osmium 192
NT1	hassium 270	NT1	mercury 208	NT1	osmium 194
NT1	helium 10	NT1	mercury 210	NT1	osmium 196
NT1	helium 4	NT1	mercury 212	NT1	oxygen 12
NT2	helium i	NT1	molybdenum 100	NT1	oxygen 14
NT2	helium ii	NT1	molybdenum 102	NT1	oxygen 16
NT1	helium 6	NT1	molybdenum 104	NT1	oxygen 18
NT1	helium 8	NT1	molybdenum 106	NT1	oxygen 20
NT1	iron 46	NT1	molybdenum 108	NT1	oxygen 22
NT1	iron 48	NT1	molybdenum 110	NT1	oxygen 24
NT1	iron 50	NT1	molybdenum 84	NT1	oxygen 28
NT1	iron 52	NT1	molybdenum 86	NT1	palladium 100
NT1	iron 54	NT1	molybdenum 88	NT1	palladium 102
NT1	iron 56	NT1	molybdenum 90	NT1	palladium 104
NT1	iron 58	NT1	molybdenum 92	NT1	palladium 106
NT1	iron 60	NT1	molybdenum 94	NT1	palladium 108
NT1	iron 62	NT1	molybdenum 96	NT1	palladium 110
NT1	iron 64	NT1	molybdenum 98	NT1	palladium 112
NT1	iron 66	NT1	neodymium 128	NT1	palladium 114
NT1	iron 68	NT1	neodymium 130	NT1	palladium 116
NT1	krypton 70	NT1	neodymium 132	NT1	palladium 118
NT1	krypton 72	NT1	neodymium 134	NT1	palladium 120
NT1	krypton 74	NT1	neodymium 136	NT1	palladium 94
NT1	krypton 76	NT1	neodymium 138	NT1	palladium 96
NT1	krypton 78	NT1	neodymium 140	NT1	palladium 98
NT1	krypton 80	NT1	neodymium 142	NT1	platinum 168
NT1	krypton 82	NT1	neodymium 144	NT1	platinum 170
NT1	krypton 84	NT1	neodymium 146	NT1	platinum 172
NT1	krypton 86	NT1	neodymium 148	NT1	platinum 174
NT1	krypton 88	NT1	neodymium 150	NT1	platinum 176
NT1	krypton 90	NT1	neodymium 152	NT1	platinum 178
NT1	krypton 92	NT1	neodymium 154	NT1	platinum 180
NT1	krypton 94	NT1	neodymium 156	NT1	platinum 182
NT1	krypton 96	NT1	neon 16	NT1	platinum 184
NT1	krypton 98	NT1	neon 18	NT1	platinum 186
NT1	lead 180	NT1	neon 20	NT1	platinum 188
NT1	lead 182	NT1	neon 22	NT1	platinum 190
NT1	lead 184	NT1	neon 24	NT1	platinum 192
NT1	lead 186	NT1	neon 26	NT1	platinum 194
NT1	lead 188	NT1	neon 28	NT1	platinum 196
NT1	lead 190	NT1	neon 30	NT1	platinum 198
NT1	lead 192	NT1	neon 32	NT1	platinum 200
NT1	lead 194	NT1	nickel 50	NT1	platinum 202
NT1	lead 196	NT1	nickel 52	NT1	platinum 204
NT1	lead 198	NT1	nickel 54	NT1	platinum 206

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NT1	platinum 208	NT1	rutherfordium 262	NT1	tellurium 130
NT1	plutonium 228	NT1	samarium 134	NT1	tellurium 132
NT1	plutonium 230	NT1	samarium 136	NT1	tellurium 134
NT1	plutonium 232	NT1	samarium 138	NT1	tellurium 136
NT1	plutonium 234	NT1	samarium 140	NT1	tellurium 138
NT1	plutonium 236	NT1	samarium 142	NT1	thorium 212
NT1	plutonium 238	NT1	samarium 144	NT1	thorium 214
NT1	plutonium 240	NT1	samarium 146	NT1	thorium 216
NT1	plutonium 242	NT1	samarium 148	NT1	thorium 218
NT1	plutonium 244	NT1	samarium 150	NT1	thorium 220
NT1	plutonium 246	NT1	samarium 152	NT1	thorium 224
NT1	plutonium 248	NT1	samarium 154	NT1	thorium 226
NT1	plutonium 250	NT1	samarium 156	NT1	thorium 228
NT1	polonium 188	NT1	samarium 158	NT1	thorium 230
NT1	polonium 190	NT1	samarium 160	NT1	thorium 232
NT1	polonium 192	NT1	seaborgium 260	NT1	thorium 234
NT1	polonium 194	NT1	seaborgium 262	NT1	thorium 236
NT1	polonium 196	NT1	seaborgium 266	NT1	thorium 238
NT1	polonium 198	NT1	selenium 66	NT1	tin 100
NT1	polonium 200	NT1	selenium 68	NT1	tin 102
NT1	polonium 202	NT1	selenium 70	NT1	tin 104
NT1	polonium 204	NT1	selenium 72	NT1	tin 106
NT1	polonium 206	NT1	selenium 74	NT1	tin 108
NT1	polonium 208	NT1	selenium 76	NT1	tin 110
NT1	polonium 210	NT1	selenium 78	NT1	tin 112
NT1	polonium 212	NT1	selenium 80	NT1	tin 114
NT1	polonium 214	NT1	selenium 82	NT1	tin 116
NT1	polonium 216	NT1	selenium 84	NT1	tin 118
NT1	polonium 218	NT1	selenium 86	NT1	tin 120
NT1	polonium 220	NT1	selenium 88	NT1	tin 122
NT1	radium 206	NT1	silicon 22	NT1	tin 124
NT1	radium 208	NT1	silicon 24	NT1	tin 126
NT1	radium 210	NT1	silicon 26	NT1	tin 128
NT1	radium 212	NT1	silicon 28	NT1	tin 130
NT1	radium 214	NT1	silicon 30	NT1	tin 132
NT1	radium 216	NT1	silicon 32	NT1	tin 134
NT1	radium 218	NT1	silicon 34	NT1	titanium 40
NT1	radium 220	NT1	silicon 36	NT1	titanium 42
NT1	radium 222	NT1	silicon 38	NT1	titanium 44
NT1	radium 224	NT1	silicon 40	NT1	titanium 46
NT1	radium 226	NT1	silicon 42	NT1	titanium 48
NT1	radium 228	NT1	strontium 100	NT1	titanium 50
NT1	radium 230	NT1	strontium 102	NT1	titanium 52
NT1	radium 232	NT1	strontium 76	NT1	titanium 54
NT1	radium 234	NT1	strontium 78	NT1	titanium 56
NT1	radon 196	NT1	strontium 80	NT1	titanium 58
NT1	radon 200	NT1	strontium 82	NT1	titanium 60
NT1	radon 202	NT1	strontium 84	NT1	tungsten 158
NT1	radon 204	NT1	strontium 86	NT1	tungsten 160
NT1	radon 206	NT1	strontium 88	NT1	tungsten 162
NT1	radon 208	NT1	strontium 90	NT1	tungsten 164
NT1	radon 210	NT1	strontium 92	NT1	tungsten 166
NT1	radon 212	NT1	strontium 94	NT1	tungsten 168
NT1	radon 214	NT1	strontium 96	NT1	tungsten 170
NT1	radon 216	NT1	strontium 98	NT1	tungsten 172
NT1	radon 218	NT1	sulfur 24	NT1	tungsten 174
NT1	radon 220	NT1	sulfur 28	NT1	tungsten 176
NT1	radon 222	NT1	sulfur 30	NT1	tungsten 178
NT1	radon 224	NT1	sulfur 32	NT1	tungsten 180
NT1	radon 226	NT1	sulfur 34	NT1	tungsten 182
NT1	radon 228	NT1	sulfur 36	NT1	tungsten 184
NT1	ruthenium 100	NT1	sulfur 38	NT1	tungsten 186
NT1	ruthenium 102	NT1	sulfur 40	NT1	tungsten 188
NT1	ruthenium 104	NT1	sulfur 42	NT1	tungsten 190
NT1	ruthenium 106	NT1	sulfur 44	NT1	tungsten 192
NT1	ruthenium 108	NT1	sulfur 46	NT1	uranium 218
NT1	ruthenium 110	NT1	sulfur 48	NT1	uranium 222
NT1	ruthenium 112	NT1	tellurium 106	NT1	uranium 224
NT1	ruthenium 114	NT1	tellurium 108	NT1	uranium 226
NT1	ruthenium 88	NT1	tellurium 110	NT1	uranium 228
NT1	ruthenium 90	NT1	tellurium 112	NT1	uranium 230
NT1	ruthenium 92	NT1	tellurium 114	NT1	uranium 232
NT1	ruthenium 94	NT1	tellurium 116	NT1	uranium 234
NT1	ruthenium 96	NT1	tellurium 118	NT1	uranium 236
NT1	ruthenium 98	NT1	tellurium 120	NT1	uranium 238
NT1	rutherfordium 254	NT1	tellurium 122	NT1	uranium 240
NT1	rutherfordium 256	NT1	tellurium 124	NT1	uranium 242
NT1	rutherfordium 258	NT1	tellurium 126	NT1	xenon 110
NT1	rutherfordium 260	NT1	tellurium 128	NT1	xenon 112

NT1 xenon 114  
 NT1 xenon 116  
 NT1 xenon 118  
 NT1 xenon 120  
 NT1 xenon 122  
 NT1 xenon 124  
 NT1 xenon 126  
 NT1 xenon 128  
 NT1 xenon 130  
 NT1 xenon 132  
 NT1 xenon 134  
 NT1 xenon 136  
 NT1 xenon 138  
 NT1 xenon 140  
 NT1 xenon 142  
 NT1 xenon 144  
 NT1 xenon 146  
 NT1 ytterbium 150  
 NT1 ytterbium 152  
 NT1 ytterbium 154  
 NT1 ytterbium 156  
 NT1 ytterbium 158  
 NT1 ytterbium 160  
 NT1 ytterbium 162  
 NT1 ytterbium 164  
 NT1 ytterbium 166  
 NT1 ytterbium 168  
 NT1 ytterbium 170  
 NT1 ytterbium 172  
 NT1 ytterbium 174  
 NT1 ytterbium 176  
 NT1 ytterbium 178  
 NT1 ytterbium 180  
 NT1 zinc 58  
 NT1 zinc 60  
 NT1 zinc 62  
 NT1 zinc 64  
 NT1 zinc 66  
 NT1 zinc 68  
 NT1 zinc 70  
 NT1 zinc 72  
 NT1 zinc 74  
 NT1 zinc 76  
 NT1 zinc 78  
 NT1 zinc 80  
 NT1 zirconium 100  
 NT1 zirconium 102  
 NT1 zirconium 104  
 NT1 zirconium 80  
 NT1 zirconium 82  
 NT1 zirconium 84  
 NT1 zirconium 86  
 NT1 zirconium 88  
 NT1 zirconium 90  
 NT1 zirconium 92  
 NT1 zirconium 94  
 NT1 zirconium 96  
 NT1 zirconium 98  
 RT nuclear structure

**EVEN-ODD NUCLEI**

1998-01-27

*Even protons, odd neutrons.*

BT1 nuclei  
 NT1 argon 31  
 NT1 argon 33  
 NT1 argon 35  
 NT1 argon 37  
 NT1 argon 39  
 NT1 argon 41  
 NT1 argon 43  
 NT1 argon 45  
 NT1 argon 47  
 NT1 argon 49  
 NT1 argon 51  
 NT1 barium 115  
 NT1 barium 117  
 NT1 barium 119  
 NT1 barium 121

NT1 barium 123  
 NT1 barium 125  
 NT1 barium 127  
 NT1 barium 129  
 NT1 barium 131  
 NT1 barium 133  
 NT1 barium 135  
 NT1 barium 137  
 NT1 barium 139  
 NT1 barium 141  
 NT1 barium 143  
 NT1 barium 145  
 NT1 barium 147  
 NT1 barium 149  
 NT1 beryllium 11  
 NT1 beryllium 13  
 NT1 beryllium 5  
 NT1 beryllium 7  
 NT1 beryllium 9  
 NT1 cadmium 101  
 NT1 cadmium 103  
 NT1 cadmium 105  
 NT1 cadmium 107  
 NT1 cadmium 109  
 NT1 cadmium 111  
 NT1 cadmium 113  
 NT1 cadmium 115  
 NT1 cadmium 117  
 NT1 cadmium 119  
 NT1 cadmium 121  
 NT1 cadmium 123  
 NT1 cadmium 125  
 NT1 cadmium 127  
 NT1 cadmium 97  
 NT1 cadmium 99  
 NT1 calcium 35  
 NT1 calcium 37  
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 NT1 calcium 47  
 NT1 calcium 49  
 NT1 calcium 51  
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 NT1 californium 253  
 NT1 californium 255  
 NT1 carbon 11  
 NT1 carbon 13  
 NT1 carbon 15  
 NT1 carbon 17  
 NT1 carbon 19  
 NT1 carbon 9  
 NT1 cerium 121  
 NT1 cerium 123  
 NT1 cerium 125  
 NT1 cerium 127  
 NT1 cerium 129  
 NT1 cerium 131  
 NT1 cerium 133  
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 NT1 cerium 139  
 NT1 cerium 141  
 NT1 cerium 143  
 NT1 cerium 145  
 NT1 cerium 147  
 NT1 cerium 149  
 NT1 cerium 151  
 NT1 chromium 43  
 NT1 chromium 45  
 NT1 chromium 47

NT1 chromium 49  
 NT1 chromium 51  
 NT1 chromium 53  
 NT1 chromium 55  
 NT1 chromium 57  
 NT1 chromium 59  
 NT1 chromium 61  
 NT1 chromium 63  
 NT1 chromium 65  
 NT1 curium 237  
 NT1 curium 239  
 NT1 curium 241  
 NT1 curium 243  
 NT1 curium 245  
 NT1 curium 247  
 NT1 curium 249  
 NT1 curium 251  
 NT1 darmstadtium 269  
 NT1 darmstadtium 271  
 NT1 dysprosium 141  
 NT1 dysprosium 143  
 NT1 dysprosium 145  
 NT1 dysprosium 147  
 NT1 dysprosium 149  
 NT1 dysprosium 151  
 NT1 dysprosium 153  
 NT1 dysprosium 155  
 NT1 dysprosium 157  
 NT1 dysprosium 159  
 NT1 dysprosium 161  
 NT1 dysprosium 163  
 NT1 dysprosium 165  
 NT1 dysprosium 167  
 NT1 dysprosium 169  
 NT1 element 112 277  
 NT1 element 112 283  
 NT1 erbium 145  
 NT1 erbium 147  
 NT1 erbium 149  
 NT1 erbium 151  
 NT1 erbium 153  
 NT1 erbium 155  
 NT1 erbium 157  
 NT1 erbium 159  
 NT1 erbium 161  
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 NT1 erbium 171  
 NT1 erbium 173  
 NT1 erbium 175  
 NT1 fermium 243  
 NT1 fermium 245  
 NT1 fermium 247  
 NT1 fermium 249  
 NT1 fermium 251  
 NT1 fermium 253  
 NT1 fermium 255  
 NT1 fermium 257  
 NT1 fermium 259  
 NT1 gadolinium 135  
 NT1 gadolinium 137  
 NT1 gadolinium 139  
 NT1 gadolinium 141  
 NT1 gadolinium 143  
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 NT1 gadolinium 147  
 NT1 gadolinium 149  
 NT1 gadolinium 151  
 NT1 gadolinium 153  
 NT1 gadolinium 155  
 NT1 gadolinium 157  
 NT1 gadolinium 159  
 NT1 gadolinium 161  
 NT1 gadolinium 163  
 NT1 gadolinium 165  
 NT1 germanium 61  
 NT1 germanium 65

NT1	germanium 67	NT1	lead 215	NT1	nobelium 253
NT1	germanium 69	NT1	magnesium 19	NT1	nobelium 255
NT1	germanium 71	NT1	magnesium 21	NT1	nobelium 257
NT1	germanium 73	NT1	magnesium 23	NT1	nobelium 259
NT1	germanium 75	NT1	magnesium 25	NT1	nobelium 261
NT1	germanium 77	NT1	magnesium 27	NT1	osmium 163
NT1	germanium 79	NT1	magnesium 29	NT1	osmium 165
NT1	germanium 81	NT1	magnesium 31	NT1	osmium 167
NT1	germanium 83	NT1	magnesium 33	NT1	osmium 169
NT1	germanium 85	NT1	magnesium 35	NT1	osmium 171
NT1	hafnium 155	NT1	magnesium 39	NT1	osmium 173
NT1	hafnium 157	NT1	mercury 175	NT1	osmium 175
NT1	hafnium 159	NT1	mercury 177	NT1	osmium 177
NT1	hafnium 161	NT1	mercury 179	NT1	osmium 179
NT1	hafnium 163	NT1	mercury 181	NT1	osmium 181
NT1	hafnium 165	NT1	mercury 183	NT1	osmium 183
NT1	hafnium 167	NT1	mercury 185	NT1	osmium 185
NT1	hafnium 169	NT1	mercury 187	NT1	osmium 187
NT1	hafnium 171	NT1	mercury 189	NT1	osmium 189
NT1	hafnium 173	NT1	mercury 191	NT1	osmium 191
NT1	hafnium 175	NT1	mercury 193	NT1	osmium 193
NT1	hafnium 177	NT1	mercury 195	NT1	osmium 195
NT1	hafnium 179	NT1	mercury 197	NT1	oxygen 13
NT1	hafnium 181	NT1	mercury 199	NT1	oxygen 15
NT1	hafnium 183	NT1	mercury 201	NT1	oxygen 17
NT1	hafnium 185	NT1	mercury 203	NT1	oxygen 19
NT1	hassium 265	NT1	mercury 205	NT1	oxygen 21
NT1	hassium 267	NT1	mercury 207	NT1	oxygen 23
NT1	hassium 271	NT1	mercury 209	NT1	palladium 101
NT1	helium 3	NT1	mercury 211	NT1	palladium 103
NT2	helium 3 a	NT1	molybdenum 101	NT1	palladium 105
NT2	helium 3 a1	NT1	molybdenum 103	NT1	palladium 107
NT2	helium 3 b	NT1	molybdenum 105	NT1	palladium 109
NT1	helium 5	NT1	molybdenum 107	NT1	palladium 111
NT1	helium 7	NT1	molybdenum 109	NT1	palladium 113
NT1	helium 9	NT1	molybdenum 85	NT1	palladium 115
NT1	iron 45	NT1	molybdenum 87	NT1	palladium 117
NT1	iron 47	NT1	molybdenum 89	NT1	palladium 119
NT1	iron 49	NT1	molybdenum 91	NT1	palladium 93
NT1	iron 51	NT1	molybdenum 93	NT1	palladium 95
NT1	iron 53	NT1	molybdenum 95	NT1	palladium 97
NT1	iron 55	NT1	molybdenum 97	NT1	palladium 99
NT1	iron 57	NT1	molybdenum 99	NT1	platinum 169
NT1	iron 59	NT1	neodymium 125	NT1	platinum 171
NT1	iron 61	NT1	neodymium 127	NT1	platinum 173
NT1	iron 63	NT1	neodymium 129	NT1	platinum 175
NT1	iron 65	NT1	neodymium 131	NT1	platinum 177
NT1	iron 67	NT1	neodymium 133	NT1	platinum 179
NT1	krypton 69	NT1	neodymium 135	NT1	platinum 181
NT1	krypton 71	NT1	neodymium 137	NT1	platinum 183
NT1	krypton 73	NT1	neodymium 139	NT1	platinum 185
NT1	krypton 75	NT1	neodymium 141	NT1	platinum 187
NT1	krypton 77	NT1	neodymium 143	NT1	platinum 189
NT1	krypton 79	NT1	neodymium 145	NT1	platinum 191
NT1	krypton 81	NT1	neodymium 147	NT1	platinum 193
NT1	krypton 83	NT1	neodymium 149	NT1	platinum 195
NT1	krypton 85	NT1	neodymium 151	NT1	platinum 197
NT1	krypton 87	NT1	neodymium 153	NT1	platinum 199
NT1	krypton 89	NT1	neodymium 155	NT1	platinum 201
NT1	krypton 91	NT1	neon 17	NT1	platinum 203
NT1	krypton 93	NT1	neon 19	NT1	platinum 205
NT1	krypton 95	NT1	neon 21	NT1	platinum 207
NT1	krypton 97	NT1	neon 23	NT1	plutonium 229
NT1	lead 183	NT1	neon 25	NT1	plutonium 231
NT1	lead 185	NT1	neon 27	NT1	plutonium 233
NT1	lead 187	NT1	neon 29	NT1	plutonium 235
NT1	lead 189	NT1	nickel 49	NT1	plutonium 237
NT1	lead 191	NT1	nickel 53	NT1	plutonium 239
NT1	lead 193	NT1	nickel 55	NT1	plutonium 241
NT1	lead 195	NT1	nickel 57	NT1	plutonium 243
NT1	lead 197	NT1	nickel 59	NT1	plutonium 245
NT1	lead 199	NT1	nickel 61	NT1	plutonium 247
NT1	lead 201	NT1	nickel 63	NT1	polonium 193
NT1	lead 203	NT1	nickel 65	NT1	polonium 195
NT1	lead 205	NT1	nickel 67	NT1	polonium 197
NT1	lead 207	NT1	nickel 69	NT1	polonium 199
NT1	lead 209	NT1	nickel 71	NT1	polonium 201
NT1	lead 211	NT1	nickel 73	NT1	polonium 203
NT1	lead 213	NT1	nobelium 251	NT1	polonium 205

NT1	polonium 207	NT1	selenium 71	NT1	tin 107
NT1	polonium 209	NT1	selenium 73	NT1	tin 109
NT1	polonium 211	NT1	selenium 75	NT1	tin 111
NT1	polonium 213	NT1	selenium 77	NT1	tin 113
NT1	polonium 215	NT1	selenium 79	NT1	tin 115
NT1	polonium 217	NT1	selenium 81	NT1	tin 117
NT1	polonium 219	NT1	selenium 83	NT1	tin 119
NT1	radium 205	NT1	selenium 85	NT1	tin 121
NT1	radium 207	NT1	selenium 87	NT1	tin 123
NT1	radium 209	NT1	selenium 89	NT1	tin 125
NT1	radium 211	NT1	selenium 91	NT1	tin 127
NT1	radium 213	NT1	silicon 23	NT1	tin 129
NT1	radium 215	NT1	silicon 25	NT1	tin 131
NT1	radium 217	NT1	silicon 27	NT1	tin 133
NT1	radium 219	NT1	silicon 29	NT1	tin 135
NT1	radium 221	NT1	silicon 31	NT1	tin 137
NT1	radium 223	NT1	silicon 33	NT1	titanium 39
NT1	radium 225	NT1	silicon 35	NT1	titanium 41
NT1	radium 227	NT1	silicon 37	NT1	titanium 43
NT1	radium 229	NT1	silicon 39	NT1	titanium 45
NT1	radium 231	NT1	silicon 41	NT1	titanium 47
NT1	radium 233	NT1	strontium 101	NT1	titanium 49
NT1	radon 197	NT1	strontium 75	NT1	titanium 51
NT1	radon 199	NT1	strontium 77	NT1	titanium 53
NT1	radon 201	NT1	strontium 79	NT1	titanium 55
NT1	radon 203	NT1	strontium 81	NT1	titanium 57
NT1	radon 205	NT1	strontium 83	NT1	titanium 59
NT1	radon 207	NT1	strontium 85	NT1	tungsten 159
NT1	radon 209	NT1	strontium 87	NT1	tungsten 161
NT1	radon 211	NT1	strontium 89	NT1	tungsten 163
NT1	radon 213	NT1	strontium 91	NT1	tungsten 165
NT1	radon 215	NT1	strontium 93	NT1	tungsten 167
NT1	radon 217	NT1	strontium 95	NT1	tungsten 169
NT1	radon 219	NT1	strontium 97	NT1	tungsten 171
NT1	radon 221	NT1	strontium 99	NT1	tungsten 173
NT1	radon 223	NT1	sulfur 27	NT1	tungsten 175
NT1	radon 225	NT1	sulfur 29	NT1	tungsten 177
NT1	radon 227	NT1	sulfur 31	NT1	tungsten 179
NT1	ruthenium 101	NT1	sulfur 33	NT1	tungsten 181
NT1	ruthenium 103	NT1	sulfur 35	NT1	tungsten 183
NT1	ruthenium 105	NT1	sulfur 37	NT1	tungsten 185
NT1	ruthenium 107	NT1	sulfur 39	NT1	tungsten 187
NT1	ruthenium 109	NT1	sulfur 41	NT1	tungsten 189
NT1	ruthenium 111	NT1	sulfur 43	NT1	uranium 219
NT1	ruthenium 113	NT1	sulfur 45	NT1	uranium 223
NT1	ruthenium 89	NT1	sulfur 47	NT1	uranium 225
NT1	ruthenium 91	NT1	tellurium 107	NT1	uranium 227
NT1	ruthenium 93	NT1	tellurium 109	NT1	uranium 229
NT1	ruthenium 95	NT1	tellurium 111	NT1	uranium 231
NT1	ruthenium 97	NT1	tellurium 113	NT1	uranium 233
NT1	ruthenium 99	NT1	tellurium 115	NT1	uranium 235
NT1	rutherfordium 253	NT1	tellurium 117	NT1	uranium 237
NT1	rutherfordium 255	NT1	tellurium 119	NT1	uranium 239
NT1	rutherfordium 257	NT1	tellurium 121	NT1	uranium 241
NT1	rutherfordium 259	NT1	tellurium 123	NT1	xenon 111
NT1	rutherfordium 261	NT1	tellurium 125	NT1	xenon 113
NT1	rutherfordium 263	NT1	tellurium 127	NT1	xenon 115
NT1	samarium 131	NT1	tellurium 129	NT1	xenon 117
NT1	samarium 133	NT1	tellurium 131	NT1	xenon 119
NT1	samarium 135	NT1	tellurium 133	NT1	xenon 121
NT1	samarium 137	NT1	tellurium 135	NT1	xenon 123
NT1	samarium 139	NT1	tellurium 137	NT1	xenon 125
NT1	samarium 141	NT1	thorium 213	NT1	xenon 127
NT1	samarium 143	NT1	thorium 215	NT1	xenon 129
NT1	samarium 145	NT1	thorium 217	NT1	xenon 131
NT1	samarium 147	NT1	thorium 219	NT1	xenon 132
NT1	samarium 149	NT1	thorium 221	NT1	xenon 133
NT1	samarium 151	NT1	thorium 222	NT1	xenon 135
NT1	samarium 153	NT1	thorium 223	NT1	xenon 137
NT1	samarium 155	NT1	thorium 225	NT1	xenon 139
NT1	samarium 157	NT1	thorium 227	NT1	xenon 141
NT1	samarium 159	NT1	thorium 229	NT1	xenon 143
NT1	seaborgium 259	NT1	thorium 231	NT1	xenon 145
NT1	seaborgium 261	NT1	thorium 233	NT1	ytterbium 151
NT1	seaborgium 263	NT1	thorium 235	NT1	ytterbium 153
NT1	seaborgium 265	NT1	thorium 237	NT1	ytterbium 155
NT1	selenium 65	NT1	tin 101	NT1	ytterbium 157
NT1	selenium 67	NT1	tin 103	NT1	ytterbium 159
NT1	selenium 69	NT1	tin 105	NT1	ytterbium 161



**NT1** ytterbium 163  
**NT1** ytterbium 165  
**NT1** ytterbium 167  
**NT1** ytterbium 169  
**NT1** ytterbium 171  
**NT1** ytterbium 173  
**NT1** ytterbium 175  
**NT1** ytterbium 177  
**NT1** ytterbium 179  
**NT1** zinc 57  
**NT1** zinc 59  
**NT1** zinc 61  
**NT1** zinc 63  
**NT1** zinc 65  
**NT1** zinc 67  
**NT1** zinc 69  
**NT1** zinc 71  
**NT1** zinc 73  
**NT1** zinc 75  
**NT1** zinc 77  
**NT1** zinc 79  
**NT1** zinc 81  
**NT1** zirconium 101  
**NT1** zirconium 103  
**NT1** zirconium 105  
**NT1** zirconium 109  
**NT1** zirconium 81  
**NT1** zirconium 83  
**NT1** zirconium 85  
**NT1** zirconium 87  
**NT1** zirconium 89  
**NT1** zirconium 91  
**NT1** zirconium 93  
**NT1** zirconium 95  
**NT1** zirconium 97  
**NT1** zirconium 99  
**RT** nuclear structure

### event tree analysis

**USE** failure mode analysis

### events (chemical explosions)

*ETDE: 2002-06-13*

See also under **CHEMICAL EXPLOSIONS** the list of specific chemical explosion events.

**USE** chemical explosions

### events (nuclear explosions)

*ETDE: 2002-06-13*

See also under **NUCLEAR EXPLOSIONS** the list of specific named nuclear events.

**USE** nuclear explosions

### EVERGLADES NATIONAL PARK

*INIS: 1992-06-04; ETDE: 1975-10-28*

**SF** parks

**BT1** public lands

**RT** florida

**RT** swamps

### EVOLUTION

*INIS: 2000-04-12; ETDE: 1978-02-14*

A process of development, as from a simple to a complex form.

**NT1** biological evolution

**NT1** galactic evolution

**NT1** mathematical evolution

**NT1** solar system evolution

**NT1** star evolution

**NT2** r process

**NT2** s process

**NT2** star accretion

### EVSR REACTOR

*2000-04-12*

*Vallecitos, California, USA.*

**UF** vallecitos reactor

**\*BT1** enriched uranium reactors

**\*BT1** power reactors

**\*BT1** water cooled reactors

**\*BT1** water moderated reactors

### EWA REACTOR

*Inst. of Nuclear Research, Swierk, Poland.*

**UF** swierk ewa reactor

**\*BT1** isotope production reactors

**\*BT1** research reactors

**\*BT1** tank type reactors

**\*BT1** water cooled reactors

**\*BT1** water moderated reactors

### EWG-1 REACTOR

*INIS: 2003-11-26; ETDE: 2003-12-03*

*National Nuclear Center of the Republic of Kazakhstan, Kurchatov city, East Kazakhstan.*

**UF** ewg-1m reactor

**UF** iw-1m reactor

**UF** kazakhstan ewg-1 reactor

**\*BT1** beryllium moderated reactors

**\*BT1** enriched uranium reactors

**\*BT1** experimental reactors

**\*BT1** gas cooled reactors

**\*BT1** materials testing reactors

**\*BT1** tank type reactors

**\*BT1** thermal reactors

**\*BT1** water cooled reactors

**\*BT1** water moderated reactors

### ewg-1m reactor

*INIS: 2003-11-26; ETDE: 2003-12-03*

*Kurchatov city, East Kazakhstan.*

**USE** ewg-1 reactor

### EXACT SOLUTIONS

*INIS: 2003-06-19; ETDE: 2003-07-29*

**BT1** mathematical solutions

**RT** functions

**RT** mathematical models

**RT** series expansion

### EXAWATT POWER RANGE

*INIS: 2003-08-15; ETDE: 2002-09-17*

*From 10 exp 18 to 10 exp 21 W.*

**BT1** power range

**NT1** power range 01-10 ew

**NT1** power range 10-100 ew

**NT1** power range 100-1000 ew

### EXCAVATION

**NT1** nuclear excavation

**RT** cavities

**RT** construction

**RT** craters

**RT** draglines

**RT** dredging

**RT** earthmoving equipment

**RT** explosions

**RT** mining

**RT** nuclear explosions

**RT** shaft excavations

**RT** slope stability

**RT** subterrene penetrators

**RT** surface mining

**RT** tunneling machines

**RT** tunnels

**RT** underground mining

### excavators

*INIS: 1983-06-30; ETDE: 1978-05-03*

**USE** earthmoving equipment

### EXCEPTIONAL NATURAL DISASTER

*INIS: 1999-02-24; ETDE: 2002-01-30*

*In the legal sense when so declared by the competent authority in relation to compensation for damages.*

**UF** disaster (exceptional natural)

**UF** natural disaster (exceptional)

**BT1** natural disasters

**RT** earthquakes

**RT** floods

**RT** liabilities

**RT** victims compensation

### EXCEPTIONS

*INIS: 2000-04-12; ETDE: 1979-12-10*

**SF** exemptions

**BT1** administrative procedures

### excess costs

*INIS: 2000-04-12; ETDE: 1983-03-23*

*(Prior to April 1994, this was a valid ETDE descriptor.)*

**USE** cost

### exchange (charge)

**USE** charge exchange

### exchange (electron)

**USE** electron exchange

### exchange (heat)

**USE** heat transfer

### exchange (ion)

**USE** ion exchange

### exchange (isotopic)

**USE** isotopic exchange

### EXCHANGE DEGENERACY

**RT** regge poles

### EXCHANGE INTERACTIONS

*Not for chemical reactions.*

**BT1** interactions

**RT** cim model

**RT** morrison rule

**RT** quark-hadron interactions

**RT** spin exchange

### exchange models

**USE** peripheral models

### exchange rate

*INIS: 1992-07-23; ETDE: 1984-09-21*

**USE** foreign exchange rate

### EXCIMER LASERS

*INIS: 1997-06-17; ETDE: 1984-05-08*

*Lasers whose lasing medium is a dimer that exists in the excited state and dissociates in the ground state.*

**\*BT1** gas lasers

**NT1** krypton chloride lasers

**NT1** krypton fluoride lasers

### EXCISION REPAIR

*1995-01-10*

**\*BT1** dna repair

### EXCITATION

*Addition of energy to a nuclear, atomic or molecular system transferring it to another energy state.*

**UF** core polarization (nuclei)

**BT1** energy-level transitions

**NT1** collective excitations

**NT1** coulomb excitation

**NT1** inner-shell excitation

**RT** activation energy

**RT** chemical activation

**RT** de-excitation

**RT** electron beam pumping

**RT** excited states

**RT** fission barrier

**RT** optical pumping

### EXCITATION FUNCTIONS

*1999-05-19*

*(Prior to July 1996 GERJUOY-STEIN*

*THEORY was a valid ETDE descriptor.)*

**SF** gerjuoy-stein theory

**\*BT1** differential cross sections

**BT1** functions

RT energy dependence  
 RT integral cross sections  
 RT nuclear reactions  
 RT total cross sections

**EXCITATION SYSTEMS**

INIS: 2000-04-12; ETDE: 1978-04-05

*Equipment for providing field current for an a-c generator or similar device.*

UF exciters  
 RT control equipment  
 RT electric currents  
 RT electric fields  
 RT electric generators  
 RT electrical equipment

**EXCITED STATES**

BT1 energy levels  
 NT1 metastable states  
 NT1 rotational states  
 NT1 rydberg states  
 NT1 vibrational states  
 RT excitation

**exciters**

INIS: 2000-04-12; ETDE: 1978-04-05  
 USE excitation systems

**EXCITON MODEL**

INIS: 1982-01-13; ETDE: 1979-05-09  
 \*BT1 nuclear models

**EXCITONS**

UF biexcitons  
 BT1 quasi particles  
 RT electron-hole droplets

**exclusion principle**

USE pauli principle

**exclusions (liability)**

INIS: 1976-12-08; ETDE: 1994-08-10  
 USE liability exclusions

**EXCLUSIVE INTERACTIONS**

*The group of all interactions of two particles producing a specific final state but excluding the final-state particle itself.*

\*BT1 particle interactions  
 NT1 semi-exclusive interactions  
 RT inclusive interactions

**exclusive liability**

INIS: 1990-12-15; ETDE: 2002-06-13  
 (Prior to December 1990, this was a valid descriptor.)  
 USE liabilities

**EXCRETION**

UF excretion analysis  
 BT1 clearance  
 NT1 exhalation  
 NT1 lung clearance  
 NT1 renal clearance  
 RT biological wastes  
 RT body fluids  
 RT feces  
 RT glands  
 RT glucuronide conjugates  
 RT glutathione conjugates  
 RT kidneys  
 RT large intestine  
 RT lavage  
 RT phagocytosis  
 RT physiology  
 RT radionuclide kinetics  
 RT retention  
 RT secretion  
 RT sweat  
 RT urinary tract  
 RT urine

**excretion analysis**

USE excretion  
 USE personnel monitoring

**excretion functions**

USE retention functions

**EXCURSIONS**

UF power excursions  
 UF runaway (reactor accident)  
 \*BT1 reactor accidents  
 RT hazards  
 RT reactors

**EXECUTIVE CODES**

INIS: 1988-11-16; ETDE: 1983-08-25  
*A digital computer code that controls other codes, allocates storage to these codes and controls the servicing of peripheral devices.*

UF monitor codes  
 UF operating systems (computer)  
 UF supervisor codes  
 BT1 computer codes  
 RT memory management  
 RT programming  
 RT task scheduling

**EXECUTIVE ORDERS**

INIS: 2000-04-12; ETDE: 1983-05-21  
 RT laws  
 RT legal aspects  
 RT regulations

**exemptions**

INIS: 2000-04-12; ETDE: 1980-11-25  
 SEE exceptions

**EXERCISE**

UF physical effort  
 UF swimming  
 RT biological fatigue  
 RT biological stress  
 RT muscles

**EXERGY**

INIS: 1980-02-26; ETDE: 1980-03-29  
*That portion of energy which is converted into the desired, economically utilizable form.*

BT1 energy  
 RT thermodynamics

**EXHALATION**

\*BT1 excretion  
 RT breath  
 RT lung clearance

**exhaust gas recirculation systems**

INIS: 1992-07-07; ETDE: 1976-01-07  
 USE exhaust recirculation systems

**EXHAUST GASES**

1991-10-24  
 SF emissions (industrial)  
 \*BT1 gaseous wastes  
 \*BT1 gases  
 RT afterburners  
 RT automobiles  
 RT catalytic converters  
 RT combustion products  
 RT emissions tax  
 RT emissions trading  
 RT exhaust recirculation systems  
 RT exhaust systems  
 RT federal test procedure  
 RT internal combustion engines

**EXHAUST RECIRCULATION SYSTEMS**

INIS: 1992-07-07; ETDE: 1976-01-07  
 UF egr systems  
 UF exhaust gas recirculation systems  
 BT1 exhaust systems

\*BT1 pollution control equipment  
 RT air pollution control  
 RT automobiles  
 RT combustion  
 RT exhaust gases

**EXHAUST SYSTEMS**

INIS: 1983-03-15; ETDE: 1977-03-08

NT1 exhaust recirculation systems  
 RT afterburners  
 RT air pollution  
 RT chimneys  
 RT divertors  
 RT exhaust gases  
 RT ventilation

**EXHIBITS**

INIS: 1993-06-07; ETDE: 1979-05-31  
 RT educational facilities  
 RT educational tools

**EXINITE**

INIS: 2000-04-12; ETDE: 1987-07-24  
 UF liptinite  
 BT1 macerals

**EXO-ELECTRON DOSEMETERS**

\*BT1 dosimeters

**EXO-ELECTRONS**

\*BT1 electrons

**EXONS**

INIS: 1995-06-09; ETDE: 1995-05-05  
 RT dna  
 RT gene regulation  
 RT genes  
 RT introns  
 RT messenger-rna  
 RT splicing

**EXOSKELETON**

\*BT1 skeleton  
 RT echinoderms

**EXOSPHERE**

BT1 earth atmosphere

**exotic atoms**

USE hadronic atoms

**EXOTIC RESONANCES**

*Resonance states not accommodated by the naive quark model.*

\*BT1 resonance particles

**EXPANSION**

*Increase in size or volume, not for the concept covered by SERIES EXPANSION.*

NT1 plasma expansion  
 NT1 thermal expansion  
 RT augmentation  
 RT contraction  
 RT cosmological models  
 RT elongation  
 RT hubble effect  
 RT solar wind  
 RT swelling

**EXPANSION CHAMBERS**

\*BT1 cloud chambers

**EXPANSION JOINTS**

INIS: 1975-10-09; ETDE: 1975-12-16

BT1 joints  
 RT bellows  
 RT contraction  
 RT pipe fittings  
 RT pipe joints  
 RT thermal expansion

**EXPECTATION VALUE**

RT eigenfunctions  
 RT eigenvalues

RT probability  
RT quantum mechanics  
RT statistics

**EXPENDITURES**

INIS: 1992-04-09; ETDE: 1981-07-06

UF federal expenditures  
UF government spending  
UF spending  
RT budgets  
RT capital  
RT cost  
RT economics  
RT financing

**experience critique orgel**

USE eco reactor

**EXPERIMENT PLANNING**

INIS: 1985-12-10; ETDE: 1975-09-11

BT1 planning  
RT demonstration programs  
RT research programs

**experimental advanced  
superconducting tokamak**

2006-07-25

USE ht-7u tokamak

**experimental beryllium oxide reactor**

1993-11-08

USE ebor reactor

**experimental boiling water reactor**

2000-04-12

USE ebwr reactor

**experimental breeder reactor-1**

2000-04-12

USE ebr-1 reactor

**experimental breeder reactor-2**

2000-04-12

USE ebr-2 reactor

**EXPERIMENTAL CHANNELS**

UF irradiation channels  
\*BT1 reactor channels  
\*BT1 reactor experimental facilities  
RT in pile loops  
RT irradiation capsules

**EXPERIMENTAL DATA**

INIS: 1978-10-20; ETDE: 1979-02-27

Use only in conjunction with literary indicator  
N for data flagging.

\*BT1 numerical data  
RT benchmarks

**experimental facilities (accelerator)**

1993-11-08

USE accelerator facilities

**experimental facilities (reactor)**

INIS: 2000-04-12; ETDE: 1977-03-04

USE reactor experimental facilities

**experimental gas cooled reactor**

2000-04-12

USE egcr reactor

**experimental graphite reactor**

INIS: 2003-11-26; ETDE: 2003-12-03

Kurchatov city, East Kazakhstan.

USE igr reactor

**EXPERIMENTAL NEOPLASMS**

1999-07-08

UF jensen sarcoma  
UF walker carcinoma  
UF yoshida sarcoma  
\*BT1 neoplasms

NT1 ehrlich ascites tumor  
RT leukemia viruses

**experimental organic cooled reactor**

2000-04-12

USE eocr reactor

**experimental propulsion test reactor**

1993-11-08

SEE tory-2a reactor  
SEE tory-2c reactor

**EXPERIMENTAL REACTORS**

1998-01-29

For engineering testing of reactor components  
such as fuel elements, cooling systems, etc.

UF lere reactor

UF lithium cooled reactor experiment

\*BT1 research and test reactors

NT1 aps reactor  
NT1 arbus reactor  
NT1 atrc reactor  
NT1 bilibin reactor  
NT1 bor-60 reactor  
NT1 borax-1 reactor  
NT1 borax-2 reactor  
NT1 borax-3 reactor  
NT1 borax-4 reactor  
NT1 br-3-vn reactor  
NT1 cejr reactor  
NT1 cesar reactor  
NT1 dfr reactor  
NT1 dragon reactor  
NT1 ebr-1 reactor  
NT1 ebr-2 reactor  
NT1 ebwr reactor  
NT1 egcr reactor  
NT1 el-1 reactor  
NT1 eocr reactor  
NT1 esada-vesr reactor  
NT1 ewg-1 reactor  
NT1 gcre reactor  
NT1 hbwr reactor  
NT1 hdr reactor  
NT1 hre-2 reactor  
NT1 htr-10 reactor  
NT1 httr reactor  
NT1 igr reactor  
NT1 ir-100 reactor  
NT1 joyo reactor  
NT1 jpdr reactor  
NT1 jules horowitz reactor  
NT1 kiwi-tnt reactor  
NT1 knk-2 reactor  
NT1 knk reactor  
NT1 lampre-1 reactor  
NT1 mh-1a reactor  
NT1 mir reactor  
NT1 msre reactor  
NT1 nrx-a1 reactor  
NT1 nrx-a2 reactor  
NT1 nrx-a3 reactor  
NT1 nrx-a4-est reactor  
NT1 nrx-a5 reactor  
NT1 nrx-a6 reactor  
NT1 nrx-a7 reactor  
NT1 omre reactor  
NT1 opal reactor  
NT1 rover reactors  
NT1 sefor reactor  
NT1 spert-1 reactor  
NT1 spert-2 reactor  
NT1 spert-3 reactor  
NT1 spert-4 reactor  
NT1 sre reactor  
NT1 subcritical assemblies  
NT2 pse reactor  
NT2 stsf assembly  
NT1 topaz reactor  
NT1 tory-2a reactor

NT1 tory-2c reactor  
NT1 treat reactor  
NT1 tz1 reactor  
NT1 tz2 reactor  
NT1 uhtrex reactor  
NT1 venus reactor  
NT1 vhr reactor  
NT1 xe-2 reactor  
NT1 xe-prime reactor  
NT1 xma-1 reactor  
NT1 zero power reactors  
NT2 agata reactor  
NT2 akr-1 reactor  
NT2 anex reactor  
NT2 anna reactor  
NT2 apfa-3 reactor  
NT2 aquilon reactor  
NT2 bfs reactor  
NT2 big ten reactor  
NT2 cfrmf reactor  
NT2 cml reactor  
NT2 coral-1 reactor  
NT2 crocus reactor  
NT2 dca reactor  
NT2 dimple reactor  
NT2 ecel reactor  
NT2 ermine reactor  
NT2 etrc reactor  
NT2 fca reactor  
NT2 flattop reactor  
NT2 fr-0 reactor  
NT2 godiva reactor  
NT2 hero reactor  
NT2 hitrex-1 reactor  
NT2 horace reactor  
NT2 hwzpr reactor  
NT2 iea-zpr reactor  
NT2 ifr reactor  
NT2 ipen-mb-1 reactor  
NT2 jezebel reactor  
NT2 juno reactor  
NT2 kahter reactor  
NT2 kbr-1 reactor  
NT2 kritz reactor  
NT2 kuca reactor  
NT2 lptf reactor  
NT2 lr-0 reactor  
NT2 lvr-15 reactor  
NT2 marius reactor  
NT2 maryla reactor  
NT2 masurca reactor  
NT2 minerve reactor  
NT2 neptune reactor  
NT2 nsf-rfp reactor  
NT2 or-cef reactor  
NT2 ornl-pca reactor  
NT2 parka reactor  
NT2 pdp reactor  
NT2 peggy reactor  
NT2 pelinduna reactor  
NT2 plasma core assembly  
NT2 prf reactor  
NT2 ptf-unc reactor  
NT2 purnima-2 reactor  
NT2 purnima reactor  
NT2 r-b reactor  
NT2 ra-0 reactor  
NT2 ra-2 reactor  
NT2 ra-8 reactor  
NT2 rake-2 reactor  
NT2 rb-1 reactor  
NT2 rb-3 reactor  
NT2 renselaer critical facility  
NT2 ritmo reactor  
NT2 rospo reactor  
NT2 saref reactor  
NT2 shca reactor  
NT2 silene reactor  
NT2 siloette reactor

NT2 sneak reactor  
 NT2 split table reactor  
 NT2 sr-0a reactor  
 NT2 stacy reactor  
 NT2 tea reactor  
 NT2 tr-0 reactor  
 NT2 tracy reactor  
 NT2 vera reactor  
 NT2 zebra reactor  
 NT2 zeep reactor  
 NT2 zenith reactor  
 NT2 zephyr reactor  
 NT2 zerlina reactor  
 NT2 zlfr reactor  
 NT2 zppr reactor  
 NT2 zpr-3 reactor  
 NT2 zpr-6 reactor  
 NT2 zpr-9 reactor  
 NT2 zpr reactor  
 NT2 zr-6 reactor  
 NT1 zrr reactor

### experimental very high temperature gas cooled reactor

INIS: 1978-01-16; ETDE: 2002-06-13  
 USE vhttr reactor

### EXPERT SYSTEMS

INIS: 1986-09-26; ETDE: 1985-09-24  
 Computer programs comprising a knowledge-based component, constructed from an expert skill, operating in such a way that the system can offer intelligent advice or make an intelligent decision about a processing function.

RT artificial intelligence  
 RT data processing  
 RT knowledge base  
 RT machine translations  
 RT neural networks  
 RT programming

### EXPLODING WIRES

BT1 wires  
 RT detonators

### exploitation

2000-03-27  
 SEE resource exploitation

### EXPLORATION

NT1 geothermal exploration  
 RT aerial prospecting  
 RT electrical surveys  
 RT exploratory wells  
 RT geochemical surveys  
 RT geologic surveys  
 RT geophysical surveys  
 RT landsat satellites  
 RT magnetic surveys  
 RT petroleum geology  
 RT prospecting  
 RT radiometric surveys  
 RT remote sensing  
 RT resource potential

### EXPLORATORY WELLS

INIS: 1992-07-08; ETDE: 1979-01-30  
 UF test wells  
 BT1 wells  
 RT boreholes  
 RT exploration  
 RT geothermal exploration  
 RT geothermal wells  
 RT natural gas wells  
 RT oil wells  
 RT well drilling

### EXPLORER SATELLITES

BT1 satellites

### EXPLOSION WELDING

\*BT1 welding

### EXPLOSIONS

(From February 1975 until March 1996 DETONATIONS was a valid ETDE descriptor.)

UF blasts  
 UF detonations  
 NT1 atmospheric explosions  
 NT2 ranger project  
 NT2 trinity event  
 NT1 chemical explosions  
 NT1 cratering explosions  
 NT2 sedan event  
 NT1 nuclear explosions  
 NT2 anvil project  
 NT2 arbor project  
 NT2 bedrock project  
 NT2 castle project  
 NT2 crossroads project  
 NT2 crosstie operation  
 NT3 gasbuggy event  
 NT2 dominic project  
 NT2 greenhouse project  
 NT2 grommet operation  
 NT2 hardtack project  
 NT2 latchkey operation  
 NT2 mandrel operation  
 NT2 nougat operation  
 NT2 plumbbob project  
 NT2 praetorian project  
 NT2 ranger project  
 NT2 sandstone project  
 NT2 sun beam operation  
 NT2 thermonuclear explosions  
 NT2 toggle operation  
 NT3 rio blanco event  
 NT2 trinity event  
 NT2 whetstone operation  
 NT1 surface explosions  
 NT1 underground explosions  
 NT2 arbor project  
 NT2 contained explosions  
 NT2 crosstie operation  
 NT3 gasbuggy event  
 NT2 grommet operation  
 NT2 latchkey operation  
 NT2 mandrel operation  
 NT2 nougat operation  
 NT2 sun beam operation  
 NT2 toggle operation  
 NT3 rio blanco event  
 NT2 whetstone operation  
 NT1 underwater explosions  
 RT accidents  
 RT blast effects  
 RT combustion waves  
 RT detonation waves  
 RT detonators  
 RT excavation  
 RT fires  
 RT implosions  
 RT molten metal-water reactions  
 RT natural disasters  
 RT seismic events  
 RT shock waves  
 RT spontaneous combustion

### EXPLOSIVE FORMING

\*BT1 materials working

### EXPLOSIVE FRACTURING

INIS: 1995-09-08; ETDE: 1976-04-19  
 UF blasting  
 UF shotfiring  
 UF solfrac process  
 BT1 fracturing  
 RT chemical explosions  
 RT fractures

RT mining  
 RT nuclear explosions  
 RT underground explosions

### EXPLOSIVE INSTABILITY

\*BT1 plasma instability

### EXPLOSIVE STIMULATION

The use of chemical-or nuclear-explosive fracturing to increase reservoir production.

UF stimulation (explosive)  
 UF well shooting  
 \*BT1 well stimulation  
 RT chemical explosions  
 RT chimneys  
 RT enhanced recovery  
 RT nuclear explosions  
 RT oil shales  
 RT underground explosions

### explosively-driven mhd generators

INIS: 2000-04-12; ETDE: 1977-05-07  
 USE pulsed mhd generators

### EXPLOSIVES

(From January 1975 till March 1997 PROPELLANTS was a valid ETDE descriptor.)

SF propellants  
 NT1 chemical explosives  
 NT2 dynamite  
 NT2 nitrocellulose  
 NT2 nitroglycerin  
 NT2 nitromethane  
 NT2 petn  
 NT2 picric acid  
 NT2 tatb  
 NT2 tetryl  
 NT2 tnt  
 NT1 nuclear explosives  
 RT ammunition  
 RT guns

### exponential piles

USE subcritical assemblies

### EXPORTS

INIS: 1991-12-10; ETDE: 1978-07-05  
 BT1 trade  
 RT domestic supplies  
 RT foreign policy  
 RT imports  
 RT sales  
 RT tariffs

### exposure (radiation doses)

USE radiation doses

### EXPOSURE CHAMBERS

INIS: 1978-09-28; ETDE: 1977-10-20  
 UF atmospheric exposure chambers  
 UF environmental exposure chambers  
 UF inhalation exposure chambers  
 RT controlled atmospheres

### EXPOSURE RATEMETERS

UF ratemeters (exposure)  
 \*BT1 radiation monitors  
 RT counting ratemeters  
 RT radiation monitoring

### EXTENDED PARTICLE MODEL

\*BT1 particle models  
 NT1 bag model  
 NT1 string models  
 NT2 superstring models  
 RT solitons

### EXTENSIVE AIR SHOWERS

\*BT1 cosmic showers  
 RT centauro-type events

**EXTENSOMETERS**

- RT dilatometry  
RT strain gages

**EXTERNAL CONVERSION**

- BT1 conversion  
RT energy levels

**EXTERNAL COST**

2004-09-03

*Cost of a product or operation not included in the balance sheet but borne by society as a whole, such as health effects of environmental pollution.*

- UF externalities  
SF societal costs  
BT1 cost  
RT cost benefit analysis  
RT life-cycle cost

**EXTERNAL IRRADIATION**

- BT1 irradiation  
NT1 extracorporeal irradiation  
NT1 partial body irradiation  
NT1 whole-body irradiation  
RT irradiation devices  
RT irradiation plants  
RT irradiation procedures  
RT local fallout  
RT local irradiation  
RT personnel dosimetry  
RT radiation protection  
RT radioactive clouds  
RT shielding

**external magnetic fields**

INIS: 1976-01-28; ETDE: 2002-06-13  
USE magnetic fields

**EXTERNAL RECEIVERS**

INIS: 2000-04-12; ETDE: 1982-02-08  
*Solar receivers with absorbers on the outside surface.*  
BT1 solar receivers

**EXTERNAL ZONES**

INIS: 1984-05-28; ETDE: 1984-06-14  
*Areas immediately surrounding nuclear facility sites in which population distribution and density, and land and water uses, are considered with respect to the possibility of implementing emergency measures.*  
RT emergency plans  
RT evacuation  
RT land use  
RT nuclear facilities  
RT population relocation  
RT reactor sites  
RT routing  
RT site selection  
RT water use

**externalities**

2004-09-03  
USE external cost

**extinguishment**

INIS: 2000-04-12; ETDE: 1976-01-26  
USE inhibition

**EXTRACELLULAR SPACE**

1999-10-11  
BT1 space  
RT compartments  
RT edema

**EXTRACORPOREAL IRRADIATION**

*In vivo irradiation of organ, tissue or body fluid while outside the body.*  
\*BT1 external irradiation  
RT blood

**EXTRACTION**

1993-08-02  
BT1 separation processes  
NT1 deasphalting  
NT1 reductive extraction  
NT1 solvent extraction  
NT2 phenosolvan process  
NT2 supercritical gas extraction

**extraction (beam)**

USE beam extraction

**extraction (heat)**

INIS: 2000-04-12; ETDE: 1975-08-19  
USE heat extraction

**extraction (solvent)**

USE solvent extraction

**EXTRACTION APPARATUSES**

UF centrifugal contactors  
\*BT1 separation equipment  
NT1 extraction columns  
NT1 mist extractors  
NT1 mixer-settlers  
NT1 podbielniak contactors  
RT coolant cleanup systems  
RT entrainment  
RT laboratory equipment  
RT solvent extraction

**EXTRACTION****CHROMATOGRAPHY**

\*BT1 chromatography

**EXTRACTION COLUMNS**

UF cascade (extraction)  
UF chromatographic columns  
UF columns (extraction)  
UF pulse columns  
UF towers (extraction)  
\*BT1 extraction apparatuses  
RT column packing

**EXTRACTIVE METALLURGY**

BT1 metallurgy  
NT1 hydrometallurgy  
NT1 pyrometallurgy  
NT2 chloride volatility process  
NT2 fluoride volatility process  
RT electrometallurgy  
RT refining

**extrahigh voltage ac systems**

INIS: 1993-01-18; ETDE: 2002-06-13  
USE ehv ac systems

**extrahigh voltage alternating current systems**

INIS: 2000-04-12; ETDE: 1976-05-17  
USE ehv ac systems

**extrahigh voltage dc systems**

INIS: 1992-03-09; ETDE: 2002-06-13  
USE ehv dc systems

**extrahigh voltage direct current systems**

INIS: 2000-04-12; ETDE: 1976-05-17  
USE ehv dc systems

**EXTRAP-T2 DEVICE**

INIS: 1999-07-26; ETDE: 1999-09-03  
*External Ring Trap, Royal Institute of Technology, Sweden.*  
\*BT1 reversed-field pinch devices

**EXTRAPOLATION**

\*BT1 numerical solution  
RT extrapolation length  
RT interpolation  
RT mathematics

**EXTRAPOLATION CHAMBERS**

- \*BT1 dosimeters  
\*BT1 ionization chambers

**EXTRAPOLATION LENGTH**

1999-07-20  
\*BT1 length  
RT extrapolation  
RT neutron transport theory

**EXTREME ULTRAVIOLET RADIATION**

*Wavelength range 400-100 Å.*  
UF xiv  
\*BT1 ultraviolet radiation  
RT extreme ultraviolet spectra

**EXTREME ULTRAVIOLET SPECTRA**

INIS: 1989-09-14; ETDE: 1986-11-20  
\*BT1 ultraviolet spectra  
RT absorption spectroscopy  
RT electronic structure  
RT extreme ultraviolet radiation  
RT structural chemical analysis

**EXTREME-VALUE PROBLEMS**

INIS: 1976-10-07; ETDE: 1976-11-01  
RT mathematics

**extremely high frequency radiation**

1993-11-08  
USE microwave radiation

**EXTRUSION**

- \*BT1 materials working  
NT1 coextrusion  
RT cold working  
RT dies  
RT hot working  
RT presses  
RT pressing

**exxon donor solvent liquefaction**

INIS: 2000-04-12; ETDE: 1980-10-27  
USE exxon liquefaction process

**EXXON FUEL FABRICATION FACILITY**

\*BT1 fuel fabrication plants

**EXXON GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1976-09-14  
*Coal is reacted with steam in a fluidized-bed gasifier at 1500-1700 degrees F. To provide the necessary heat, a stream of circulating char is withdrawn from the gasifier and partially burned with air in a char heater to raise its temperature. The heated char is returned to the gasifier after separation from the flue gas. The product gas is a medium-btu gas suitable for methanation to sng.*  
\*BT1 coal gasification  
RT sng processes

**EXXON LIQUEFACTION PROCESS**

INIS: 2000-04-12; ETDE: 1976-09-14  
*Crushed coal is slurried with a recycle solvent, preheated to about 800 degrees F, and then pumped into the liquefaction reactor operating at about 2,000 P.S.I. Preheated hydrogen is also added to the reactor. The product from the liquefaction reactor is sent to the separation step where gas, naphtha, recycle solvent, distillate, and heavy bottoms are separated by distillation.*  
UF eds liquefaction  
UF exxon donor solvent liquefaction  
\*BT1 coal liquefaction

**exxon nuclear facility**

INIS: 2000-04-12; ETDE: 1980-04-14  
SEE nuclear fuel recovery and recycling center

**exxon recovery and recycle plant**

INIS: 1990-12-15; ETDE: 1984-05-09  
(Prior to December 1990, this was a valid descriptor.)  
USE nuclear fuel recovery and recycling center

**eye cataracts**

USE cataracts

**EYES**

UF aqueous humor  
UF sclera  
\*BT1 face  
\*BT1 sense organs  
NT1 conjunctiva  
NT1 cornea  
NT1 crystalline lens  
NT1 lacrimal ducts  
NT1 retina  
NT1 uvea  
RT ophthalmology  
RT vision

**ezeiza argentine ra-3 reactor**

USE ra-3 reactor

**ezeiza argentine ra-4 reactor**

INIS: 2002-08-13; ETDE: 2002-06-16  
USE ra-4 reactor

**F-1 REACTOR**

INIS: 1979-09-18; ETDE: 1979-10-23  
\*BT1 graphite moderated reactors  
\*BT1 natural uranium reactors  
\*BT1 research reactors

**f-1260 resonances**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE f2-1270 mesons

**f-1514 resonances**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE f2 prime-1525 mesons

**f-1540 resonances**

1988-03-08  
(Prior to December 1987 this was a valid descriptor.)  
USE mesons

**f-2030 resonances**

INIS: 1985-01-17; ETDE: 1978-09-11  
(This was a valid ETDE descriptor prior to January 1985.)  
USE d s mesons

**F CENTERS**

\*BT1 color centers

**F-CHART**

INIS: 2000-04-12; ETDE: 1979-10-23  
Performance measure used to determine fraction of total heating load provided by a particular solar collector.  
RT performance  
RT solar collectors  
RT solar heating systems  
RT solar water heaters

**F CODES**

BT1 computer codes

**f mesons**

INIS: 1987-12-21; ETDE: 1985-02-07  
(Prior to December 1987 this was a valid descriptor.)  
USE d s mesons

**F REGION**

\*BT1 ionosphere  
NT1 f1 layer  
NT1 f2 layer  
NT1 spread f  
RT ionospheric storms

**F STATES**

BT1 energy levels

**F WAVES**

BT1 partial waves  
RT angular momentum  
RT quantum mechanics

**f\*resonances**

INIS: 1987-12-21; ETDE: 1978-09-11  
(Prior to December 1987 this was a valid descriptor.)  
USE d\*s-2110 mesons

**F0-1240 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-28  
\*BT1 scalar mesons

**F0-1300 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-29  
\*BT1 scalar mesons

**F0-1590 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01  
\*BT1 scalar mesons

**F0-1730 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01  
\*BT1 scalar mesons

**f0-975 mesons**

INIS: 1995-08-07; ETDE: 1988-01-25  
(From December 1987 until July 1995 this was a valid term.)  
USE f0-980 mesons

**F0-980 MESONS**

1995-08-07  
(Until December 1987 this concept was indexed by S-993 RESONANCES; from then until July 1995 it was indexed by F0-975 MESONS.)  
UF f0-975 mesons  
UF s-993 resonances  
\*BT1 scalar mesons

**F1-1285 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-29  
(Prior to December 1987 this concept was indexed by D-1285 RESONANCES.)  
UF d-1285 resonances  
\*BT1 axial vector mesons

**F1-1420 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-29  
(Prior to December 1987 this concept was indexed by E-1422 RESONANCES.)  
UF e-1422 resonances  
\*BT1 axial vector mesons

**F1-1510 MESONS**

1995-08-07  
(Until July 1995 this concept was indexed by F1-1530 MESONS.)  
UF f1-1530 mesons  
\*BT1 axial vector mesons

**f1-1530 mesons**

INIS: 1995-08-07; ETDE: 1988-02-01  
(Until July 1995 this was a valid term.)  
USE f1-1510 mesons

**F1 LAYER**

\*BT1 f region

**F2-1270 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-28  
(Prior to December 1987 this concept was indexed by F-1260 RESONANCES.)  
UF f-1260 resonances  
\*BT1 tensor mesons

**f2-1410 mesons**

INIS: 1995-08-07; ETDE: 1988-01-29  
(Until July 1995 this was a valid term.)  
USE f2-1430 mesons

**F2-1430 MESONS**

1995-08-07  
(Until July 1995 this concept was indexed by F2-1410 MESONS.)  
UF f2-1410 mesons  
\*BT1 tensor mesons

**f2-1525 mesons**

INIS: 1995-08-07; ETDE: 1988-02-01  
(From December 1987 until July 1995 this was a valid term.)  
USE f2 prime-1525 mesons

**F2-1720 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01  
(Prior to December 1987 this concept was indexed by THETA-1690 RESONANCES.)  
UF theta-1640 resonances  
UF theta-1690 resonances  
\*BT1 tensor mesons

**F2-1810 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01  
\*BT1 tensor mesons

**F2-2010 MESONS**

1995-07-17  
\*BT1 tensor mesons

**F2-2300 MESONS**

1995-07-17  
\*BT1 tensor mesons

**F2-2340 MESONS**

1995-07-17  
\*BT1 tensor mesons

**F2 LAYER**

\*BT1 f region

**F2 PRIME-1525 MESONS**

1995-08-07  
(Until December 1987 this concept was indexed by F-1514 RESONANCES; from then until July 1995 it was indexed to F2-1525 MESONS.)  
UF f-1514 resonances  
UF f2-1525 mesons  
\*BT1 strangeonium  
\*BT1 tensor mesons

**f4-2030 mesons**

INIS: 1995-08-07; ETDE: 1988-02-01  
(From December 1987 until July 1995 this was a valid term.)  
USE f4-2050 mesons

**F4-2050 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by H-2050 RESONANCES; from then until July 1995 it was indexed by F4-2030 MESONS.)

UF *f4-2030 mesons*UF *h-2050 resonances*

\*BT1 tensor mesons

**F4-2300 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by U-2375 RESONANCES.)

UF *u-2375 resonances*

\*BT1 tensor mesons

**F6-2510 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by R-2510 RESONANCES.)

UF *r-2510 resonances*

\*BT1 tensor mesons

**FABRIC FILTERS**

INIS: 1992-03-27; ETDE: 1978-10-23

BT1 filters

RT baghouses

RT dust collectors

RT pollution control equipment

**FABRICATION**

Limited to the concepts of shaping and manufacturing, use of a more specific term is recommended; for large scale building see CONSTRUCTION.

UF *building (manufacturing)*

NT1 casting

NT2 electroslag casting

NT2 slip casting

NT2 vacuum casting

NT1 compacting

NT1 granulation

NT1 joining

NT2 bonding

NT2 fastening

NT2 welding

NT3 arc welding

NT4 gas metal-arc welding

NT5 gas tungsten-arc welding

NT4 plasma arc welding

NT4 shielded metal-arc welding

NT4 submerged arc welding

NT3 brazing

NT3 diffusion welding

NT3 electron beam welding

NT3 electroslag welding

NT3 explosion welding

NT3 forge welding

NT3 friction welding

NT3 gas welding

NT3 induction welding

NT3 laser welding

NT3 magnetic force welding

NT3 resistance welding

NT4 flash welding

NT3 soldering

NT3 ultrasonic welding

NT3 vacuum welding

NT1 materials working

NT2 canning

NT2 cold working

NT3 shot peening

NT2 drawing

NT2 explosive forming

NT2 extrusion

NT3 coextrusion

NT2 forging

NT2 hot working

NT2 magnetic forming

NT2 pressing

NT3 cold pressing

NT3 hot pressing

NT2 rolling

NT2 swaging

NT2 thermomechanical treatments

NT1 molding

NT2 briquetting

NT2 pelletizing

NT1 sintering

RT computer-aided manufacturing

RT fuel fabrication plants

RT manufacturing

RT modular structures

RT production

**FABRY-PEROT INTERFEROMETER**

\*BT1 interferometers

**FACE**

\*BT1 head

NT1 eyes

NT2 conjunctiva

NT2 cornea

NT2 crystalline lens

NT2 lacrimal ducts

NT2 retina

NT2 uvea

NT1 nose

RT oral cavity

RT respirators

RT sinuses

**face centered cubic**

USE fcc lattices

**facilities (accelerator)**

INIS: 2000-04-12; ETDE: 1981-01-09

USE accelerator facilities

**facilities (educational)**

INIS: 2000-04-12; ETDE: 1981-01-09

USE educational facilities

**facilities (energy)**

INIS: 1994-10-13; ETDE: 1981-01-09

USE energy facilities

**facilities (maintenance)**

INIS: 2000-04-12; ETDE: 1981-06-13

USE maintenance facilities

**facilities (military)**

INIS: 2000-04-12; ETDE: 1981-01-09

USE military facilities

**facilities (nuclear)**

INIS: 2000-04-12; ETDE: 1981-01-09

USE nuclear facilities

**facilities (resource recovery)**

INIS: 1992-07-09; ETDE: 1981-01-09

USE resource recovery facilities

**facilities (sport)**

2004-09-17

USE sport facilities

**facilities (storage)**

INIS: 2000-04-12; ETDE: 1981-01-09

USE storage facilities

**facilities (terminal)**

INIS: 2000-04-12; ETDE: 1981-01-09

USE terminal facilities

**facilities (test)**

INIS: 1986-05-26; ETDE: 1981-01-09

USE test facilities

**facilities (underground)**

INIS: 1986-07-09; ETDE: 2002-06-13

USE underground facilities

**facilities (underwater)**

INIS: 2000-04-12; ETDE: 1981-01-09

USE underwater facilities

**FACOM COMPUTERS**

INIS: 1985-11-16; ETDE: 1990-10-09

BT1 computers

**FACTORIZATION**

RT mathematics

**FACULAE**

BT1 solar activity

RT photosphere

RT plagues

**FADDEEV EQUATIONS**

BT1 equations

RT lippmann-schwinger equation

RT multiple scattering

RT three-body problem

**FAEROE ISLANDS**UF *faroe islands*

BT1 islands

RT atlantic ocean

RT denmark

**FAILED ELEMENT DETECTION**UF *burst can detection*UF *burst slug detection*UF *detection (failed element)*UF *fedal*

BT1 detection

RT failed element monitors

RT fuel cans

RT fuel element failure

RT fuel elements

RT fuel motion detection

**FAILED ELEMENT MONITORS**UF *burst can monitors*UF *burst slug monitors*UF *monitors (failed elements)*

\*BT1 monitors

RT failed element detection

RT fuel cans

RT fuel element failure

RT fuel elements

RT reactor monitoring systems

**FAILURE MODE ANALYSIS**UF *event tree analysis*

\*BT1 system failure analysis

RT markov process

RT redundancy

RT reliability

**failure propagation**

2003-10-21

SEE crack propagation

SEE failures

SEE system failure analysis

**FAILURES**SF *failure propagation*

NT1 fractures

NT2 hydraulic fractures

NT2 thermal fractures

NT1 fuel element failure

NT1 ruptures

RT accidents

RT amoeba effect

RT corrosion

RT damage

RT electrical faults

RT fatigue

RT fracture properties

RT hazards  
 RT human factors  
 RT impact shock  
 RT leaks  
 RT outages  
 RT reliability  
 RT safety  
 RT systems analysis

**FALLOUT**

*For radioactive fallout only.*

UF *fallout particulates*  
 UF *fragments (fallout)*  
 NT1 fallout deposits  
 NT1 global fallout  
 NT1 local fallout  
 NT1 washout  
 RT accidents  
 RT aerial monitoring  
 RT aerosols  
 RT air  
 RT atmospheric precipitations  
 RT contamination  
 RT earth atmosphere  
 RT fission products  
 RT global aspects  
 RT nuclear explosions  
 RT nuclear weapons  
 RT particle resuspension  
 RT radiation hazards  
 RT radiation protection  
 RT radioactive aerosols  
 RT radioactive clouds  
 RT regional analysis  
 RT residence half-time  
 RT sedimentation  
 RT sunshine project  
 RT wind

**FALLOUT DEPOSITS**

BT1 fallout  
 RT environment  
 RT food chains  
 RT radionuclide migration  
 RT sedimentation  
 RT soils

***fallout particulates***

USE fallout  
 USE particles

**FALLOUT SHELTERS**

BT1 shelters  
 RT earth-covered buildings  
 RT local fallout  
 RT radiation protection  
 RT subsurface structures  
 RT underground facilities

**FANO FACTOR**

BT1 dimensionless numbers  
 RT ionization  
 RT semiconductor materials

***fano-lichten model***

USE electron-promotion model

***fans***

USE blowers

**FAO**

UF *food and agriculture organization*  
 BT1 international organizations  
 RT agriculture  
 RT agris  
 RT food  
 RT united nations

**FAR INFRARED RADIATION**

*Wavelength range 50-1000 microns.*  
 \*BT1 infrared radiation

**FAR ULTRAVIOLET RADIATION**

*Wavelength range 2000-400 Å.*  
 UF *vacuum ultraviolet radiation*  
 \*BT1 ultraviolet radiation

***faraday cages***

USE faraday cups

**FARADAY CUPS**

UF *faraday cages*  
 \*BT1 beam monitors  
 RT beam currents  
 RT electric measuring instruments

**FARADAY CURRENT**

\*BT1 electric currents

**FARADAY EFFECT**

UF *faraday rotation*  
 RT electromagnetic radiation  
 RT magneto-optical effects  
 RT polarization

***faraday generators***

USE mhd generators

**FARADAY INDUCTION**

BT1 induction

**FARADAY LAWS**

RT electrolysis

**FARADAY METHOD**

RT magnetic fields

***faraday rotation***

USE faraday effect

**FARLEY-1 REACTOR**

*Southern Nuclear Operating Co., Inc.,  
 Dothan, Alabama, USA.*  
 UF *Joseph M. Farley-1 reactor*  
 \*BT1 pwr type reactors

**FARLEY-2 REACTOR**

*Southern Nuclear Operating Co., Inc.,  
 Dothan, Alabama, USA.*  
 UF *Joseph M. Farley-2 reactor*  
 \*BT1 pwr type reactors

***farm animals***

USE domestic animals

**FARM EQUIPMENT**

*INIS: 2000-04-12; ETDE: 1977-06-21*  
 BT1 equipment  
 RT farms  
 RT harvesting equipment

**FARMS**

*INIS: 1992-09-01; ETDE: 1977-06-21*  
 RT agriculture  
 RT biomass plantations  
 RT cooperatives  
 RT farm equipment  
 RT land use

***faroe islands***

USE faeroe islands

**FASCIA**

\*BT1 connective tissue

**FASCIOLA**

\*BT1 trematodes  
 RT fascioliasis

**FASCIOLIASIS**

\*BT1 parasitic diseases  
 RT fasciola

***fast breeder blanket facility (fbbf)***

*INIS: 2000-04-12; ETDE: 1976-11-17*  
 USE subcritical assemblies

***fast breeder test reactor (kalpakkam)***

*INIS: 1993-11-08; ETDE: 2002-06-13*  
 USE kalpakkam Imfbr reactor

***fast breeder type reactors***

USE fbr type reactors

***fast burst reactor facility***

USE fbrf reactor

***fast experimental breeder reactor***

*japan*  
*1993-11-08*  
 USE joyo reactor

**FAST FISSION**

\*BT1 fission  
 \*BT1 neutron reactions  
 RT fast fission factor  
 RT fast neutrons

**FAST FISSION FACTOR**

BT1 dimensionless numbers  
 RT fast fission  
 RT fast reactors  
 RT fission  
 RT multiplication factors

***fast flux test facility***

*INIS: 1979-02-21; ETDE: 2002-06-13*  
 USE fff reactor

***fast flux test facility reactor***

*2000-04-12*  
 USE fff reactor

**FAST MAGNETOACOUSTIC WAVES**

\*BT1 magnetoacoustic waves  
 RT transit-time magnetic pumping

***fast-mixed spectrum reactor***

*INIS: 2000-04-12; ETDE: 1981-11-10*  
 USE fbr type reactors  
 USE mixed spectrum reactors

**FAST NEUTRONS**

\*BT1 neutrons  
 RT fast fission  
 RT fast reactors  
 RT nirus facility

***fast prototype reactor japan***

*ETDE: 2002-06-13*  
 USE monju reactor

***fast reactor core test facility***

USE frcf reactor

**FAST REACTORS**

*1995-12-08*  
 SF 710 reactor  
 SF fcel reactor  
 \*BT1 epithermal reactors  
 NT1 actinide burner reactors  
 NT1 afsr reactor  
 NT1 aprf reactor  
 NT1 bfs reactor  
 NT1 bigr reactor  
 NT1 bir reactor  
 NT1 cefr reactor  
 NT1 cfrmf reactor  
 NT1 clementine reactor  
 NT1 coral-1 reactor  
 NT1 ecel reactor  
 NT1 fbr type reactors  
 NT2 aipfr reactor  
 NT2 gcf type reactors  
 NT3 gcf reactor  
 NT2 kalpakkam pfbr reactor  
 NT2 Imfbr type reactors  
 NT3 beloyarsk-3 reactor  
 NT3 beloyarsk-4 reactor



**NT3** bn-1600 reactor  
**NT3** bn-350 reactor  
**NT3** bn-800 reactor  
**NT3** bor-60 reactor  
**NT3** cdf reactor  
**NT3** clinch river breeder reactor  
**NT3** dfr reactor  
**NT3** ebr-1 reactor  
**NT3** ebr-2 reactor  
**NT3** enrico fermi-1 reactor  
**NT3** joyo reactor  
**NT3** kalpakkam lmfr reactor  
**NT3** monju reactor  
**NT3** pfr reactor  
**NT3** phenix reactor  
**NT3** plbr reactor  
**NT3** rapsodie reactor  
**NT3** sbr-1 reactor  
**NT3** sbr-2 reactor  
**NT3** sbr-5 reactor  
**NT3** snr-2 reactor  
**NT3** snr reactor  
**NT3** super phenix reactor  
**NT2** pec brasimone reactor  
**NT2** zebra reactor  
**NT1** fbrf reactor  
**NT1** fca reactor  
**NT1** ftf reactor  
**NT1** fr-0 reactor  
**NT1** harmonie reactor  
**NT1** hpr reactor  
**NT1** ibr-2 reactor  
**NT1** ibr-30 reactor  
**NT1** ifr reactor  
**NT1** kalpakkam pfr reactor  
**NT1** kbr-1 reactor  
**NT1** knk-2 reactor  
**NT1** lampre-1 reactor  
**NT1** masurca reactor  
**NT1** purnima-2 reactor  
**NT1** purnima reactor  
**NT1** saref reactor  
**NT1** sefor reactor  
**NT1** sneak reactor  
**NT1** sora reactor  
**NT1** stf reactor  
**NT1** tapiro reactor  
**NT1** tibr reactor  
**NT1** vera reactor  
**NT1** viper reactor  
**NT1** wnr reactor  
**NT1** yayoi reactor  
**NT1** zephyr reactor  
**NT1** zppr reactor  
**NT1** zpr-3 reactor  
**NT1** zpr-6 reactor  
**NT1** zpr-9 reactor  
**NT1** zrr reactor  
**RT** fast fission factor  
**RT** fast neutrons

**fast source reactor aec**

USE afsr reactor

**FASTBUS SYSTEM**

INIS: 1983-09-06; ETDE: 1983-03-23

**RT** camac system  
**RT** computers  
**RT** data acquisition systems  
**RT** equipment interfaces  
**RT** nuclear instrument modules  
**RT** on-line control systems  
**RT** on-line measurement systems

**FASTENERS**

**UF** bolts  
**UF** nuts (mechanical)  
**UF** rivets  
**UF** screws  
**UF** studs

**RT** anchors  
**RT** couplings  
**RT** fastening  
**RT** joining  
**RT** restraints

**FASTENING**

**UF** anchoring  
**UF** bolting  
**UF** connecting  
**UF** riveting  
**UF** screwing  
**\*BT1** joining  
**RT** fasteners  
**RT** joints

**FASTING**

**UF** starvation  
**RT** biological stress  
**RT** diet  
**RT** metabolism

**FAT CELLS**

**\*BT1** connective tissue cells  
**RT** adipose tissue  
**RT** leptin

**FATHEAD MINNOW**

INIS: 1993-07-14; ETDE: 1984-08-20

**UF** *pimephales promelas*  
**\*BT1** fishes  
**RT** fresh water  
**RT** ichthyoplankton

**FATIGUE**

**BT1** mechanical properties  
**NT1** corrosion fatigue  
**NT1** thermal fatigue  
**RT** crack propagation  
**RT** damage  
**RT** failures  
**RT** s-n diagram

**fatigue (biological)**

USE biological fatigue

**FATS**

1996-10-22

**UF** butter fat  
**RT** adipose tissue  
**RT** food  
**RT** leptin  
**RT** lipids

**fatty acids**

USE carboxylic acids

**faucets (water)**

INIS: 2000-04-12; ETDE: 1977-06-21

USE water faucets

**FAUJASITE**

INIS: 2000-04-12; ETDE: 1979-07-18

\*BT1 zeolites

**fault liability**

INIS: 1990-12-15; ETDE: 2002-06-13

(Prior to December 1990, this was a valid descriptor.)

USE liabilities

**FAULT TOLERANT COMPUTERS**

INIS: 1988-11-16; ETDE: 1986-01-14

Systems which have the ability to produce correct results even in the presence of a fault.

**\*BT1** digital computers  
**RT** computerized control systems  
**RT** programming  
**RT** reliability

**FAULT TREE ANALYSIS**

**UF** fault tree systems  
**\*BT1** system failure analysis

**RT** control  
**RT** monte carlo method  
**RT** planning  
**RT** probabilistic estimation  
**RT** statistics

**fault tree systems**

USE fault tree analysis

**faultless event**

1994-10-14

A test made during operation crossie.

(Prior to September 1994, this was a valid ETDE descriptor.)

**USE** nuclear explosions  
**USE** underground explosions

**faults (geologic)**

INIS: 1975-11-07; ETDE: 2002-06-13

USE geologic faults

**faure cyclotron**

INIS: 1983-06-01; ETDE: 1983-07-07

USE nac cyclotron

**fbh process**

INIS: 2000-04-12; ETDE: 1976-01-26

USE fluidized bed hydrogenation process

**fbi**

INIS: 2000-04-12; ETDE: 1979-12-10

USE federal bureau of investigation

**FBR TYPE REACTORS**

**UF** fast breeder type reactors  
**UF** fast-mixed spectrum reactor

\*BT1 breeder reactors

\*BT1 fast reactors

**NT1** aipfr reactor

**NT1** gcfr type reactors

**NT2** gcfr reactor

**NT1** kalpakkam pfr reactor

**NT1** lmfr type reactors

**NT2** beloyarsk-3 reactor

**NT2** beloyarsk-4 reactor

**NT2** bn-1600 reactor

**NT2** bn-350 reactor

**NT2** bn-800 reactor

**NT2** bor-60 reactor

**NT2** cdf reactor

**NT2** clinch river breeder reactor

**NT2** dfr reactor

**NT2** ebr-1 reactor

**NT2** ebr-2 reactor

**NT2** enrico fermi-1 reactor

**NT2** joyo reactor

**NT2** kalpakkam lmfr reactor

**NT2** monju reactor

**NT2** pfr reactor

**NT2** phenix reactor

**NT2** plbr reactor

**NT2** rapsodie reactor

**NT2** sbr-1 reactor

**NT2** sbr-2 reactor

**NT2** sbr-5 reactor

**NT2** snr-2 reactor

**NT2** snr reactor

**NT2** super phenix reactor

**NT1** pec brasimone reactor

**NT1** zebra reactor

**RT** civex process

**RT** heterogeneous reactor cores

**RT** power reactors

**FBRF REACTOR**

Fast Burst Reactor Facility, White Sands Missile Range, New Mexico, USA.

**UF** fast burst reactor facility

\*BT1 fast reactors

\*BT1 pulsed reactors

\*BT1 research reactors

**fbtr reactor (kalpakkam)**

INIS: 1986-06-10; ETDE: 2002-06-13  
USE kalpakkam lmfbtr reactor

**FCA REACTOR**

JAERI, Tokai, Ibaraki, Japan.  
UF tokai-mura fast critical assembly  
\*BT1 fast reactors  
\*BT1 zero power reactors

**FCC LATTICES**

UF face centered cubic  
\*BT1 cubic lattices

**fccl reactor**

2000-04-12  
SEE fast reactors  
SEE zero power reactors

**fdr reactor**

2000-04-12  
USE otto hahn reactor

**FEASIBILITY STUDIES**

UF mission analysis  
RT bench-scale experiments  
RT commercialization  
RT comparative evaluations  
RT design  
RT economics  
RT efficiency  
RT evaluation  
RT field tests  
RT implementation  
RT performance  
RT planning  
RT productivity  
RT technology assessment  
RT technology utilization  
RT testing

**FEATHERS**

RT birds  
RT skin

**FECES**

\*BT1 biological wastes  
RT body fluids  
RT excretion  
RT large intestine  
RT proteus  
RT rectum

**fedal**

USE failed element detection

**federal assistance programs**

INIS: 2000-04-12; ETDE: 1977-10-20  
(Prior to February 1992 this was a valid ETDE descriptor.)  
USE us federal assistance programs

**federal aviation administration**

INIS: 2000-04-12; ETDE: 1978-09-13  
USE us faa

**federal buildings**

INIS: 1994-10-03; ETDE: 1979-02-23  
(Until September 1994 this was a valid descriptor.)  
USE government buildings

**FEDERAL BUREAU OF INVESTIGATION**

INIS: 2000-04-12; ETDE: 1979-12-10  
UF fbi  
\*BT1 us doj

**federal driving cycle**

INIS: 2000-04-12; ETDE: 1975-11-12  
USE federal test procedure

**federal emergency management agency**

INIS: 2000-04-12; ETDE: 1984-02-10  
USE us fema

**federal energy administration**

1977-07-05  
USE us fea

**federal energy regulatory commission**

INIS: 2000-04-12; ETDE: 1978-02-14  
USE us ferc

**federal expenditures**

INIS: 2000-04-12; ETDE: 1980-08-25  
(Prior to February 1997 this was a valid ETDE descriptor.)  
USE expenditures  
USE national government

**federal government**

INIS: 1980-11-07; ETDE: 1980-03-04  
USE national government

**federal power commission**

INIS: 2000-04-12; ETDE: 1976-10-13  
(Prior to February 1992 this was a valid ETDE descriptor.)  
USE us federal power commission

**FEDERAL RADIATION COUNCIL**

UF frc  
\*BT1 us organizations  
RT radiation protection  
RT radiation protection laws  
RT safety standards

**federal region i**

INIS: 2000-04-12; ETDE: 1982-06-07  
(Prior to June 1982 this concept in ETDE was indexed by NORTH ATLANTIC REGION. From June 1982 to February 1992 this was a valid descriptor.)  
USE usa

**federal region ii**

INIS: 2000-04-12; ETDE: 1982-06-07  
(Prior to June 1982, this concept in ETDE was indexed by MID-ATLANTIC REGION. From June 1982 to April 1992 this was a valid ETDE descriptor.)  
USE usa

**federal region iii**

INIS: 2000-04-12; ETDE: 1982-06-07  
(Prior to June 1982 this concept in ETDE was indexed by CENTRAL REGION. From June 1982 to April 1992 this was a valid descriptor.)  
USE usa

**federal region iv**

INIS: 2000-04-12; ETDE: 1982-06-07  
(Prior to June 1982 this concept in ETDE was indexed by SOUTHEAST REGION. From June 1982 to April 1992 this was a valid descriptor.)  
USE usa

**federal region ix**

INIS: 2000-04-12; ETDE: 1982-06-07  
(Prior to June 1982 this concept in ETDE was indexed by WESTERN REGION. From June 1982 to April 1993 this was a valid descriptor.)  
USE usa

**federal region v**

INIS: 2000-04-12; ETDE: 1982-06-07  
(Prior to June 1982 this concept in ETDE was indexed by GREAT LAKES REGION. From

June 1982 to April 1992 this was a valid descriptor.)  
USE usa

**federal region vi**

INIS: 2000-04-12; ETDE: 1982-06-07  
(Prior to June 1982 this concept in ETDE was indexed by SOUTHWEST REGION. From June 1982 to April 1993 this was a valid descriptor.)  
USE usa

**federal region vii**

INIS: 2000-04-12; ETDE: 1982-06-07  
(Prior to June 1982 this concept in ETDE was indexed by MIDWEST REGION. From June 1982 to April 1993 this was a valid descriptor.)  
USE usa

**federal region viii**

INIS: 2000-04-12; ETDE: 1982-06-07  
(Prior to June 1982 this concept in ETDE was indexed by ROCKY MOUNTAIN REGION. From June 1982 to April 1993 this was a valid descriptor.)  
USE usa

**federal region x**

INIS: 2000-04-12; ETDE: 1982-06-07  
(Prior to June 1982 this concept in ETDE was indexed by PACIFIC NORTHWEST REGION. From June 1982 to April 1993 this was a valid descriptor.)  
USE usa

**FEDERAL REPUBLIC OF GERMANY**

INIS: 1997-06-19; ETDE: 1979-10-23  
UF german democratic republic  
UF german federal republic  
UF germany  
UF germany (democratic republic)  
UF germany (federal republic)  
UF west germany  
BT1 developed countries  
\*BT1 western europe  
RT alps  
RT asse salt mine  
RT danube river  
RT erzgebirge deposit  
RT german fr organizations  
RT oecd  
RT rhine river  
RT urach geothermal field

**FEDERAL TEST PROCEDURE**

INIS: 2000-04-12; ETDE: 1975-11-11  
Test procedures for exhaust emissions and fuel economy.  
UF federal driving cycle  
RT engines  
RT exhaust gases  
RT performance testing  
RT pollution regulations

**federal water pollution control act**

INIS: 1977-03-01; ETDE: 1976-06-07  
(Prior to April 1980, this was a valid ETDE descriptor.)  
USE clean water acts

**federation of malaya**

USE malaysia

**FEED MATERIALS PLANTS**

1996-07-23

*Plants for the production of refined uranium or plutonium metal or their pure compounds in a form suitable for use in nuclear reactor fuel elements or as feed for uranium enrichment processes.*

UF anaconda uranium mill  
 UF highland uranium mill  
 UF shirley basin uranium mill  
 UF uranium mills

BT1 industrial plants  
 BT1 nuclear facilities  
 NT1 feed materials production center  
 NT1 west valley uf6 facility  
 RT fuel cycle centers  
 RT uranium  
 RT uranium concentrates

**FEED MATERIALS PRODUCTION CENTER**

Fernald, Ohio.

UF fernald production plant  
 \*BT1 feed materials plants  
 \*BT1 us aec  
 \*BT1 us doe  
 \*BT1 us erda  
 RT ohio

**FEEDBACK**

RT closed-loop control  
 RT control  
 RT control theory  
 RT nyquist diagrams  
 RT servomechanisms

**FEEDING**

NT1 grazing  
 RT diet  
 RT food  
 RT nutrients

**FEEDWATER**

\*BT1 water  
 RT auxiliary water systems  
 RT boilers  
 RT deaerators  
 RT demineralization  
 RT feedwater heaters  
 RT reactor cooling systems  
 RT steam generators  
 RT water chemistry

**FEEDWATER HEATERS**

BT1 heaters  
 RT feedwater  
 RT reactor cooling systems

**fees**

USE charges

**FEET**

\*BT1 legs

**feinberg-pais theory**

1996-07-18

(Until July 1996 this was a valid descriptor.)

SEE leptons  
 SEE weak interactions

**FELDSPARS**

*A group of abundant rock-forming minerals. (From November 1976 till February 1997 ALBITE was a valid ETDE descriptor; from June 1977 till March 1996 MICROCLINE was a valid ETDE descriptor.)*

UF albite  
 UF microcline  
 \*BT1 silicate minerals  
 NT1 anorthite  
 NT1 orthoclase

RT anorthosites  
 RT aplites  
 RT basalt  
 RT gabbros  
 RT granites  
 RT granodiorites  
 RT pegmatites  
 RT quartz monzonite  
 RT rhyolites  
 RT shales  
 RT syenites

**FELIX FACILITY**

INIS: 1992-01-07; ETDE: 1983-06-20

*Experimental test facility at Argonne National Laboratory. USA, for the study of electromagnetic effects in fusion reactor materials.*

UF fusion electromagnetic induction experiment  
 BT1 test facilities  
 RT thermonuclear reactors

**FEMALE GENITALS**

UF genitals (female)  
 UF vagina  
 \*BT1 organs  
 NT1 ovaries  
 NT1 uterus  
 RT estrous cycle  
 RT fertility  
 RT gonads  
 RT gynecology  
 RT menstrual cycle  
 RT menstruation disorders  
 RT pelvis  
 RT reproduction  
 RT sex  
 RT urogenital system diseases

**FEMALES**

NT1 women  
 RT animals  
 RT sex  
 RT sex dependence

**FEMUR**

\*BT1 skeleton  
 RT legs

**FENCES**

2006-06-27

BT1 physical protection devices  
 RT biointrusion  
 RT human intrusion

**FERC GAS AREAS**

INIS: 2000-04-12; ETDE: 1979-12-10

UF fpc gas areas  
 RT natural gas distribution systems  
 RT natural gas industry  
 RT us ferc

**FERGHANITE**

2000-04-12

\*BT1 oxide minerals  
 \*BT1 uranium minerals  
 RT uranium oxides  
 RT vanadium oxides

**FERMAT PRINCIPLE**

RT wave propagation

**FERMENTATION**

1997-06-19

(From October 1978 to February 1997 CELL RECYCLE was a valid ETDE descriptor.)

UF biotermohol process  
 SF cell recycle  
 SF microbial processes  
 BT1 bioconversion  
 NT1 vacuum fermentation

RT anaerobic digestion  
 RT batch culture  
 RT biochemistry  
 RT biological pathways  
 RT chemical reactions  
 RT clostridium thermocellum  
 RT continuous culture  
 RT distillers dried grains  
 RT mesophilic conditions  
 RT saccharification  
 RT semibatch culture  
 RT stillage  
 RT thermophilic conditions

**fermentation alcohol**

USE ethanol

**fermi age**

USE fermi age theory  
 USE neutron age

**FERMI AGE THEORY**

UF fermi age  
 BT1 neutron slowing-down theory  
 RT neutron age  
 RT slowing-down

**fermi beta theory**

USE fermi interactions

**fermi constants**

USE fermi interactions

**fermi diagram**

USE fermi plot

**fermi-dirac gas**

USE fermi gas

**fermi-dirac statistics**

INIS: 1975-09-16; ETDE: 1976-05-19

USE fermi statistics

**fermi fluid**

USE fermi gas

**FERMI GAS**

UF fermi-dirac gas  
 UF fermi fluid  
 UF fermi liquid  
 RT bose-einstein gas  
 RT electron gas  
 RT fermi statistics  
 RT gases

**FERMI GAS MODEL**

\*BT1 nuclear models

**FERMI INTERACTIONS**

UF fermi beta theory  
 UF fermi constants  
 UF fermi pseudopotential  
 UF fermi-weizsaecker formula  
 UF four-fermion interaction  
 \*BT1 weak interactions  
 RT primakoff theory  
 RT v-a theory

**fermi-kurie plot**

USE fermi plot

**FERMI LEVEL**

UF fermi surface  
 BT1 energy levels  
 RT band theory  
 RT cooper pairs

**fermi liquid**

USE fermi gas

**FERMI PLOT**

UF fermi diagram  
 UF fermi-kurie plot

*UF* kurie plot

\*BT1 diagrams

*RT* beta decay

### **fermi pseudopotential**

USE fermi interactions

### **FERMI RESONANCE**

BT1 resonance

### **FERMI-SEGRE FORMULA**

*RT* magnetic moments

### **FERMI STATISTICS**

*INIS*: 1975-09-16; *ETDE*: 1975-10-28

*UF* fermi-dirac statistics

*RT* bose-einstein statistics

*RT* fermi gas

*RT* fermions

*RT* parastatistics

*RT* statistical mechanics

### **fermi surface**

USE fermi level

### **fermi-thomas model**

USE thomas-fermi model

### **fermi-weizsaecker formula**

USE fermi interactions

### **FERMILAB**

1995-01-27

\*BT1 us doe

*RT* illinois

### **FERMILAB ACCELERATOR**

*INIS*: 1977-10-17; *ETDE*: 1975-11-11

Facility at Fermi National Accelerator Laboratory, Batavia, Illinois, includes main synchrotron, booster synchrotron, and linac.

*UF* nal synchrotron

*UF* national accelerator laboratory

\*BT1 synchrotrons

*RT* fermilab tevatron

*RT* popae storage ring

### **FERMILAB COLLIDER DETECTOR**

1992-01-14

Detector to study proton-antiproton collisions at 2 TeV center-of-mass energy.

*UF* cdf

*UF* collider detector at fermilab

\*BT1 radiation detectors

*RT* drift chambers

*RT* projection spark chambers

*RT* shower counters

### **FERMILAB TEVATRON**

*INIS*: 1984-02-22; *ETDE*: 1984-03-06

TeV range proton synchrotron at Fermi National Accelerator Laboratory.

*UF* tevatron

*UF* tevatron (fermilab)

\*BT1 synchrotrons

*RT* fermilab accelerator

### **fermion-boson symmetry**

1984-12-04

USE boson-fermion symmetry

### **FERMIONS**

NT1 baryons

NT2 antibaryons

NT3 antihyperons

NT4 antilambda particles

NT4 antiomega particles

NT4 antisigma particles

NT4 antixi particles

NT3 antinucleons

NT4 antineutrons

NT4 antiprotons

NT2 beauty baryons

NT3 lambda b neutral baryons

NT2 charmed baryons

NT3 lambda c-2625 baryons

NT3 lambda c plus baryons

NT3 omega c neutral baryons

NT3 sigma c-2455 baryons

NT3 xi c neutral baryons

NT3 xi c plus baryons

NT2 dibaryons

NT3 dineutrons

NT3 diprotons

NT3 lambda-n-2130 dibaryons

NT3 nn-2170 dibaryons

NT3 nn-2250 dibaryons

NT2 hyperons

NT3 antihyperons

NT4 antilambda particles

NT4 antiomega particles

NT4 antisigma particles

NT4 antixi particles

NT3 lambda baryons

NT4 lambda-1405 baryons

NT4 lambda-1520 baryons

NT4 lambda-1600 baryons

NT4 lambda-1670 baryons

NT4 lambda-1690 baryons

NT4 lambda-1800 baryons

NT4 lambda-1810 baryons

NT4 lambda-1820 baryons

NT4 lambda-1830 baryons

NT4 lambda-1890 baryons

NT4 lambda-2100 baryons

NT4 lambda-2110 baryons

NT4 lambda particles

NT5 antilambda particles

NT3 lambda-n-2130 dibaryons

NT3 omega baryons

NT4 omega-2250 baryons

NT4 omega particles

NT5 antiomega particles

NT5 omega minus particles

NT3 sigma baryons

NT4 sigma-1385 baryons

NT4 sigma-1660 baryons

NT4 sigma-1670 baryons

NT4 sigma-1750 baryons

NT4 sigma-1770 baryons

NT4 sigma-1775 baryons

NT4 sigma-1915 baryons

NT4 sigma-1940 baryons

NT4 sigma-2030 baryons

NT4 sigma-2455 baryons

NT4 sigma particles

NT5 antisigma particles

NT5 sigma minus particles

NT5 sigma neutral particles

NT5 sigma plus particles

NT3 xi baryons

NT4 xi-1530 baryons

NT4 xi-1690 baryons

NT4 xi-1820 baryons

NT4 xi-1950 baryons

NT4 xi-2030 baryons

NT4 xi-2250 baryons

NT4 xi-2500 baryons

NT4 xi particles

NT5 antixi particles

NT5 xi minus particles

NT5 xi neutral particles

NT3 z\*baryons

NT2 n\*baryons

NT3 delta baryons

NT4 delta-1232 baryons

NT4 delta-1600 baryons

NT4 delta-1620 baryons

NT4 delta-1700 baryons

NT4 delta-1900 baryons

NT4 delta-1905 baryons

NT4 delta-1910 baryons

NT4 delta-1920 baryons

NT4 delta-1930 baryons

NT4 delta-1950 baryons

NT4 delta-2000 baryons

NT4 delta-2150 baryons

NT4 delta-2200 baryons

NT4 delta-2400 baryons

NT4 delta-2420 baryons

NT4 delta-3000 baryons

NT3 n baryons

NT4 n-1440 baryons

NT4 n-1520 baryons

NT4 n-1535 baryons

NT4 n-1650 baryons

NT4 n-1675 baryons

NT4 n-1680 baryons

NT4 n-1700 baryons

NT4 n-1710 baryons

NT4 n-1720 baryons

NT4 n-1960 baryons

NT4 n-1990 baryons

NT4 n-2000 baryons

NT4 n-2080 baryons

NT4 n-2100 baryons

NT4 n-2190 baryons

NT4 n-2250 baryons

NT4 n-3000 baryons

NT2 nucleons

NT3 antinucleons

NT4 antineutrons

NT4 antiprotons

NT3 neutrons

NT4 antineutrons

NT4 beta-delayed neutrons

NT4 cold neutrons

NT5 ultracold neutrons

NT4 cosmic neutrons

NT4 epithermal neutrons

NT4 fast neutrons

NT4 fission neutrons

NT5 delayed neutrons

NT5 prompt neutrons

NT4 intermediate neutrons

NT4 photoneutrons

NT4 pile neutrons

NT4 polynucleons

NT5 dineutrons

NT5 tetraneutrons

NT5 trineutrons

NT4 resonance neutrons

NT4 slow neutrons

NT4 solar neutrons

NT4 thermal neutrons

NT3 photonucleons

NT4 photoneutrons

NT4 photoprotons

NT3 protons

NT4 antiprotons

NT4 cosmic protons

NT4 delayed protons

NT4 diprotons

NT4 photoprotons

NT4 prompt protons

NT4 solar protons

NT4 trapped protons

NT1 leptons

NT2 antileptons

NT3 antineutrinos

NT4 electron antineutrinos

NT4 muon antineutrinos

NT3 muons plus

NT3 positrons

NT4 cosmic positrons

NT2 electrons

NT3 cosmic electrons

NT3 exoelectrons

NT3 prompt electrons

NT3 runaway electrons

NT3 solar electrons

**NT3** solvated electrons  
**NT3** tail electrons  
**NT3** trapped electrons  
**NT2** heavy leptons  
**NT3** heavy neutral muons  
**NT3** tau neutrinos  
**NT3** tau particles  
**NT2** muons  
**NT3** cosmic muons  
**NT3** muons minus  
**NT3** muons plus  
**NT2** neutrinos  
**NT3** antineutrinos  
**NT4** electron antineutrinos  
**NT4** muon antineutrinos  
**NT3** cosmic neutrinos  
**NT3** electron neutrinos  
**NT4** electron antineutrinos  
**NT3** muon neutrinos  
**NT4** muon antineutrinos  
**NT3** solar neutrinos  
**NT3** tau neutrinos  
**NT1** quarks  
**NT2** b quarks  
**NT2** c quarks  
**NT2** d quarks  
**NT2** s quarks  
**NT2** t quarks  
**NT2** u quarks  
*RT* boson-fermion symmetry  
*RT* fermi statistics

**FERMIUM**

\*BT1 actinides  
 \*BT1 transplutonium elements

**FERMIUM 242**

*INIS: 1976-03-25; ETDE: 1975-11-26*

\*BT1 actinide nuclei  
 \*BT1 even-even nuclei  
 \*BT1 fermium isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 243**

*INIS: 1986-06-09; ETDE: 1982-03-11*

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 fermium isotopes  
 \*BT1 milliseconds living radioisotopes

**FERMIUM 244**

\*BT1 actinide nuclei  
 \*BT1 even-even nuclei  
 \*BT1 fermium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 245**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 fermium isotopes  
 \*BT1 seconds living radioisotopes

**FERMIUM 246**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 fermium isotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 247**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 fermium isotopes  
 \*BT1 seconds living radioisotopes

**FERMIUM 248**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 fermium isotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 249**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 fermium isotopes  
 \*BT1 minutes living radioisotopes

**FERMIUM 250**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 fermium isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 251**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 fermium isotopes  
 \*BT1 hours living radioisotopes

**FERMIUM 252**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 fermium isotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 253**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 fermium isotopes

**FERMIUM 253 TARGET**

*1980-05-14*

BT1 targets

**FERMIUM 254**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 fermium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 254 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**FERMIUM 255**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 fermium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 255 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**FERMIUM 256**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei

\*BT1 fermium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 256 TARGET**

*1980-05-14*

BT1 targets

**FERMIUM 257**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 fermium isotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 257 TARGET**

*INIS: 1976-03-02; ETDE: 1976-07-12*

BT1 targets

**FERMIUM 258**

\*BT1 actinide nuclei  
 \*BT1 even-even nuclei  
 \*BT1 fermium isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 258 TARGET**

*1980-05-14*

BT1 targets

**FERMIUM 259**

\*BT1 actinide nuclei  
 \*BT1 even-odd nuclei  
 \*BT1 fermium isotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**FERMIUM 259 TARGET**

*1980-05-14*

BT1 targets

**FERMIUM 260 TARGET**

*1980-05-14*

BT1 targets

**FERMIUM BROMIDES**

*INIS: 2000-04-12; ETDE: 1987-10-02*

\*BT1 bromides  
 \*BT1 fermium compounds

***fermium chlorides***

*1996-07-18*

(Until July 1996 this was a valid descriptor.)

USE chlorides  
 USE fermium compounds

**FERMIUM COMPLEXES**

\*BT1 actinide complexes  
 \*BT1 transuranium complexes

**FERMIUM COMPOUNDS**

*1996-11-13*

*UF fermium chlorides*  
*UF fermium iodides*  
*UF fermium oxides*  
 BT1 actinide compounds  
 \*BT1 transplutonium compounds  
**NT1** fermium bromides

***fermium iodides***

*INIS: 1997-01-28; ETDE: 1987-10-02*

(Until October 1996 this was a valid descriptor.)

USE fermium compounds  
 USE iodides

**FERMIUM IONS**

\*BT1 ions

**FERMIUM ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 fermium 242  
 NT1 fermium 243  
 NT1 fermium 244  
 NT1 fermium 245  
 NT1 fermium 246  
 NT1 fermium 247  
 NT1 fermium 248  
 NT1 fermium 249  
 NT1 fermium 250  
 NT1 fermium 251  
 NT1 fermium 252  
 NT1 fermium 253  
 NT1 fermium 254  
 NT1 fermium 255  
 NT1 fermium 256  
 NT1 fermium 257  
 NT1 fermium 258  
 NT1 fermium 259

**fermium oxides**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE fermium compounds  
 USE oxides

**ferriald production plant**

INIS: 2000-04-12; ETDE: 1991-03-11

USE feed materials production center

**FERNS**

UF azolla  
 BT1 plants

**ferranti computers**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE computers

**FERRATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

\*BT1 iron compounds  
 BT1 oxygen compounds  
 RT iron oxides

**FERREDOXIN**

INIS: 1993-08-26; ETDE: 1978-07-06

\*BT1 metalloproteins  
 RT rubredoxin

**ferric compounds**

USE iron compounds

**FERRICYANIDES**

UF cyanoferrates  
 \*BT1 iron complexes

**FERRIMAGNETIC MATERIALS**

UF materials (ferrimagnetic)  
 \*BT1 magnetic materials  
 NT1 ferrites  
 RT ferrimagnetic resonance  
 RT ferrimagnetism  
 RT ferrite garnets  
 RT perovskites

**FERRIMAGNETIC RESONANCE**

INIS: 1977-09-06; ETDE: 1977-10-19

\*BT1 magnetic resonance  
 RT ferrimagnetic materials  
 RT ferrimagnetism

**FERRIMAGNETISM**

BT1 magnetism  
 RT antiferromagnetism  
 RT ferrimagnetic materials  
 RT ferrimagnetic resonance

RT ferromagnetism

**FERRITE***A solid solution of carbon in alpha-iron.*

\*BT1 carbon additions  
 \*BT1 iron alloys  
 RT ferritic steels  
 RT iron-alpha  
 RT magnetite  
 RT martensite  
 RT pearlite  
 RT solid solutions  
 RT steel-cr2moninb  
 RT steels

**FERRITE GARNETS**

*Minerals with the general formula Y3M5O12, where Y is yttrium or other rare earth, and M is usually iron, but may be another metal. For silicate garnets use GARNETS.*

UF iron garnets  
 UF yttrium aluminum garnets  
 \*BT1 oxide minerals  
 RT ferrimagnetic materials  
 RT garnets

**FERRITES**

*Specific compounds should be indexed by coordination of a descriptor of the form (cation) compounds and the above anion descriptor.*

\*BT1 ferrimagnetic materials  
 \*BT1 iron compounds  
 BT1 oxygen compounds  
 RT iron oxides

**FERRITIC STEELS**

INIS: 1979-05-28; ETDE: 1979-09-06

\*BT1 steels  
 NT1 steel-cr12moniv  
 NT1 steel-cr13al  
 NT2 stainless steel-405  
 NT1 steel-cr16  
 NT2 stainless steel-430  
 NT1 steel-cr25  
 NT2 stainless steel-446  
 NT1 steel-cr9mo  
 NT1 steel-cr9monbv  
 RT corrosion resistant alloys  
 RT ferrite

**FERRITIN**

\*BT1 iron complexes  
 \*BT1 metalloproteins  
 RT hemosiderin  
 RT iron

**ferroan**

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

SEE carbonates

**ferrobacillus ferrooxidans**

INIS: 2000-04-12; ETDE: 1977-09-19

(Prior to September 1994, this was a valid ETDE descriptor.)

USE bacillus

**FERROCENE**

\*BT1 dienes  
 \*BT1 iron complexes

**FERROCYNANIDES**

UF prussian blue  
 \*BT1 iron complexes

**FERROELECTRIC CONVERTERS**

INIS: 2000-04-12; ETDE: 1977-03-04

BT1 direct energy converters  
 RT ferroelectric materials

**FERROELECTRIC MATERIALS**

UF materials (ferroelectric)  
 \*BT1 dielectric materials  
 RT antiferroelectric materials  
 RT ferroelectric converters

**ferrofluids**

INIS: 2000-04-12; ETDE: 1985-03-12

(Prior to March 1997 MAGNETIC LIQUIDS was used for this concept in ETDE.)

USE liquids  
 USE magnetic materials

**FERROIN**

\*BT1 phenanthrolines  
 BT1 reagents  
 RT iron complexes  
 RT phenanthroline-ortho

**FERROMAGNETIC MATERIALS**

UF materials (ferromagnetic)  
 \*BT1 magnetic materials  
 RT antiferromagnetic materials  
 RT ferromagnetic resonance  
 RT magnetic semiconductors  
 RT spin glass state

**FERROMAGNETIC RESONANCE**

INIS: 1976-05-07; ETDE: 1976-08-04

\*BT1 magnetic resonance  
 RT ferromagnetic materials  
 RT ferromagnetism

**FERROMAGNETISM**

UF nuclear ferromagnetism  
 BT1 magnetism  
 NT1 mictomagnetism  
 RT antiferromagnetism  
 RT curie point  
 RT ferrimagnetism  
 RT ferromagnetic resonance  
 RT heisenberg model  
 RT hubbard model

**FERRON**

\*BT1 hydroxy compounds  
 \*BT1 organic iodine compounds  
 \*BT1 quinolines  
 BT1 reagents  
 \*BT1 sulfonic acids

**ferrous compounds**

USE iron compounds

**ferrox process**

2000-04-12

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**FERSMITE**

2000-04-12

\*BT1 radioactive minerals

**FERTILE MATERIALS**

*Materials containing nuclides capable of being transformed into fissile nuclides by neutron capture.*

BT1 materials  
 RT breeding blankets  
 RT nuclear fuel conversion  
 RT nuclear fuels

**FERTILITY**

RT female genitals  
 RT fertilization  
 RT gonads  
 RT male genitals  
 RT menopause  
 RT menstrual cycle  
 RT progeny  
 RT reproduction

RT reproductive disorders  
RT sterility

**FERTILIZATION**

INIS: 1986-12-18; ETDE: 1977-10-20

RT fertility  
RT gametes  
RT ova  
RT ovulation  
RT reproduction  
RT zygotes

**FERTILIZER INDUSTRY**

INIS: 1993-01-28; ETDE: 1977-08-09

BT1 industry  
RT agriculture

**FERTILIZERS**

NT1 superphosphates  
RT agriculture  
RT eutrophication  
RT nitrogen cycle  
RT nutrients  
RT plants  
RT soil chemistry  
RT soil conservation

**feshbach-porter-weisskopf model**

USE optical models

**FESHBACH-WEISSKOPF MODEL**

RT nuclear reactions

**FESSENHEIM-1 REACTOR**

Fessenheim, Haut-Rhine, France.

\*BT1 pwr type reactors

**FESSENHEIM-2 REACTOR**

Fessenheim, Haut-Rhine, France.

\*BT1 power reactors

**FETAL MEMBRANES**

UF amnion  
UF chorioallantoic membrane  
BT1 membranes  
NT1 placenta  
RT embryos  
RT fetuses

**FETUSES**

RT age groups  
RT amniotic fluid  
RT congenital malformations  
RT embryos  
RT fetal membranes  
RT ontogenesis  
RT pregnancy  
RT prenatal exposure  
RT prenatal irradiation  
RT teratogens  
RT uterus

**FEULGEN METHOD**

RT cytochemistry  
RT dna

**FEVER**

BT1 symptoms  
RT antipyretics  
RT body temperature  
RT heat stress  
RT hyperthermia  
RT pyrogens

**FEYNMAN DIAGRAM**

\*BT1 diagrams  
RT quantum field theory

**FEYNMAN GAS MODEL**

\*BT1 particle models  
\*BT1 statistical models

**FEYNMAN-GELL-MANN THEORY**

RT beta decay

RT neutrinos

**FEYNMAN METHOD**

UF welton method  
BT1 calculation methods  
RT neutron transport theory  
RT transport theory

**FEYNMAN PATH INTEGRAL**

\*BT1 path integrals  
RT propagator  
RT quantum mechanics  
RT wilson loop

**FFTF REACTOR**

Westinghouse Hanford Company, Richland, Washington, USA. Shut down in 1992.

UF fast flux test facility  
UF fast flux test facility reactor  
UF ftr reactor (richland)  
UF richland fftf reactor

\*BT1 fast reactors  
\*BT1 research reactors  
\*BT1 sodium cooled reactors  
\*BT1 test reactors  
RT hanford engineering development laboratory

**FIAN SYNCHROTRON**

UF lebedev synchrotron

\*BT1 synchrotrons

**FIBER OPTICS**

INIS: 1979-04-27; ETDE: 1978-09-11

The technique of transmitting light through long, thin, flexible fibers of glass, plastic or other transparent materials.

BT1 optics  
RT light transmission  
RT optical equipment  
RT optical fibers  
RT optical properties  
RT optical systems

**FIBERGLASS**

INIS: 1978-08-30; ETDE: 1978-04-06

\*BT1 composite materials  
RT fibers  
RT glass  
RT glazing materials  
RT organic polymers

**FIBERS**

1996-08-05

NT1 carbon fibers  
NT1 optical fibers  
RT aramids  
RT cotton  
RT dacron  
RT fiberglass  
RT jute  
RT mineral wool  
RT rayon  
RT synthetic materials  
RT textiles  
RT wool

**fibration (topological maps)**

USE mapping fibration

**FIBRIN**

\*BT1 blood coagulation factors  
\*BT1 scleroproteins

**FIBRINOGEN**

\*BT1 blood coagulation factors  
\*BT1 globulins

**FIBRINOLYSIN**

ETDE: 1981-06-13

Code number 3.4.21.7.

UF plasmin  
\*BT1 fibrinolytic agents

\*BT1 serine proteinases  
RT anticoagulants  
RT blood coagulation  
RT blood coagulation factors  
RT fibrinolysis  
RT thrombosis

**FIBRINOLYSIS**

\*BT1 proteolysis  
RT fibrinolysin  
RT streptococcal proteinase  
RT urokinase

**FIBRINOLYTIC AGENTS**

INIS: 1996-11-13; ETDE: 1981-04-20

UF streptidine kinase  
\*BT1 hematologic agents  
NT1 fibrinolysin  
NT1 plasminogen  
NT1 urokinase  
RT anticoagulants  
RT blood substitutes  
RT coagulants  
RT hematinics

**FIBROBLASTS**

\*BT1 connective tissue cells  
RT collagen  
RT fibrosis  
RT l cells

**FIBROSARCOMAS**

\*BT1 sarcomas

**FIBROSIS**

BT1 pathological changes  
RT connective tissue  
RT fibroblasts

**FICK LAWS**

RT diffusion  
RT neutron diffusion equation  
RT neutron transport theory

**FIELD ALGEBRA**

RT current algebra  
RT parastatistics  
RT quantum field theory

**FIELD EFFECT TRANSISTORS**

UF unipolar transistors  
\*BT1 transistors  
NT1 mosfet

**FIELD EMISSION**

BT1 emission  
RT electron emission  
RT ion emission  
RT ion microscopy

**field emission microscopy**

USE ion microscopy

**FIELD EQUATIONS**

BT1 equations  
NT1 dirac equation  
NT1 einstein field equations  
NT1 einstein-maxwell equations  
NT1 klein-gordon equation  
NT1 sine-gordon equation  
RT field theories  
RT instantons  
RT maxwell equations  
RT merons  
RT solitons

**field ion microscopy**

USE ion microscopy

**field offices**

INIS: 2000-04-12; ETDE: 1983-03-24

USE us doe field offices

**FIELD OPERATORS**

- \*BT1 quantum operators
- RT quantum field theory
- RT vacuum states

**FIELD PRODUCTION EQUIPMENT**

INIS: 1994-09-08; ETDE: 1984-03-19

- BT1 equipment
- NT1 well injection equipment
- NT1 well recovery equipment
- NT1 wellheads
- RT natural gas fields
- RT natural gas wells
- RT oil fields
- RT oil wells

**field-reversed configurations**

INIS: 1986-08-19; ETDE: 2002-06-13

- USE field-reversed theta pinch devices

**field-reversed mirror reactors**

INIS: 1995-01-16; ETDE: 1978-04-06

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE magnetic mirror type reactors
- USE reversed-field mirrors

**field-reversed mirrors**

INIS: 1982-11-30; ETDE: 2002-06-13

- USE reversed-field mirrors

**FIELD-REVERSED THETA PINCH DEVICES**

INIS: 1986-08-19; ETDE: 1986-09-05

A type of compact torus with poloidal magnetic field only.

- UF field-reversed configurations
- \*BT1 compact torus
- \*BT1 pinch devices

**FIELD TESTS**

INIS: 1981-05-11; ETDE: 1979-02-05

- BT1 testing
- RT bench-scale experiments
- RT demonstration plants
- RT feasibility studies
- RT process development units

**FIELD THEORIES**

- NT1 general relativity theory
- NT1 quantum field theory
- NT2 axiomatic field theory
- NT3 algebraic field theory
- NT3 Isz theory
- NT3 wightman field theory
- NT2 constructive field theory
- NT3 lattice field theory
- NT2 lagrangian field theory
- NT2 phi<sup>4</sup>-field theory
- NT2 quantum chromodynamics
- NT2 quantum electrodynamics
- NT3 schwinger-tomonaga formalism
- NT2 quantum flavordynamics
- NT2 quantum gravity
- NT2 unified gauge models
- NT3 grand unified theory
- NT4 standard model
- NT3 weinberg-salam gauge model
- NT2 yukawa nonlocal theory
- NT1 unified-field theories
- NT2 einstein-schroedinger theory
- NT2 kaluza-klein theory
- NT2 supergravity
- NT2 weinberg-salam gauge model
- NT2 weyl unified theory

- RT action integral
- RT electrodynamics
- RT field equations
- RT instantons

**fields (crossed)**

- USE crossed fields

**fields (electric)**

- USE electric fields

**fields (electromagnetic)**

INIS: 1982-04-14; ETDE: 1982-05-07

- USE electromagnetic fields

**fields (gravitational)**

- USE gravitational fields

**fields (magnetic)**

- USE magnetic fields

**FIERZ INTERFERENCE**

- RT beta decay

**FIERZ-PAULI THEORY**

- RT quantum mechanics

**FIFTH SOUND**

INIS: 1977-09-15; ETDE: 1977-11-10

- RT sound waves
- RT superfluidity

**FIGS**

- \*BT1 fruits

**figure of merit**

INIS: 1984-04-04; ETDE: 2002-06-13

- USE performance

**FIJI**

- BT1 islands
- RT pacific ocean

**filament (plasma)**

- USE plasma filament

**FILAMENT CRYSTAL COUNTERS**

Gamma counter filled with crystalline argon, xenon, methane, etc. at cryogenic temperatures.

- \*BT1 crystal counters
- RT gamma detection

**FILAMENTS**

- RT wires

**FILARIASIS**

INIS: 1975-09-16; ETDE: 1975-10-28

- \*BT1 parasitic diseases
- RT nematodes
- RT parasites

**FILL FACTORS**

2000-04-12

Fractions of power available to loads.

- BT1 dimensionless numbers
- RT power demand
- RT power generation

**FILLER METALS**

- RT brazing alloys
- RT welding

**FILLERS**

- RT binders
- RT grouting

**filling stations**

INIS: 2000-04-12; ETDE: 1979-05-09

- USE gasoline service stations

**film badges**

- USE photographic film dosimeters

**FILM BOILING**

- \*BT1 boiling

**FILM CONDENSATION**

- BT1 vapor condensation
- RT steam condensers

**FILM COOLING**

- BT1 cooling

**film dosimeters**

- USE photographic film dosimeters

**FILM DOSIMETRY**

- BT1 dosimetry
- RT photographic film dosimeters

**FILM FLOW**

1975-08-20

- BT1 fluid flow
- RT helium ii
- RT superfluidity

**FILMLESS SPARK CHAMBERS**

- \*BT1 spark chambers
- NT1 sonic spark chambers
- NT1 wire spark chambers

**FILMS**

Not for the concepts covered by PHOTOGRAPHIC FILMS or NUCLEAR EMULSIONS.

- NT1 solar control films
- NT1 superconducting films
- NT1 thin films
- RT coatings
- RT foils
- RT heat mirrors
- RT layers
- RT waterproofing

**FILTERS**

See also DIGITAL FILTERS.

- NT1 air filters
- NT1 electric filters
- NT1 electromagnetic filters
- NT1 fabric filters
- NT1 magnetic filters
- NT1 mechanical filters
- NT2 granular bed filters
- NT1 optical filters
- RT aerosols
- RT coolant cleanup systems
- RT diatomaceous earth
- RT dust collectors
- RT dusts
- RT filtration
- RT fouling
- RT hot gas cleanup
- RT respirators
- RT samplers
- RT screens
- RT scrubbing
- RT sorting
- RT suspensions
- RT ultrafiltration
- RT ventilation

**filters (electric)**

2000-04-12

- USE electric filters

**FILTRATION**

- BT1 separation processes
- NT1 ultrafiltration
- RT electromagnetic filters
- RT filters
- RT hot gas cleanup
- RT magnetic filters

**FINAL-STATE INTERACTIONS**

- BT1 interactions
- RT proximity scattering

**financial assistance**

INIS: 1982-12-03; ETDE: 1979-12-17

(Prior to March 1996 this was a valid ETDE descriptor.)

- USE financing



**FINANCIAL DATA**

1992-09-01

Use only in conjunction with literary indicator  
N for data flagging.

UF assets  
SF credits  
SF debits  
\*BT1 numerical data  
RT budgets  
RT economics  
RT reactor licensing

**FINANCIAL INCENTIVES**

INIS: 1997-06-19; ETDE: 1976-12-16

(From January 1981 till March 1997 LOAN  
GUARANTEES was a valid ETDE descriptor.  
From May 1979 till April 1997 SUBSIDIES  
was a valid ETDE descriptor.)

UF loan guarantees  
UF property tax exemption  
UF subsidies  
SF incentives  
NT1 tax credits  
RT depreciation  
RT economics  
RT financing  
RT legal aspects  
RT national energy conservation  
incentives act  
RT payback period  
RT socio-economic factors  
RT taxes  
RT us depletion allowances  
RT us economic recovery tax act  
RT us energy tax act

**financial management**

INIS: 2000-04-12; ETDE: 1983-03-23

USE program management

**financial penalties**

INIS: 2000-04-12; ETDE: 1979-07-24

USE charges

**FINANCIAL SECURITY**

INIS: 1976-12-08; ETDE: 1989-04-19

Insurance or other financial security a nuclear  
operator must have to cover his civil liability.

UF security (financial)  
RT insurance  
RT liabilities  
RT victims compensation  
RT workmens compensation

**FINANCING**

(CREDIT ACCOUNTS, CREDIT CARDS,  
DISBURSEMENTS, FINANCIAL  
ASSISTANCE, and GRANTS have been valid  
ETDE descriptors.)

UF financial assistance  
UF grants  
UF loans  
SF bank accounts  
SF credit accounts  
SF credit cards  
SF disbursements  
SF letters-of-credit  
RT amortization  
RT budgets  
RT capital  
RT cost  
RT cost recovery  
RT depreciation  
RT economics  
RT economy  
RT expenditures  
RT financial incentives  
RT interest rate  
RT investment  
RT lending institutions

**fine control rods**

USE regulating rods

**FINE STRUCTURE**

RT energy levels  
RT paschen-back effect  
RT sommerfeld constant  
RT spectra

**fingerprinting (oil spills)**

INIS: 2000-04-12; ETDE: 1978-08-07

USE oil spills  
USE pattern recognition

**FINGERS**

\*BT1 hands  
RT nails

**finished oils**

INIS: 2000-04-12; ETDE: 1979-12-10

Products requiring no further refinery  
processing.

(Prior to September 1994, this was a valid  
ETDE descriptor.)

USE petroleum products

**finishing (surface)**

USE surface finishing

**FINITE DIFFERENCE METHOD**

UF coarse mesh method  
\*BT1 iterative methods  
\*BT1 numerical solution  
RT boundary element method  
RT differential equations  
RT finite element method  
RT mathematics  
RT mesh generation  
RT nodal expansion method

**FINITE ELEMENT METHOD**

BT1 calculation methods  
\*BT1 numerical solution  
NT1 boundary element method  
RT differential equations  
RT finite difference method  
RT mathematics  
RT mesh generation  
RT nodal expansion method

**FINITE-RANGE INTERACTIONS**

BT1 interactions  
RT nuclear reaction kinetics  
RT zero-range approximation

**FINLAND**

BT1 developed countries  
\*BT1 scandinavia  
RT oecd

**FINNISH ORGANIZATIONS**

INIS: 1976-08-17; ETDE: 1976-11-01

BT1 national organizations

**finnish reactor-1**

USE fir-1 reactor

**FINS**

RT reactor components  
RT spacers  
RT vanes

**FIORDS**

INIS: 1992-06-04; ETDE: 1980-11-25

Arms of the sea having steep sides, deep  
bottoms, and shallow sills separating them  
from the sea.

\*BT1 estuaries  
RT salinity  
RT seawater

**FIR-1 REACTOR**

Technical Research Centre of Finland Reactor  
Lab., Espoo, Finland.

UF finnish reactor-1

\*BT1 isotope production reactors  
\*BT1 pulsed reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 test reactors  
\*BT1 thermal reactors  
\*BT1 training reactors  
\*BT1 triga type reactors

**FIRE DETECTORS**

INIS: 1992-01-22; ETDE: 1986-01-14

BT1 measuring instruments  
NT1 smoke detectors  
RT alarm systems  
RT fire prevention  
RT safety

**FIRE EXTINGUISHERS**

RT fire fighting  
RT fires  
RT safety

**FIRE FIGHTING**

INIS: 1985-12-10; ETDE: 1978-04-28

RT fire extinguishers  
RT fire hazards  
RT fires  
RT safety

**fire flooding**

INIS: 2000-04-12; ETDE: 1988-05-23

USE in-situ combustion

**FIRE HAZARDS**

BT1 hazards  
RT fire fighting  
RT fire prevention  
RT fires  
RT spontaneous combustion

**FIRE PREVENTION**

INIS: 1985-12-10; ETDE: 1975-08-19

RT combustion  
RT fire detectors  
RT fire hazards  
RT fire resistance  
RT fires  
RT safety  
RT spontaneous combustion

**FIRE RESISTANCE**

RT fire prevention  
RT fires  
RT thermal insulation

**fire stations**

INIS: 2000-04-12; ETDE: 1981-01-09

USE public buildings

**FIREBALL MODEL**

UF two-fireball model  
\*BT1 particle models  
RT centauro-type events  
RT cluster emission model

**fireballs**

INIS: 2000-04-12; ETDE: 1979-05-02

(Prior to January 1995, this was a valid ETDE  
descriptor.)

SEE flames  
SEE nuclear fireballs

**fireballs (nuclear)**

INIS: 1975-08-22; ETDE: 2002-06-13

USE nuclear fireballs

**firedamp**

INIS: 2000-04-12; ETDE: 1978-04-28  
USE methane

**firehose instability**

USE hose instability

**FIREPLACES**

INIS: 2000-04-12; ETDE: 1977-06-21  
RT chimneys  
RT space heating

**FIRES**

RT accidents  
RT burns  
RT combustion  
RT explosions  
RT fire extinguishers  
RT fire fighting  
RT fire hazards  
RT fire prevention  
RT fire resistance  
RT flammability  
RT hazards  
RT natural disasters  
RT safety engineering  
RT smoke detectors  
RT spontaneous combustion

**firestreak model**

INIS: 1978-09-28; ETDE: 1978-10-19  
USE nuclear fireball model

**firewood**

INIS: 1992-04-09; ETDE: 1981-01-30  
USE wood fuels

**FIRS**

INIS: 1992-02-05; ETDE: 1985-12-11  
UF abies  
\*BT1 conifers  
\*BT1 trees

**FIRST AID**

UF cardiopulmonary resuscitation  
UF cpr  
\*BT1 therapy  
RT accidents  
RT health hazards  
RT injuries  
RT safety showers  
RT single intake

**first sound**

INIS: 2000-04-12; ETDE: 1997-09-02  
USE sound waves

**FIRST WALL**

INIS: 1975-08-20; ETDE: 1975-10-01  
BT1 thermonuclear reactor walls  
RT steel-cr10mo2  
RT wall loading

**FISCHER ASSAY**

2000-04-12  
RT oil shales  
RT shale oil

**fischer-tropsch/mobil process**

INIS: 2000-04-12; ETDE: 1984-02-10  
Two-stage process from synthesis gas to gasoline with different catalysts in each stage. (Prior to March 1994, this was a valid ETDE descriptor.)

SEE coal gasification  
SEE coal liquefaction

**FISCHER-TROPSCH SYNTHESIS**

UF synthine process  
BT1 chemical reactions  
RT hydrocarbons  
RT hydrogenation

RT sasol-ii process

**fish and wildlife service**

INIS: 2000-04-12; ETDE: 1984-12-26  
USE us fws

**fish culture**

INIS: 1992-05-08; ETDE: 1975-11-12  
USE fisheries

**fish hatcheries**

INIS: 1992-05-08; ETDE: 1981-08-21  
USE fisheries

**fish ladders**

INIS: 1991-08-09; ETDE: 1980-01-24  
USE fish passage facilities

**fish lifts**

INIS: 1991-08-09; ETDE: 1980-01-24  
USE fish passage facilities

**fish locks**

INIS: 1991-08-09; ETDE: 1980-01-24  
USE fish passage facilities

**fish meal**

USE fish products

**FISH OIL**

INIS: 1976-10-29; ETDE: 1976-12-16  
\*BT1 oils  
RT fishes  
RT hydrocarbons

**FISH PASSAGE FACILITIES**

INIS: 1991-08-09; ETDE: 1980-01-24  
Structures that carry water around dams thus facilitating the migration of fish.

UF fish ladders  
UF fish lifts  
UF fish locks  
UF fishways  
RT anadromous fishes  
RT dams  
RT fishes  
RT hydroelectric power plants  
RT migration

**FISH PRODUCTS**

UF fish meal  
NT1 seafood  
RT fishes

**FISH SCALES**

INIS: 1992-07-23; ETDE: 1977-05-07  
RT fishes  
RT skin

**FISHBONE INSTABILITY**

INIS: 1984-06-25; ETDE: 1984-07-10  
\*BT1 plasma macroinstabilities

**FISHERIES**

INIS: 1992-05-08; ETDE: 1981-08-04  
(Prior to August 1981, this concept in ETDE was indexed to AQUACULTURE.)  
UF fish culture  
UF fish hatcheries  
RT aquaculture  
RT fishing industry

**FISHERY LAWS**

1990-12-15  
(Prior to December 1990, this descriptor was spelled FISHERY LAW.)  
BT1 laws  
RT high seas  
RT territorial waters

**FISHES**

Not for the concept of the edible flesh of a fish for which use SEAFOOD.

UF flukes (fishes)  
UF misgurnus  
BT1 aquatic organisms  
\*BT1 vertebrates  
NT1 anadromous fishes  
NT2 salmon  
NT2 striped bass  
NT1 codfish  
NT1 eel  
NT1 fathead minnow  
NT1 goldfish  
NT1 plaice  
NT1 trout  
NT1 tuna  
RT aquaculture  
RT fish oil  
RT fish passage facilities  
RT fish products  
RT fish scales  
RT food  
RT gills  
RT ichthyoplankton  
RT seafood  
RT surface waters

**FISHING INDUSTRY**

INIS: 1975-12-17; ETDE: 1976-01-26  
BT1 industry  
RT fisheries

**fishways**

INIS: 1991-08-09; ETDE: 1980-01-24  
USE fish passage facilities

**FISSILE MATERIALS**

Materials containing nuclides capable of undergoing fission by interaction with slow neutrons.

\*BT1 fissionable materials  
RT fission  
RT nuclear fuels  
RT nuclear materials management

**FISSION**

1996-01-24  
UF disintegration (fission)  
BT1 nuclear reactions  
NT1 binary fission  
NT1 cold fission  
NT1 electrofission  
NT1 fast fission  
NT1 photofission  
NT1 quaternary fission  
NT1 spontaneous fission  
NT1 ternary fission  
NT1 thermal fission  
RT bohr-wheeler theory  
RT chain reactions  
RT criticality  
RT fast fission factor  
RT fissile materials  
RT fission barrier  
RT fission fragments  
RT fission products  
RT fission spectra  
RT fission yield  
RT fissionable materials  
RT fissioning plasma  
RT governor model  
RT nuclear explosions  
RT nuclear fragmentation  
RT nuclear fragments  
RT order-disorder model  
RT quasi-fission  
RT reactors  
RT recoils  
RT scission-point model

RT spallation  
 RT strutinsky theory  
 RT thermal fission factor  
 RT watt fission spectrum

**FISSION BARRIER**

\*BT1 nuclear potential  
 \*BT1 potential energy  
 RT excitation  
 RT fission

**FISSION CHAMBERS**

\*BT1 ionization chambers  
 \*BT1 neutron detectors  
 RT threshold detectors

**FISSION FOIL DETECTORS**

\*BT1 neutron detectors  
 RT activation detectors  
 RT dielectric track detectors  
 RT fission thermocouple detectors  
 RT threshold detectors

**FISSION FRAGMENT DETECTION**

\*BT1 radiation detection  
 RT charged particle detection  
 RT radiation detectors

**FISSION FRAGMENT SPECTROMETERS**

\*BT1 spectrometers

**FISSION FRAGMENTS**

UF fragments (fission)  
 BT1 nuclear fragments  
 RT fission  
 RT fission tracks

**FISSION ISOMERS**

RT isomeric nuclei  
 RT spontaneous fission

**fission-like reactions**

INIS: 1977-04-07; ETDE: 2002-06-13  
 USE quasi-fission

**FISSION NEUTRONS**

\*BT1 neutrons  
 NT1 delayed neutrons  
 NT1 prompt neutrons  
 RT multiplication factors

**FISSION POISONS**

\*BT1 nuclear poisons

**FISSION PRODUCT RELEASE**

1995-05-10

Coordinate with descriptors for the area of release, such as BIOSPHERE or COOLANTS, and for the specific fission products, if known.

UF release (fission product)  
 RT containment  
 RT contamination  
 RT degassing  
 RT desorption  
 RT fission products  
 RT international nuclear event scale  
 RT leaks  
 RT radiation hazards  
 RT radioactive waste disposal  
 RT removal  
 RT source terms

**FISSION PRODUCTS**

1996-07-18

(Prior to March 1997 FONG THEORY was a valid ETDE descriptor.)

UF debris (nuclear)  
 SF fong-newton theory  
 SF fong theory  
 BT1 isotopes  
 \*BT1 radioactive materials  
 RT accidents

RT containment  
 RT containment systems  
 RT fallout  
 RT fission  
 RT fission product release  
 RT fission yield  
 RT fissium  
 RT fuel cooling time  
 RT fuel reprocessing plants  
 RT nuclear explosions  
 RT radioactive wastes  
 RT reactors  
 RT source terms  
 RT spent fuels

**FISSION RATIO**

BT1 dimensionless numbers  
 RT capture-to-fission ratio  
 RT resonance neutrons

**fission reactor control theory**

INIS: 1982-11-29; ETDE: 2002-06-13  
 USE reactor kinetics

**FISSION SPECTRA**

UF spectra (fission)  
 BT1 spectra  
 RT fission  
 RT prompt neutrons

**FISSION THERMOCOUPLE****DETECTORS**

INIS: 2000-04-12; ETDE: 1979-03-27  
 Neutron detectors using a thin film of fissile material overlaid on a thermocouple junction.  
 \*BT1 neutron detectors  
 RT fission foil detectors  
 RT thermocouples

**FISSION TRACKS**

BT1 particle tracks  
 RT age estimation  
 RT fission fragments

**FISSION YIELD**

UF yield (fission)  
 \*BT1 nuclear reaction yield  
 RT fission  
 RT fission products

**FISSIONABLE MATERIALS**

Materials containing nuclides capable of undergoing fission by any process.

BT1 materials  
 NT1 fissile materials  
 RT accelerator breeders  
 RT fission  
 RT fuel cycle  
 RT nuclear materials management  
 RT radioactive wastes

**fissionable materials management**

USE nuclear materials management

**FISSIONING PLASMA**

BT1 plasma  
 RT chain reactions  
 RT fission  
 RT gas fuels  
 RT space propulsion reactors

**FISSIONING**

RT fission products  
 RT nuclear fuels

**fissured formations**

INIS: 2000-04-12; ETDE: 1977-08-24  
 USE fractured reservoirs

**FISTULAE**

BT1 pathological changes  
 RT necrosis

RT ulcers

**FITZPATRICK REACTOR**

Entergy Nuclear Operations, Inc., North Scriba, New York, USA.

UF easton power reactor  
 UF james a. fitzpatrick reactor  
 \*BT1 bwr type reactors

**five-dimensional calculations**

INIS: 1984-04-04; ETDE: 2002-06-13  
 USE many-dimensional calculations

**fixation (carbon dioxide)**

1982-02-10  
 USE carbon dioxide fixation

**fixation (nitrogen)**

INIS: 1982-02-10; ETDE: 2002-06-13  
 USE nitrogen fixation

**fixation (waste treatment)**

USE solidification

**fixed beds**

INIS: 1992-03-02; ETDE: 2001-01-23  
 USE packed beds

**FIXED MIRROR COLLECTORS**

INIS: 2000-04-12; ETDE: 1978-08-07  
 \*BT1 concentrating collectors

**fixed-price contracts**

INIS: 2000-04-12; ETDE: 1983-03-23  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 USE contracts

**fixed scattering centres****approximation**

INIS: 1984-04-04; ETDE: 2003-01-10  
 USE fsc approximation

**flagyl**

USE metronidazole

**FLAMANVILLE-1 REACTOR**

INIS: 1984-07-20; ETDE: 1984-09-05  
 \*BT1 pwr type reactors

**FLAMANVILLE-2 REACTOR**

INIS: 1984-07-20; ETDE: 1984-09-05  
 \*BT1 pwr type reactors

**flame chamber process**

INIS: 2000-04-12; ETDE: 1976-11-01  
 High-temperature waste combustion process in which waste is fed into ring column created between two concentric cylinders causing combustion steps to be above each other rather than following each other.  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 USE waste processing

**FLAME PHOTOMETRY**

INIS: 2000-04-12; ETDE: 1980-11-08  
 BT1 photometry  
 RT spectrophotometry  
 RT spectroscopy

**FLAME PROPAGATION**

INIS: 1998-12-08; ETDE: 1976-09-28  
 RT blowoff  
 RT combustion kinetics  
 RT flames  
 RT flashback

**flame spectrometry**

INIS: 2000-04-12; ETDE: 1980-08-12  
 USE emission spectroscopy

**FLAME SPRAYING**

\*BT1 spray coating

**flame temperature**

INIS: 2000-04-12; ETDE: 1975-11-11

USE combustion properties

**FLAMES**

SF fireballs

NT1 verneuil method

RT blowoff

RT combustion

RT flame propagation

RT flashback

RT ignition

RT inhibition

RT stagnation point

**FLAMMABILITY**

INIS: 1977-11-21; ETDE: 1976-04-19

BT1 combustion properties

RT combustion

RT fires

RT ignition

**FLANGES**

RT joints

**FLARING**

INIS: 1999-05-18; ETDE: 1979-12-10

RT combustion

RT energy losses

RT natural gas

**FLASH BURNS**

\*BT1 burns

**FLASH HEATING**

BT1 heating

RT distillation

RT evaporation

RT steam

**FLASH HYDROLYSIS****PROCESS**

INIS: 2000-04-12; ETDE: 1976-07-07

Process for converting coal or biomass to liquid and gaseous hydrocarbons directly by heating with preheated hydrogen to reaction temperature followed by rapid cooling.

\*BT1 coal gasification

\*BT1 coal liquefaction

\*BT1 pyrolysis

RT hydrogenation

**flash point**

INIS: 1992-07-10; ETDE: 1975-11-11

USE combustion properties

**FLASH TUBES**

\*BT1 gas discharge tubes

**FLASH WELDING**

\*BT1 resistance welding

**FLASHBACK**

INIS: 2000-04-12; ETDE: 1977-01-28

Backward burning of a flame into the lip of a burner or torch.

RT blowoff

RT burners

RT chemical explosions

RT flame propagation

RT flames

**FLASHED STEAM SYSTEMS**

2000-04-12

Systems in which a well-head mixture of hot water and steam is flashed in a separator; the saturated steam, then, is used to drive multistage turbines, and the remaining hot liquid is discarded.

\*BT1 steam systems

RT flashing

RT geothermal energy conversion

RT geothermal power plants

RT steam

RT steam separators

RT steam turbines

RT thermodynamic cycles

**FLASHING**

1976-05-07

\*BT1 evaporation

RT flashed steam systems

RT steam

**FLASHOVER**

INIS: 1985-12-10; ETDE: 1975-09-11

BT1 electric discharges

RT breakdown

RT electric arcs

RT electric currents

RT electric sparks

RT electrical faults

**flasks**

USE casks

**FLAT MAGNETIC SPECTROMETERS**

UF double focusing spectrometers

UF iron-free spectrometers

UF orange-type spectrometers

UF semicircular spectrometers

UF siegbahn spectrometers

UF spiral orbit spectrometers

\*BT1 magnetic spectrometers

**flat mirrors**

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

USE mirrors

**FLAT PLATE COLLECTORS**

1998-12-28

\*BT1 solar collectors

NT1 trickle-type collectors

RT solar air heaters

**flattening (neutron flux)**

USE neutron flux flattening

**FLATTOP REACTOR**

LANL, Los Alamos, New Mexico, USA.

\*BT1 zero power reactors

**flavenoids**

ETDE: 1975-09-11

(Prior to January 2004 this was a valid descriptor.)

USE flavonoids

**FLAVINES**

\*BT1 acridines

\*BT1 amines

NT1 acriflavine

NT1 proflavine

**flavins**

USE isoalloxazines

**FLAVONES**

1996-06-28

UF hesperidin

\*BT1 flavonoids

NT1 morin

NT1 quercetin

**FLAVONOIDS**

2004-01-14

(Prior to January 2004 this descriptor was spelled FLAVENOIDS.)

UF flavenoids

\*BT1 organic oxygen compounds

NT1 flavones

NT2 morin

NT2 quercetin

**flavoprotein enzymes**

1996-07-18

USE diaphorase

**FLAVOR**

Not for elementary particles.

BT1 organoleptic properties

RT chemoreceptors

RT spices

RT taste buds

**FLAVOR MODEL**

INIS: 1977-07-05; ETDE: 1977-10-19

UF beauty model

UF bottom quark model

UF top quark model

UF truth model

\*BT1 quark model

RT beauty particles

RT charmonium

RT kobayashi-maskawa matrix

RT quantum chromodynamics

RT quantum flavordynamics

RT quantum numbers

RT top particles

RT toponium

**flavordynamics**

INIS: 2000-04-12; ETDE: 1979-05-25

USE quantum flavordynamics

**flaws**

USE defects

**FLAX PLANTS**

UF linseed plants

\*BT1 magnoliopsida

RT linseed oil

**flaxseed oil**

USE linseed oil

**FLEXIBILITY**

UF stiffness

\*BT1 tensile properties

RT flexural strength

**flexitime**

INIS: 2000-04-12; ETDE: 1977-06-21

USE alternative work schedules

**FLEXURAL STRENGTH**

UF strength (flexural)

BT1 mechanical properties

RT bending

RT flexibility

**FLIBE**

INIS: 1975-08-20; ETDE: 1975-10-01

Molten salt of fluorine, lithium and beryllium.

\*BT1 molten salts

RT beryllium fluorides

RT breeding blankets

RT lithium fluorides

RT thermonuclear reactor walls

**FLIES**

\*BT1 diptera

NT1 fruit flies

NT2 anastrepha

NT2 ceratitis capitata

NT2 dacus

NT3 dacus oleae

NT2 drosophila

NT1 glossina

NT1 hylemya antiqua

NT1 screwworm fly

**FLIGHT TESTING**

*INIS: 1999-08-19; ETDE: 1981-01-09*

- BT1 testing
- RT aircraft
- RT missiles
- RT reentry vehicles

**flintlock operation**

*INIS: 2000-04-12; ETDE: 1976-11-01*

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE nuclear explosions
- USE underground explosions

**FLIP-FLOP CIRCUITS**

*UF eccles-jordan circuits*

- \*BT1 multivibrators

**floating nuclear power plant-sturgis**

*1993-11-08*

- USE mh-1a reactor

**floating nuclear power plants**

- USE offshore nuclear power plants

**FLOATING ROOF TANKS**

*INIS: 1992-07-08; ETDE: 1981-08-04*

- \*BT1 tanks
- RT petroleum
- RT storage facilities

**floating zone techniques**

- USE zone melting

**FLOCCULATION**

*UF coagulation (colloid)*

*UF colloid coagulation*

- \*BT1 precipitation
- RT coprecipitation

**FLOOD CONTROL**

*1999-05-12*

- BT1 control
- RT coastal regions
- RT dams
- RT hydroelectric power plants
- RT power generation
- RT rivers

**flooding fluids**

*INIS: 2000-04-12; ETDE: 1983-11-09*

- USE displacement fluids

**FLOODS**

- RT drainage
- RT exceptional natural disaster
- RT hydrology
- RT natural disasters
- RT runoff
- RT surface waters

**FLOORS**

*INIS: 1999-08-04; ETDE: 1975-09-11*

- UF heating floors*
- RT basements
- RT buildings

**FLOQUET FUNCTION**

- BT1 functions
- RT differential equations

**florence oil**

- USE olive oil

**florencite**

*1996-06-26*

(Until June 1996 this was a valid descriptor.)

- USE phosphate minerals
- USE radioactive minerals

**FLORIDA**

*1997-06-17*

- \*BT1 usa

**NT1** cape kennedy

- RT biscayne bay
- RT chattahoochee river
- RT everglades national park
- RT pinellas plant
- RT us east coast
- RT us gulf coast

**florida current**

*INIS: 1992-02-18; ETDE: 1977-06-21*

- USE gulf stream

**florida university reactor**

- USE ufr reactor

**FLOTATION**

- BT1 separation processes
- RT coal preparation
- RT foam separation
- RT ore enrichment
- RT ore processing
- RT waste processing

**FLOUR**

- BT1 food
- RT bread
- RT cereals

**flow (blood)**

*INIS: 2000-04-12; ETDE: 1980-11-08*

- USE blood flow

**flow (fluid)**

- USE fluid flow

**FLOW BLOCKAGE**

- RT fluid flow
- RT loss of flow

**FLOW COUNTERS**

- UF fluid flow counters*
- \*BT1 radiation detectors
- RT geiger-mueller counters
- RT proportional counters

**flow cytometers**

*INIS: 2000-04-12; ETDE: 1976-09-14*

- USE cell flow systems

**FLOW MODELS**

- UF models (flow)*
- BT1 mathematical models
- RT fluid flow
- RT thermal hydraulics

**FLOW RATE**

- RT dynamic function studies
- RT flow regulators
- RT flowmeters
- RT fluid flow
- RT hydraulics
- RT mach number
- RT plasma eaters
- RT pressure drop
- RT time dependence
- RT velocity

**FLOW REGULATORS**

- UF dampers (gas flow)*
- UF draft control systems*
- \*BT1 control equipment
- NT1 baffles
- NT1 valves
- NT2 relief valves
- NT2 water faucets
- RT flow rate
- RT penstocks

**flow sheets**

- USE flowsheets

**FLOW STRESS**

- BT1 stresses

- RT plasticity

**FLOW VISUALIZATION**

*INIS: 1986-10-29; ETDE: 1984-03-06*

- RT aerosols
- RT bubbles
- RT fluid flow

**FLOWERS**

*For reproductive organs of plants.*

- NT1 stamen
- RT plants
- RT pollen
- RT reproduction

**FLOWMETERS**

- \*BT1 meters
- NT1 plasma eaters
- RT anemometers
- RT flow rate
- RT nozzles
- RT orifices
- RT pitot tubes
- RT venturi tubes

**FLWSHEETS**

- UF flow sheets*
- \*BT1 diagrams

**FLUCTUATIONS**

*INIS: 1999-07-15; ETDE: 1975-07-29*

*Stochastic variations.*

- BT1 variations
- NT1 landau fluctuations
- RT noise

**FLUE GAS**

*1976-07-16*

- UF combustion gases*
- \*BT1 gaseous wastes
- RT combustion products
- RT dry scrubbers
- RT scrubbing
- RT selective catalytic reduction

**fluence (neutron)**

- USE neutron fluence

**fluid equations (plasma)**

*INIS: 1988-11-16; ETDE: 2002-06-13*

- USE plasma fluid equations

**FLUID FLOW**

(From September 1979 till February 1997 DISPLACEMENT RATES was a valid ETDE descriptor.)

- UF flow (fluid)*
- SF displacement rates*
- NT1 capillary flow
- NT1 compressible flow
- NT1 critical flow
- NT1 film flow
- NT1 gas flow
- NT2 air flow
- NT2 knudsen flow
- NT2 slip flow
- NT1 hypersonic flow
- NT1 incompressible flow
- NT2 ideal flow
- NT1 laminar flow
- NT1 liquid flow
- NT1 multiphase flow
- NT1 potential flow
- NT1 solids flow
- NT1 steady flow
- NT2 ideal flow
- NT1 subsonic flow
- NT1 supersonic flow
- NT1 transition flow
- NT1 transonic flow
- NT1 turbulent flow
- NT1 two-phase flow

**NT1** unsteady flow  
**NT1** viscous flow  
   **NT2** couette flow  
**NT1** vortex flow  
 RT advection  
 RT aerodynamic heating  
 RT baffles  
 RT bernoulli law  
 RT boundary layers  
 RT cavitation  
 RT continuity equations  
 RT darcy law  
 RT diffusers  
 RT drainage  
 RT flow blockage  
 RT flow models  
 RT flow rate  
 RT flow visualization  
 RT fluid mechanics  
 RT fluid-structure interactions  
 RT fluids  
 RT friction factor  
 RT froude number  
 RT hartmann number  
 RT heat transfer  
 RT helmholtz instability  
 RT hydraulics  
 RT hydrodynamics  
 RT jets  
 RT magnetohydrodynamics  
 RT mass transfer  
 RT oseen method  
 RT pressure drop  
 RT rayleigh-taylor instability  
 RT reactor cooling systems  
 RT rheology  
 RT shear  
 RT stagnation  
 RT superfluidity  
 RT surges  
 RT thermal hydraulics  
 RT turbulence  
 RT two-stream instability  
 RT viscosity

### fluid flow counters

USE flow counters

### FLUID FUELED REACTORS

UF dust fueled reactors  
 BT1 reactors  
**NT1** gas fueled reactors  
   **NT2** coaxial flow reactors  
   **NT2** light bulb reactors  
   **NT2** plasma core assembly  
**NT1** liquid homogeneous reactors  
   **NT2** aqueous homogeneous reactors  
     **NT3** ai-1-77 reactor  
     **NT3** argus reactor  
     **NT3** ber-2 reactor  
     **NT3** byu 1-77 reactor  
     **NT3** cesnef reactor  
     **NT3** dr-1 reactor  
     **NT3** frf reactor  
     **NT3** gidra reactor  
     **NT3** hre-2 reactor  
     **NT3** jrr-1 reactor  
     **NT3** kewb reactor  
     **NT3** kstr reactor  
     **NT3** ncsr-1 reactor  
     **NT3** nevada university reactor  
     **NT3** prnc-1-77 reactor  
     **NT3** supo reactor  
     **NT3** wrrr reactor  
**NT1** molten salt fueled reactors  
 RT fluidized bed reactors  
 RT liquid metal fuels

### FLUID INJECTION

INIS: 2000-01-05; ETDE: 1976-03-11

**NT1** gas injection  
**NT1** miscible-phase displacement  
   **NT2** carbon dioxide injection  
   **NT2** microemulsion flooding  
**NT1** steam injection  
**NT1** waterflooding  
   **NT2** caustic flooding  
 RT displacement fluids  
 RT enhanced recovery  
 RT fluid injection processes  
 RT hydraulic fracturing  
 RT hydrology  
 RT pressurization  
 RT well stimulation

### FLUID INJECTION PROCESSES

2000-04-12

UF cyclic steam injection process  
 UF huff and puff process  
 UF steam drive process  
**NT1** cold-water processes  
**NT1** hot-water processes  
**NT1** steam soak processes  
 RT enhanced recovery  
 RT fluid injection  
 RT oil sands

### FLUID MECHANICS

UF computational fluid dynamics  
 BT1 mechanics  
**NT1** aerodynamics  
**NT1** electrogasdynamics  
**NT1** hydraulics  
   **NT2** thermal hydraulics  
**NT1** hydrodynamics  
   **NT2** electrohydrodynamics  
   **NT2** magnetohydrodynamics  
**NT1** magnetogasdynamics  
**NT1** pneumatics  
 RT aerodynamic heating  
 RT drag  
 RT fluid flow  
 RT fluid-structure interactions  
 RT fluids  
 RT friction factor  
 RT general circulation models  
 RT gravity waves  
 RT hydraulic conductivity  
 RT hydrostatics  
 RT navier-stokes equations  
 RT stagnation point

### FLUID POISON CONTROL

1999-05-12

UF chemical shimming  
 BT1 control  
 RT burnable poisons  
 RT poisoning  
 RT reactor control systems  
 RT scram  
 RT soluble poisons

### FLUID-STRUCTURE INTERACTIONS

1980-11-07

*Interactions between fluids, usually coolants, and structural components involving distortion of components such as shields, spacers, supports etc. in reactors.*  
 RT fluid flow  
 RT fluid mechanics  
 RT fuel-coolant interactions  
 RT reactor components  
 RT reactor cooling systems  
 RT reactor cores

### FLUID WITHDRAWAL

INIS: 2000-04-12; ETDE: 1975-11-11

*The process of withdrawing fluids such as ground water from a source, also the quantity of fluid withdrawn.*  
 UF ground water withdrawal  
 RT geothermal fluids  
 RT ground water

### fluidic computers

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor.)  
 USE computers

### FLUIDIC CONTROL DEVICES

\*BT1 control equipment  
 BT1 fluidic devices

### FLUIDIC DEVICES

**NT1** fluidic control devices  
 RT amplification

### FLUIDIZATION

1975-12-09

RT fluidized-bed combustion  
 RT fluidized bed reactors  
 RT fluidized beds  
 RT suspensions

### fluidized bed

2000-04-12

(Prior to July 1985, this was a valid ETDE descriptor.)  
 USE fluidized beds

### FLUIDIZED BED BOILERS

INIS: 1992-03-12; ETDE: 1982-03-11

UF circulating fluidized bed boilers  
 BT1 boilers  
 RT fluidized-bed combustion  
 RT fluidized-bed combustors  
 RT fluidized beds

### FLUIDIZED-BED COMBUSTION

1976-02-11

*The combustion of pulverized coal (or other material) in a fluidized bed with limestone or dolomite both to suppress sulfur emission (by chemically combining the sulfur with the bed material) and to limit the tendency of atmospheric nitrogen and oxygen to combine into nitrogen oxides (by limiting the temperature of the combustion reaction).*

\*BT1 combustion  
 RT coal  
 RT fluidization  
 RT fluidized bed boilers  
 RT fluidized-bed combustors

### FLUIDIZED-BED COMBUSTORS

INIS: 1993-08-02; ETDE: 1976-11-01

BT1 combustors  
 RT coal  
 RT fluidized bed boilers  
 RT fluidized-bed combustion  
 RT fluidized beds  
 RT pollution control equipment

### fluidized bed heat exchangers

INIS: 2000-04-12; ETDE: 1977-07-23

(Prior to February 1997 this was a valid ETDE descriptor.)

USE fluidized beds  
 USE heat exchangers

**FLUIDIZED BED HYDROGENATION PROCESS**

INIS: 2000-04-12; ETDE: 1976-01-23

Production of methane- and ethane-rich gas at elevated temperatures and pressure from hydrocarbons.

UF *fbh process*

BT1 *sng processes*

RT *hydrocarbons*

RT *petroleum*

**FLUIDIZED BED REACTORS**

\*BT1 *fuel dispersion reactors*

RT *fluid fueled reactors*

RT *fluidization*

**FLUIDIZED BED REFUSE****GASIFICATION**

INIS: 1993-03-25; ETDE: 1976-11-01

Partial oxidation pyrolysis using air and air or steam for gasification and catalysts to increase thermal efficiency. May be used for coal or oil shale gasification. Produces fuel gas.

\*BT1 *gasification*

\*BT1 *waste processing*

RT *coal gasification*

RT *oil shales*

**FLUIDIZED BEDS**

INIS: 1975-12-09; ETDE: 1976-03-25

UF *circulating fluidized beds*

UF *fluidized bed*

UF *fluidized bed heat exchangers*

RT *cafb process*

RT *chemical reactions*

RT *chemical reactors*

RT *ebullated bed*

RT *fluidization*

RT *fluidized bed boilers*

RT *fluidized-bed combustors*

RT *packed beds*

RT *suspensions*

**FLUIDS**

Not for the concepts covered by BODY

**FLUIDS.**

NT1 *cryogenic fluids*

NT1 *cutting fluids*

NT1 *displacement fluids*

NT1 *drilling fluids*

NT1 *fracturing fluids*

NT1 *gases*

NT2 *air*

NT3 *compressed air*

NT3 *surface air*

NT2 *associated gas*

NT2 *coal gas*

NT2 *compressed gases*

NT3 *compressed air*

NT2 *cosmic gases*

NT2 *cover gas*

NT2 *dissociating gases*

NT2 *dissolved gases*

NT2 *exhaust gases*

NT2 *fuel gas*

NT3 *high btu gas*

NT3 *intermediate btu gas*

NT4 *carburetted water gas*

NT4 *town gas*

NT4 *water gas*

NT3 *landfill gas*

NT3 *low btu gas*

NT4 *producer gas*

NT3 *natural gas*

NT4 *abiogenic gas*

NT4 *liquefied natural gas*

NT2 *ionized gases*

NT3 *fully ionized gases*

NT4 *lorentz gas*

NT3 *strongly ionized gases*

NT3 *weakly ionized gases*

NT2 *pyrolytic gases*

NT2 *rare gases*

NT3 *argon*

NT3 *helium*

NT3 *krypton*

NT3 *neon*

NT3 *radon*

NT3 *xenon*

NT2 *rarefied gases*

NT2 *refinery gases*

NT2 *shale gas*

NT2 *synthesis gas*

NT2 *vapors*

NT3 *water vapor*

NT2 *volcanic gases*

NT1 *geothermal fluids*

NT2 *fumarolic fluids*

NT2 *natural steam*

NT1 *heat transfer fluids*

NT1 *liquids*

NT2 *black liquids*

NT2 *coal liquids*

NT2 *liquefied gases*

NT3 *liquefied natural gas*

NT3 *liquefied petroleum gases*

NT2 *liquid crystals*

NT2 *liquid metals*

NT2 *natural gas liquids*

NT3 *gas condensates*

NT3 *lease condensates*

NT3 *liquefied petroleum gases*

NT3 *plant condensates*

NT1 *quantum fluids*

NT2 *helium ii*

NT1 *reservoir fluids*

NT1 *working fluids*

NT2 *hydraulic fluids*

NT2 *refrigerants*

RT *fluid flow*

RT *fluid mechanics*

RT *pour point*

**flukes (fishes)**

INIS: 1982-01-13; ETDE: 2002-06-13

USE *fishes*

**flukes (trematodes)**

1982-01-13

USE *trematodes*

**fluor econamine process**

2000-04-12

Process using an aqueous solution of the primary alkanolamine, diglycolamine, for the removal of acidic impurities hydrogen sulfide and carbon dioxide.

(Prior to February 1995, this was a valid

ETDE descriptor.)

USE *desulfurization*

**fluor solvent process**

2000-04-12

Process using anhydrous propylene carbonate for removal of high concentrations of acidic impurities carbon dioxide and hydrogen sulfide from natural or synthetic gas streams.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE *desulfurization*

**fluoranthene**

INIS: 2000-04-12; ETDE: 1980-11-25

USE *condensed aromatics*

**FLUORATES**

Specific compounds should be indexed by coordination of a descriptor of the form

(CATION) COMPOUNDS and the above anion descriptor.

\*BT1 *fluorine compounds*

BT1 *oxygen compounds*

**FLUORENE**

\*BT1 *condensed aromatics*

\*BT1 *hydrocarbons*

**FLUORESCIN**

1999-07-08

BT1 *dyes*

\*BT1 *hydroxy acids*

\*BT1 *polyphenols*

NT1 *erythrosine*

RT *fluorescence*

RT *phthalic acid*

**FLUORESCENCE**

UF *quenching (fluorescence)*

\*BT1 *luminescence*

NT1 *resonance fluorescence*

RT *fluorescein*

RT *fluorescence spectroscopy*

RT *radiationless decay*

RT *superradiance*

RT *x-ray fluorescence analysis*

**FLUORESCENCE SPECTROSCOPY**

UF *atomic fluorescence spectroscopy*

UF *fluorimetry*

UF *molecular fluorescence spectroscopy*

\*BT1 *emission spectroscopy*

RT *fluorescence*

RT *fluorimeters*

RT *laser spectroscopy*

RT *quantitative chemical analysis*

RT *x-ray fluorescence analysis*

**fluorescent concentrators**

INIS: 2000-04-12; ETDE: 1980-02-11

USE *luminescent concentrators*

**FLUORESCENT LAMPS**

INIS: 2000-04-12; ETDE: 1977-07-23

UF *litek lamp*

BT1 *light bulbs*

RT *ballasts*

RT *lighting systems*

**fluorescent penetrant tests**

USE *liquid penetrant inspection*

**FLUORIDE VOLATILITY PROCESS**

\*BT1 *pyrometallurgy*

\*BT1 *reprocessing*

RT *distillation*

RT *refining*

RT *volatility*

**FLUORIDES**

1996-11-13

UF *actinium fluorides*

UF *einsteinium fluorides*

UF *polonium fluorides*

UF *radium fluorides*

\*BT1 *fluorine compounds*

\*BT1 *halides*

NT1 *aluminium fluorides*

NT1 *americium fluorides*

NT1 *ammonium fluorides*

NT1 *antimony fluorides*

NT1 *argon fluorides*

NT1 *arsenic fluorides*

NT1 *barium fluorides*

NT1 *berkelium fluorides*

NT1 *beryllium fluorides*

NT1 *bismuth fluorides*

NT1 *boron fluorides*

NT1 *bromine fluorides*

NT1 *cadmium fluorides*

NT1 *calcium fluorides*

**NT1** californium fluorides  
**NT1** carbon fluorides  
**NT1** cerium fluorides  
**NT1** cesium fluorides  
**NT1** chlorine fluorides  
**NT1** chromium fluorides  
**NT1** cobalt fluorides  
**NT1** copper fluorides  
**NT1** curium fluorides  
**NT1** dysprosium fluorides  
**NT1** erbium fluorides  
**NT1** europium fluorides  
**NT1** gadolinium fluorides  
**NT1** gallium fluorides  
**NT1** germanium fluorides  
**NT1** gold fluorides  
**NT1** hafnium fluorides  
**NT1** holmium fluorides  
**NT1** indium fluorides  
**NT1** iodine fluorides  
**NT1** iridium fluorides  
**NT1** iron fluorides  
**NT1** krypton fluorides  
**NT1** lanthanum fluorides  
**NT1** lead fluorides  
**NT1** lithium fluorides  
**NT1** lutetium fluorides  
**NT1** magnesium fluorides  
**NT1** manganese fluorides  
**NT1** mercury fluorides  
**NT1** molybdenum fluorides  
**NT1** neodymium fluorides  
**NT1** neon fluorides  
**NT1** neptunium fluorides  
**NT1** nickel fluorides  
**NT1** niobium fluorides  
**NT1** nitrogen fluorides  
**NT1** osmium fluorides  
**NT1** palladium fluorides  
**NT1** phosphorus fluorides  
**NT1** platinum fluorides  
**NT1** plutonium fluorides  
**NT1** potassium fluorides  
**NT1** praseodymium fluorides  
**NT1** promethium fluorides  
**NT1** protactinium fluorides  
**NT1** radon fluorides  
**NT1** rhenium fluorides  
**NT1** rhodium fluorides  
**NT1** rubidium fluorides  
**NT1** ruthenium fluorides  
**NT1** samarium fluorides  
**NT1** scandium fluorides  
**NT1** selenium fluorides  
**NT1** silicon fluorides  
**NT1** silver fluorides  
**NT1** sodium fluorides  
**NT1** strontium fluorides  
**NT1** sulfur fluorides  
**NT1** tantalum fluorides  
**NT1** technetium fluorides  
**NT1** tellurium fluorides  
**NT1** terbium fluorides  
**NT1** thallium fluorides  
**NT1** thorium fluorides  
**NT1** thulium fluorides  
**NT1** tin fluorides  
**NT1** titanium fluorides  
**NT1** tungsten fluorides  
**NT1** uranium fluorides  
**NT2** uranium hexafluoride  
**NT2** uranium pentafluoride  
**NT2** uranium tetrafluoride  
**NT1** uranyl fluorides  
**NT1** vanadium fluorides  
**NT1** xenon fluorides  
**NT1** ytterbium fluorides  
**NT1** yttrium fluorides  
**NT1** zinc fluorides

**NT1** zirconium fluorides  
*RT* fluorine additions  
*RT* hydrofluoric acid  
*RT* oxyfluorides

## FLUORIMETERS

*Instrument for measuring fluorescent radiation emitted by a sample exposed to monochromatic radiation, used in chemical analysis or to determine the intensity of the radiation producing fluorescence.*

*UF* fluorometers  
**BT1** measuring instruments  
*RT* fluorescence spectroscopy

## fluorimetry

USE fluorescence spectroscopy

## FLUORINATED ALICYCLIC HYDROCARBONS

2000-04-12

\*BT1 halogenated alicyclic hydrocarbons  
 \*BT1 organic fluorine compounds

## FLUORINATED ALIPHATIC HYDROCARBONS

1991-09-30

(Prior to October 1991, this concept was indexed by ORGANIC FLUORINE COMPOUNDS.)

*UF* poly(vinylidene fluoride)  
 \*BT1 halogenated aliphatic hydrocarbons  
 \*BT1 organic fluorine compounds  
**NT1** carbon tetrafluoride  
**NT1** fluoroform  
**NT1** methyl fluoride  
**NT1** polytetrafluoroethylene  
**NT2** teflon  
**NT1** tedlar  
*RT* chlorofluorocarbons

## FLUORINATED AROMATIC HYDROCARBONS

1991-10-01

\*BT1 halogenated aromatic hydrocarbons  
 \*BT1 organic fluorine compounds

## fluorinated hydrocarbons

ETDE: 2002-06-13

USE organic fluorine compounds

## FLUORINATION

\*BT1 halogenation

## FLUORINE

*UF* fluorine fluorides  
 \*BT1 halogens

## FLUORINE 14

\*BT1 fluorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 proton decay radioisotopes

## FLUORINE 15

INIS: 1978-11-24; ETDE: 1978-09-11

\*BT1 fluorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei

## FLUORINE 16

\*BT1 fluorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei

## FLUORINE 16 TARGET

INIS: 1992-09-22; ETDE: 1977-05-07

BT1 targets

## FLUORINE 17

\*BT1 beta-plus decay radioisotopes  
 \*BT1 fluorine isotopes  
 \*BT1 light nuclei

\*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

## FLUORINE 17 TARGET

1998-01-29

BT1 targets

## FLUORINE 18

\*BT1 beta-plus decay radioisotopes  
 \*BT1 fluorine isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 light nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-odd nuclei

## FLUORINE 18 TARGET

INIS: 1980-04-02; ETDE: 1979-08-09

BT1 targets

## FLUORINE 19

\*BT1 fluorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes  
*RT* fluorine 19 reactions

## FLUORINE 19 BEAMS

INIS: 1976-10-07; ETDE: 1976-11-01

\*BT1 ion beams

## FLUORINE 19 REACTIONS

\*BT1 heavy ion reactions  
*RT* fluorine 19

## FLUORINE 19 TARGET

ETDE: 1976-07-09

BT1 targets

## FLUORINE 20

\*BT1 beta-minus decay radioisotopes  
 \*BT1 fluorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

## FLUORINE 21

\*BT1 beta-minus decay radioisotopes  
 \*BT1 fluorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

## FLUORINE 22

\*BT1 beta-minus decay radioisotopes  
 \*BT1 fluorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

## FLUORINE 23

\*BT1 beta-minus decay radioisotopes  
 \*BT1 fluorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

## FLUORINE 24

\*BT1 beta-minus decay radioisotopes  
 \*BT1 fluorine isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

## FLUORINE 25

\*BT1 beta-minus decay radioisotopes  
 \*BT1 fluorine isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei

## FLUORINE 26

INIS: 1980-07-24; ETDE: 1980-02-11

\*BT1 beta-minus decay radioisotopes  
 \*BT1 fluorine isotopes



- \*BT1 light nuclei
- \*BT1 odd-odd nuclei

**FLUORINE 27**

*INIS: 1986-04-02; ETDE: 1981-12-14*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 fluorine isotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei

**FLUORINE 29**

*INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 fluorine isotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei

**FLUORINE ADDITIONS**

*1989-07-20*

- RT* crystal doping
- RT* doped materials
- RT* fluorides

**fluorine bromides**

- USE bromine fluorides

**fluorine chlorides**

- USE chlorine fluorides

**FLUORINE COMPLEXES**

- BT1 complexes

**FLUORINE COMPOUNDS**

- BT1 halogen compounds
- NT1 fluorates
- NT1 fluorides
  - NT2 aluminium fluorides
  - NT2 americium fluorides
  - NT2 ammonium fluorides
  - NT2 antimony fluorides
  - NT2 argon fluorides
  - NT2 arsenic fluorides
  - NT2 barium fluorides
  - NT2 berkelium fluorides
  - NT2 beryllium fluorides
  - NT2 bismuth fluorides
  - NT2 boron fluorides
  - NT2 bromine fluorides
  - NT2 cadmium fluorides
  - NT2 calcium fluorides
  - NT2 californium fluorides
  - NT2 carbon fluorides
  - NT2 cerium fluorides
  - NT2 cesium fluorides
  - NT2 chlorine fluorides
  - NT2 chromium fluorides
  - NT2 cobalt fluorides
  - NT2 copper fluorides
  - NT2 curium fluorides
  - NT2 dysprosium fluorides
  - NT2 erbium fluorides
  - NT2 europium fluorides
  - NT2 gadolinium fluorides
  - NT2 gallium fluorides
  - NT2 germanium fluorides
  - NT2 gold fluorides
  - NT2 hafnium fluorides
  - NT2 holmium fluorides
  - NT2 indium fluorides
  - NT2 iodine fluorides
  - NT2 iridium fluorides
  - NT2 iron fluorides
  - NT2 krypton fluorides
  - NT2 lanthanum fluorides
  - NT2 lead fluorides
  - NT2 lithium fluorides
  - NT2 lutetium fluorides
  - NT2 magnesium fluorides
  - NT2 manganese fluorides
  - NT2 mercury fluorides
  - NT2 molybdenum fluorides
  - NT2 neodymium fluorides

- NT2 neon fluorides
- NT2 neptunium fluorides
- NT2 nickel fluorides
- NT2 niobium fluorides
- NT2 nitrogen fluorides
- NT2 osmium fluorides
- NT2 palladium fluorides
- NT2 phosphorus fluorides
- NT2 platinum fluorides
- NT2 plutonium fluorides
- NT2 potassium fluorides
- NT2 praseodymium fluorides
- NT2 promethium fluorides
- NT2 protactinium fluorides
- NT2 radon fluorides
- NT2 rhenium fluorides
- NT2 rhodium fluorides
- NT2 rubidium fluorides
- NT2 ruthenium fluorides
- NT2 samarium fluorides
- NT2 scandium fluorides
- NT2 selenium fluorides
- NT2 silicon fluorides
- NT2 silver fluorides
- NT2 sodium fluorides
- NT2 strontium fluorides
- NT2 sulfur fluorides
- NT2 tantalum fluorides
- NT2 technetium fluorides
- NT2 tellurium fluorides
- NT2 terbium fluorides
- NT2 thallium fluorides
- NT2 thorium fluorides
- NT2 thulium fluorides
- NT2 tin fluorides
- NT2 titanium fluorides
- NT2 tungsten fluorides
- NT2 uranium fluorides
  - NT3 uranium hexafluoride
  - NT3 uranium pentafluoride
  - NT3 uranium tetrafluoride
- NT2 uranyl fluorides
- NT2 vanadium fluorides
- NT2 xenon fluorides
- NT2 ytterbium fluorides
- NT2 yttrium fluorides
- NT2 zinc fluorides
- NT2 zirconium fluorides
- NT1 fluorine oxides
- NT1 fluoroborates
- NT1 fluoroboric acid
- NT1 hydrofluoric acid
- NT1 hypofluorous acid
- NT1 oxyfluorides
- RT* organic fluorine compounds

**fluorine fluorides**

- USE fluorine

**fluorine iodides**

- USE iodine fluorides

**FLUORINE IONS**

- \*BT1 ions

**FLUORINE ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 fluorine 14
- NT1 fluorine 15
- NT1 fluorine 16
- NT1 fluorine 17
- NT1 fluorine 18
- NT1 fluorine 19
- NT1 fluorine 20
- NT1 fluorine 21
- NT1 fluorine 22
- NT1 fluorine 23
- NT1 fluorine 24
- NT1 fluorine 25

- NT1 fluorine 26
- NT1 fluorine 27
- NT1 fluorine 29

**FLUORINE OXIDES**

- UF* oxygen fluorides
- \*BT1 fluorine compounds
- \*BT1 oxides
- RT* oxyfluorides

**FLUORITE**

- \*BT1 halide minerals
- RT* calcium fluorides

**FLUOROBORATES**

*1999-04-07*

- BT1 boron compounds
- \*BT1 fluorine compounds
- RT* boron fluorides
- RT* fluoroboric acid

**FLUOROBORIC ACID**

*INIS: 1991-09-16; ETDE: 1985-02-22*

- BT1 boron compounds
- \*BT1 fluorine compounds
- \*BT1 inorganic acids
- RT* fluoroborates

**fluorod**

- USE rpl dosimeters

**FLUORODEOXYGLUCOSE**

*INIS: 1986-05-23; ETDE: 1985-10-25*

- \*BT1 antimetabolites
- RT* glucose

**fluorodeoxyuridine**

- USE fudr

**FLUOROFORM**

- \*BT1 fluorinated aliphatic hydrocarbons
- RT* hydrocarbons
- RT* methane

**fluorometers**

*ETDE: 2002-06-13*

- USE fluorimeters

**FLUOROSCOPY**

- \*BT1 biomedical radiography
- RT* image intensifiers
- RT* x radiation

**FLUOROURACILS**

- \*BT1 antimetabolites
- \*BT1 organic fluorine compounds
- \*BT1 uracils
- NT1 fudr

**fluorox process**

*1996-06-26*

(Until June 1996 this was a valid descriptor.)

- USE reprocessing

**fluors**

*INIS: 1975-12-17; ETDE: 1976-05-17*

- USE phosphors

**flurex process**

*2000-04-12*

(Prior to March 1996 this was a valid ETDE descriptor.)

- USE reprocessing

**FLUTE INSTABILITY**

- UF* interchange instability
- \*BT1 plasma macroinstabilities
- RT* hydrodynamics
- RT* mercier criterion

**flux (cosmic ray)**

- USE cosmic ray flux

**flux (magnetic)**

USE magnetic flux

**flux (metallurgy)**

USE metallurgical flux

**flux (neutron)**

USE neutron flux

**flux (radiation)**

INIS: 1976-03-25; ETDE: 1976-05-17

USE radiation flux

**flux conserving tokamaks**

INIS: 2000-04-12; ETDE: 1979-08-07

(Prior to February 1995, this was a valid ETDE descriptor.)

USE tokamak devices

**flux cored arc welding**

ETDE: 2002-06-13

USE arc welding

**FLUX DENSITY**

Coordinate with descriptors for the flux considered, e.g., MAGNETIC FLUX, NEUTRON FLUX, etc.

UF density (flux)

UF neutron flux density

NT1 radiant flux density

RT magnetic flux

RT poynting theorem

RT radiation flux

**flux jumps**

USE magnetic flux

**flux pinning**

USE magnetic flux

**FLUX PUMPS**

1975-08-22

A cryogenic dc generator.

UF superconducting flux pumps

\*BT1 electric generators

BT1 superconducting devices

**FLUX QUANTIZATION**

1975-10-09

RT magnetic flux

RT superconductivity

**flux surfaces**

INIS: 1988-11-16; ETDE: 2002-06-13

USE magnetic surfaces

**FLUX SYNTHESIS**

RT neutron diffusion equation

RT neutron flux

**FLUXGATE MAGNETOMETERS**

UF saturable core magnetometers

\*BT1 magnetometers

**FLUXMETERS**

BT1 measuring instruments

NT1 squid devices

RT magnetometers

**fluxoids**

USE magnetic flux

**FLY ASH**

UF pulverized fuel ash

\*BT1 aerosol wastes

\*BT1 ashes

RT air pollution

RT lime-soda sinter process

RT particulates

RT solid wastes

**FLYING SPOT DIGITIZERS**

Mechanical flying spot digitizers; see also CATHODE RAY TUBE DIGITIZERS.

UF fsd devices

UF hough-powell devices

UF hpd devices

\*BT1 digitizers

**FLYWHEEL ENERGY STORAGE**

INIS: 1993-03-25; ETDE: 1976-10-13

\*BT1 energy storage

RT flywheel-powered vehicles

RT flywheels

**FLYWHEEL-POWERED VEHICLES**

INIS: 2000-04-12; ETDE: 1979-03-27

BT1 vehicles

RT flywheel energy storage

RT flywheels

**FLYWHEELS**

\*BT1 energy storage systems

BT1 mechanical energy storage equipment

BT1 rotors

RT energy storage

RT flywheel energy storage

RT flywheel-powered vehicles

**fm cyclotrons**

INIS: 1985-10-23; ETDE: 2002-06-13

Frequency-modulated cyclotrons.

USE synchrocyclotrons

**FM DEVICES**

Floating multipoles.

\*BT1 internal ring devices

RT multipolar configurations

**FMC DOUBLE ALKALI PROCESS**

INIS: 2000-04-12; ETDE: 1979-05-25

Desulfurization process in which sulfur dioxide is absorbed in sodium sulfite forming bisulfite. This solution is reacted with slaked lime to form solid calcium sulfite and regenerate the sodium sulfite.

\*BT1 desulfurization

RT waste processing

**fmit facility**

INIS: 2000-04-12; ETDE: 1979-08-09

USE fmit linac

**FMIT LINAC**

INIS: 1979-12-20; ETDE: 1980-01-24

Linear accelerator at the Hanford Fusion Materials Irradiation Test facility.

UF fmit facility

\*BT1 linear accelerators

RT materials testing

RT quadrupole linacs

RT thermonuclear reactor materials

**FMRB REACTOR**

Physikalisch-Technische Bundesanstalt, Braunschweig, Niedersachsen, Federal Republic of Germany.

UF braunschweig experimental reactor

UF braunschweig research reactor

UF forschungs und messreaktor braunschweig

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 test reactors

**FNR REACTOR**

Univ. of Michigan, Ann Arbor, Michigan, USA.

UF ford nuclear reactor

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 training reactors

**foam-lift cycles**

INIS: 2000-04-12; ETDE: 1980-08-12

(Prior to February 1995, this was a valid ETDE descriptor.)

USE lift cycles

**FOAM SEPARATION**

BT1 separation processes

RT flotation

RT foams

**FOAMS**

\*BT1 colloids

NT1 plastic foams

NT1 urea-formaldehyde foams

RT boiling detection

RT bubbles

RT foam separation

**foce verde reactor**

USE latina reactor

**fock method**

USE hartree-fock method

**FOCK REPRESENTATION**

RT mathematical space

RT quantum field theory

**fock self-consistent field**

USE hartree-fock method

**FOCUSING**

RT beam optics

RT beam shaping

RT tomography

**FOCUSONS**

1976-03-17

Focused collision sequences behaving like particles in solids.

BT1 quasi particles

**focussed logging**

INIS: 2000-06-27; ETDE: 1979-05-02

USE resistivity logging

**fodder**

INIS: 1975-11-27; ETDE: 2002-06-13

USE animal feeds

**FOG**

INIS: 1999-03-17; ETDE: 1977-03-08

RT atmospheric precipitations

RT vapor condensation

RT visibility

RT water vapor

**fog (sprays)**

USE sprays

**FOG COOLED REACTORS**

BT1 reactors

RT core spray systems

RT fog cooling

**FOG COOLING**

BT1 cooling

RT core spray systems

RT fog cooled reactors

RT spray cooling

**FOILS**

Thinner than plates or sheets.

RT films

RT plates

RT sheets

**fokker-planck coefficients**

USE fokker-planck equation

**FOKKER-PLANCK EQUATION**

UF *bessel differential equation*

UF *fokker-planck coefficients*

SF *kolmogorov equation*

\*BT1 partial differential equations

RT ionized gases

RT transport theory

**FOLDING MODEL**

INIS: 1989-11-24; ETDE: 1989-12-08

\*BT1 nuclear models

**FOLDY-WOUTHUYSEN****TRANSFORM**

\*BT1 canonical transformations

RT dirac equation

**foliage**

USE leaves

**FOLIAR UPTAKE**

UF *absorption (leaves)*

BT1 uptake

RT leaves

**FOLIC ACID**

UF *formylpteroic acid*

UF *pteroylglutamic acid*

UF *rhizopterin*

\*BT1 amino acids

\*BT1 hematinics

\*BT1 hydroxy compounds

\*BT1 pteridines

\*BT1 vitamin b group

RT anemias

RT blood coagulation factors

RT citrovorum factor

RT paba

**folinic acid**

USE citrovorum factor

**follicle stimulating hormone**

USE fsh

**fong-newton theory**

1996-07-18

(Prior to March 1997 FONG THEORY was used for this conceptin ETDE.)

SEE fission products

**fong theory**

1996-07-18

(Until July 1996 this was a valid descriptor.)

SEE fission products

**fontenay-aux-roses (cea)**

USE cea fontenay-aux-roses

**fontina event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**FOOD**

UF *condiments*

UF *foodstuffs*

UF *seasonings*

NT1 animal feeds

NT2 forage

NT1 beverages

NT1 bread

NT1 cocoa products

NT1 flour

NT1 fruits

NT2 apples

NT2 apricots

NT2 avocados

NT2 bananas

NT2 berries

NT3 blueberries

NT3 raspberries

NT3 strawberries

NT2 cherries

NT2 coconuts

NT2 dates

NT2 figs

NT2 grapefruits

NT2 grapes

NT2 lemons

NT2 mangoes

NT2 nuts

NT3 chestnuts

NT2 olives

NT2 oranges

NT2 papayas

NT2 peaches

NT2 pears

NT2 pineapples

NT2 plums

NT2 tomatoes

NT1 honey

NT1 meat

NT1 milk

NT1 milk products

NT2 butter

NT2 cheese

NT2 whey

NT1 molasses

NT1 seafood

NT1 vegetables

NT2 beans

NT3 mungbeans

NT2 beets

NT3 sugar beets

NT2 brassica

NT3 kale

NT2 carrots

NT2 cucumbers

NT2 garlic

NT2 lettuce

NT2 onions

NT3 allium cepa

NT2 peas

NT2 peppers

NT2 potatoes

NT2 radishes

NT2 soybeans

NT2 spinach

NT2 yams

RT agriculture

RT biological materials

RT carbohydrates

RT cassava

RT cereals

RT consumer products

RT crops

RT diet

RT drinking water

RT eggs

RT fao

RT fats

RT feeding

RT fishes

RT food additives

RT food chains

RT food processing

RT fowl

RT ifip

RT ingestion

RT nutrients

RT nutrition

RT organoleptic properties

RT preservation

RT proteins

RT radappertization

RT radication

RT radiopreservation

RT radurization

RT restaurants

RT seeds

RT spices

RT sterilization

RT vitamins

RT wholesomeness

**FOOD ADDITIVES**

INIS: 1992-03-26; ETDE: 1992-02-05

BT1 additives

RT animal feeds

RT diet

RT drugs

RT food

RT vitamins

**food and agriculture organization**

2000-04-12

USE fao

**food and drug administration**

INIS: 1978-11-27; ETDE: 1978-06-14

USE us fda

**FOOD CHAINS**

RT diet

RT environmental exposure pathway

RT fallout deposits

RT food

RT plaice

RT predator-prey interactions

RT radioecological concentration

RT radionuclide migration

**food disposers**

INIS: 2000-04-12; ETDE: 1977-06-21

(Prior to September 1994, this was a valid ETDE descriptor.)

SEE electric appliances

**FOOD INDUSTRY**

INIS: 1992-03-18; ETDE: 1977-01-10

BT1 industry

NT1 dairy industry

NT1 meat industry

RT beverage industry

RT food processing

RT restaurants

RT whey

**food irradiation**

2000-04-12

USE food processing

USE irradiation

**food irradiation (radiopasteurization)**

INIS: 1993-11-08; ETDE: 2002-06-13

USE radication

**food irradiation (radiopreservation)**

INIS: 1993-11-08; ETDE: 2002-06-13

USE radurization

**food irradiation (radiosterilization)**

INIS: 1993-11-08; ETDE: 1995-05-05

USE radappertization

**FOOD PROCESSING**

INIS: 2000-02-01; ETDE: 1976-07-07

*Processing of food by individuals or large-scale commercial establishments.*

UF *baking (food)*

UF *canning (food)*

UF *cooking (food)*

UF *food irradiation*

UF *freezing (food)*

UF *processing (food)*

SF *cooking*

BT1 processing

NT1 pasteurization

NT2 radication

NT1 radappertization

**NT1** radurization  
*RT* food  
*RT* food industry  
*RT* heat treatments  
*RT* preservation  
*RT* radiopreservation  
*RT* storage life

**foodstuffs**

USE food

**FORAGE**

\*BT1 animal feeds  
 BT1 plants  
*RT* cattle  
*RT* clover  
*RT* glycine hispida  
*RT* gramineae  
*RT* grazing  
*RT* pastures

**FORAMINIFERA**

*INIS: 1992-04-27; ETDE: 1976-05-13*  
*An order of sarcodine protozoa, characterized by delicate calcareous shells with holes through which pseudopods are extruded.*  
 \*BT1 sarcodina

**FORATOM**

*INIS: 1978-02-23; ETDE: 1978-04-28*  
*Forum Atomique Europeen.*  
 BT1 international organizations

**FORBIDDEN TRANSITIONS**

*UF* transitions (forbidden)  
 BT1 energy-level transitions  
*RT* decay  
*RT* selection rules

**FORBUSH DECREASE**

*UF* forbush depression  
*UF* forbush event  
*RT* cosmic radiation  
*RT* magnetic storms  
*RT* solar flares  
*RT* solar wind

**forbush depression**

USE forbush decrease

**forbush event**

USE forbush decrease

**FORCE-FREE MAGNETIC FIELDS**

BT1 magnetic fields  
*RT* astrophysics

**FORCED CONVECTION**

*Heat transfer by forced convection.*  
*UF* forced draft cooling towers  
*UF* mechanical draft cooling towers  
 \*BT1 convection  
*RT* nusselt number

**forced draft cooling towers**

2000-04-12  
 (Prior to March 1997 MECHANICAL DRAFT COOLING TOWERS was used for this concept in ETDE.)  
 USE cooling towers  
 USE forced convection

**forcing functions**

*INIS: 2000-04-12; ETDE: 1986-11-20*  
*Forces exerted on a system or system component.*  
 (Prior to February 1997 this was a valid ETDE descriptor.)  
 SEE functions

**ford nuclear reactor**

USE fnr reactor

**FORECASTING**

*UF* prediction  
 NT1 delphi method  
 NT1 projection series  
*RT* cost estimation  
*RT* deterministic estimation  
*RT* economic policy  
*RT* economy  
*RT* evaluation  
*RT* management  
*RT* market  
*RT* planning  
*RT* probabilistic estimation  
*RT* regression analysis  
*RT* schedules  
*RT* time-series analysis  
*RT* weather

**FOREIGN EXCHANGE RATE**

*INIS: 1992-07-23; ETDE: 1980-03-29*  
*The price of one currency in terms of another.*  
*UF* exchange rate  
*RT* economics  
*RT* trade

**FOREIGN POLICY**

*INIS: 1996-01-09; ETDE: 1976-08-04*  
*SF* policy  
 BT1 government policies  
*RT* economic policy  
*RT* embargoes  
*RT* energy policy  
*RT* exports  
*RT* imports  
*RT* international agreements  
*RT* international cooperation  
*RT* military assistance  
*RT* salt talks

**forensic science**

*INIS: 2000-04-12; ETDE: 1978-08-07*  
 USE crime detection

**FORESHOCKS**

*INIS: 2000-04-12; ETDE: 1978-07-05*  
*Small tremors that commonly precede a larger earthquake by seconds to weeks and that originate at or near the focus of the larger earthquake.*  
*RT* aftershocks  
*RT* earthquakes

**FOREST LITTER**

*Natural organic debris on the forest floor.*  
 \*BT1 biological materials  
*RT* coppices  
*RT* ecosystems  
*RT* forests  
*RT* humus  
*RT* leaves

**FORESTRY**

*INIS: 1992-03-27; ETDE: 1977-07-23*  
 NT1 silviculture  
*RT* deforestation  
*RT* forests  
*RT* harvesting equipment  
*RT* paper industry  
*RT* short rotation cultivation  
*RT* wood products industry

**FORESTS**

NT1 coppices  
*RT* canopies  
*RT* deforestation  
*RT* forest litter  
*RT* forestry  
*RT* ground cover  
*RT* interception  
*RT* stand density  
*RT* terrestrial ecosystems

*RT* throughfall  
*RT* trees

**FORGE WELDING**

*UF* roll welding  
 \*BT1 welding

**FORGING**

\*BT1 materials working  
*RT* cold working  
*RT* dies  
*RT* hot working  
*RT* presses  
*RT* pressing  
*RT* swaging

**FORKED RIVER-1 REACTOR**

*Jersey Central Power and Light Co., Forked River, New Jersey, USA. Canceled in 1980 before construction began.*  
*UF* oyster creek-2 reactor  
 \*BT1 pwr type reactors

**FORM FACTORS**

BT1 dimensionless numbers  
 BT1 particle properties  
 NT1 dirac form factors  
 NT1 electromagnetic form factors  
 NT1 pauli form factors  
*RT* nuclear reactions  
*RT* vertex functions

**formal (methylal)**

USE methylal

**FORMALDEHYDE**

*UF* formalin  
*UF* formalith  
*UF* formic aldehyde  
*UF* formol  
*UF* oxymethylene  
 \*BT1 aldehydes  
*RT* bakelite  
*RT* formyl radicals  
*RT* methylal  
*RT* polyoxymethylenes  
*RT* urea-formaldehyde foams

**FORMALDEHYDE FUEL CELLS**

*INIS: 2000-04-12; ETDE: 1976-01-07*  
 \*BT1 fuel cells

**formaldehydedimethylacetal**

USE methylal

**formalin**

USE formaldehyde

**formalith**

USE formaldehyde

**FORMAMIDE**

\*BT1 amides  
*RT* formic acid

**FORMATE FUEL CELLS**

2000-04-12  
 \*BT1 fuel cells

**FORMATES**

1976-02-24  
 BT1 carboxylic acid salts  
*RT* formic acid

**formation (synthesis)**

1975-10-22  
 USE synthesis

**FORMATION DAMAGE**

*INIS: 1992-08-13; ETDE: 1983-01-21*  
*Damage to rock surrounding a borehole that adversely affects well productivity.*  
*UF* condition ratio

UF damage factor  
 UF damage ratio  
 UF damage zone  
 UF improvement ratio  
 UF permeability damage  
 UF permeability reduction  
 UF porosity reduction  
 UF productivity factor  
 UF skin damage  
 UF skin effect (well)  
 UF well bore damage  
 UF well skin effect  
 RT boreholes  
 RT geologic formations  
 RT porosity  
 RT reservoir rock  
 RT wells

**formation enthalpy**

INIS: 1975-09-01; ETDE: 2002-06-13

USE formation heat

**FORMATION FREE ENERGY**

\*BT1 free energy  
 RT formation heat

**FORMATION FREE ENTHALPY**

INIS: 1976-03-25; ETDE: 1976-05-17

UF gibbs formation free energy

\*BT1 free enthalpy  
 RT entropy  
 RT formation heat

**FORMATION HEAT**

UF enthalpy of formation  
 UF formation enthalpy  
 UF heat of formation  
 \*BT1 reaction heat  
 RT dissociation energy  
 RT dissociation heat  
 RT formation free energy  
 RT formation free enthalpy  
 RT thermochemical heat storage

**formation pressure**

INIS: 1986-07-09; ETDE: 1978-09-11

USE reservoir pressure

**formation water**

INIS: 1994-08-26; ETDE: 1976-11-17

USE interstitial water

**FORMED COKE PROCESSES**

INIS: 2000-04-12; ETDE: 1976-08-24

Processes for forming compressed coal briquets of uniform size and with sufficient strength after carbonization for blast furnace use.

RT briquetting  
 RT coke  
 RT coke ovens

**former yugoslav republic of macedonia**

INIS: 1997-06-05; ETDE: 1998-04-10

USE the former yugoslav republic of macedonia

**FORMIC ACID**

\*BT1 monocarboxylic acids  
 RT formamide  
 RT formates

**FORMIC ACID FUEL CELLS**

INIS: 2000-04-12; ETDE: 1976-04-19

\*BT1 fuel cells

**formic aldehyde**

USE formaldehyde

**forming (materials)**

USE materials working

**formol**

USE formaldehyde

**formosa**

2000-04-12

USE taiwan

**FORMVAR**

\*BT1 plastics  
 \*BT1 polyacetals

**FORMYL RADICALS**

\*BT1 acyl radicals  
 RT formaldehyde

**formylpteroic acid**

USE folic acid

**forschungs und messreaktor braunschweig**

USE fmr reactor

**forschungsreaktor-2 frankfurt**

USE frf-2 reactor

**forschungsreaktor berlin-2**

USE ber-2 reactor

**forschungsreaktor frankfurt**

USE frf reactor

**forschungsreaktor geesthacht-1**

USE fig-1 reactor

**forschungsreaktor geesthacht-2**

USE fig-2 reactor

**forschungsreaktor muenchen**

USE frm reactor

**forschungsreaktor neuherberg**

USE frn reactor

**FORSCHUNGSZENTRUM JUELICH**

1995-03-27

Until March 1995 this was known as

KERNFORSCHUNGSANLAGE JUELICH.

UF juelich (kernforschungsanlage)

UF kernforschungsanlage juelich

\*BT1 german fr organizations

**FORSCHUNGSZENTRUM****KARLSRUHE**

1995-10-25

Until October 1995 this was known as

KERNFORSCHUNGSZENTRUM

KARLSRUHE.

UF karlsruhe (forschungszentrum)

UF karlsruhe (kernforschungszentrum)

UF karlsruhe nuclear research center

UF kernforschungszentrum karlsruhe

\*BT1 german fr organizations

**FORSMARK-1 REACTOR**

Oesthammar, Uppsala, Sweden.

\*BT1 bwr type reactors

**FORSMARK-2 REACTOR**

INIS: 1977-02-08; ETDE: 1977-04-13

Oesthammar, Uppsala, Sweden.

\*BT1 bwr type reactors

**FORSMARK-3 REACTOR**

INIS: 1976-09-06; ETDE: 1976-11-01

Oesthammar, Uppsala, Sweden.

\*BT1 bwr type reactors

**fort calhoun-1 reactor**

INIS: 1999-04-15; ETDE: 1978-09-13

USE calhoun-1 reactor

**fort calhoun-2 reactor**

INIS: 1999-04-15; ETDE: 1978-09-13

USE calhoun-2 reactor

**fort shevchenko reactor**

USE bn-350 reactor

**fort st. vrain reactor**

USE vrain reactor

**fort worth astr reactor**

2000-04-12

USE astr reactor

**fort worth gtr reactor**

USE gtr reactor

**forth**

INIS: 2000-04-12; ETDE: 1986-09-05

(Prior to September 1994, this was a valid ETDE descriptor.)

USE programming languages

**fortissimo reactor**

INIS: 2000-04-12; ETDE: 1975-08-19

USE rapsodie reactor

**FORTRAN**

BT1 programming languages

**FOSSIL-FUEL POWER PLANTS**

1997-06-19

UF mine-mouth generating plants

UF san juan power plant

\*BT1 thermal power plants

NT1 kingston steam plant

NT1 paradise steam plant

NT1 shawnee steam plant

NT1 widows creek steam plant

RT boiler fuels

RT coal-fired gas turbines

RT mhd power plants

RT solar repowering

RT us power plant and industrial fuel use act

**fossil fuel reserves**

USE fossil fuels

USE reserves

**FOSSIL FUELS**

UF fossil fuel reserves

BT1 energy sources

BT1 fuels

NT1 coal

NT2 black coal

NT3 anthracite

NT3 bituminous coal

NT2 brown coal

NT3 lignite

NT2 coal fines

NT2 sapropelic coal

NT3 boghead coal

NT4 torbanite

NT3 cannel coal

NT2 subbituminous coal

NT1 natural gas

NT2 abiogenic gas

NT2 liquefied natural gas

NT1 oil sands

NT1 oil shales

NT2 black shales

NT1 peat

NT1 petroleum

NT2 petroleum fractions

NT3 petroleum distillates

NT4 gas oils

NT5 diesel fuels

NT5 fuel oils

NT6 heating oils

NT6 residual fuels

**NT5** kerosene  
**NT3** petroleum residues  
**NT3** refinery gases  
**NT2** residual petroleum  
**NT2** shale oil  
**NT3** shale oil fractions  
**NT2** sour crudes  
*RT* briquets  
*RT* coke  
*RT* fuel feeding systems  
*RT* fuel substitution  
*RT* us power plant and industrial fuel use act

**FOSSILS**

*INIS: 1980-07-24; ETDE: 1978-02-14*  
*Remains, traces, or imprints of organisms preserved in the earth's crust some time in geologic past.*

*UF* plant fossils  
*UF* skeletal fossils  
*RT* animals  
*RT* archaeological specimens  
*RT* biological evolution  
*RT* paleoclimatology  
*RT* paleontology  
*RT* sedimentary rocks

**foster wheeler gasification process**

*INIS: 2000-04-12; ETDE: 1977-05-07*  
 USE combined-cycle fw process

**foucault current**

2000-04-12  
*Current induced in interior of conductors by variations of magnetic flux. Current induced in interior of conductors by variations of magnetic flux.*  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE electric currents  
 USE magnetic flux

**FOULING**

*INIS: 1996-05-14; ETDE: 1975-11-28*  
*Deposition of unwanted materials on equipment, e.g., heat exchangers, usually in a water environment.*

**NT1** biological fouling  
*RT* antifoulants  
*RT* contamination  
*RT* corrosion  
*RT* deposition  
*RT* deposits  
*RT* filters  
*RT* impingement  
*RT* screens  
*RT* water pollution

**FOUNDATIONS**

1975-12-17  
*UF* building foundations  
*UF* piles  
 \*BT1 supports  
*RT* basements  
*RT* buildings  
*RT* construction  
*RT* soil-structure interactions

**FOUNDRIES**

*INIS: 1993-06-04; ETDE: 1976-08-04*  
 BT1 industrial plants  
*RT* casting  
*RT* metal industry

**FOUR-BODY PROBLEM**

BT1 many-body problem

**FOUR-DIMENSIONAL CALCULATIONS**

*UF* 4-dimensional calculations

*UF* calculations (4-dimensional)  
*RT* many-dimensional calculations  
*RT* mathematics

**four-fermion interaction**

USE fermi interactions

**FOUR MOMENTUM TRANSFER**

*INIS: 1978-02-23; ETDE: 1978-04-28*  
*UF* transfer (four momentum)  
*UF* transfer (q-squared)  
 BT1 momentum transfer  
*RT* cross sections  
*RT* electromagnetic form factors  
*RT* linear momentum transfer  
*RT* particle interactions  
*RT* rosenbluth formula  
*RT* scattering

**four-nucleon structure**

USE quartet model

**FOUR-NUCLEON TRANSFER REACTIONS**

\*BT1 multi-nucleon transfer reactions  
 NT1 alpha-transfer reactions

**FOUR-PI COUNTING**

BT1 counting techniques  
*RT* four-pi detectors

**FOUR-PI DETECTORS**

1994-06-29  
 \*BT1 radiation detectors  
*RT* four-pi counting

**four wave mixing**

*INIS: 2000-04-12; ETDE: 1986-01-14*  
 USE frequency mixing

**FOURIER ANALYSIS**

*UF* analysis (fourier)  
*RT* frequency analysis  
*RT* mathematics  
*RT* normal-mode analysis

**FOURIER HEAT EQUATION**

\*BT1 partial differential equations  
*RT* heat transfer

**FOURIER TRANSFORM SPECTROMETERS**

*INIS: 1991-10-22; ETDE: 1983-07-20*  
 \*BT1 spectrometers  
*RT* emission spectroscopy

**FOURIER TRANSFORMATION**

\*BT1 integral transformations

**FOURMARIERITE**

2000-04-12  
 \*BT1 uranium minerals  
*RT* lead oxides  
*RT* uranium oxides

**FOURTH SOUND**

*RT* sound waves  
*RT* superfluidity

**FOWL**

1997-06-17  
*UF* poultry  
 \*BT1 birds  
 NT1 chickens  
 NT1 ducks  
 NT1 geese  
*RT* food  
*RT* pigeons

**fowler equation**

USE fowler-nordheim theory

**FOWLER-NORDHEIM THEORY**

*UF* fowler equation

*RT* photoelectric effect

**FOXES**

*INIS: 1993-02-18; ETDE: 1985-03-12*  
*UF* urocyon  
*UF* vulpes  
 \*BT1 mammals  
*RT* coyotes  
*RT* dogs  
*RT* wild animals  
*RT* wolves

**fpc**

*INIS: 2000-04-12; ETDE: 1976-10-13*  
 USE us federal power commission

**fpc gas areas**

*INIS: 2000-04-12; ETDE: 1979-12-10*  
 USE ferc gas areas

**FR-0 REACTOR**

*UF* studsvik fr-0 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 fast reactors  
 \*BT1 research reactors  
 \*BT1 training reactors  
 \*BT1 zero power reactors

**FR-2 REACTOR**

*Gesellschaft fuer Kernforschung mbH, Karlsruhe, Baden-Wuerttemberg, Federal Republic of Germany.*

*UF* karlsruhe research reactor fr-2  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 natural uranium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

**fracer-fulco method**

USE dispersion relations

**FRACTALS**

*INIS: 1987-05-26; ETDE: 1987-06-09*  
*Fractals have structure which looks the same for any level of magnification.*  
*RT* metrics  
*RT* topology

**FRACTIONAL-PARENTAGE COEFFICIENTS**

*Numerical coefficients for proper antisymmetric combinations of wave functions for (n-1) and 1 particles to form wave functions for n-particle states.*

*RT* n\*baryons  
*RT* orbital angular momentum  
*RT* wave functions

**FRACTIONATED IRRADIATION**

*UF* dose fractionation  
*UF* split dose irradiation  
 BT1 irradiation  
*RT* cumulative radiation effects  
*RT* dose-response relationships  
*RT* radiation doses  
*RT* radiotherapy  
*RT* temporal dose distributions

**FRACTIONATION**

1985-12-10  
 BT1 separation processes  
*RT* dissolution  
*RT* distillation  
*RT* two-dimensional electrophoresis

**FRACTOGRAPHY**

*RT* ceramography  
*RT* fractures

RT metallography  
RT photomicrography

**FRACTURE MECHANICS**

INIS: 1980-09-12; ETDE: 1980-10-07

BT1 mechanics  
RT crack propagation  
RT cracks  
RT defects  
RT fracture properties  
RT fractures  
RT stress intensity factors

**FRACTURE PROPERTIES**

UF fracture strength  
UF fracture toughness  
UF strength (fracture)  
UF toughness (fracture)  
BT1 mechanical properties  
RT cracks  
RT failures  
RT fracture mechanics  
RT fractures  
RT helium embrittlement  
RT hydrogen embrittlement  
RT ruptures  
RT stress intensity factors

**fracture strength**

USE fracture properties

**fracture toughness**

USE fracture properties

**fractured formations**

INIS: 2000-04-12; ETDE: 1977-08-24  
USE fractured reservoirs

**FRACTURED RESERVOIRS**

INIS: 1992-04-29; ETDE: 1977-08-24  
UF fissured formations  
UF fractured formations  
BT1 geologic structures  
RT geologic fissures  
RT reservoir rock

**FRACTURES**

1995-09-08  
BT1 failures  
NT1 hydraulic fractures  
NT1 thermal fractures  
RT crack propagation  
RT cracks  
RT defects  
RT deformation  
RT explosive fracturing  
RT fractography  
RT fracture mechanics  
RT fracture properties  
RT fracturing  
RT fragmentation  
RT geologic fissures  
RT geologic fractures  
RT hydraulic fracturing  
RT ruptures  
RT stress intensity factors

**fractures (bone)**

USE bone fractures

**FRACTURING**

1981-02-27  
NT1 electrolinking  
NT1 explosive fracturing  
NT1 hydraulic fracturing  
NT1 thermal fracturing  
RT comminution  
RT fractures  
RT fragmentation  
RT surface mining  
RT underground mining

**FRACTURING FLUIDS**

INIS: 2000-04-12; ETDE: 1982-10-05  
UF hydraulic fracturing fluids  
BT1 fluids  
RT hydraulic fractures  
RT hydraulic fracturing  
RT well stimulation

**FRAGMENTATION**

1999-05-19  
See also NUCLEAR FRAGMENTATION.  
(Until August 1995 this concept was indexed to MECHANICAL FRAGMENTATION.)  
UF mechanical fragmentation  
UF shattering  
RT comminution  
RT crushing  
RT fractures  
RT fracturing

**fragmentation (limiting)**

INIS: 1975-11-27; ETDE: 2002-06-13  
USE limiting fragmentation

**fragments (decay)**

USE decay

**fragments (fallout)**

USE fallout

**fragments (fission)**

USE fission fragments

**fragments (nuclear)**

INIS: 1978-11-24; ETDE: 2002-06-13  
USE nuclear fragments

**fragments (particles)**

USE particles

**fragments (spallation)**

INIS: 1978-11-24; ETDE: 1978-12-20  
USE spallation fragments

**FRANCE**

1997-06-17  
BT1 developed countries  
\*BT1 western europe  
NT1 reunion island  
RT alps  
RT bay of biscay  
RT cea  
RT cnrs solar facility  
RT oecd  
RT rhine river  
RT rhone river  
RT souldz-sous-forets geothermal field

**francevillite**

1996-07-18  
(Until July 1996 this was a valid descriptor.)  
USE oxide minerals  
USE uranium minerals

**FRANCIUM**

\*BT1 alkali metals

**FRANCIUM 199**

INIS: 1999-07-21; ETDE: 2002-01-18  
\*BT1 alpha decay radioisotopes  
\*BT1 francium isotopes  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei

**FRANCIUM 200**

INIS: 1995-10-03; ETDE: 1995-09-22  
\*BT1 alpha decay radioisotopes  
\*BT1 francium isotopes  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

**FRANCIUM 201**

INIS: 1979-05-28; ETDE: 1979-09-06  
\*BT1 alpha decay radioisotopes  
\*BT1 francium isotopes  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei

**FRANCIUM 202**

INIS: 1979-05-28; ETDE: 1979-09-06  
\*BT1 alpha decay radioisotopes  
\*BT1 francium isotopes  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

**FRANCIUM 203**

\*BT1 alpha decay radioisotopes  
\*BT1 francium isotopes  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei

**FRANCIUM 204**

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 francium isotopes  
\*BT1 heavy nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**FRANCIUM 205**

\*BT1 alpha decay radioisotopes  
\*BT1 francium isotopes  
\*BT1 heavy nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**FRANCIUM 206**

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 francium isotopes  
\*BT1 heavy nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**FRANCIUM 207**

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 francium isotopes  
\*BT1 heavy nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**FRANCIUM 208**

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 francium isotopes  
\*BT1 heavy nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**FRANCIUM 209**

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 francium isotopes  
\*BT1 heavy nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**FRANCIUM 210**

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 francium isotopes  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**FRANCIUM 211**

\*BT1 alpha decay radioisotopes

- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 212**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 213**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 214**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 215**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 216**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 217**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 218**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 219**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 220**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 221**

- \*BT1 alpha decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 222**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 223**

- UF actinium k*
- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 224**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**FRANCIUM 225**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 226**

- INIS: 1976-07-06; ETDE: 1976-08-24*
- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 227**

- INIS: 1976-07-06; ETDE: 1975-08-19*
- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**FRANCIUM 228**

- INIS: 1976-07-06; ETDE: 1975-08-19*
- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 229**

- INIS: 1979-01-18; ETDE: 1975-08-19*
- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 230**

- INIS: 1979-05-28; ETDE: 1979-09-06*
- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 231**

- 1985-05-15*
- \*BT1 beta-minus decay radioisotopes
- \*BT1 francium isotopes

- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM 232**

- INIS: 1990-12-05; ETDE: 1991-01-15*
- \*BT1 francium isotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**FRANCIUM ADDITIONS**

- 1996-01-24*
- Alloys containing not more than 1% Fr are listed here.*
- \*BT1 francium alloys
- RT francium compounds*

**FRANCIUM ALLOYS**

- 2000-04-12*
- BT1 alloys
- NT1 francium additions

**francium chlorides**

- 1996-07-18*
- (Until July 1996 this was a valid descriptor.)*
- USE chlorides
- USE francium compounds

**francium complexes**

- 1996-07-18*
- (Until July 1996 this was a valid descriptor.)*
- USE alkali metal complexes

**FRANCIUM COMPOUNDS**

- 1996-07-18*
- UF francium chlorides*
- BT1 alkali metal compounds
- RT francium additions*

**FRANCIUM IONS**

- \*BT1 ions

**FRANCIUM ISOTOPES**

- 1999-07-16*
- BT1 isotopes
- NT1 francium 199
- NT1 francium 200
- NT1 francium 201
- NT1 francium 202
- NT1 francium 203
- NT1 francium 204
- NT1 francium 205
- NT1 francium 206
- NT1 francium 207
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- NT1 francium 230
- NT1 francium 231
- NT1 francium 232



**FRANCK-CONDON PRINCIPLE**

*RT* energy-level transitions

**franckenstein**

USE scanning measuring projectors

**franco-german high flux reactor**

USE grenoble reactor

**frank dislocations**

ETDE: 2002-06-13

USE screw dislocations

**frank loops**

USE screw dislocations

**frank-read source**

2000-04-12

*A source of dislocation loops in a strained crystal.*

(Prior to February 1995, this was a valid ETDE descriptor.)

SEE dislocations

**frankfurt research reactor**

USE frf reactor

**frankfurt research reactor-2**

USE frf-2 reactor

**FRANKIA**

INIS: 2000-04-12; ETDE: 1986-07-08

\*BT1 actinomycetes

*RT* mycorrhizas

*RT* nitrogen fixation

*RT* symbiosis

**FRASCATI LINAC**

\*BT1 linear accelerators

**FRASCATI SYNCHROTRON**

\*BT1 synchrotrons

**frascati tokamak**

INIS: 1983-10-14; ETDE: 1983-11-09

USE ft tokamak

**FRASER RIVER**

INIS: 2000-04-12; ETDE: 1975-11-11

\*BT1 rivers

*RT* canada

**FRAUD**

INIS: 2000-04-12; ETDE: 1983-05-21

BT1 crime

**FRAUNHOFER LINES**

*UF* fraunhofer spectrum

*RT* spectra

**fraunhofer spectrum**

USE fraunhofer lines

**frc**

USE federal radiation council

**FRCTF REACTOR**

LANL, Los Alamos, New Mexico, USA.

*UF* fast reactor core test facility

*UF* lampre-2 reactor

\*BT1 test reactors

**FREDHOLM EQUATION**

\*BT1 integral equations

**free convection**

USE natural convection

**FREE ELECTRON LASERS**

INIS: 1981-04-03; ETDE: 1979-01-30

BT1 lasers

**FREE ENERGY**

*UF* free energy (helmholtz)

*UF* helmholtz free energy

BT1 energy

\*BT1 thermodynamic properties

**NT1** formation free energy

**NT1** surface energy

*RT* affinity

**free energy (gibbs)**

USE free enthalpy

**free energy (helmholtz)**

USE free energy

**FREE ENTHALPY**

*UF* free energy (gibbs)

*UF* gibbs free energy

BT1 energy

\*BT1 thermodynamic properties

**NT1** formation free enthalpy

**NT1** oxygen potential

**free radicals**

USE radicals

**free steered vehicles**

INIS: 2000-04-12; ETDE: 1979-06-06

USE trackless vehicles

**FREEDOM OF INFORMATION ACT**

INIS: 2000-04-12; ETDE: 1976-09-29

BT1 laws

*RT* legislation

**freeze-cycle system**

INIS: 2000-04-12; ETDE: 1978-03-03

*System for recirculation of water from the heat storage tank, which requires that the circulating pump be started when the collector plate reaches a temperature slightly above freezing.*

(Prior to February 1995, this was a valid ETDE descriptor.)

SEE freeze protection

SEE solar heating systems

SEE solar water heaters

**freeze drying**

INIS: 2000-04-12; ETDE: 1979-11-23

SEE lyophilization

**FREEZE PROTECTION**

INIS: 2000-04-12; ETDE: 1977-10-20

(From March 1978 until March 1996 DRAIN-DOWN SYSTEMS was a valid ETDE descriptor.)

*UF* drain-down systems

*SF* freeze-cycle system

*RT* antifreeze

*RT* melting points

*RT* safety engineering

*RT* working fluids

**FREEZERS**

INIS: 1993-08-02; ETDE: 1977-06-21

\*BT1 appliances

*RT* electric appliances

*RT* gas appliances

*RT* refrigerators

**FREEZING**

BT1 phase transformations

*RT* antifreeze

*RT* cryobiology

*RT* defrosting

*RT* lyophilization

*RT* melting

*RT* solidification

*RT* thawing

**freezing (food)**

INIS: 1984-04-04; ETDE: 2002-06-13

USE food processing

**FREEZING OUT**

BT1 separation processes

*RT* desalination

*RT* temperature range 0065-0273 k

*RT* waste processing

**freezing point depression**

USE cryoscopy

**freezing points**

USE melting points

**freight**

INIS: 1992-06-30; ETDE: 1979-11-23

USE cargo

**freight pipelines**

INIS: 2000-04-12; ETDE: 1978-04-06

*Pipelines whose main purpose is to convey products that exist in solid form. See also hydraulic transport and pneumatic transport.*

(Prior to February 1997 this was a valid ETDE descriptor.)

USE pipelines

**FRENCH GUIANA**

\*BT1 south america

**french minerve reactor**

USE minerve reactor

**FRENCH ORGANIZATIONS**

BT1 national organizations

**NT1** cea

**NT2** cea bruyeres-le-chatel

**NT2** cea cadarache

**NT2** cea fontenay-aux-roses

**NT2** cea grenoble

**NT2** cea la hague

**NT2** cea marcoule

**NT2** cea pierrelatte

**NT2** cea saclay

**NT1** cogema

**NT2** cogema la hague

**NT2** cogema marcoule

**NT2** cogema pierrelatte

**NT1** electricite de france

**FRENKEL DEFECTS**

\*BT1 vacancies

**FREONS**

\*BT1 halogenated aliphatic hydrocarbons

*RT* chlorofluorocarbons

*RT* cryogenics

*RT* hydrocarbons

*RT* refrigerants

**frequency (cyclotron)**

USE cyclotron frequency

**frequency (eigen)**

USE eigenfrequency

**frequency (gyro)**

USE gyrofrequency

**frequency (langmuir)**

USE langmuir frequency

**FREQUENCY ANALYSIS**

INIS: 1979-05-28; ETDE: 1979-09-06

**NT1** digital frequency analysis

*RT* data processing

*RT* digital filters

*RT* fourier analysis

*RT* frequency measurement

**FREQUENCY CONTROL**

INIS: 1976-02-11; ETDE: 1975-10-28

BT1 control

*RT* frequency dependence

*RT* frequency measurement

RT frequency modulation  
 RT frequency selection  
 RT tuning

**FREQUENCY CONVERTERS**

RT frequency range  
 RT heterodyne receivers  
 RT parametric amplifiers  
 RT pulse generators

**FREQUENCY DEPENDENCE**

UF wavelength dependence  
 RT frequency control  
 RT frequency measurement  
 RT frequency range

**FREQUENCY MEASUREMENT**

RT frequency analysis  
 RT frequency control  
 RT frequency dependence  
 RT frequency modulation  
 RT measuring methods

**FREQUENCY MIXING**

INIS: 2000-05-16; ETDE: 1986-01-14  
*The combination of two or more electromagnetic waves in a nonlinear medium to form another wave whose frequency is a sum or difference of the frequencies of the incident waves.*  
 UF four wave mixing  
 NT1 harmonic generation  
 RT electromagnetic radiation  
 RT frequency modulation  
 RT nonlinear optics  
 RT nonlinear problems  
 RT plasma waves  
 RT sound waves

**frequency modulated cyclotrons**

INIS: 1985-10-23; ETDE: 2002-06-13  
 USE synchrocyclotrons

**FREQUENCY MODULATION**

INIS: 1985-10-23; ETDE: 1981-09-08  
 BT1 modulation  
 RT frequency control  
 RT frequency measurement  
 RT frequency mixing  
 RT frequency selection

**FREQUENCY RANGE**

NT1 ghz range  
 NT2 ghz range 01-100  
 NT2 ghz range 100-1000  
 NT1 hz range  
 NT1 khz range  
 NT2 khz range 01-100  
 NT2 khz range 100-1000  
 NT1 mhz range  
 NT2 mhz range 01-100  
 NT2 mhz range 100-1000  
 NT1 milli hz range  
 NT1 thz range  
 NT2 thz range 01-100  
 NT2 thz range 100-1000  
 RT frequency converters  
 RT frequency dependence  
 RT radar  
 RT sonar  
 RT wavelengths

**FREQUENCY RESPONSE TESTING**

1976-07-30  
 BT1 testing  
 RT reactor stability

**FREQUENCY SELECTION**

1992-08-11  
 BT1 tuning  
 RT frequency control  
 RT frequency modulation

RT lasers  
 RT mode selection

**FRESH WATER**

\*BT1 water  
 RT drinking water  
 RT estuaries  
 RT fathead minnow  
 RT irrigation  
 RT lakes  
 RT limnology  
 RT rivers  
 RT rotifera  
 RT water reservoirs

**fresh water ecosystems**

USE aquatic ecosystems

**FRESNEL COEFFICIENT**

*One minus the reciprocal of the square of the refractive index.*  
 RT refraction  
 RT refractive index  
 RT visible radiation

**FRESNEL LENS**

1976-06-23  
*A lens with a surface consisting of a concentric series of simple lens sections.*  
 BT1 lenses  
 RT solar concentrators

**FRESNEL REFLECTORS**

INIS: 1992-07-09; ETDE: 1981-09-08  
*Mirrors with varying orientation arranged so as to have the optical properties of a smooth reflector, e.g., parabolic reflector.*  
 BT1 mirrors  
 \*BT1 solar reflectors

**FRETTING CORROSION**

\*BT1 corrosion

**FREUNDS ADJUVANT**

RT antigens

**FREYALITE**

2000-04-12  
 \*BT1 silicate minerals  
 \*BT1 thorium minerals  
 RT thorium silicates

**FRF-2 REACTOR**

UF forschungsreaktor-2 frankfurt  
 UF frankfurt research reactor-2  
 \*BT1 triga type reactors

**FRF REACTOR**

*Johann Wolfgang Goethe-Univ., Frankfurt am Main, Essen, Federal Republic of Germany.*  
 UF forschungsreaktor frankfurt  
 UF frankfurt research reactor  
 \*BT1 aqueous homogeneous reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 training reactors

**FRG-1 REACTOR**

*Gesellschaft fuer Kernenergieverwertung in Schiffbau und Schifffahrt mbH, Geesthacht, Schleswig-Holstein, Federal Republic of Germany.*  
 UF forschungsreaktor geesthacht-1  
 UF geesthacht-1 research reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**FRG-2 REACTOR**

*Gesellschaft fuer Kernenergieverwertung in Schiffbau und Schifffahrt mbH, Geesthacht, Schleswig-Holstein, Federal Republic of Germany.*

UF forschungsreaktor geesthacht-2  
 UF geesthacht-2 research reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 materials testing reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors

**frh reactor**

1991-07-02  
 USE triga-1-hanover reactor

**friambient process**

INIS: 2000-04-12; ETDE: 1982-02-23  
 (Prior to July 1993, this was a valid ETDE descriptor.)  
 USE coal liquefaction

**fricke dosimeters**

USE chemical dosimeters

**FRICITION**

NT1 internal friction  
 NT1 rolling friction  
 NT1 sliding friction  
 RT energy losses  
 RT friction factor  
 RT tribology  
 RT wear

**friction (internal)**

2000-04-12  
 USE internal friction

**FRICITION FACTOR**

INIS: 1983-03-14; ETDE: 1977-06-21  
*Dimensionless number used in study of fluid friction in conduits; not for coefficient of friction.*  
 BT1 dimensionless numbers  
 RT fluid flow  
 RT fluid mechanics  
 RT friction  
 RT hydraulics  
 RT reynolds number

**FRICITION WELDING**

\*BT1 welding

**frictionless flow**

1986-03-04  
 USE ideal flow

**FRIEDEL-CRAFTS REACTION**

BT1 chemical reactions

**FRJ-1 REACTOR**

*Kernforschungsanlage Juelich GmbH, Juelich, Nordrhein-Westfalen, Federal Republic of Germany.*  
 UF juelich-merlin reactor  
 UF merlin-juelich reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors

**FRJ-2 REACTOR**

*Kernforschungsanlage Juelich GmbH, Juelich, Nordrhein-Westfalen, Federal Republic of Germany.*  
 UF dido-juelich reactor  
 UF juelich-dido reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 materials testing reactors

- \*BT1 research reactors
- \*BT1 tank type reactors

**FRM-II REACTOR**

2004-04-02

*Technische Universitaet Muenchen, Germany.**UF new neutron source frm-ii*

- \*BT1 enriched uranium reactors
- \*BT1 heavy water moderated reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors

**FRM REACTOR**

*Technische Universitaet Muenchen, Ministry for Education and Culture, Garching, Bayern, Federal Republic of Germany.*

*UF forschungsreaktor muenchen**UF munich research reactor*

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors

**frm reactors (thermonuclear)**

1995-01-16

*Field-reversed mirror reactors.*

- USE magnetic mirror type reactors

**FRN REACTOR**

*Gesellschaft fuer Strahlen und Umweltforschung mbH, Neuherberg, Bayern, Federal Republic of Germany.*

*UF forschungsreaktor neuherberg**UF neuherberg research reactor*

- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 test reactors
- \*BT1 triga type reactors

**FROGS***UF rana*

- \*BT1 amphibians
- RT salamanders
- RT toads

**FROST**

1984-04-04

- BT1 ice
- RT crystallization
- RT defrosting
- RT solidification
- RT weather

**FROST TESTS**

- \*BT1 thermal testing

**FROUDE NUMBER**

- BT1 dimensionless numbers
- RT fluid flow

**FRUCTOSE***UF levulose*

- \*BT1 hexoses
- \*BT1 ketones

**fruit (seeds)**

- USE seeds

**FRUIT FLIES**

1996-07-23

(From January 1976 till March 1997

RHAGOLETIS CERASI was a valid ETDE descriptor.)

*UF cherry fruit fly**UF rhagoletis cerasi*

- \*BT1 flies
- NT1 anastrepha
- NT1 ceratitis capitata
- NT1 dacus
  - NT2 dacus oleae
- NT1 drosophila

**FRUIT TREES**

- \*BT1 trees
- RT apples
- RT apricots
- RT avocados
- RT banana plants
- RT bananas
- RT cherries
- RT citrus
- RT fruits
- RT peaches

**FRUITS***Edible parts of plants only.*

- BT1 food
- NT1 apples
- NT1 apricots
- NT1 avocados
- NT1 bananas
- NT1 berries
  - NT2 blueberries
  - NT2 raspberries
  - NT2 strawberries
- NT1 cherries
- NT1 coconuts
- NT1 dates
- NT1 figs
- NT1 grapefruits
- NT1 grapes
- NT1 lemons
- NT1 mangoes
- NT1 nuts
  - NT2 chestnuts
- NT1 olives
- NT1 oranges
- NT1 papayas
- NT1 peaches
- NT1 pears
- NT1 pineapples
- NT1 plums
- NT1 tomatoes
- RT crops
- RT fruit trees
- RT plants

**fsa***INIS: 1984-04-04; ETDE: 2002-06-13**Fixed scatterer approximation.*

- USE fsc approximation

**FSC APPROXIMATION***UF approximation (fixed scattering centres)**UF fixed scattering centres approximation**UF fsa*

- \*BT1 approximations
- RT glauber theory
- RT many-body problem
- RT optical models
- RT scattering

**fsd devices**

- USE flying spot digitizers

**FSH***UF follicle stimulating hormone*

- \*BT1 gonadotropins
- RT estrogens

**FT TOKAMAK***INIS: 1983-10-14; ETDE: 1983-11-09**UF frascati tokamak**UF ftu tokamak*

- \*BT1 tokamak devices

**FT VALUE**

- RT beta decay
- RT branching ratio
- RT decay
- RT decoupling

- RT half-life

**ftu reactor (richland)**

2000-04-12

- USE ftf reactor

**ftu tokamak***INIS: 1999-07-26; ETDE: 2002-06-13*

- USE ft tokamak

**fucose**

- USE hexoses

**FUCUS**

- \*BT1 chromophycota
- \*BT1 seaweeds

**FUDR***UF fluorodeoxyuridine*

- \*BT1 antimicrobial agents
- \*BT1 fluorouracils
- \*BT1 nucleosides
- \*BT1 radiosensitizers
- RT deoxyuridine

**FUEL ADDITIVES***INIS: 1992-05-11; ETDE: 1979-03-05*

- BT1 additives
- RT fuels
- RT tetraethyl lead

**FUEL ADJUSTMENT MECHANISMS***INIS: 2000-04-12; ETDE: 1979-03-27*

- RT prices
- RT public utilities

**FUEL-AIR RATIO***INIS: 1997-06-17; ETDE: 1976-07-07*

- UF air-fuel ratio*
- BT1 dimensionless numbers
- RT air
- RT carburetors
- RT combustion
- RT combustion control
- RT fuels
- RT oxygen enrichment

**FUEL ASSEMBLIES**

- NT1 fuel element clusters
- NT1 reloadable fuel assemblies
- NT1 replaceable fuel assemblies
- RT fuel assembly dismantling
- RT fuel elements
- RT guide tubes
- RT reactor cores
- RT shrouds

**FUEL ASSEMBLY DISMANTLING**

- UF dismantling (fuel assembly)*
- RT fuel assemblies
- RT reactor dismantling

**fuel bundles**

- USE fuel element clusters

**FUEL CANS**

- UF fuel sheaths*
- UF sheaths (fuel)*
- RT canning
- RT cladding
- RT decladding
- RT failed element detection
- RT failed element monitors
- RT fuel-cladding interactions
- RT fuel elements
- RT hot spots
- RT jackets

**fuel casks***INIS: 1977-03-14; ETDE: 2002-06-13*

- USE casks

**fuel cell catalysts**

INIS: 1992-02-26; ETDE: 1978-10-30  
USE electrocatalysts

**FUEL CELL POWER PLANTS**

1992-05-11  
For commercial, residential, or electric utility use.

BT1 power plants  
RT fuel cells  
RT microgeneration

**FUEL CELLS**

1997-06-17  
BT1 direct energy converters  
BT1 electrochemical cells  
NT1 acid electrolyte fuel cells  
NT1 alcohol fuel cells  
NT2 direct ethanol fuel cells  
NT2 direct methanol fuel cells  
NT1 alkaline electrolyte fuel cells  
NT1 ammonia fuel cells  
NT1 biochemical fuel cells  
NT1 coal fuel cells  
NT1 formaldehyde fuel cells  
NT1 formate fuel cells  
NT1 formic acid fuel cells  
NT1 high-temperature fuel cells  
NT2 molten carbonate fuel cells  
NT2 solid oxide fuel cells  
NT1 hydrazine fuel cells  
NT1 hydrocarbon fuel cells  
NT1 hydrogen fuel cells  
NT1 natural gas fuel cells  
NT1 regenerative fuel cells  
NT2 redox fuel cells  
NT1 solid electrolyte fuel cells  
NT2 proton exchange membrane fuel cells  
NT2 solid oxide fuel cells  
RT electric-powered vehicles  
RT electrochemistry  
RT fuel cell power plants  
RT matrix materials  
RT metal-gas batteries  
RT off-peak energy storage  
RT solid electrolytes

**FUEL CHANNELS**

\*BT1 reactor channels  
RT ducts  
RT fuel elements  
RT hot channel  
RT shrouds

**FUEL-CLADDING INTERACTIONS**

UF cladding-fuel interactions  
RT chemical reactions  
RT fuel cans  
RT nuclear fuels

**FUEL CONSUMPTION**

1992-03-12  
UF fuel economy  
BT1 energy consumption  
RT automotive fuels  
RT consumption rates  
RT demand  
RT fuels  
RT off-highway use  
RT on-highway use

**FUEL-COOLANT INTERACTIONS**

UF coolant-fuel interactions  
RT chemical reactions  
RT coolants  
RT fluid-structure interactions  
RT molten metal-water reactions  
RT nuclear fuels  
RT reactor accidents

**fuel cooling installations**

USE spent fuel storage

**FUEL COOLING TIME**

INIS: 1980-07-24; ETDE: 1980-05-06  
The cooling time of spent fuel after its discharge from the reactor core.

BT1 cooling time  
RT after-heat  
RT burnup  
RT cooling  
RT fission products  
RT fuel storage pools  
RT gamma spectroscopy  
RT spent fuel storage  
RT spent fuels

**FUEL CYCLE**

UF recycle (nuclear fuel)  
NT1 plutonium recycle  
NT1 thorium cycle  
NT1 uranium recycle  
RT burnup  
RT cost  
RT depleted uranium  
RT fissionable materials  
RT fuel cycle centers  
RT fuel management  
RT harvest process  
RT nuclear fuels  
RT nuclear materials management  
RT present worth method  
RT proliferation  
RT reprocessing  
RT risk assessment  
RT sol-gel process  
RT westinghouse recycle fuels plant

**FUEL CYCLE CENTERS**

INIS: 1978-07-03; ETDE: 1978-08-07  
UF nuclear fuel centers  
BT1 nuclear facilities  
RT feed materials plants  
RT fuel cycle  
RT fuel fabrication plants  
RT fuel reprocessing plants  
RT fuel storage pools  
RT plutonium recycle  
RT radioactive waste disposal  
RT radioactive waste facilities  
RT radioactive waste processing  
RT radioactive waste storage  
RT spent fuel storage  
RT uranium recycle

**FUEL DENSIFICATION**

The increase in density of nuclear fuel resulting from thermal and/or radiation effects.

RT density  
RT fuel elements  
RT nuclear fuels  
RT physical radiation effects  
RT reactor safety

**FUEL DISPERSION REACTORS**

\*BT1 homogeneous reactors  
NT1 fluidized bed reactors  
NT1 slurry reactors  
RT dispersion nuclear fuels

**fuel economy**

INIS: 1992-08-17; ETDE: 1976-04-19  
(Prior to December 1991 this was a valid ETDE descriptor.)

USE fuel consumption

**FUEL ELEMENT CLUSTERS**

UF bundles (fuel elements)  
UF clusters (fuel elements)  
UF fuel bundles

UF rod bundles  
BT1 fuel assemblies  
RT spacers

**FUEL ELEMENT FAILURE**

1997-04-29  
BT1 failures  
RT failed element detection  
RT failed element monitors  
RT fuel motion detection  
RT radiation hazards  
RT reactor accidents  
RT reactor operation  
RT reactor safety

**FUEL ELEMENTS**

(From January 1975 to February 1997 FUEL SPHERES was a valid ETDE descriptor.)

UF fuel spheres  
UF nuclear fuel elements  
UF reactor fuel elements  
UF spheres (fuel)  
BT1 reactor components  
NT1 annular fuel elements  
NT1 fuel pins  
NT1 fuel plates  
NT1 fuel rods  
NT2 hollow fuel rods  
NT1 fuel wires  
NT1 spent fuel elements  
NT1 thermionic fuel elements  
RT burnout  
RT decladding  
RT failed element detection  
RT failed element monitors  
RT fuel assemblies  
RT fuel cans  
RT fuel channels  
RT fuel densification  
RT fuel fabrication plants  
RT fuel integrity  
RT fuel storage pools  
RT matrix materials  
RT nuclear fuels  
RT positioning  
RT post-irradiation examination  
RT reactor cores  
RT reactor lattices  
RT reactors

**FUEL FABRICATION PLANTS**

1996-07-18  
(Prior to March 1997 GENERAL ATOMIC FUEL FABRICATION FACILITY was a valid ETDE descriptor.)

UF general atomic fuel fabrication facility  
BT1 nuclear facilities  
NT1 cimarron plutonium production plant  
NT1 cimarron uranium fuel plant  
NT1 exxon fuel fabrication facility  
NT1 mixed oxide fuel fabrication plants  
NT1 westinghouse recycle fuels plant  
RT fabrication  
RT fuel cycle centers  
RT fuel elements  
RT industrial plants  
RT nuclear industry  
RT nuclear parks

**FUEL FEEDING SYSTEMS**

INIS: 1983-03-15; ETDE: 1976-07-07  
UF coaltek process  
BT1 fuel systems  
NT1 stokers  
RT fossil fuels  
RT fuel gas  
RT materials handling  
RT pellet injection  
RT pulverizers

- RT* thermonuclear fuels  
*RT* thermonuclear reactor fueling

**FUEL GAGES**

2000-04-12

- BT1* measuring instruments

**FUEL GAS**

- BT1* energy sources  
*\*BT1* gas fuels  
*\*BT1* gases  
*NT1* high btu gas  
*NT1* intermediate btu gas  
*NT2* carburetted water gas  
*NT2* town gas  
*NT2* water gas  
*NT1* landfill gas  
*NT1* low btu gas  
*NT2* producer gas  
*NT1* natural gas  
*NT2* abiogenic gas  
*NT2* liquefied natural gas  
*RT* coal gas  
*RT* dual-fuel engines  
*RT* fuel feeding systems  
*RT* hot gas cleanup  
*RT* public utilities  
*RT* refinery gases  
*RT* synthetic fuels

**FUEL INJECTION SYSTEMS**

1992-08-13

- BT1* fuel systems  
*RT* atomization  
*RT* combustion  
*RT* combustion chambers  
*RT* diesel engines  
*RT* engines  
*RT* nozzles  
*RT* spark ignition engines  
*RT* stratified charge engines  
*RT* thermonuclear reactors

**FUEL INTEGRITY***INIS: 1986-03-04; ETDE: 1985-03-26*

- UF* integrity (fuel)  
*RT* fuel elements  
*RT* nuclear fuels  
*RT* spent fuel elements  
*RT* spent fuel storage  
*RT* spent fuels

**fuel kernels**

- USE fuel particles

**fuel loading (fission reactor)**

1982-11-29

- USE reactor fueling

**FUEL MANAGEMENT**

- UF* in-core fuel management  
*\*BT1* nuclear materials management  
*RT* fuel cycle  
*RT* reactor cores  
*RT* reactor fueling

**FUEL MOTION DETECTION***INIS: 1979-09-18; ETDE: 1979-03-05*

Determination of in-core nuclear fuel behavior.

- BT1* detection  
*RT* failed element detection  
*RT* fuel element failure

**FUEL OILS**

1992-02-22

- UF* coal-oil mixtures  
*\*BT1* gas oils  
*\*BT1* liquid fuels  
*NT1* heating oils  
*NT1* residual fuels  
*RT* oils

**FUEL PARTICLES**

- UF* fuel kernels  
*UF* kernels (fuel)  
*UF* particles (fuel)  
*NT1* coated fuel particles  
*RT* dispersion nuclear fuels  
*RT* nuclear fuels

**FUEL PELLETS**

- BT1* pellets  
*RT* fuel rods  
*RT* nuclear fuels  
*RT* pellet injection  
*RT* pelletizing

**fuel pencils**

- USE fuel pins

**FUEL PINS**

- UF* fuel pencils  
*UF* pins (fuel)  
*\*BT1* fuel elements

**FUEL PLATES**

- UF* plates (fuel)  
*\*BT1* fuel elements

**fuel pools**

1984-04-04

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE fuel storage pools

**FUEL RACKS***INIS: 1980-04-02; ETDE: 1978-10-23*

- UF* racks (fuel)  
*\*BT1* supports  
*RT* fuel storage pools  
*RT* spent fuel storage

**fuel reprocessing**

- USE reprocessing

**FUEL REPROCESSING PLANTS**

1996-06-26

- BT1* nuclear facilities  
*NT1* barnwell fuel processing plant  
*NT1* cea la hague  
*NT1* cogema la hague  
*NT1* hef  
*NT1* idaho chemical processing plant  
*NT1* midwest fuel recovery plant  
*NT1* nuclear fuel recovery and recycling center  
*NT1* rokkasho reprocessing plant  
*NT1* sellafeld reprocessing plant  
*NT1* tokai reprocessing plant  
*NT1* wackersdorf reprocessing plant  
*NT1* wak  
*NT1* west valley processing plant  
*NT1* westinghouse recycle fuels plant  
*RT* fission products  
*RT* fuel cycle centers  
*RT* industry  
*RT* mayak plant  
*RT* nuclear industry  
*RT* nuclear parks  
*RT* radioactive waste facilities  
*RT* reprocessing  
*RT* risk assessment  
*RT* spent fuels

**fuel rod consolidation***INIS: 2000-04-12; ETDE: 1985-03-26*

- USE configuration  
 USE fuel rods

**FUEL RODS**

- UF* fuel rod consolidation  
*UF* fuel slugs  
*UF* rods (fuel)  
*UF* slugs (fuel)

- \*BT1* fuel elements  
*NT1* hollow fuel rods  
*RT* fuel pellets

**FUEL SCANNING**

- UF* scanning (fuel)  
*NT1* gamma fuel scanning  
*RT* burnup  
*RT* nondestructive testing  
*RT* nuclear reaction analyzers

**fuel sheaths**

- USE fuel cans

**fuel slugs**

- USE fuel rods

**FUEL SLURRIES**

- UF* coal-oil mixtures  
*UF* fuel suspensions  
*UF* slurries (fuel)  
*UF* suspensions (fuel)  
*BT1* fuels  
*\*BT1* slurries  
*RT* slurry reactors

**FUEL SOLUTIONS**

- \*BT1* liquid fuels  
*\*BT1* nuclear fuels  
*\*BT1* solutions  
*RT* liquid homogeneous reactors

**fuel spheres**

2000-04-12

Pebble bed reactor fuel elements.

(Prior to February 1997 this was a valid ETDE descriptor.)

- USE fuel elements

**FUEL STORAGE POOLS***INIS: 1976-02-18; ETDE: 1976-03-25*

- UF* fuel pools  
*UF* pools (fuel storage)  
*UF* storage pools (fuel)  
*RT* away-from-reactor storage  
*RT* fuel cooling time  
*RT* fuel cycle centers  
*RT* fuel elements  
*RT* fuel racks  
*RT* spent fuel storage

**FUEL SUBSTITUTION***INIS: 1992-03-16; ETDE: 1977-12-22*

- SF* alternate fuels  
*RT* energy shortages  
*RT* energy substitution  
*RT* energy substitution equivalent  
*RT* energy supplies  
*RT* energy surpluses  
*RT* fossil fuels  
*RT* fuels  
*RT* interchangeability  
*RT* material substitution  
*RT* rolled-in pricing

**fuel substitution equivalent***INIS: 2000-04-12; ETDE: 1978-06-14*

- USE energy substitution equivalent

**FUEL SUPPLIES***INIS: 1992-07-09; ETDE: 1979-11-23*

- BT1* energy supplies  
*RT* demand  
*RT* fuels  
*RT* receipts  
*RT* shortages  
*RT* us naval petroleum reserves

**fuel suspensions**

- USE fuel slurries

**FUEL SYSTEMS**

1997-06-17

*Non-nuclear fuels.*

- NT1 carburetors
- NT1 fuel feeding systems
- NT2 stokers
- NT1 fuel injection systems
- RT fuels
- RT oxygen enrichment

**fuel use act**

INIS: 2000-04-12; ETDE: 1980-01-24

- USE us power plant and industrial fuel use act

**FUEL WASHERS**

- UF washers (fuel)
- RT annular fuel elements
- RT nuclear fuels

**FUEL WIRES**

- UF wires (fuel)
- \*BT1 fuel elements

**fueling machines (fission reactors)**

INIS: 1993-11-08; ETDE: 2002-06-13

- USE reactor charging machines

**FUELS**

1997-06-19

(From January 1975 till March 1997 PROPELLANTS was a valid ETDE descriptor.)

- SF propellants
- NT1 automotive fuels
- NT1 biofuels
- NT2 wood fuels
- NT1 boiler fuels
- NT1 fossil fuels
- NT2 coal
- NT3 black coal
- NT4 anthracite
- NT4 bituminous coal
- NT3 brown coal
- NT4 lignite
- NT3 coal fines
- NT3 sapropelic coal
- NT4 boghead coal
- NT5 torbanite
- NT4 cannel coal
- NT3 subbituminous coal
- NT2 natural gas
- NT3 abiogenic gas
- NT3 liquefied natural gas
- NT2 oil sands
- NT2 oil shales
- NT3 black shales
- NT2 peat
- NT2 petroleum
- NT3 petroleum fractions
- NT4 petroleum distillates
- NT5 gas oils
- NT6 diesel fuels
- NT6 fuel oils
- NT7 heating oils
- NT7 residual fuels
- NT6 kerosene
- NT4 petroleum residues
- NT4 refinery gases
- NT3 residual petroleum
- NT3 shale oil
- NT4 shale oil fractions
- NT3 sour crudes
- NT1 fuel slurries
- NT1 gas fuels
- NT2 fuel gas
- NT3 high btu gas
- NT3 intermediate btu gas
- NT4 carburetted water gas
- NT4 town gas

- NT4 water gas
- NT3 landfill gas
- NT3 low btu gas
- NT4 producer gas
- NT3 natural gas
- NT4 abiogenic gas
- NT4 liquefied natural gas
- NT1 liquid fuels
- NT2 alcohol fuels
- NT3 ethanol fuels
- NT3 methanol fuels
- NT2 diesel fuels
- NT2 fuel oils
- NT3 heating oils
- NT3 residual fuels
- NT2 fuel solutions
- NT2 gasohol
- NT2 gasoline
- NT3 unleaded gasoline
- NT2 jet engine fuels
- NT2 kerosene
- NT2 liquid metal fuels
- NT2 molten salt fuels
- NT1 nuclear fuels
- NT2 alloy nuclear fuels
- NT3 uranium-molybdenum fuels
- NT2 denatured fuel
- NT2 dispersion nuclear fuels
- NT2 fuel solutions
- NT2 liquid metal fuels
- NT2 mixed carbide fuels
- NT2 mixed nitride fuels
- NT2 mixed oxide fuels
- NT2 molten salt fuels
- NT2 spent fuels
- NT1 refuse derived fuels
- NT1 solid fuels
- NT2 alloy nuclear fuels
- NT3 uranium-molybdenum fuels
- NT2 briquets
- NT2 dispersion nuclear fuels
- NT2 mixed carbide fuels
- NT2 mixed nitride fuels
- NT2 mixed oxide fuels
- NT2 peat
- NT2 wood fuels
- NT1 solvent-refined coal
- NT1 synthetic fuels
- NT2 alcohol fuels
- NT3 ethanol fuels
- NT3 methanol fuels
- NT2 hydrogen fuels
- NT2 pyrolytic oils
- NT2 synthetic petroleum
- NT1 thermonuclear fuels
- RT calorific value
- RT fuel additives
- RT fuel-air ratio
- RT fuel consumption
- RT fuel substitution
- RT fuel supplies
- RT fuel systems
- RT interchangeability
- RT rolled-in pricing
- RT semicoke
- RT semicoking
- RT wood

**fuels (nuclear)**

2000-04-12

- USE nuclear fuels

**fuelwood**

INIS: 1992-04-09; ETDE: 1981-01-30

- USE wood fuels

**fugen atr**

- USE jatr reactor

**fujaira**

INIS: 1992-05-07; ETDE: 1976-08-05

- USE united arab emirates

**FUJITSU COMPUTERS**

INIS: 1992-08-18; ETDE: 1985-12-13

- BT1 computers

**FUKUSHIMA-1 REACTOR**

TEPCO, Okuma, Fukushima, Japan.

UF tokyo-1 reactor

- \*BT1 bwr type reactors

**FUKUSHIMA-2 REACTOR**

TEPCO, Okuma, Fukushima, Japan.

UF tokyo-2 reactor

- \*BT1 bwr type reactors

**FUKUSHIMA-3 REACTOR**

TEPCO, Okuma, Fukushima, Japan.

UF tokyo-3 reactor

- \*BT1 bwr type reactors

**FUKUSHIMA-4 REACTOR**

TEPCO, Okuma, Fukushima, Japan.

UF tokyo-4 reactor

- \*BT1 bwr type reactors

**FUKUSHIMA-5 REACTOR**

TEPCO, Futaba, Fukushima, Japan.

- \*BT1 bwr type reactors

**FUKUSHIMA-6 REACTOR**

TEPCO, Futaba, Fukushima, Japan.

- \*BT1 bwr type reactors

**FUKUSHIMA-II-1 REACTOR**

INIS: 1979-09-18; ETDE: 1980-05-06

TEPCO, Naraha, Fukushima, Japan.

- \*BT1 bwr type reactors

**FUKUSHIMA-II-2 REACTOR**

INIS: 1979-09-18; ETDE: 1980-05-06

TEPCO, Naraha, Fukushima, Japan.

- \*BT1 bwr type reactors

**FUKUSHIMA-II-3 REACTOR**

INIS: 1981-07-13; ETDE: 1981-08-04

TEPCO, Tomioka, Fukushima, Japan.

- \*BT1 bwr type reactors

**FUKUSHIMA-II-4 REACTOR**

INIS: 1981-07-13; ETDE: 1981-08-04

TEPCO, Tomioka, Fukushima, Japan.

- \*BT1 bwr type reactors

**fulcrum operation**

INIS: 2000-04-12; ETDE: 1978-10-30

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE nuclear explosions
- USE underground explosions

**fulham-simon-carves process**

2000-04-12

Process for recovery of sulfur from flue gases by causing flue gas to react directly with ammonia liquor from gas works followed by processing of solution to give ammonium sulfate and sulfur.

- USE desulfurization

**full-serve stations**

INIS: 2000-04-12; ETDE: 1979-05-09

- USE gasoline service stations

**FULLERENES**

INIS: 1992-04-08; ETDE: 1992-01-09

Carbon allotrope containing 60 carbon atoms in a hollow spherical configuration similar to a geodesic dome.

- \*BT1 carbon
- RT atomic clusters

**FULLERS EARTH**

- \*BT1 clays
- RT attapulgit

**FULLY IONIZED GASES**

Use only when the gas is not macroscopically electrically neutral; otherwise use PLASMA.

- \*BT1 ionized gases
- NT1 lorentz gas

**FULTON-1 REACTOR**

Philadelphia Electric Co., USA. Canceled in 1975 before construction began.

- \*BT1 enriched uranium reactors
- \*BT1 helium cooled reactors
- \*BT1 htgr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**FULTON-2 REACTOR**

Philadelphia Electric Co., USA. Canceled in 1975 before construction began.

- \*BT1 enriched uranium reactors
- \*BT1 helium cooled reactors
- \*BT1 htgr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**FULVIC ACIDS**

- \*BT1 organic acids
- RT humic acids
- RT humus
- RT soils

**fumaks process**

INIS: 2000-04-12; ETDE: 1979-01-30

(Prior to February 1995, this was a valid ETDE descriptor.)

- USE desulfurization

**FUMARIC ACID**

- \*BT1 dicarboxylic acids

**FUMAROLES**

1992-04-13

Vents, usually volcanic, from which gases and vapors are emitted. They are characteristic of a late stage of volcanic activity.

- NT1 solfataras
- RT fumarolic fluids
- RT hydrothermal systems
- RT volcanoes

**FUMAROLIC FLUIDS**

1992-05-12

- \*BT1 geothermal fluids
- RT fumaroles
- RT volcanic gases

**FUME HOODS**

INIS: 1980-09-11; ETDE: 1978-10-23

- \*BT1 laboratory equipment
- RT gaseous wastes
- RT ventilation

**fumes**

- USE aerosols

**FUMIGANTS**

- BT1 pesticides
- RT grain disinfestation
- RT methyl bromide
- RT preservation

**function (biological)**

INIS: 1975-10-23; ETDE: 1976-08-26

- USE biological functions

**FUNCTION GENERATORS**

- UF sine generators
- UF square-wave generators
- \*BT1 electronic equipment
- NT1 pulse generators

NT2 high-voltage pulse generators

NT3 marx generators

**FUNCTIONAL ANALYSIS**

INIS: 1976-09-06; ETDE: 1976-11-01

- BT1 mathematics
- RT mathematical evolution
- RT mathematical space
- RT periodicity

**FUNCTIONAL MODELS**

UF models (functional)

- NT1 pilot plants
- NT2 barstow solar pilot plant
- NT2 wipp
- NT1 process development units
- NT1 simulators
- NT2 reactor simulators
- NT2 solar simulators
- RT analog systems
- RT biological models
- RT comparative evaluations
- RT hypothesis
- RT mathematical models
- RT microcosms
- RT mockup
- RT phantoms
- RT plasma simulation
- RT scale models
- RT simulation
- RT structural models

**FUNCTIONALS**

- BT1 functions
- RT density functional method
- RT variational methods

**FUNCTIONS**

1996-04-16

(From November 1986 till February 1997 FORCING FUNCTIONS was a valid ETDE descriptor.)

- UF periodic functions
- SF forcing functions
- NT1 airy functions
- NT1 analytic functions
- NT1 besse functions
- NT1 correlation functions
- NT1 delta function
- NT1 distribution functions
- NT1 eigenfunctions
- NT1 excitation functions
- NT1 floquet function
- NT1 functionals
- NT1 gamma function
- NT1 gauss function
- NT1 green function
- NT1 hamiltonian function
- NT1 hypergeometric functions
- NT1 jacobian function
- NT1 jost function
- NT1 lagrangian function
- NT1 neutron importance function
- NT1 neutronic damage functions
- NT1 partition functions
- NT1 placzec function
- NT1 polynomials
- NT2 hermite polynomials
- NT2 laguerre polynomials
- NT2 legendre polynomials
- NT1 response functions
- NT1 retention functions
- NT1 riemann function
- NT1 spectral functions
- NT2 spectral density
- NT1 spherical harmonics
- NT1 spline functions
- NT1 strength functions
- NT1 structure functions
- NT1 transfer functions

NT1 vertex functions

NT1 wave functions

NT1 weierstrass functions

NT1 weighting functions

NT1 work functions

RT algorithms

RT equations

RT exact solutions

RT mathematics

RT recursion relations

RT riemann sheet

RT series expansion

RT singularity

**FUNDAMENTAL CONSTANTS**

(From February 1975 till March 1997

RYDBERG CONSTANT was a valid ETDE descriptor.)

UF gravitational charges

UF rydberg constant

RT atoms

RT cosmology

RT elementary particles

RT natural units

RT nuclei

**fundamental particles**

- USE elementary particles

**FUNGAL DISEASES**

INIS: 1982-12-08; ETDE: 1981-01-12

\*BT1 infectious diseases

NT1 mycoses

NT1 tinea

RT fungi

RT host

**FUNGI**

1997-06-19

UF molds

BT1 plants

NT1 eumycota

NT2 aspergillus

NT2 fusarium

NT2 lichens

NT2 mildew

NT2 neurospora

NT2 penicillium

NT2 phanerochaete

NT2 rhizopus

NT2 trichoderma

NT3 trichoderma viride

NT2 ustilago

NT2 yeasts

NT3 candida

NT3 saccharomyces

NT4 saccharomyces cerevisiae

NT3 torula

NT1 mushrooms

NT1 myxomycetes

NT1 physarum

NT1 polyporus versicolor

RT bioadsorbents

RT conidia

RT fungal diseases

RT mycelium

RT mycorrhizas

RT mycoses

RT mycotoxins

RT parasites

RT pathogens

RT spores

RT tinea

RT vaccines

**FUNGICIDES**

BT1 pesticides

NT1 cycloheximide

**FURANS**

1996-10-23

UF *furildioxime*

\*BT1 heterocyclic compounds

\*BT1 organic oxygen compounds

NT1 benzofurans

NT1 furfural

NT1 tetrahydrofuran

NT2 mthf

RT heterocyclic oxygen compounds

RT kinetin

**FURFURAL**UF *2-furalaldehyde*

\*BT1 aldehydes

\*BT1 furans

**furildioxime**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE furans

USE oximes

**furnace oil**

INIS: 2000-04-12; ETDE: 1976-03-11

USE heating oils

**FURNACES**

NT1 blast furnaces

NT1 chamber furnaces

NT1 electric furnaces

NT2 arc furnaces

NT2 ceramic melters

NT2 induction furnaces

NT1 electron beam furnaces

NT1 gas furnaces

NT1 multiple-hearth furnaces

NT1 oil furnaces

NT1 plasma furnaces

NT1 smelters

NT1 solar furnaces

NT1 tunnel furnaces

NT1 vacuum furnaces

NT1 wood burning furnaces

RT burners

RT combustion chambers

RT crucibles

RT gas generators

RT gratings

RT heat production

RT incinerators

RT kilns

RT melting

RT sintering

RT stokers

**FURNITURE INDUSTRY**

INIS: 1992-03-10; ETDE: 1977-07-23

BT1 industry

RT wood products industry

**FUSARIUM**

\*BT1 eumycota

BT1 parasites

**fused cells (animal)**

INIS: 2000-04-12; ETDE: 1984-02-10

USE hybridomas

**fused salt fuels**

USE molten salt fuels

**fused salts**

USE molten salts

**fuses (detonators)**

INIS: 2000-04-12; ETDE: 1979-10-03

(Prior to February 1997 FUSES was a valid ETDE descriptor.)

USE detonators

**fuses (electric)**

USE electric fuses

**fuses (reactor safety)**

USE reactor safety fuses

**fushun process**

INIS: 2000-04-12; ETDE: 1975-10-28

*Oil shale retorting process involving direct heating by a mixture of combustion gases and reheated recycled gases.*

(Prior to February 1995, this was a valid ETDE descriptor.)

SEE oil shales

SEE retorting

**fusileer operation**

INIS: 2000-04-12; ETDE: 1985-10-25

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**fusion (bonding, nonmetallic)**

USE bonding

**fusion (melting)**

USE melting

**fusion (nuclear)**

2000-04-12

USE thermonuclear reactions

**fusion (welding)**

USE welding

**fusion electromagnetic induction experiment**

INIS: 2000-04-12; ETDE: 1983-06-20

USE felix facility

**fusion energy**

INIS: 2000-04-12; ETDE: 1985-09-23

USE thermonuclear reactors

**fusion fuels**

INIS: 2000-04-12; ETDE: 1980-05-23

USE thermonuclear fuels

**FUSION HEAT**UF *heat of fusion*UF *latent heat of fusion*

\*BT1 transition heat

RT latent heat storage

RT phase change materials

**fusion reactions**

2000-04-12

SEE heavy ion fusion reactions

SEE thermonuclear reactions

**fusion reactions (endoenergetic)**

INIS: 1993-11-08; ETDE: 2002-06-13

USE heavy ion fusion reactions

**fusion reactions (exoenergetic)**

INIS: 1993-11-08; ETDE: 2002-06-13

USE thermonuclear reactions

**fusion reactions (heavy ion)**

INIS: 1985-07-18; ETDE: 2002-06-13

USE heavy ion fusion reactions

**fusion reactions (thermonuclear)**

INIS: 1993-11-08; ETDE: 2002-06-13

USE thermonuclear reactions

**fusion-reactor materials**

ETDE: 2002-06-13

USE thermonuclear reactor materials

**fusion reactors**

USE thermonuclear reactors

**FUSION YIELD**

1975-09-16

UF *yield (fusion)*

\*BT1 nuclear reaction yield

RT laser implosions

RT thermonuclear fuels

RT thermonuclear reactions

RT thermonuclear reactors

**fuzes**

INIS: 2000-04-12; ETDE: 1979-05-02

(From October 1979 to February 1997 FUSES was used for this concept in ETDE.)

USE detonators

**FUZZY LOGIC**

1991-07-02

BT1 mathematical logic

RT chaos theory

RT mathematical models

RT probability

RT set theory

**fw-stoic process**

INIS: 2000-04-12; ETDE: 1978-04-27

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal gasification

**fwpca**

INIS: 1977-03-01; ETDE: 2002-06-13

*Federal Water Pollution Control Act.*

USE clean water acts

**G-1 REACTOR**UF *marcoule g-1 reactor*

\*BT1 air cooled reactors

\*BT1 gcr type reactors

\*BT1 plutonium production reactors

\*BT1 thermal reactors

**G-2 REACTOR**UF *marcoule g-2 reactor*

\*BT1 carbon dioxide cooled reactors

\*BT1 gcr type reactors

\*BT1 plutonium production reactors

\*BT1 thermal reactors

**G-3 REACTOR***Marcoule, France.*UF *marcoule g-3 reactor*

\*BT1 carbon dioxide cooled reactors

\*BT1 gcr type reactors

\*BT1 plutonium production reactors

\*BT1 thermal reactors

**G CODES**

BT1 computer codes

**g factor (gyromagnetic ratio)**

USE gyromagnetic ratio

**g factor (lande)**

USE lande factor

**G MATRIX***Limited to the theory of nuclear reactions.*

BT1 matrices

RT nuclear reactions

**G PARITY***Property peculiar to mesons, not related to the concept covered by PARITY.*

BT1 particle properties

RT g-parity invariance

**G-PARITY INVARIANCE**

BT1 invariance principles

RT g parity



**g-proteins**

INIS: 2000-04-12; ETDE: 1988-05-23

USE gtp-ases

**g resonances**

USE rho3-1690 mesons

**G STATES**

INIS: 1979-09-18; ETDE: 1979-03-28

BT1 energy levels

**G VALUE**

Limited to use in radiation chemistry; see also  
GYROMAGNETIC RATIO.

RT radiation chemistry

RT radiolysis

**GA SIWABESSY REACTOR**

1999-07-08

Serpong, Tangerang, Indonesia.

\*BT1 enriched uranium reactors

\*BT1 materials testing reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**GA STANDARD REACTOR**

1975-10-29

USA.

UF general atomic standard reactor

\*BT1 enriched uranium reactors

\*BT1 htgr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**GABBROS**

INIS: 1999-12-03; ETDE: 1980-08-12

\*BT1 plutonic rocks

NT1 anorthosites

RT feldspars

RT silicate minerals

**GABON**

BT1 africa

BT1 developing countries

RT oklo phenomenon

RT opec

**gadolinite**

INIS: 2000-04-12; ETDE: 1975-09-11

(Prior to February 1995, this was a valid  
ETDE descriptor.)

SEE beryllium compounds

SEE iron compounds

SEE rare earth compounds

SEE silicates

**GADOLINIUM**

\*BT1 rare earths

**GADOLINIUM 135**

1997-02-07

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 gadolinium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**GADOLINIUM 137**

INIS: 1984-10-18; ETDE: 1984-11-06

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 gadolinium isotopes

\*BT1 rare earth nuclei

**GADOLINIUM 138**

INIS: 1986-03-04; ETDE: 1985-10-25

\*BT1 even-even nuclei

\*BT1 gadolinium isotopes

\*BT1 rare earth nuclei

**GADOLINIUM 139**

INIS: 1984-10-18; ETDE: 1984-11-06

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 gadolinium isotopes

\*BT1 rare earth nuclei

**GADOLINIUM 140**

INIS: 1986-03-04; ETDE: 1985-10-25

\*BT1 even-even nuclei

\*BT1 gadolinium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**GADOLINIUM 141**

INIS: 1984-08-23; ETDE: 1984-09-05

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 gadolinium isotopes

\*BT1 isomeric transition isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**GADOLINIUM 142**

\*BT1 beta-plus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 gadolinium isotopes

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

**GADOLINIUM 142 TARGET**

INIS: 1992-09-22; ETDE: 1977-05-07

BT1 targets

**GADOLINIUM 143**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 gadolinium isotopes

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**GADOLINIUM 144**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 gadolinium isotopes

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

**GADOLINIUM 145**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 gadolinium isotopes

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 rare earth nuclei

**GADOLINIUM 146**

\*BT1 beta-plus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 gadolinium isotopes

\*BT1 rare earth nuclei

**GADOLINIUM 147**

\*BT1 beta-plus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 gadolinium isotopes

\*BT1 isomeric transition isotopes

\*BT1 nanoseconds living radioisotopes

\*BT1 rare earth nuclei

**GADOLINIUM 148**

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 gadolinium isotopes

\*BT1 isomeric transition isotopes

\*BT1 nanoseconds living radioisotopes

\*BT1 rare earth nuclei

\*BT1 years living radioisotopes

**GADOLINIUM 148 TARGET**

INIS: 1982-01-13; ETDE: 1981-07-18

BT1 targets

**GADOLINIUM 149**

\*BT1 alpha decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 gadolinium isotopes

\*BT1 rare earth nuclei

**GADOLINIUM 150**

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 gadolinium isotopes

\*BT1 rare earth nuclei

\*BT1 years living radioisotopes

**GADOLINIUM 151**

\*BT1 alpha decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 gadolinium isotopes

\*BT1 rare earth nuclei

**GADOLINIUM 152**

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 gadolinium isotopes

\*BT1 rare earth nuclei

\*BT1 years living radioisotopes

**GADOLINIUM 152 TARGET**

INIS: 1975-10-23; ETDE: 1976-07-09

BT1 targets

**GADOLINIUM 153**

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 gadolinium isotopes

\*BT1 rare earth nuclei

**GADOLINIUM 154**

\*BT1 even-even nuclei

\*BT1 gadolinium isotopes

\*BT1 rare earth nuclei

\*BT1 stable isotopes

**GADOLINIUM 154 TARGET**

ETDE: 1976-07-09

BT1 targets

**GADOLINIUM 155**

\*BT1 even-odd nuclei

\*BT1 gadolinium isotopes

\*BT1 rare earth nuclei

\*BT1 stable isotopes

**GADOLINIUM 155 BEAMS**

INIS: 1986-12-09; ETDE: 1987-02-24

\*BT1 ion beams

**GADOLINIUM 155 REACTIONS**

1984-11-30

\*BT1 heavy ion reactions

**GADOLINIUM 155 TARGET**

ETDE: 1976-07-09

BT1 targets

**GADOLINIUM 156**

\*BT1 even-even nuclei

\*BT1 gadolinium isotopes

\*BT1 rare earth nuclei

\*BT1 stable isotopes

**GADOLINIUM 156 TARGET***ETDE: 1976-07-09*

BT1 targets

**GADOLINIUM 157**

\*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

**GADOLINIUM 157 TARGET***ETDE: 1976-07-09*

BT1 targets

**GADOLINIUM 158**

\*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

**GADOLINIUM 158 TARGET***ETDE: 1976-07-09*

BT1 targets

**GADOLINIUM 159**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 rare earth nuclei

**GADOLINIUM 159 TARGET***INIS: 1976-04-03; ETDE: 1976-07-12*

BT1 targets

**GADOLINIUM 160**

\*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

**GADOLINIUM 160 TARGET***ETDE: 1976-07-09*

BT1 targets

**GADOLINIUM 161**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

**GADOLINIUM 162**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

**GADOLINIUM 163***INIS: 1982-04-14; ETDE: 1981-09-08*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 rare earth nuclei

**GADOLINIUM 164***INIS: 1988-10-10; ETDE: 1988-11-01*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**GADOLINIUM 165***1998-09-23*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 gadolinium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**GADOLINIUM ADDITIONS***Alloys containing not more than 1% Gd are listed here.*

\*BT1 gadolinium alloys  
 \*BT1 rare earth additions

**GADOLINIUM ALLOYS***Alloys containing more than 1% Gd.*

\*BT1 rare earth alloys  
 NT1 gadolinium additions  
 NT1 gadolinium base alloys

**GADOLINIUM ARSENIDES***INIS: 1977-10-17; ETDE: 1977-08-09*

\*BT1 arsenides  
 \*BT1 gadolinium compounds

**GADOLINIUM BASE ALLOYS**

\*BT1 gadolinium alloys

**GADOLINIUM BORIDES**

\*BT1 borides  
 \*BT1 gadolinium compounds

**GADOLINIUM BROMIDES**

\*BT1 bromides  
 \*BT1 gadolinium compounds

**GADOLINIUM CARBIDES**

\*BT1 carbides  
 \*BT1 gadolinium compounds

**GADOLINIUM CARBONATES**

\*BT1 carbonates  
 \*BT1 gadolinium compounds

**GADOLINIUM CHLORIDES**

\*BT1 chlorides  
 \*BT1 gadolinium compounds

**GADOLINIUM COMPLEXES**

\*BT1 rare earth complexes

**GADOLINIUM COMPOUNDS**

BT1 rare earth compounds  
 NT1 gadolinium arsenides  
 NT1 gadolinium borides  
 NT1 gadolinium bromides  
 NT1 gadolinium carbides  
 NT1 gadolinium carbonates  
 NT1 gadolinium chlorides  
 NT1 gadolinium fluorides  
 NT1 gadolinium hydrides  
 NT1 gadolinium hydroxides  
 NT1 gadolinium iodides  
 NT1 gadolinium nitrates  
 NT1 gadolinium nitrides  
 NT1 gadolinium oxides  
 NT1 gadolinium perchlorates  
 NT1 gadolinium phosphates  
 NT1 gadolinium phosphides  
 NT1 gadolinium selenides  
 NT1 gadolinium silicides  
 NT1 gadolinium sulfates  
 NT1 gadolinium sulfides  
 NT1 gadolinium tellurides  
 NT1 gadolinium tungstates

**GADOLINIUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 gadolinium compounds

**GADOLINIUM HYDRIDES**

\*BT1 gadolinium compounds  
 \*BT1 hydrides

**GADOLINIUM HYDROXIDES**

\*BT1 gadolinium compounds  
 \*BT1 hydroxides

**GADOLINIUM IODIDES**

\*BT1 gadolinium compounds  
 \*BT1 iodides

**GADOLINIUM IONS**

\*BT1 ions

**GADOLINIUM ISOTOPES***1997-01-30*

BT1 isotopes  
 NT1 gadolinium 135  
 NT1 gadolinium 137  
 NT1 gadolinium 138  
 NT1 gadolinium 139  
 NT1 gadolinium 140  
 NT1 gadolinium 141  
 NT1 gadolinium 142  
 NT1 gadolinium 143  
 NT1 gadolinium 144  
 NT1 gadolinium 145  
 NT1 gadolinium 146  
 NT1 gadolinium 147  
 NT1 gadolinium 148  
 NT1 gadolinium 149  
 NT1 gadolinium 150  
 NT1 gadolinium 151  
 NT1 gadolinium 152  
 NT1 gadolinium 153  
 NT1 gadolinium 154  
 NT1 gadolinium 155  
 NT1 gadolinium 156  
 NT1 gadolinium 157  
 NT1 gadolinium 158  
 NT1 gadolinium 159  
 NT1 gadolinium 160  
 NT1 gadolinium 161  
 NT1 gadolinium 162  
 NT1 gadolinium 163  
 NT1 gadolinium 164  
 NT1 gadolinium 165

**GADOLINIUM NITRATES**

\*BT1 gadolinium compounds  
 \*BT1 nitrates

**GADOLINIUM NITRIDES**

\*BT1 gadolinium compounds  
 \*BT1 nitrides

**GADOLINIUM OXIDES**

\*BT1 gadolinium compounds  
 \*BT1 oxides

**GADOLINIUM PERCHLORATES**

\*BT1 gadolinium compounds  
 \*BT1 perchlorates

**GADOLINIUM PHOSPHATES**

\*BT1 gadolinium compounds  
 \*BT1 phosphates

**GADOLINIUM PHOSPHIDES***INIS: 1979-02-21; ETDE: 1976-08-25*

\*BT1 gadolinium compounds  
 \*BT1 phosphides

**GADOLINIUM SELENIDES***INIS: 1977-01-25; ETDE: 1976-08-24*

\*BT1 gadolinium compounds  
 \*BT1 selenides

**GADOLINIUM SILICIDES**

\*BT1 gadolinium compounds  
 \*BT1 silicides

**GADOLINIUM SULFATES**

\*BT1 gadolinium compounds  
 \*BT1 sulfates

**GADOLINIUM SULFIDES**

\*BT1 gadolinium compounds  
 \*BT1 sulfides

**GADOLINIUM TELLURIDES***INIS: 1977-01-25; ETDE: 1977-04-13*

\*BT1 gadolinium compounds  
 \*BT1 tellurides

**GADOLINIUM TUNGSTATES**

1988-02-02

- \*BT1 gadolinium compounds
- \*BT1 tungstates

**gages (pressure)**

USE pressure gages

**gages (strain)**

USE strain gages

**GAIN**

- BT1 amplification
- RT amplifiers
- RT lock-in amplifiers

**GALACTIC EVOLUTION**

- BT1 evolution
- RT astrophysics
- RT cosmological models
- RT cosmology
- RT galaxies
- RT planet-system accretion
- RT star evolution
- RT universe

**GALACTOSE**

- \*BT1 aldehydes
- \*BT1 hexoses
- RT cerebrosides

**GALACTOSIDASE**

Code numbers 3.2.1.22 and 3.2.1.23.

- \*BT1 o-glycosyl hydrolases

**GALACTURONIC ACID**

- \*BT1 aldehydes
- \*BT1 hydroxy acids
- RT pectins

**GALAXIES**

- UF local group
- NT1 magellanic clouds
- NT1 markarian galaxies
- NT1 milky way
- NT1 radio galaxies
- NT1 seyfert galaxies
- NT1 x-ray galaxies
- RT galactic evolution
- RT galaxy clusters
- RT galaxy nuclei
- RT nebulae
- RT nonluminous matter

**GALAXY CLUSTERS**

- UF clusters (galaxy)
- RT galaxies

**GALAXY NUCLEI**

INIS: 1978-11-24; ETDE: 1978-12-20

Central part of galaxies.

- RT galaxies

**GALENA**

- \*BT1 sulfide minerals
- RT lead sulfides

**GALERKIN-PETROV METHOD**

- UF petrov-galerkin method
- \*BT1 iterative methods
- RT analytical solution
- RT equations
- RT mathematics
- RT numerical solution

**GALILEI TRANSFORMATIONS**

- BT1 transformations
- RT group theory
- RT mechanics
- RT space-time
- RT special relativity theory

**galileo galilei italy**

USE rts-1 reactor

**gallbladder**

USE biliary tract

**GALLIC ACID**

UF trihydroxybenzoic acid

- \*BT1 hydroxy acids

**GALLIUM**

- \*BT1 metals

**GALLIUM 60**

2002-02-21

- \*BT1 beta-plus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**GALLIUM 61**

1980-05-14

- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**GALLIUM 62**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**GALLIUM 63**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**GALLIUM 64**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**GALLIUM 65**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**GALLIUM 65 TARGET**

ETDE: 1976-07-09

- BT1 targets

**GALLIUM 66**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gallium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**GALLIUM 67**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**GALLIUM 67 TARGET**

ETDE: 1976-07-09

- BT1 targets

**GALLIUM 68**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gallium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei

**GALLIUM 69**

- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**GALLIUM 69 TARGET**

ETDE: 1976-07-09

- BT1 targets

**GALLIUM 70**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**GALLIUM 71**

- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**GALLIUM 71 TARGET**

ETDE: 1976-07-09

- BT1 targets

**GALLIUM 72**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**GALLIUM 73**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei

**GALLIUM 74**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GALLIUM 75**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**GALLIUM 76**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GALLIUM 77**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**GALLIUM 78**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GALLIUM 79**

*INIS: 1976-01-27; ETDE: 1975-10-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**GALLIUM 80**

*INIS: 1976-01-27; ETDE: 1975-10-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**GALLIUM 81**

*INIS: 1977-06-13; ETDE: 1976-07-07*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**GALLIUM 82**

*INIS: 1980-07-24; ETDE: 1976-07-07*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**GALLIUM 83**

*INIS: 1980-07-24; ETDE: 1976-07-07*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**GALLIUM 84**

*1992-03-18*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 gallium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**GALLIUM ADDITIONS**

*Alloys containing not more than 1% Ga are listed here.*

- \*BT1 gallium alloys

**GALLIUM ALLOYS**

*Alloys containing more than 1% Ga.*

- BT1 alloys
- NT1 gallium additions
- NT1 gallium base alloys

**GALLIUM ANTIMONIDES**

*INIS: 1994-04-11; ETDE: 1976-08-04*

- \*BT1 antimonides
- BT1 gallium compounds

**GALLIUM ARSENIDE SOLAR CELLS**

*1992-05-28*

- \*BT1 solar cells

**GALLIUM ARSENIDES**

- \*BT1 arsenides
- BT1 gallium compounds

**GALLIUM BASE ALLOYS**

- \*BT1 gallium alloys

**GALLIUM BROMIDES**

- \*BT1 bromides
- \*BT1 gallium halides

**GALLIUM CARBIDES**

- \*BT1 carbides
- BT1 gallium compounds

**GALLIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 gallium halides

**GALLIUM COMPLEXES**

- BT1 complexes

**GALLIUM COMPOUNDS**

- NT1 gallium antimonides
- NT1 gallium arsenides
- NT1 gallium carbides
- NT1 gallium halides
- NT2 gallium bromides
- NT2 gallium chlorides
- NT2 gallium fluorides
- NT2 gallium iodides
- NT1 gallium hydroxides
- NT1 gallium nitrates
- NT1 gallium nitrides
- NT1 gallium oxides
- NT1 gallium phosphates
- NT1 gallium phosphides
- NT1 gallium selenides
- NT1 gallium sulfates
- NT1 gallium sulfides
- NT1 gallium tellurides

**GALLIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 gallium halides

**GALLIUM HALIDES**

*INIS: 1991-09-16; ETDE: 1984-06-29*

- BT1 gallium compounds
- \*BT1 halides
- NT1 gallium bromides
- NT1 gallium chlorides
- NT1 gallium fluorides
- NT1 gallium iodides

**GALLIUM HYDROXIDES**

- BT1 gallium compounds
- \*BT1 hydroxides

**GALLIUM IODIDES**

- \*BT1 gallium halides
- \*BT1 iodides

**GALLIUM IONS**

- \*BT1 ions

**GALLIUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 gallium 60
- NT1 gallium 61
- NT1 gallium 62
- NT1 gallium 63
- NT1 gallium 64
- NT1 gallium 65
- NT1 gallium 66
- NT1 gallium 67
- NT1 gallium 68
- NT1 gallium 69
- NT1 gallium 70
- NT1 gallium 71
- NT1 gallium 72
- NT1 gallium 73
- NT1 gallium 74
- NT1 gallium 75
- NT1 gallium 76
- NT1 gallium 77
- NT1 gallium 78
- NT1 gallium 79

- NT1 gallium 80
- NT1 gallium 81
- NT1 gallium 82
- NT1 gallium 83
- NT1 gallium 84

**GALLIUM NITRATES**

*1977-06-13*

- BT1 gallium compounds
- \*BT1 nitrates

**GALLIUM NITRIDES**

- BT1 gallium compounds
- \*BT1 nitrides

**GALLIUM OXIDES**

- BT1 gallium compounds
- \*BT1 oxides

**GALLIUM PHOSPHATES**

*INIS: 1977-09-15; ETDE: 1975-10-01*

- BT1 gallium compounds
- \*BT1 phosphates

**GALLIUM PHOSPHIDE SOLAR CELLS**

*2000-04-12*

- \*BT1 solar cells

**GALLIUM PHOSPHIDES**

- BT1 gallium compounds
- \*BT1 phosphides

**GALLIUM SELENIDES**

*1976-07-06*

- BT1 gallium compounds
- \*BT1 selenides

**GALLIUM SULFATES**

- BT1 gallium compounds
- \*BT1 sulfates

**GALLIUM SULFIDES**

- BT1 gallium compounds
- \*BT1 sulfides

**GALLIUM TELLURIDES**

*1977-09-06*

- BT1 gallium compounds
- \*BT1 tellurides

***gallotannic acid***

USE tannic acid

***gallstones***

USE biliary tract  
USE calculi

***galoter process***

*INIS: 2000-04-12; ETDE: 1977-03-08*

*Shale fines are processed in rotating kiln and hot spent shale is used as heat carrier.*

*(Prior to January 1995, this was a valid ETDE descriptor.)*

SEE oil shales

***galvanic corrosion***

USE electrochemical corrosion

**GALVANOMAGNETIC EFFECT**

RT magnetic fields

**GALVANOMETERS**

\*BT1 electric measuring instruments

**GALVESTON BAY**

*INIS: 1992-01-09; ETDE: 1976-10-13*

- \*BT1 bays
- \*BT1 gulf of mexico
- RT texas

**GAMBIA**

*INIS: 1991-10-22; ETDE: 1978-07-05*

- BT1 africa

BT1 developing countries

## GAME THEORY

INIS: 1996-05-06; ETDE: 1977-05-07  
Application of mathematics to a game, business situation, or other problem to maximize gain and minimize loss.

\*BT1 statistics  
RT decision making  
RT information theory  
RT probability

## GAMETES

BT1 germ cells  
NT1 ova  
NT1 pollen  
NT1 spermatozoa  
RT fertilization  
RT gametogenesis  
RT haploidy  
RT zygotes

## GAMETOGENESIS

NT1 oogenesis  
NT1 spermatogenesis  
RT cell division  
RT gametes  
RT germ cells  
RT gonads  
RT meiosis

## GAMMA 10 DEVICES

INIS: 1989-02-24; ETDE: 1989-03-20  
Tsukuba University, Japan.

\*BT1 tandem mirrors

## GAMMA ASTRONOMY

INIS: 1978-07-31; ETDE: 1978-09-11  
For photon energies above 100 keV.

BT1 astronomy  
RT cosmic gamma sources  
RT cosmic radiation  
RT cosmic x-ray sources

## gamma benzene hexachloride

INIS: 1976-05-07; ETDE: 2002-06-13  
USE lindane

## GAMMA CAMERAS

Instruments consisting of a large, thin scintillation crystal or array of photomultiplier tubes, a multichannel collimator, and circuitry to analyze the pulses produced by the photomultiplier.

UF scintillation cameras  
BT1 cameras  
NT1 positron cameras  
RT compton scattering tomography  
RT emission computed tomography  
RT nuclear medicine  
RT radioisotope scanners  
RT single photon emission computed tomography

## GAMMA CASCADES

\*BT1 nuclear cascades  
RT cascade theory

## GAMMA DECAY

INIS: 1978-02-23; ETDE: 1988-10-12  
\*BT1 nuclear decay  
RT internal conversion

## GAMMA DETECTION

UF photon detection (gamma)  
\*BT1 radiation detection  
RT compton diode detectors  
RT filament crystal counters  
RT gamma dosimetry  
RT gamma spectrometers  
RT gamma spectroscopy  
RT radiation detectors

RT radioisotope scanning

## GAMMA DIFFRACTOMETERS

\*BT1 diffractometers  
RT crystallography  
RT diffraction  
RT x-ray diffractometers

## GAMMA DOSIMETRY

BT1 dosimetry  
RT gamma detection

## GAMMA FUEL SCANNING

BT1 fuel scanning  
\*BT1 gamma radiography

## GAMMA FUNCTION

BT1 functions  
RT mathematics

## GAMMA-GAMMA LOGGING

INIS: 1976-10-29; ETDE: 1976-06-07  
Gamma source and gamma detector.  
UF density log  
\*BT1 radioactivity logging

## gamma heating

USE radiation heating

## gamma hexachlorohexane

INIS: 1976-05-07; ETDE: 2002-06-13  
USE lindane

## GAMMA LOGGING

INIS: 1976-10-29; ETDE: 1976-06-07  
Logging the natural gamma activity of a well.  
\*BT1 radioactivity logging  
RT natural radioactivity

## GAMMA RADIATION

\*BT1 electromagnetic radiation  
\*BT1 ionizing radiations  
NT1 delayed gamma radiation  
NT1 prompt gamma radiation  
RT cosmic gamma sources  
RT gamma sources  
RT gamma spectra  
RT photons  
RT x radiation

## GAMMA RADIOGRAPHY

1999-12-03  
\*BT1 industrial radiography  
NT1 gamma fuel scanning

## gamma-ray lasers

INIS: 1981-04-03; ETDE: 1978-03-08  
(Prior to August 1981, this was a valid ETDE descriptor.)  
USE gasers

## gamma reactions

INIS: 2000-04-12; ETDE: 1985-03-12  
USE photonuclear reactions

## GAMMA SOURCES

For cosmic sources of gamma radiation use COSMIC GAMMA SOURCES.  
BT1 radiation sources  
RT gamma radiation  
RT gasers

## GAMMA SPECTRA

BT1 spectra  
RT escape peaks  
RT gamma radiation

## GAMMA SPECTROMETERS

\*BT1 spectrometers  
NT1 compton spectrometers  
NT1 moessbauer spectrometers  
NT1 pair spectrometers  
RT gamma detection

RT whole-body counters

## gamma spectrometry

INIS: 1975-10-23; ETDE: 2002-06-13  
USE gamma spectroscopy

## GAMMA SPECTROSCOPY

UF gamma spectrometry  
BT1 spectroscopy  
RT fuel cooling time  
RT gamma detection  
RT radiometric surveys

## gamma transmission scanning

USE photon transmission scanning

## GAMMA TRANSPORT THEORY

BT1 transport theory  
RT photon transport

## GAMMAPHOS

1984-05-24  
S-2-(Omega-aminopropylaminoethyl) phosphorothioate.  
\*BT1 amines  
\*BT1 radioprotective substances  
\*BT1 thiophosphoric acid esters

## gammel-brueckner potential

1999-12-06  
(Prior to January 1995, this was a valid ETDE descriptor.)  
USE nucleon-nucleon potential

## gammel-christian-thaler theory

USE gammel-thaler potential

## GAMMEL-THALER POTENTIAL

UF gammel-christian-thaler theory  
\*BT1 ope potential

## GAMOW BARRIER

UF gamow factor  
RT alpha decay  
RT nuclear potential

## gamow factor

USE gamow barrier

## gamow-teller decay

USE gamow-teller rules

## GAMOW-TELLER RULES

UF gamow-teller decay  
UF gamow-teller theory  
RT beta decay

## gamow-teller theory

USE gamow-teller rules

## GANGA RIVER

UF ganges river  
\*BT1 rivers  
RT bangladesh  
RT india

## ganges river

INIS: 1999-12-31; ETDE: 1976-05-17  
USE ganga river

## GANGLIONS

BT1 nervous system  
RT autonomic nervous system  
RT spinal cord  
RT thalamus

## GANGLIOSIDES

\*BT1 glycolipids  
\*BT1 organic nitrogen compounds  
RT sialic acid

## GANGRENE

\*BT1 necrosis  
RT ulcers

**GANGUE**

- BT1 residues  
RT slags

**ganil**

INIS: 1999-12-31; ETDE: 1976-05-13  
(Prior to July 1985, this was a valid ETDE descriptor.)  
USE ganil cyclotron

**GANIL CYCLOTRON**

INIS: 1976-07-30; ETDE: 1979-05-31  
*Grand Accelérateur National à Ions Lourds; a heavy ion accelerator consisting of two identical isochronous cyclotrons and a particle booster for injection, located in Caen, France.*

- UF ganil  
UF grand accélérateur national d'ions lourds

- \*BT1 heavy ion accelerators  
\*BT1 isochronous cyclotrons  
RT heavy ions

**garching ipp**

INIS: 2000-04-12; ETDE: 1976-05-19  
USE ipp garching

**gardenhose instability**

- USE hose instability

**GARDENING**

INIS: 1999-12-31; ETDE: 1979-03-29  
RT agriculture  
RT horticulture  
RT leisure time activities

**GARIGLIANO REACTOR**

*Sessa Aurunea, Caserta, Italy.*  
UF sem reactor  
\*BT1 bwr type reactors

**GARLIC**

1992-09-09  
\*BT1 vegetables  
RT allium sativum  
RT bulbs  
RT sprout inhibition

**GARNETS**

1996-11-13  
*For silicate garnets only.*  
UF andradite  
\*BT1 silicate minerals  
RT calcium silicates  
RT ferrite garnets  
RT iron silicates

**GARONA REACTOR**

UF santa maria de garona nuclear power plant  
UF santa maria de garona power reactor  
\*BT1 bwr type reactors

**garrett process**

INIS: 2000-04-12; ETDE: 1977-03-08  
USE oxy modified in-situ process

**garrett pyrolysis process**

2000-04-12  
USE occidental flash pyrolysis process

**GAS ANALYSIS**

1996-01-24  
UF analysis (gas)  
SF orsat apparatus  
RT electron-capture detectors  
RT gas chromatography  
RT gases  
RT ion-mobility detectors  
RT photoacoustic spectrometers  
RT quantitative chemical analysis

- RT radio-release analysis

**GAS APPLIANCES**

INIS: 1993-01-22; ETDE: 1977-06-21  
UF natural gas appliances  
UF stoves (gas burning)  
\*BT1 appliances  
RT clothes dryers  
RT clothes washers  
RT dishwashers  
RT freezers  
RT ovens  
RT refrigerators  
RT water heaters

**GAS BEARINGS**

- BT1 bearings

**GAS BLANKETS**

INIS: 1975-08-22; ETDE: 1975-10-01  
*For plasma confinement. For other gas blankets see COVER GAS or INERT ATMOSPHERE.*  
UF blankets (gas)  
RT plasma  
RT plasma confinement

**GAS BUBBLE DISEASE**

INIS: 2000-01-04; ETDE: 1976-04-19  
RT water quality

**GAS BURNERS**

INIS: 1992-06-04; ETDE: 1979-05-09  
BT1 burners  
RT combustion  
RT gas furnaces

**gas bursts**

INIS: 2000-01-04; ETDE: 1977-05-07  
USE rock bursts

**GAS CENTRIFUGATION**

1976-01-27  
\*BT1 centrifugation  
\*BT1 isotope separation  
RT centrifuge enrichment plants  
RT gas centrifuges  
RT isotope enriched materials  
RT isotopes  
RT ultracentrifugation

**GAS CENTRIFUGES**

\*BT1 centrifuges  
RT gas centrifugation  
RT isotope separation  
RT ultracentrifuges

**GAS CHROMATOGRAPHY**

\*BT1 chromatography  
RT gas analysis  
RT partition

**GAS COMBUSTION PROCESS**

2000-04-12  
*A process that involves the direct heating of oil shales by hot gases from combustion within the retorting vessel.*  
RT oil shales

**GAS COMPRESSORS**

ETDE: 1975-09-12  
BT1 compressors  
RT compressed gases  
RT vapor compression refrigeration cycle

**GAS CONDENSATE FIELDS**

INIS: 1993-01-18; ETDE: 1977-07-23  
*Oil and gas reservoirs that produce more gas than oil. Condensate does not appear until the gas climbs the well bore and its temperature and pressure are reduced sufficiently to condense some of it into liquid petroleum.*  
\*BT1 natural gas fields

- \*BT1 petroleum deposits  
RT gas condensate wells  
RT oil fields

**GAS CONDENSATE WELLS**

INIS: 1992-09-07; ETDE: 1982-12-01  
BT1 wells  
RT gas condensate fields  
RT gas condensates  
RT natural gas wells  
RT oil wells

**GAS CONDENSATES**

INIS: 1992-08-13; ETDE: 1980-05-23  
BT1 condensates  
\*BT1 natural gas liquids  
RT gas condensate wells

**gas coolants**

- USE gases

**gas cooled fast breeder reactor**

1993-11-08  
USE gcf reactor

**gas cooled fast breeder reactors**

1993-11-08  
USE gcf type reactors

**gas cooled graphite moderated reactors**

2000-01-05  
USE gcr type reactors

**gas cooled reactor experiment**

2000-04-12  
USE gre reactor

**GAS COOLED REACTORS**

SF 710 reactor  
BT1 reactors  
NT1 air cooled reactors  
NT2 afsr reactor  
NT2 bepo reactor  
NT2 bgr reactor  
NT2 br-1 reactor  
NT2 g-1 reactor  
NT2 gleep reactor  
NT2 harmonie reactor  
NT2 hprr reactor  
NT2 kalpakkam pfr reactor  
NT2 masurca reactor  
NT2 sneak reactor  
NT2 stf reactor  
NT2 tory-2a reactor  
NT2 tory-2c reactor  
NT2 treat reactor  
NT2 windscale production reactors  
NT2 x-10 reactor  
NT2 xma-1 reactor  
NT2 zed-2 reactor  
NT1 carbon dioxide cooled reactors  
NT2 berkeley reactor  
NT2 bohunice a-1 reactor  
NT2 bradwell reactor  
NT2 bugey-1 reactor  
NT2 calder hall a-1 reactor  
NT2 calder hall a-2 reactor  
NT2 calder hall b-3 reactor  
NT2 calder hall b-4 reactor  
NT2 cesar reactor  
NT2 chapelcross-1 reactor  
NT2 chapelcross-2 reactor  
NT2 chapelcross-3 reactor  
NT2 chapelcross-4 reactor  
NT2 chinon-1 reactor  
NT2 chinon-2 reactor  
NT2 chinon-3 reactor  
NT2 connah quay-b reactor  
NT2 dungeness-a reactor  
NT2 dungeness-b reactor

NT2 el-2 reactor  
 NT2 el-4 reactor  
 NT2 g-2 reactor  
 NT2 g-3 reactor  
 NT2 hartlepool reactor  
 NT2 hector reactor  
 NT2 hero reactor  
 NT2 heysham-a reactor  
 NT2 heysham-b reactor  
 NT2 hinkley point-a reactor  
 NT2 hinkley point-b reactor  
 NT2 hunterston-a reactor  
 NT2 hunterston-b reactor  
 NT2 latina reactor  
 NT2 lucens reactor  
 NT2 niederreichbach reactor  
 NT2 oldbury-a reactor  
 NT2 oldbury-b reactor  
 NT2 saint laurent-1 reactor  
 NT2 saint laurent-2 reactor  
 NT2 sizewell-a reactor  
 NT2 tokai-mura reactor  
 NT2 torness reactor  
 NT2 trawsfynydd reactor  
 NT2 vandellos reactor  
 NT2 wagr reactor  
 NT2 wylfa reactor  
 NT1 ewg-1 reactor  
 NT1 gcfr type reactors  
 NT2 gcfr reactor  
 NT1 ger type reactors  
 NT2 agr type reactors  
 NT3 connah quay-b reactor  
 NT3 dungeness-b reactor  
 NT3 hartlepool reactor  
 NT3 heysham-a reactor  
 NT3 heysham-b reactor  
 NT3 hinkley point-b reactor  
 NT3 hunterston-b reactor  
 NT3 torness reactor  
 NT3 wagr reactor  
 NT2 bugey-1 reactor  
 NT2 chinon-1 reactor  
 NT2 chinon-2 reactor  
 NT2 chinon-3 reactor  
 NT2 g-1 reactor  
 NT2 g-2 reactor  
 NT2 g-3 reactor  
 NT2 magnox type reactors  
 NT3 berkeley reactor  
 NT3 bradwell reactor  
 NT3 calder hall a-1 reactor  
 NT3 calder hall a-2 reactor  
 NT3 calder hall b-3 reactor  
 NT3 calder hall b-4 reactor  
 NT3 chapelcross-1 reactor  
 NT3 chapelcross-2 reactor  
 NT3 chapelcross-3 reactor  
 NT3 chapelcross-4 reactor  
 NT3 dungeness-a reactor  
 NT3 hinkley point-a reactor  
 NT3 hunterston-a reactor  
 NT3 latina reactor  
 NT3 oldbury-a reactor  
 NT3 sizewell-a reactor  
 NT3 tokai-mura reactor  
 NT3 trawsfynydd reactor  
 NT3 wylfa reactor  
 NT2 saint laurent-1 reactor  
 NT2 saint laurent-2 reactor  
 NT2 vandellos reactor  
 NT1 helium cooled reactors  
 NT2 avr reactor  
 NT2 dragon reactor  
 NT2 ebora reactor  
 NT2 eger reactor  
 NT2 fulton-1 reactor  
 NT2 fulton-2 reactor  
 NT2 gcfr reactor  
 NT2 gre reactor  
 NT2 htr-10 reactor  
 NT2 htr reactor  
 NT2 ica-zpr reactor  
 NT2 peach bottom-1 reactor  
 NT2 schmehausen-2 reactor  
 NT2 summit-1 reactor  
 NT2 summit-2 reactor  
 NT2 thtr-300 reactor  
 NT2 uhtrex reactor  
 NT2 vg-400 reactor  
 NT2 vgr-50 reactor  
 NT2 vhr reactor  
 NT2 vidal-1 reactor  
 NT2 vidal-2 reactor  
 NT2 vrain reactor  
 NT1 htgr type reactors  
 NT2 avr reactor  
 NT2 dragon reactor  
 NT2 fulton-1 reactor  
 NT2 fulton-2 reactor  
 NT2 ga standard reactor  
 NT2 htr-10 reactor  
 NT2 htr reactor  
 NT2 kahter reactor  
 NT2 peach bottom-1 reactor  
 NT2 schmehausen-2 reactor  
 NT2 summit-1 reactor  
 NT2 summit-2 reactor  
 NT2 thtr-300 reactor  
 NT2 vg-400 reactor  
 NT2 vgr-50 reactor  
 NT2 vhr reactor  
 NT2 vidal-1 reactor  
 NT2 vidal-2 reactor  
 NT2 vrain reactor  
 NT1 hwgr type reactors  
 NT2 bohunice a-1 reactor  
 NT2 bohunice a-2 reactor  
 NT2 el-4 reactor  
 NT2 lucens reactor  
 NT2 niederreichbach reactor  
 NT1 hydrogen cooled reactors  
 NT2 kiwi reactors  
 NT3 kiwi-tnt reactor  
 NT2 nerva reactor  
 NT2 nrx-a2 reactor  
 NT2 nrx-a3 reactor  
 NT2 nrx-a4-est reactor  
 NT2 nrx-a5 reactor  
 NT2 nrx-a6 reactor  
 NT2 pewee-1 reactor  
 NT2 pewee-2 reactor  
 NT2 pewee-3 reactor  
 NT2 pewee-4 reactor  
 NT2 phoebus-1a reactor  
 NT2 phoebus-1b reactor  
 NT2 phoebus-2a reactor  
 NT2 rover reactors  
 NT2 xe-prime reactor  
 NT1 nitrogen cooled reactors  
 NT2 htr reactor  
 NT2 ml-1 reactor  
 NT2 zenith reactor  
 NT1 pebble bed reactors  
 NT2 avr reactor  
 NT2 thtr-300 reactor  
 NT2 vg-400 reactor  
 NT2 vgr-50 reactor  
 RT steam cooled reactors  
**GAS COOLING**  
 BT1 cooling  
**GAS CYLINDERS**  
 BT1 containers  
**GAS DISCHARGE TUBES**  
 1996-01-24  
 BT1 electron tubes

NT1 flash tubes  
 NT1 ignitrons  
 NT1 thyratrons

### GAS DYNAMIC LASERS

INIS: 1992-08-11; ETDE: 1981-08-21  
 \*BT1 gas lasers

### gas engines

1994-09-09  
 USE internal combustion engines

### gas fields

INIS: 1992-02-19; ETDE: 1976-03-11  
 USE natural gas fields

### GAS FLOW

UF dampers (gas flow)  
 UF draft control systems  
 BT1 fluid flow  
 NT1 air flow  
 NT1 knudsen flow  
 NT1 slip flow  
 RT aerodynamics  
 RT air curtains  
 RT air infiltration  
 RT compressible flow  
 RT electrogasdynamics  
 RT magnetogasdynamics  
 RT multiphase flow  
 RT two-phase flow

### GAS-FLOW PROCESSES

INIS: 2000-04-12; ETDE: 1975-11-11  
 Oil shale retorting processes in which heat transfer is effected by an externally heated carrier fluid, in this case superheated steam mixed with air.  
 RT oil shales

### GAS FUELED REACTORS

\*BT1 fluid fueled reactors  
 \*BT1 homogeneous reactors  
 NT1 coaxial flow reactors  
 NT1 light bulb reactors  
 NT1 plasma core assembly  
 RT gas fuels

### GAS FUELS

2000-01-05  
 BT1 fuels  
 NT1 fuel gas  
 NT2 high btu gas  
 NT2 intermediate btu gas  
 NT3 carburetted water gas  
 NT3 town gas  
 NT3 water gas  
 NT2 landfill gas  
 NT2 low btu gas  
 NT3 producer gas  
 NT2 natural gas  
 NT3 abiogenic gas  
 NT3 liquefied natural gas  
 RT fissioning plasma  
 RT gas fueled reactors  
 RT nuclear fuels

### GAS FURNACES

INIS: 1993-03-10; ETDE: 1977-03-04  
 BT1 furnaces  
 RT gas burners

### GAS GENERATORS

INIS: 2000-01-04; ETDE: 1976-11-17  
 Devices used to generate gases in the laboratory; chemical plants for producing gas from coal, for example, water gas.  
 NT1 hydrogen generators  
 RT furnaces  
 RT gases  
 RT oil shale processing plants  
 RT wellman-incandescent process

**GAS HEAT PUMPS**

INIS: 2000-01-05; ETDE: 1980-11-25

- BT1 heat pumps
- RT natural gas
- RT space hvac systems

**GAS HYDRATES**

INIS: 1993-01-28; ETDE: 1977-01-28

*Crystalline solid clathrate compound formed by natural gas and water and insoluble in water.*

- UF methane hydrates
- BT1 hydrates
- RT natural gas
- RT natural gas hydrate deposits
- RT pipelines

**GAS INJECTION**

INIS: 1981-07-06; ETDE: 1976-03-11

- BT1 fluid injection
- RT petroleum
- RT thermonuclear fuels
- RT thermonuclear reactor fueling
- RT well stimulation

**GAS-INSULATED CABLES**

INIS: 1976-08-17; ETDE: 1976-03-11

- \*BT1 electric cables
- RT power transmission
- RT power transmission lines
- RT superconducting cables

**GAS-INSULATED SUBSTATIONS**

INIS: 1993-03-24; ETDE: 1982-03-10

- BT1 power substations
- RT power distribution systems
- RT sulfur fluorides

**GAS-INSULATED TRANSFORMERS**

INIS: 2000-01-05; ETDE: 1981-05-18

- \*BT1 transformers
- RT power systems
- RT power transmission

**GAS LASERS**

1995-07-21

- BT1 lasers
- NT1 carbon dioxide lasers
- NT1 carbon monoxide lasers
- NT1 excimer lasers
- NT2 krypton chloride lasers
- NT2 krypton fluoride lasers
- NT1 gas dynamic lasers
- NT1 helium-neon lasers
- NT1 helium-xenon lasers
- NT1 iodine lasers
- NT1 metal vapor lasers

**GAS LIFTS**

INIS: 1992-07-21; ETDE: 1977-01-28

*Process of lifting fluids from a well by injecting relatively high-pressure gas.*

- BT1 artificial lifts
- RT oil wells
- RT petroleum

**GAS LUBRICANTS**

- BT1 lubricants

**GAS METAL-ARC WELDING**

- \*BT1 arc welding
- NT1 gas tungsten-arc welding

**GAS METERS**

INIS: 1992-03-12; ETDE: 1978-04-06

- UF hydrocarbon logging
- \*BT1 meters
- RT energy consumption
- RT master metering
- RT natural gas

**gas odorization**

INIS: 2000-04-12; ETDE: 1977-03-04

USE odorization

**GAS OILS**

1992-01-09

*Petroleum distillates boiling within the general range 204 degrees to 593 degrees C.*

- \*BT1 petroleum distillates
- BT1 petroleum products
- NT1 diesel fuels
- NT1 fuel oils
- NT2 heating oils
- NT2 residual fuels
- NT1 kerosene

**gas production rates**

INIS: 2000-04-12; ETDE: 1979-09-26

*Rates for production of helium or hydrogen in the lattice structure of reactor structural materials, induced by neutron irradiation. (Prior to June 1994, this was a valid ETDE descriptor.)*

- SEE interstitial helium generation
- SEE interstitial hydrogen generation

**GAS RECYCLE HYDROGENATION PROCESS**

INIS: 2000-04-12; ETDE: 1976-01-23

*Gasification of distillate feed stock produced from crude oil to manufacture sng.*

- BT1 sng processes
- RT petroleum
- RT steam reformer processes

**GAS SATURATION**

INIS: 1992-07-10; ETDE: 1977-06-02

*Degree of filling of reservoir pore structure by reservoir gas.*

- UF reservoir gas saturation
- BT1 saturation
- RT oil saturation
- RT reservoir rock
- RT water saturation

**GAS SCINTILLATION DETECTORS**

- \*BT1 scintillation counters
- RT proportional counters
- RT rare gases

**GAS SPILLS**

INIS: 1992-04-09; ETDE: 1976-07-07

- UF lng spills
- BT1 accidents
- RT chemical spills
- RT hazardous materials spills
- RT natural gas
- RT pollution

**gas stations**

INIS: 2000-04-12; ETDE: 1979-05-09

USE gasoline service stations

**GAS TRACK DETECTORS**

- UF track detectors (gas)
- \*BT1 radiation detectors
- NT1 bubble chambers
- NT2 cryogenic bubble chambers
- NT2 heavy liquid bubble chambers
- NT2 ultrasonic bubble chambers
- NT1 cloud chambers
- NT2 diffusion chambers
- NT2 expansion chambers
- NT1 spark chambers
- NT2 filmless spark chambers
- NT3 sonic spark chambers
- NT3 wire spark chambers
- NT2 projection spark chambers
- NT2 streamer spark chambers
- NT2 wide gap spark chambers

**GAS TUNGSTEN-ARC WELDING**

- \*BT1 gas metal-arc welding

**GAS TURBINE ENGINES**

INIS: 1992-05-04; ETDE: 1979-02-23

- \*BT1 internal combustion engines
- RT aaps
- RT coal-fired gas turbines

**GAS TURBINE POWER PLANTS**

INIS: 1982-12-06; ETDE: 1979-09-06

- BT1 power plants
- RT coal-fired gas turbines
- RT combined-cycle power plants
- RT gas turbines
- RT peaking power plants
- RT power generation

**GAS TURBINES**

- \*BT1 turbines
- NT1 coal-fired gas turbines
- RT brayton cycle power systems
- RT gas turbine power plants
- RT steam turbines

**GAS UTILITIES**

INIS: 1992-04-09; ETDE: 1978-02-14

- SF utilities
- BT1 public utilities
- RT load analysis
- RT master metering
- RT natural gas distribution systems
- RT natural gas industry

**GAS WELDING**

- \*BT1 welding

**gas wells**

INIS: 1976-05-07; ETDE: 1975-10-01

USE natural gas wells

**GAS YIELDS**

INIS: 1993-07-21; ETDE: 1976-04-19

- BT1 yields
- RT productivity

**GASBUGGY EVENT**

- \*BT1 crosstie operation
- BT1 plowshare project
- RT natural gas
- RT oil shales

**GASEOUS DIFFUSION**

- BT1 diffusion

**GASEOUS DIFFUSION PLANTS**

- UF enrichment plants (gaseous diffusion)
- \*BT1 isotope separation plants
- NT1 cogema pierrelatte
- NT1 orgdp
- NT1 paducah plant
- NT1 portsmouth gaseous diffusion plant
- RT diffusion barriers
- RT eurodif
- RT gaseous diffusion process
- RT nuclear industry

**GASEOUS DIFFUSION PROCESS**

- \*BT1 isotope separation
- RT diffusion barriers
- RT gaseous diffusion plants
- RT orgdp

**gaseous effluents**

USE gaseous wastes

**GASEOUS WASTES**

- UF effluents (gaseous)
- UF gaseous effluents
- UF radioactive gaseous wastes
- BT1 wastes
- NT1 exhaust gases
- NT1 flue gas



RT chemical effluents  
 RT combustion products  
 RT electrostatic precipitators  
 RT fume hoods  
 RT gases  
 RT ground release  
 RT industrial wastes  
 RT off-gas systems  
 RT plumes  
 RT radioactive effluents  
 RT stack disposal  
 RT stacks  
 RT ventilation  
 RT waste disposal  
 RT waste forms

**GASERS**

INIS: 1999-02-22; ETDE: 1976-05-17  
*Gamma-ray Amplification by Stimulated Emission of Radiation.*

UF gamma-ray lasers  
 UF grasers  
 SF stimulated emission devices  
 RT gamma sources  
 RT lasers  
 RT masers  
 RT nuclear pumping  
 RT stimulated emission

**GASES**

See also *ELECTRON GAS* and *FERMI GAS*.

UF gas coolants  
 BT1 fluids  
 NT1 air  
 NT2 compressed air  
 NT2 surface air  
 NT1 associated gas  
 NT1 coal gas  
 NT1 compressed gases  
 NT2 compressed air  
 NT1 cosmic gases  
 NT1 cover gas  
 NT1 dissociating gases  
 NT1 dissolved gases  
 NT1 exhaust gases  
 NT1 fuel gas  
 NT2 high btu gas  
 NT2 intermediate btu gas  
 NT3 carburetted water gas  
 NT3 town gas  
 NT3 water gas  
 NT2 landfill gas  
 NT2 low btu gas  
 NT3 producer gas  
 NT2 natural gas  
 NT3 abiogenic gas  
 NT3 liquefied natural gas  
 NT1 ionized gases  
 NT2 fully ionized gases  
 NT3 lorentz gas  
 NT2 strongly ionized gases  
 NT2 weakly ionized gases  
 NT1 pyrolytic gases  
 NT1 rare gases  
 NT2 argon  
 NT2 helium  
 NT2 krypton  
 NT2 neon  
 NT2 radon  
 NT2 xenon  
 NT1 rarefied gases  
 NT1 refinery gases  
 NT1 shale gas  
 NT1 synthesis gas  
 NT1 vapors  
 NT2 water vapor  
 NT1 volcanic gases  
 RT aeration  
 RT boltzmann equation  
 RT buffers

RT coolants  
 RT dispersions  
 RT electron gas  
 RT fermi gas  
 RT gas analysis  
 RT gas generators  
 RT gaseous wastes  
 RT hard-sphere model  
 RT jesse effect  
 RT kinetic equations  
 RT kinetics  
 RT paschen law  
 RT phase diagrams  
 RT underground disposal  
 RT virial equation

**GASIFICATION**

Any technique for converting coal or other products into gaseous fuel. For other types of gasification, see *EVAPORATION*, *BOILING*, or *DISTILLATION*.

BT1 thermochemical processes  
 NT1 biothermgas process  
 NT1 coal gasification  
 NT2 agglomerating ash process  
 NT2 arc coal process  
 NT2 babcock and wilcox-dupont process  
 NT2 beacon process  
 NT2 bgc-lurgi slagging process  
 NT2 bi-gas process  
 NT2 ce entrained fuel process  
 NT2 coalcon process  
 NT2 cogas process  
 NT2 combined-cycle fw process  
 NT2 consol synthetic gas process  
 NT2 cs-r process  
 NT2 dow gasification process  
 NT2 exxon gasification process  
 NT2 flash hydrolysis process  
 NT2 gegas process  
 NT2 gkt process  
 NT2 htw process  
 NT2 humboldt gasification process  
 NT2 hydrane process  
 NT2 hygas process  
 NT2 i g process  
 NT2 kbw gasification process  
 NT2 kellogg process  
 NT2 kilngas process  
 NT2 kloekner-iron bath coal gasification process  
 NT2 koppers process  
 NT2 koppers-totzek process  
 NT2 krw gasification process  
 NT2 lurgi cfb gasification process  
 NT2 lurgi process  
 NT2 lurgi slagging process  
 NT2 molten iron puregas process  
 NT2 molten salt coal gasification process  
 NT2 moving-burden process  
 NT2 occidental flash pyrolysis process  
 NT2 otto rummel slag bath process  
 NT2 peatgas process  
 NT2 prenflo process  
 NT2 ruhr 100 gasification process  
 NT2 saarberg-otto gasification process  
 NT2 seacoke process  
 NT2 shell-koppers gasification process  
 NT2 synthane process  
 NT2 texaco gasification process  
 NT2 toscodyne process  
 NT2 toscoal process  
 NT2 u-gas process  
 NT2 wellman-galusha process  
 NT2 wellman-incandescent process  
 NT2 westinghouse gasification process  
 NT2 woodall-duckham process  
 NT1 fluidized bed refuse gasification  
 NT1 in-situ gasification

RT coal

**GASKETS**

1997-06-19  
 UF o-rings  
 BT1 seals  
 RT weatherstripping

**GASOHOL**

INIS: 1992-04-13; ETDE: 1979-08-07  
*Blend of gasoline and alcohol, usually methanol or ethanol.*

\*BT1 liquid fuels  
 RT alcohol fuels  
 RT alcohols  
 RT automotive fuels  
 RT ethanol fuels  
 RT gasoline  
 RT methanol fuels

**GASOHOL PROGRAM**

INIS: 2000-04-12; ETDE: 1976-09-15  
*Program for blending agriculturally derived ethanol and unleaded gasoline.*

RT ethanol  
 RT gasoline  
 RT synthetic fuels

**GASOLINE**

SF aircraft fuels  
 SF aviation fuels  
 \*BT1 liquid fuels  
 BT1 petroleum products  
 NT1 unleaded gasoline  
 RT automotive fuels  
 RT bromine number  
 RT gasohol  
 RT gasohol program  
 RT gasoline service stations  
 RT mobil m-gasoline process  
 RT spark ignition engines

**gasoline engines**

1994-09-09  
 USE internal combustion engines

**GASOLINE PLANTS**

INIS: 2000-04-12; ETDE: 1979-02-27  
 \*BT1 chemical plants  
 RT coal gasification  
 RT commercialization  
 RT methanol plants  
 RT mobil m-gasoline process

**GASOLINE SERVICE STATIONS**

INIS: 2000-04-12; ETDE: 1979-05-09  
 UF filling stations  
 UF full-serve stations  
 UF gas stations  
 UF mini-serve stations  
 UF self-serve stations  
 UF service stations  
 \*BT1 retailers  
 RT automotive fuels  
 RT gasoline  
 RT small businesses  
 RT unleaded gasoline

**gasoline spills**

INIS: 1992-04-09; ETDE: 2002-06-13  
 USE hazardous materials spills

**gasteropods**

USE molluscs

**GASTRECTOMY**

\*BT1 surgery  
 RT digestive system diseases  
 RT stomach

**GASTRIC ACID**

\*BT1 body fluids

RT digestion  
 RT gastrin  
 RT secretion  
 RT stomach

**gastric administration**

USE oral administration

**GASTRIN**

\*BT1 peptide hormones  
 \*BT1 polypeptides  
 RT gastric acid  
 RT secretion  
 RT stomach

**GASTROINTESTINAL TRACT**

1996-11-13

BT1 digestive system  
 NT1 intestines  
 NT2 large intestine  
 NT3 rectum  
 NT2 small intestine  
 NT1 stomach  
 RT abdomen  
 RT metabolic diseases  
 RT peritoneum  
 RT radiation syndrome  
 RT trichinosis

**GASTUNITE**

2000-04-12

\*BT1 uranium minerals

**gasynthan process**

INIS: 2000-04-12; ETDE: 1976-01-23

Process for production of synthetic natural gas with calorific value up to 1000 btu/scf, at pressures between 300 and 500 psig, from natural gas condensates, propane - butane, refinery gases, light and full range naphtha. (Prior to January 1995, this was a valid ETDE descriptor.)

USE sng processes

**GATING CIRCUITS**

BT1 electronic circuits  
 RT logic circuits  
 RT switching circuits

**GAUGE INVARIANCE**

UF gauge transformations  
 BT1 invariance principles  
 RT aharonov-bohm effect  
 RT baryon number  
 RT charge conservation  
 RT hypercharge  
 RT instantons  
 RT lattice field theory  
 RT lepton number  
 RT operator product expansion  
 RT quantum chromodynamics  
 RT quantum field theory  
 RT strangeness  
 RT supergravity  
 RT unified gauge models  
 RT ward identity

**gauge transformations**

USE gauge invariance

**gauss distribution**

USE gauss function

**GAUSS FUNCTION**

UF gauss distribution  
 BT1 functions  
 RT distribution  
 RT gaussian processes  
 RT statistics

**gauss nuclear model**

USE gauss potential

**GAUSS POTENTIAL**

UF gauss nuclear model  
 \*BT1 nucleon-nucleon potential

**gauss quadratures**

USE quadratures

**GAUSSIAN PROCESSES**

RT distribution  
 RT gauss function  
 RT stochastic processes

**gcep**

1987-04-28

USE portsmouth centrifuge enrichment plant

**GCFR REACTOR**

Gulf General Atomic, San Diego, California, USA.

UF gas cooled fast breeder reactor  
 UF gulf general atomic fast breeder reactor

\*BT1 gcf type reactors  
 \*BT1 helium cooled reactors

**GCFR TYPE REACTORS**

1977-06-17

UF gas cooled fast breeder reactors  
 \*BT1 fbr type reactors

\*BT1 gas cooled reactors  
 NT1 gcf reactor

**GCR TYPE REACTORS**

UF gas cooled graphite moderated reactors

\*BT1 gas cooled reactors  
 \*BT1 graphite moderated reactors

NT1 agr type reactors  
 NT2 connah quay-b reactor  
 NT2 dungeness-b reactor  
 NT2 hartlepool reactor  
 NT2 heysham-a reactor  
 NT2 heysham-b reactor  
 NT2 hinkley point-b reactor  
 NT2 hunterston-b reactor  
 NT2 torness reactor  
 NT2 wagr reactor

NT1 bugey-1 reactor  
 NT1 chinon-1 reactor  
 NT1 chinon-2 reactor  
 NT1 chinon-3 reactor  
 NT1 g-1 reactor  
 NT1 g-2 reactor  
 NT1 g-3 reactor  
 NT1 magnox type reactors

NT2 berkeley reactor  
 NT2 bradwell reactor  
 NT2 calder hall a-1 reactor  
 NT2 calder hall a-2 reactor  
 NT2 calder hall b-3 reactor  
 NT2 calder hall b-4 reactor  
 NT2 chapelcross-1 reactor  
 NT2 chapelcross-2 reactor  
 NT2 chapelcross-3 reactor  
 NT2 chapelcross-4 reactor  
 NT2 dungeness-a reactor  
 NT2 hinkley point-a reactor  
 NT2 hunterston-a reactor  
 NT2 latina reactor  
 NT2 oldbury-a reactor  
 NT2 sizewell-a reactor  
 NT2 tokai-mura reactor  
 NT2 trawsfynydd reactor  
 NT2 wylfa reactor

NT1 saint laurent-1 reactor  
 NT1 saint laurent-2 reactor  
 NT1 vandellos reactor  
 RT carbon dioxide cooled reactors  
 RT power reactors

**GCRE REACTOR**

2000-04-12

INEEL, Idaho Falls, Idaho, USA. Shut down in 1961.

UF gas cooled reactor experiment

\*BT1 experimental reactors  
 \*BT1 helium cooled reactors  
 \*BT1 power reactors  
 \*BT1 water moderated reactors

**GDL FACILITY**

INIS: 1986-05-26; ETDE: 1986-02-03

Nd glass laser facility at University of Rochester.

UF glass development laser facility  
 RT laser fusion reactors  
 RT neodymium lasers  
 RT omega facility

**GE 2541**

INIS: 2000-04-12; ETDE: 1980-11-25

\*BT1 aluminium alloys  
 \*BT1 chromium alloys  
 \*BT1 iron base alloys  
 \*BT1 yttrium alloys

**ge computers**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE computers

**ge detectors (high-purity)**

INIS: 1975-12-09; ETDE: 2002-06-13

USE high-purity ge detectors

**ge process**

INIS: 2000-04-12; ETDE: 1982-07-27

In the process pyritic and organic sulfur is removed from coal by leaching with caustic solution, producing sulfides and polysulfides. The leaching is performed in two stages under microwave irradiation lasting 30 seconds or less per stage.

(Prior to January 1995, this was a valid ETDE descriptor.)

USE desulfurization

**GE SEMICONDUCTOR DETECTORS**

UF germanium detectors

\*BT1 semiconductor detectors  
 NT1 high-purity ge detectors  
 NT1 li-drifted ge detectors

**GE STANDARD REACTOR**

1975-09-26

USA.

(Prior to 1975, BWR/6 TYPE REACTORS was used.)

UF bwr/6 type reactors

UF general electric standard reactor

\*BT1 bwr type reactors  
 RT black fox-1 reactor  
 RT black fox-2 reactor  
 RT hartsville-1 reactor  
 RT hartsville-2 reactor  
 RT hartsville-3 reactor  
 RT hartsville-4 reactor  
 RT phipps bend-1 reactor  
 RT phipps bend-2 reactor  
 RT skagit-1 reactor  
 RT skagit-2 reactor

**ge(li) detectors**

USE li-drifted ge detectors

**GEARS**

INIS: 1980-11-28; ETDE: 1976-09-28

BT1 machine parts  
 RT lubricants  
 RT lubrication  
 RT mechanical efficiency

RT mechanical transmissions  
 RT rolling friction  
 RT wear  
 RT wear resistance  
 RT wheels

**GEESE**

INIS: 2000-04-12; ETDE: 1979-05-02  
 \*BT1 fowl

**geesthacht-1 research reactor**

USE frg-1 reactor

**geesthacht-2 research reactor**

USE frg-2 reactor

**GEGAS PROCESS**

INIS: 2000-04-12; ETDE: 1976-02-19  
*An integrated coal gasification--gas-cleaning process optimized for the production of clean low btu gas.*  
 \*BT1 coal gasification  
 RT low btu gas

**gegenschlein**

USE zodiacal light

**GEIGER-MUELLER COUNTERS**

\*BT1 radiation detectors  
 RT avalanche quenching  
 RT flow counters

**GEIGER-NUTTALL LAW**

INIS: 1986-08-19; ETDE: 1986-09-05  
 RT alpha decay  
 RT alpha particles  
 RT half-life  
 RT mean free path

**GEKKO FACILITY**

INIS: 1985-09-09; ETDE: 1985-10-11  
*Nd glass laser facility at Osaka University for laser fusion experiments.*  
 RT laser fusion reactors  
 RT neodymium lasers

**GEL PERMEATION CHROMATOGRAPHY**

INIS: 1984-04-04; ETDE: 1983-05-21  
 \*BT1 chromatography

**GELATIN**

\*BT1 colloids  
 \*BT1 proteins

**GELATION**

RT colloids  
 RT sol-gel process

**GELL-MANN THEORY**

RT quantum numbers  
 RT strangeness

**GELS**

\*BT1 colloids  
 NT1 hydrogels  
 NT1 hydrophilic polymers  
 RT plugging agents  
 RT thixotropy

**gemeinschaftskernkraftwerk neckar**

USE neckar-1 reactor

**gene activators**

INIS: 1985-11-19; ETDE: 2002-06-13  
 USE gene regulation

**GENE AMPLIFICATION**

INIS: 1993-08-26; ETDE: 1986-01-24  
*An increase in the number of copies of a gene in the genome so that a protein product is produced at elevated levels.*  
 NT1 polymerase chain reaction  
 RT cell differentiation

RT genetic engineering  
 RT immunoglobulins  
 RT recombinant dna

**gene loci**

USE genes

**GENE MUTATIONS**

UF point mutations  
 BT1 mutations  
 RT gene recombination  
 RT gene therapy  
 RT genes  
 RT genetic engineering  
 RT polymerase chain reaction  
 RT recombinant dna

**GENE OPERONS**

INIS: 1985-11-19; ETDE: 1984-06-29  
*Small segments of chromosomes which govern transcription of the DNA by controlling access to the gene.*  
 RT chromosomes  
 RT codons  
 RT dna  
 RT gene regulation  
 RT genes  
 RT rna

**gene promoters**

INIS: 1985-11-19; ETDE: 1984-06-29  
 USE gene repressors

**GENE RECOMBINATION**

UF recombination (genetic)  
 RT crossing-over  
 RT dna mismatch  
 RT gene mutations  
 RT gene recombination proteins  
 RT genes  
 RT genetic variability  
 RT recombinant dna

**GENE RECOMBINATION PROTEINS**

INIS: 2000-04-12; ETDE: 1987-07-22  
*A group of enzymes which mediate gene recombination and crossing-over during meiosis but also are involved in repair of DNA.*  
 \*BT1 enzymes  
 RT crossing-over  
 RT dna repair  
 RT endonucleases  
 RT gene recombination  
 RT meiosis  
 RT nucleoproteins

**GENE REGULATION**

INIS: 1995-06-09; ETDE: 1985-11-19  
*The complex series of biochemical events serving to control the expression of a gene or gene family.*  
 UF gene activators  
 NT1 enzyme induction  
 RT biosynthesis  
 RT chromosomes  
 RT codons  
 RT exons  
 RT gene operons  
 RT gene repressors  
 RT genes  
 RT genetic engineering  
 RT human chromosomes  
 RT introns  
 RT microarray technology  
 RT splicing  
 RT transcription  
 RT transcription factors

**GENE REPRESSORS**

INIS: 1991-10-22; ETDE: 1984-06-29  
*A class of proteins which block the transcription of one or more genes by binding to a control segment of the chromosome. Since the gene product encoded cannot be synthesized, the property conferred by the gene is not expressed.*  
 UF gene promoters  
 RT enzyme induction  
 RT gene regulation  
 RT nucleoproteins  
 RT transcription  
 RT transcription factors

**GENE THERAPY**

2003-08-26  
*Technique for correcting defective genes responsible for disease development.*  
 \*BT1 therapy  
 RT gene mutations  
 RT genetic engineering

**general accounting office**

INIS: 2000-01-11; ETDE: 1979-02-23  
 USE us gao

**general atomic fuel fabrication facility**

1996-07-18  
 (Until July 1996 this was a valid descriptor.)  
 USE fuel fabrication plants

**general atomic standard reactor**

1993-11-08  
 USE ga standard reactor

**GENERAL CIRCULATION MODELS**

INIS: 1991-07-02; ETDE: 1986-06-12  
 BT1 mathematical models  
 RT atmospheric circulation  
 RT climate models  
 RT fluid mechanics  
 RT meteorology  
 RT oceanic circulation  
 RT three-dimensional calculations

**general electric nuclear test reactor**

1993-11-08  
 USE ntr reactor

**general electric standard reactor**

2000-01-11  
 USE ge standard reactor

**general electric test reactor**

2000-01-11  
 USE getr reactor

**general law**

INIS: 1990-12-15; ETDE: 2002-06-13  
 (Prior to December 1990, this was a valid descriptor.)  
 USE laws

**general quantum field theory**

INIS: 1977-11-21; ETDE: 1978-03-08  
 USE axiomatic field theory

**GENERAL RELATIVITY THEORY**

2000-01-11  
 UF einstein gravitation theory  
 BT1 field theories  
 BT1 relativity theory  
 RT cosmological constant  
 RT cosmological models  
 RT cosmology  
 RT einstein effect  
 RT einstein field equations  
 RT einstein-maxwell equations  
 RT energy-momentum tensor

RT equivalence principle  
 RT gravitation  
 RT gravitational fields  
 RT gravitational lenses  
 RT gravitational radiation  
 RT kaluza-klein theory  
 RT mach principle  
 RT nonluminous matter  
 RT quantum gravity  
 RT schwarzschild metric

**generating capacity**

INIS: 1982-12-03; ETDE: 1977-06-02

USE capacity

**GENERATOR-COORDINATE****METHOD**

BT1 calculation methods  
 RT boson expansion  
 RT nuclear structure  
 RT pairing interactions  
 RT quantum mechanics

**generators (aerosol)**

USE aerosol generators

**generators (electric)**

USE electric generators

**generators (pulse)**

USE pulse generators

**generators (radioisotope)**

USE radioisotope generators

**generators (steam)**

USE steam generators

**generators (vapor)**

USE vapor generators

**GENES**

1996-05-03

UF cistrons  
 UF gene loci  
 NT1 lethal genes  
 NT1 oncogenes  
 NT1 replicons  
 RT chromosomes  
 RT codons  
 RT exons  
 RT gene mutations  
 RT gene operons  
 RT gene recombination  
 RT gene regulation  
 RT genetic effects  
 RT genetic engineering  
 RT genetic mapping  
 RT genotype  
 RT human chromosomes  
 RT in-situ hybridization  
 RT introns  
 RT plasmids  
 RT rflps  
 RT transcription  
 RT transposons

**genesis**

INIS: 2000-01-11; ETDE: 1980-07-23

USE origin

**GENETIC CONTROL**

\*BT1 pest control  
 RT chromosomal aberrations  
 RT insects  
 RT mutagenesis  
 RT mutations  
 RT sterility

**GENETIC EFFECTS**

BT1 biological effects  
 NT1 genetic radiation effects

RT chromosomes  
 RT congenital malformations  
 RT genes  
 RT genetics  
 RT gonads  
 RT human chromosomes  
 RT mosaicism  
 RT mutations  
 RT radiation equivalence  
 RT sister chromatid exchanges  
 RT teratogens

**GENETIC ENGINEERING**

INIS: 1984-12-04; ETDE: 1981-07-18

BT1 biotechnology  
 NT1 nucleic acid hybridization  
 NT2 dna hybridization  
 NT3 dna-cloning  
 NT2 in-situ hybridization  
 RT cell differentiation  
 RT dna  
 RT gene amplification  
 RT gene mutations  
 RT gene regulation  
 RT gene therapy  
 RT genes  
 RT genetic radiation effects  
 RT hybridization  
 RT molecular biology  
 RT polymerase chain reaction  
 RT protein engineering  
 RT transposons

**GENETIC MAPPING**

INIS: 1997-06-17; ETDE: 1976-08-24

*The graphical representation of the linear arrangement of genes on a chromosome.*

BT1 mapping  
 RT banding techniques  
 RT chromosomes  
 RT contigs  
 RT dna hybridization  
 RT genes  
 RT human chromosomes  
 RT in-situ hybridization  
 RT microarray technology  
 RT rflps

**GENETIC RADIATION EFFECTS**

\*BT1 biological radiation effects  
 \*BT1 genetic effects  
 RT chromosome losses  
 RT delayed radiation effects  
 RT genetic engineering  
 RT genetically significant dose  
 RT sister chromatid exchanges

**GENETIC VARIABILITY**

2000-01-11

UF variability (genetic)  
 BT1 biological variability  
 RT gene recombination  
 RT rflps  
 RT transposons

**GENETICALLY SIGNIFICANT DOSE**

UF gsd  
 \*BT1 radiation doses  
 RT dose-response relationships  
 RT genetic radiation effects  
 RT populations  
 RT radiation hazards

**GENETICS**

UF heredity  
 BT1 biology  
 RT animal breeding  
 RT biological evolution  
 RT cytology  
 RT genetic effects  
 RT hereditary diseases

RT hybridization  
 RT nucleic acids  
 RT plasmids

**genitals (female)**

USE female genitals

**genitals (male)**

USE male genitals

**GENKAI-1 REACTOR**

*Kyushu Electric Power Co., Genkai, Saga, Japan.*

UF kyushu-1 reactor

\*BT1 pwr type reactors

**GENKAI-2 REACTOR**

INIS: 1979-09-18; ETDE: 1978-08-07

*Kyushu Electric Power Co., Genkai, Saga, Japan.*

UF kyushu-2 reactor

\*BT1 pwr type reactors

**GENKAI-3 REACTOR**

INIS: 1985-06-07; ETDE: 1985-07-18

*Kyushu Electric Power Co., Genkai, Saga, Japan.*

\*BT1 pwr type reactors

**GENKAI-4 REACTOR**

INIS: 1985-06-07; ETDE: 1985-07-18

*Kyushu Electric Power Co., Genkai, Saga, Japan.*

UF kyushu-4 reactor

\*BT1 pwr type reactors

**GENOME MUTATIONS**

BT1 mutations  
 RT aneuploidy  
 RT karyotype  
 RT non-disjunction  
 RT ploidy  
 RT polyploidy

**GENOTYPE**

RT genes  
 RT mutagenesis  
 RT ontogenesis  
 RT phenotype

**gentilly-1 reactor**

ETDE: 2002-06-13

USE gentilly reactor

**GENTILLY-2 REACTOR**

*Nicolet, Quebec, Canada.*

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

**GENTILLY REACTOR**

*Nicolet, Quebec, Canada.*

UF gentilly-1 reactor

\*BT1 candu type reactors

\*BT1 hwlwr type reactors

\*BT1 natural uranium reactors

**GEOBAROMETRY**

INIS: 2000-01-20; ETDE: 1977-12-22

*Any method for the direct or indirect determination of the pressure conditions under which a rock or mineral was formed.*

RT minerals  
 RT pressure measurement  
 RT rocks

**GEOBOTANY**

\*BT1 botany  
 RT biogeochemistry  
 RT biological evolution

**GEOCHEMICAL SURVEYS**

SF surveys

BT1 geologic surveys  
 RT exploration  
 RT geochemistry  
 RT geology  
 RT geothermal exploration  
 RT ground truth measurements  
 RT marine surveys  
 RT prospecting  
 RT seeps

**GEOCHEMISTRY**

1999-05-04

BT1 chemistry  
 NT1 biogeochemistry  
 RT acid neutralizing capacity  
 RT coalification  
 RT geochemical surveys  
 RT geology  
 RT geothermometry  
 RT natural occurrence  
 RT organic matter  
 RT site characterization

**geochronology**

USE age estimation

**GEOCORONA**

RT earth atmosphere  
 RT interplanetary space  
 RT solar wind

**GEODESICS**

*Lines along which the distance between two points reaches an extremum.*  
 RT mathematical space

**GEODESY**

RT mathematics

**GEODETTIC SURVEYS**

INIS: 2000-01-20; ETDE: 1978-07-05

*A survey of a large land area used for the precise location of basic points.*

\*BT1 geophysical surveys  
 RT earthquakes  
 RT ground uplift

**GEOGRAPHIC INFORMATION SYSTEMS**

2003-05-30

UF gis  
 BT1 information systems  
 RT baseline ecology  
 RT data base management  
 RT geography  
 RT geologic surveys  
 RT site characterization

**GEOGRAPHICAL VARIATIONS**

INIS: 1999-07-16; ETDE: 1977-10-19

BT1 variations  
 NT1 latitude effect  
 RT east-west asymmetry  
 RT north-south asymmetry

**GEOGRAPHY**

RT earth planet  
 RT geographic information systems  
 RT oceanography  
 RT site characterization

**geoisotherms**

INIS: 1983-02-03; ETDE: 1976-08-25

USE isotherms

**GEOLOGIC AGES**

INIS: 1992-04-14; ETDE: 1977-10-19

NT1 cenozoic era  
 NT2 quaternary period  
 NT3 pleistocene epoch  
 NT2 tertiary period  
 NT3 eocene epoch

NT3 miocene epoch  
 NT3 pliocene epoch  
 NT1 mesozoic era  
 NT2 cretaceous period  
 NT2 jurassic period  
 NT2 triassic period  
 NT1 paleozoic era  
 NT2 cambrian period  
 NT2 carboniferous period  
 NT2 devonian period  
 NT2 ordovician period  
 NT2 permian period  
 NT2 silurian period  
 NT1 precambrian era  
 RT age estimation  
 RT geologic history  
 RT paleomagnetism

**GEOLOGIC DEPOSITS**

(From August 1981 till March 1997 PARAGENESIS was a valid ETDE descriptor.)

UF deposits (geological)

SF paragenesis

NT1 alluvial deposits  
 NT1 coal deposits  
 NT2 coal seams  
 NT1 concretions  
 NT1 moraines  
 NT1 natural gas deposits  
 NT2 natural gas fields  
 NT3 gas condensate fields  
 NT1 natural gas hydrate deposits  
 NT1 oil sand deposits  
 NT2 asphalt ridge deposit  
 NT2 athabasca deposit  
 NT2 circle cliffs deposit  
 NT2 cold lake deposit  
 NT2 edna deposit  
 NT2 lloydminster deposit  
 NT2 peace river deposit  
 NT2 pr springs deposit  
 NT2 santa rosa deposit  
 NT2 sunnyside deposit  
 NT2 tar sand triangle deposit  
 NT2 uvalde deposit  
 NT2 wabasca deposit  
 NT1 oil shale deposits  
 NT2 us naval oil shale reserves  
 NT1 petroleum deposits  
 NT2 gas condensate fields  
 NT2 oil fields  
 NT2 us naval petroleum reserves  
 NT1 placers  
 NT1 salt deposits  
 NT1 thorium deposits  
 NT1 uranium deposits  
 NT2 blizzard deposit  
 NT2 erzgebirge deposit  
 NT2 jabiluka deposit  
 NT2 koongarra deposit  
 NT2 nabarlek deposit  
 NT2 ranger deposit  
 NT2 ranstad deposit  
 NT2 roxby downs deposit  
 NT2 south alligator deposit  
 NT2 yeelirrie deposit  
 RT availability  
 RT inclined strata  
 RT ores  
 RT sediments  
 RT underground storage  
 RT working faces

**geologic engineering**

INIS: 2000-04-12; ETDE: 1977-03-08

USE engineering geology

**GEOLOGIC FAULTS**

*Fractures in rock along which the adjacent rock surfaces are differentially displaced.*

UF faults (geologic)

\*BT1 geologic fractures  
 RT earthquakes  
 RT geologic fissures  
 RT geology  
 RT geomorphology  
 RT rift zones  
 RT seismology

**GEOLOGIC FISSURES**

1985-12-10

UF geologic joints

BT1 geologic structures  
 RT caves  
 RT cracks  
 RT fractured reservoirs  
 RT fractures  
 RT geologic faults  
 RT geologic fractures  
 RT geology

**GEOLOGIC FORMATIONS**

INIS: 1996-01-25; ETDE: 1978-07-05

UF boom clay formation

NT1 chattanooga formation  
 NT1 green river formation  
 NT2 mahogany zone  
 NT2 uinta formation  
 NT1 wasatch formation  
 RT boom clay  
 RT formation damage  
 RT geologic structures  
 RT natural analogue  
 RT reservoir pressure

**GEOLOGIC FRACTURES**

INIS: 1985-12-10; ETDE: 1984-08-06

*Breaks in rock, whether or not there is displacement, due to mechanical failure by stress.*

BT1 geologic structures  
 NT1 geologic faults  
 RT cracks  
 RT fractures  
 RT geologic fissures

**GEOLOGIC HISTORY**

INIS: 1985-12-10; ETDE: 1978-08-07

RT eocene epoch  
 RT geologic ages  
 RT geologic models  
 RT geologic structures  
 RT geology  
 RT miocene epoch  
 RT pleistocene epoch  
 RT pliocene epoch

**geologic joints**

INIS: 2000-01-20; ETDE: 1984-08-06

USE geologic fissures

**GEOLOGIC MODELS**

INIS: 1985-12-10; ETDE: 1978-02-14

RT geologic history  
 RT geologic structures

**geologic natural analogue**

INIS: 1993-09-17; ETDE: 1993-11-08

USE natural analogue

**geologic provinces**

INIS: 2000-04-12; ETDE: 1981-08-04

SEE snake river plain

**GEOLOGIC STRATA**

1975-12-09

BT1 geologic structures  
 NT1 basement rock

**NT1** inclined strata  
*RT* chattanooga formation  
*RT* coal seams  
*RT* rocks  
*RT* strata movement  
*RT* stratification  
*RT* stratigraphy

**GEOLOGIC STRUCTURES**

1975-11-07

(From December 1980 till February 1997

DIKES was a valid ETDE descriptor; from

December 1984 till March 1997

LINEAMENTS was a valid ETDE descriptor.)

*UF* dikes  
*UF* lineaments  
**NT1** anticlines  
**NT1** fractured reservoirs  
**NT1** geologic fissures  
**NT1** geologic fractures  
**NT2** geologic faults  
**NT1** geologic strata  
**NT2** basement rock  
**NT2** inclined strata  
**NT1** reefs  
**NT1** rift zones  
**NT1** sedimentary basins  
**NT2** appalachian basin  
**NT3** chattanooga formation  
**NT2** williston basin  
*RT* geologic formations  
*RT* geologic history  
*RT* geologic models  
*RT* geology  
*RT* mid-atlantic ridge  
*RT* natural analogue  
*RT* seismic surveys  
*RT* seismology  
*RT* stratigraphy  
*RT* water influx

**GEOLOGIC SURVEYS***INIS: 1975-11-07; ETDE: 1977-01-31*

*UF* geological surveys  
*SF* surveys  
**NT1** geochemical surveys  
**NT1** geophysical surveys  
**NT2** electrical surveys  
**NT3** electromagnetic surveys  
**NT4** magnetotelluric surveys  
**NT3** resistivity surveys  
**NT3** self-potential surveys  
**NT3** telluric surveys  
**NT2** geodetic surveys  
**NT2** gravity surveys  
**NT2** infrared surveys  
**NT2** magnetic surveys  
**NT2** radiometric surveys  
**NT2** seismic surveys  
**NT2** temperature surveys  
*RT* exploration  
*RT* geographic information systems  
*RT* geos satellites  
*RT* geothermal exploration  
*RT* goes satellites  
*RT* kriging  
*RT* prospecting  
*RT* site characterization

**geologic thermometry***INIS: 2000-04-12; ETDE: 1976-03-31*

USE geothermometry

**GEOLOGIC TRAPS***INIS: 2000-01-21; ETDE: 1978-01-23*

Configurations of rocks able to confine fluids that float on other fluids.

*RT* natural gas deposits  
*RT* petroleum deposits

**geological surveys**

2000-01-21

USE geologic surveys

**GEOLOGY**

1996-07-18

**NT1** engineering geology  
**NT1** geomorphology  
**NT1** petrography  
**NT1** petroleum geology  
**NT1** petrology  
**NT2** lithology  
**NT2** petrogenesis  
**NT1** stratigraphy  
*RT* earth crust  
*RT* earth planet  
*RT* geochemical surveys  
*RT* geochemistry  
*RT* geologic faults  
*RT* geologic fissures  
*RT* geologic history  
*RT* geologic structures  
*RT* geophysical surveys  
*RT* geophysics  
*RT* geothermal energy  
*RT* metamorphism  
*RT* regional analysis  
*RT* rock mechanics  
*RT* site characterization  
*RT* volcanoes

**GEOMAGNETIC CONJUGACY***UF* conjugate points*RT* geomagnetic field**GEOMAGNETIC COORDINATES****BT1** coordinates*RT* geomagnetic field**geomagnetic cut-off rigidity**

USE threshold rigidity

**GEOMAGNETIC EQUATOR***RT* equator*RT* geomagnetic field**GEOMAGNETIC FIELD**

**BT1** magnetic fields  
*RT* earth magnetosphere  
*RT* geomagnetic conjugacy  
*RT* geomagnetic coordinates  
*RT* geomagnetic equator  
*RT* geophysics  
*RT* inclination  
*RT* international magnetospheric study  
*RT* magnetosheath  
*RT* magnetotail  
*RT* paleomagnetism  
*RT* threshold rigidity

**geomagnetic storms**

USE magnetic storms

**GEOMETRIC BUCKLING**

*A form of neutron density distribution in reactors. For buckling of materials, see DEFORMATION or FAILURES.*

**BT1** buckling**geometric sensitivity***INIS: 2000-04-12; ETDE: 1979-08-07*

USE space dependence

**GEOMETRICAL ABERRATIONS***UF* cylindrical aberrations*UF* spherical aberrations*RT* beam optics*RT* optical properties**GEOMETRY****BT1** mathematics**NT1** differential geometry**NT1** lobachevsky geometry*RT* configuration*RT* cusped geometries*RT* invariant imbedding*RT* mapping*RT* prisms*RT* spheres*RT* spheroids**GEOMORPHOLOGY**

1997-06-19

*A science that deals with the land and submarine relief features of the earth's surface and seeks a genetic interpretation of them through using the principles of physiography in its descriptive aspects and of dynamic and structural geology in its explanatory phases.*

*UF* landforms**BT1** geology*RT* earth crust*RT* geologic faults*RT* geophysics*RT* regional analysis*RT* sea bed*RT* site characterization*RT* stratigraphy**geophones***INIS: 2000-01-21; ETDE: 1976-09-15*

USE seismic detectors

**GEOPHYSICAL SURVEYS**

1996-04-18

*Surveys using one or more geophysical techniques in geophysical exploration, such as electrical, infrared, heat flow, magnetic, radioactivity, and seismic techniques.*

*SF* surveys**BT1** geologic surveys**NT1** electrical surveys**NT2** electromagnetic surveys**NT3** magnetotelluric surveys**NT2** resistivity surveys**NT2** self-potential surveys**NT2** telluric surveys**NT1** geodetic surveys**NT1** gravity surveys**NT1** infrared surveys**NT1** magnetic surveys**NT1** radiometric surveys**NT1** seismic surveys**NT1** temperature surveys*RT* aerial monitoring*RT* coal deposits*RT* exploration*RT* geology*RT* geophysics*RT* geothermal exploration*RT* ground truth measurements*RT* marine surveys*RT* natural gas deposits*RT* oil shale deposits*RT* petroleum deposits*RT* prospecting*RT* remote sensing*RT* uranium deposits*RT* well logging**GEOPHYSICS**

2000-01-24

**BT1** physics*RT* bathymetry*RT* earth planet*RT* geology*RT* geomagnetic field*RT* geomorphology*RT* geophysical surveys*RT* international geophysical year

**GEOPRESSURE ANOMALIES**

INIS: 2000-04-12; ETDE: 1979-01-30

RT geopressed systems

**GEOPRESSURED SYSTEMS**

1992-07-10

Underground reservoirs in which the pressure exceeds normal hydrostatic pressure.

BT1 energy systems  
RT geopressure anomalies  
RT geothermal systems  
RT natural gas deposits  
RT reservoir pressure

**GEORGES BANK**

INIS: 1992-06-09; ETDE: 1978-12-11

Submerged sandbank east of Massachusetts.

RT atlantic ocean  
RT mid-atlantic bight

**GEORGIA**

1997-06-17

\*BT1 usa  
NT1 atlanta  
RT altamaha river  
RT chattahoochee river  
RT chattanooga formation  
RT savannah river  
RT us east coast

**georgia (republic of)**

INIS: 1993-02-01; ETDE: 1993-04-08

USE republic of georgia

**georgia tech. research reactor**

USE gtrr reactor

**GEOS SATELLITES**

BT1 satellites  
RT geologic surveys  
RT remote sensing

**geostationary operational environmental satellite**

INIS: 2000-01-24; ETDE: 1980-04-14

USE goes satellites

**geostatistics**

INIS: 2000-03-27; ETDE: 1993-07-07

SEE kriging

**GEOHERMAL AIR CONDITIONING**

INIS: 2000-04-12; ETDE: 1979-01-30

BT1 air conditioning  
RT geothermal refrigeration

**geothermal areas**

1990-12-15

USE geothermal fields

**GEOHERMAL DISTRICT HEATING**

INIS: 1993-01-26; ETDE: 1977-08-24

\*BT1 district heating  
\*BT1 geothermal heating  
RT geothermal space heating

**GEOHERMAL ENERGY**

BT1 energy  
\*BT1 renewable energy sources  
RT earth crust  
RT geology  
RT geothermal fields  
RT geothermal heating  
RT geothermal industry  
RT geothermal power plants  
RT thermal springs  
RT volcanoes

**GEOHERMAL ENERGY CONVERSION**

1992-08-19

\*BT1 energy conversion  
RT binary-fluid systems  
RT flashed steam systems  
RT total flow systems

**GEOHERMAL EXPLORATION**

1996-04-18

Exploration for sources of geothermal energy.

BT1 exploration  
RT electrical surveys  
RT electromagnetic surveys  
RT exploratory wells  
RT geochemical surveys  
RT geologic surveys  
RT geophysical surveys  
RT gravity surveys  
RT infrared surveys  
RT magnetic surveys  
RT seismic surveys  
RT telluric surveys  
RT temperature surveys  
RT well logging equipment

**GEOHERMAL FIELDS**

1997-06-19

UF geothermal areas  
UF geothermal regions  
NT1 ahuachapan geothermal field  
NT1 baca geothermal field  
NT1 beppu geothermal field  
NT1 brawley geothermal field  
NT1 broadlands geothermal field  
NT1 cerro prieto geothermal field  
NT1 dieng geothermal field  
NT1 east mesa geothermal field  
NT1 el tatio geothermal field  
NT1 geysers geothermal field  
NT1 hatchobaru geothermal field  
NT1 heber geothermal field  
NT1 kakkonda geothermal field  
NT1 kamojang geothermal field  
NT1 kawerau geothermal field  
NT1 kizildere geothermal field  
NT1 krafla geothermal field  
NT1 larderello geothermal field  
NT1 matsukawa geothermal field  
NT1 momotombo geothermal field  
NT1 monte amiata geothermal field  
NT1 namafjall geothermal field  
NT1 onikobe geothermal field  
NT1 onuma geothermal field  
NT1 otake geothermal field  
NT1 palimpinon geothermal field  
NT1 paratunka geothermal field  
NT1 pathe geothermal field  
NT1 pauzhetsk geothermal field  
NT1 salton sea geothermal field  
NT1 soultz-sous-forets geothermal field  
NT1 takenoyu geothermal field  
NT1 takinoue geothermal field  
NT1 tiwi geothermal field  
NT1 tongonan geothermal field  
NT1 travale geothermal field  
NT1 urach geothermal field  
NT1 waiotapu geothermal field  
NT1 wairakei geothermal field  
RT geothermal energy  
RT geothermal systems  
RT imperial valley  
RT kgra  
RT klamath falls  
RT roosevelt hot springs  
RT salton sea  
RT thermal springs  
RT well spacing  
RT wendell-amedeo hot springs

**GEOHERMAL FLUIDS**

1992-05-12

Naturally occurring steam or hot water found in the earth's volcanic or young orogenic zones.

SF thermal waters  
BT1 fluids  
NT1 fumarolic fluids  
NT1 natural steam  
RT brines  
RT fluid withdrawal  
RT hydrothermal systems

**GEOHERMAL GRADIENTS**

1993-06-07

The rate of increase of temperature in the earth with depth.

BT1 temperature gradients

**GEOHERMAL HEATING**

INIS: 2000-04-12; ETDE: 1975-11-11

BT1 heating  
NT1 geothermal district heating  
NT1 geothermal space heating  
NT1 geothermal water heating  
RT geothermal energy  
RT geothermal heating systems  
RT geothermal process heat

**GEOHERMAL HEATING SYSTEMS**

INIS: 2000-04-12; ETDE: 1976-04-19

\*BT1 heating systems  
RT district heating  
RT geothermal heating

**GEOHERMAL HOT-WATER SYSTEMS**

INIS: 1997-06-19; ETDE: 1992-08-12

Hydrothermal convective systems characterized by liquid water as the continuous, pressure-controlling fluid phase.

UF hot-water systems  
SF liquid-dominated hydrothermal convective systems

\*BT1 hydrothermal systems  
RT baca geothermal field  
RT broadlands geothermal field  
RT cerro prieto geothermal field  
RT kawerau geothermal field  
RT otake geothermal field  
RT pathe geothermal field  
RT pauzhetsk geothermal field  
RT wairakei geothermal field

**GEOHERMAL INDUSTRY**

INIS: 1992-05-12; ETDE: 1977-12-22

BT1 industry  
RT geothermal energy

**GEOHERMAL POWER PLANTS**

\*BT1 thermal power plants  
RT binary-fluid systems  
RT flashed steam systems  
RT geothermal energy  
RT total flow systems

**GEOHERMAL PROCESS HEAT**

INIS: 2000-04-12; ETDE: 1978-02-15

\*BT1 process heat  
RT geothermal heating

**GEOHERMAL REFRIGERATION**

INIS: 2000-04-12; ETDE: 1975-11-26

\*BT1 refrigeration  
RT geothermal air conditioning

**geothermal regions**

1990-12-15

USE geothermal fields

**GEOTHERMAL RESOURCES**

1992-03-30

(Until March 1992, this was indexed by GEOTHERMAL ENERGY and RESOURCES.)

BT1 resources  
RT geothermal systems

**GEOTHERMAL SPACE HEATING**

INIS: 2000-04-12; ETDE: 1975-10-28

\*BT1 geothermal heating  
\*BT1 space heating  
RT geothermal district heating

**geothermal springs**

INIS: 2000-03-27; ETDE: 1980-08-12

SEE geysers  
SEE hot springs  
SEE thermal springs  
SEE warm springs

**geothermal steam**

2000-04-12

USE natural steam

**GEOTHERMAL SYSTEMS**

1992-03-30

Localized regions in which geothermal heat is carried close enough to the earth's surface by steam or hot water to be harnessed for use.

NT1 hot-dry-rock systems  
NT1 hydrothermal systems  
NT2 geothermal hot-water systems  
NT2 vapor-dominated systems  
NT1 magma systems  
RT geopressed systems  
RT geothermal fields  
RT geothermal resources

**GEOTHERMAL WATER HEATING**

INIS: 2000-04-12; ETDE: 1980-03-04

Use for domestic water heating; for industrial application use GEOTHERMAL PROCESS HEAT.

\*BT1 geothermal heating  
\*BT1 water heating

**GEOTHERMAL WELLS**

1992-09-03

BT1 wells  
RT directional drilling  
RT exploratory wells  
RT injection wells  
RT well drilling  
RT well pressure  
RT wellheads

**GEOTHERMOMETERS**

2000-05-24

Minerals or mineral assemblages whose composition, structure, or inclusions are fixed within known thermal limits under particular conditions of pressure and composition and whose presence thus denotes a limit or a range for the temperature of formation of the enclosing rock.

\*BT1 thermometers  
RT geothermometry  
RT temperature measurement

**GEOTHERMOMETRY**

2000-01-20

Measurement or estimation, by direct or indirect methods, of the maximum, minimum, or actual temperatures at which geological processes occur or have occurred in the past.

UF geologic thermometry  
RT geochemistry  
RT geothermometers  
RT temperature measurement

**geraniol**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE alcohols  
USE terpenes

**GERBILS**

\*BT1 rodents

**gerjuoy-stein theory**

1996-06-28

(Until June 1996 this was a valid descriptor.)

SEE excitation functions

**GERM CELLS**

NT1 gametes  
NT2 ova  
NT2 pollen  
NT2 spermatozoa  
NT1 oocytes  
NT1 oogonia  
NT1 spermatocytes  
NT1 spermatogonia  
RT gametogenesis  
RT gonads

**GERM-FREE ANIMALS**

UF gnothobionts  
BT1 animals  
RT antibody formation  
RT bacteria

**german (mainz) triga-mk-2 reactor**

1993-11-08

USE triga-2-mainz reactor

**german democratic republic**

1991-05-02

(Prior to May 1991, this was a valid descriptor.)

USE federal republic of germany

**german dr organizations**

INIS: 1991-05-02; ETDE: 1977-04-13

(Prior to May 1991, this was a valid descriptor.)

USE german fr organizations

**german federal republic**

1984-07-20

USE federal republic of germany

**GERMAN FR ORGANIZATIONS**

UF german dr organizations  
BT1 national organizations  
NT1 bundesamt fuer strahlenschutz  
NT1 forschungszentrum juelich  
NT1 forschungszentrum karlsruhe  
NT1 gesellschaft fuer anlagen- und reaktorsicherheit  
NT1 ipp garching  
NT1 reaktorsicherheitskommission  
NT1 strahlenschutzkommission  
NT1 wak  
NT1 zfi leipzig  
NT1 zfk rossendorf  
RT federal republic of germany

**german measles**

INIS: 1980-04-02; ETDE: 1980-05-06

USE measles

**german silver**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE copper base alloys  
USE nickel alloys  
USE zinc alloys

**GERMANATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor with the exception of the one NT below.

BT1 germanium compounds  
BT1 oxygen compounds  
NT1 bismuth germanates  
RT germanium oxides

**germanes**

(Prior to December 1984 this was a valid ETDE descriptor.)

USE germanium hydrides

**GERMANIDES**

INIS: 1989-07-19; ETDE: 1989-08-01

BT1 germanium compounds

**GERMANIUM**

\*BT1 metals

**GERMANIUM 61**

INIS: 1978-01-13; ETDE: 1977-08-24

\*BT1 beta-plus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 germanium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes

**GERMANIUM 62**

INIS: 2003-01-03; ETDE: 2002-12-26

\*BT1 even-even nuclei  
\*BT1 germanium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 proton decay radioisotopes

**GERMANIUM 64**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 germanium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes

**GERMANIUM 65**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 germanium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes

**GERMANIUM 66**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 germanium isotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei

**GERMANIUM 67**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 germanium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes

**GERMANIUM 68**

\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 germanium isotopes  
\*BT1 intermediate mass nuclei  
RT radioisotope generators

**GERMANIUM 69**

\*BT1 beta-plus decay radioisotopes  
\*BT1 days living radioisotopes



- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei

**GERMANIUM 70**

- \*BT1 even-even nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**GERMANIUM 70 REACTIONS**

*INIS: 1992-04-16; ETDE: 1992-08-12*

- \*BT1 heavy ion reactions

**GERMANIUM 70 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**GERMANIUM 71**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes

**GERMANIUM 71 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**GERMANIUM 72**

- \*BT1 even-even nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes

**GERMANIUM 72 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**GERMANIUM 73**

- \*BT1 even-odd nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 stable isotopes

**GERMANIUM 73 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**GERMANIUM 74**

- \*BT1 even-even nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- RT* germanium 74 beams
- RT* germanium 74 reactions

**GERMANIUM 74 BEAMS**

- \*BT1 ion beams
- RT* germanium 74

**GERMANIUM 74 REACTIONS**

*1978-11-24*

- \*BT1 heavy ion reactions
- RT* germanium 74

**GERMANIUM 74 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**GERMANIUM 75**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 germanium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes

- \*BT1 seconds living radioisotopes

**GERMANIUM 75 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**GERMANIUM 76**

- \*BT1 even-even nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- RT* germanium 76 beams

**GERMANIUM 76 BEAMS**

- \*BT1 ion beams
- RT* germanium 76

**GERMANIUM 76 REACTIONS**

*INIS: 1976-03-02; ETDE: 1976-04-19*

- \*BT1 heavy ion reactions

**GERMANIUM 76 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**GERMANIUM 77**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 germanium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 seconds living radioisotopes

**GERMANIUM 78**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 germanium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei

**GERMANIUM 79**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**GERMANIUM 80**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**GERMANIUM 81**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**GERMANIUM 82**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**GERMANIUM 83**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**GERMANIUM 84**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes

**GERMANIUM 85**

*1991-05-02*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 germanium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes

**GERMANIUM 86 TARGET**

*INIS: 1980-07-24; ETDE: 1980-08-12*

- BT1 targets

**GERMANIUM ADDITIONS**

*Alloys containing not more than 1% Ge are listed here.*

- \*BT1 germanium alloys

**GERMANIUM ALLOYS**

*Alloys containing more than 1% Ge.*

- BT1 alloys
- NT1 germanium additions
- NT1 germanium base alloys

**GERMANIUM ARSENIDES**

*INIS: 1978-02-23; ETDE: 1975-11-11*

- \*BT1 arsenides
- BT1 germanium compounds

**GERMANIUM BASE ALLOYS**

- \*BT1 germanium alloys

**GERMANIUM BORIDES**

*INIS: 1991-09-16; ETDE: 1978-10-23*

- \*BT1 borides
- BT1 germanium compounds

**GERMANIUM BROMIDES**

- \*BT1 bromides
- BT1 germanium compounds

**GERMANIUM CARBIDES**

*INIS: 2000-04-12; ETDE: 1977-07-23*

- \*BT1 carbides
- BT1 germanium compounds

**GERMANIUM CHLORIDES**

- \*BT1 chlorides
- BT1 germanium compounds

**GERMANIUM COMPLEXES**

- BT1 complexes

**GERMANIUM COMPOUNDS**

*1997-06-17*

- UF* germanium hydroxides
- NT1 germanates
- NT2 bismuth germanates
- NT1 germanides
- NT1 germanium arsenides
- NT1 germanium borides
- NT1 germanium bromides
- NT1 germanium carbides
- NT1 germanium chlorides
- NT1 germanium fluorides
- NT1 germanium hydrides
- NT1 germanium iodides
- NT1 germanium nitrides
- NT1 germanium oxides
- NT1 germanium phosphates
- NT1 germanium phosphides
- NT1 germanium selenides
- NT1 germanium silicates
- NT1 germanium silicides
- NT1 germanium sulfides
- NT1 germanium tellurides

**germanium detectors**

*INIS: 2000-01-25; ETDE: 1978-12-28*

- USE ge semiconductor detectors

**GERMANIUM DIODES**

- \*BT1 semiconductor diodes

**GERMANIUM FLUORIDES**

- \*BT1 fluorides
- BT1 germanium compounds

**GERMANIUM HYDRIDES**

- UF *germanes*
- BT1 germanium compounds
- \*BT1 hydrides

**germanium hydroxides**

- INIS: 1996-07-18; ETDE: 1978-04-06  
(Until July 1996 this was a valid descriptor.)
- USE germanium compounds
- USE hydroxides

**GERMANIUM IODIDES**

- BT1 germanium compounds
- \*BT1 iodides

**GERMANIUM IONS**

- \*BT1 ions

**GERMANIUM ISOTOPES**

- 1999-07-16
- BT1 isotopes
- NT1 germanium 61
- NT1 germanium 62
- NT1 germanium 64
- NT1 germanium 65
- NT1 germanium 66
- NT1 germanium 67
- NT1 germanium 68
- NT1 germanium 69
- NT1 germanium 70
- NT1 germanium 71
- NT1 germanium 72
- NT1 germanium 73
- NT1 germanium 74
- NT1 germanium 75
- NT1 germanium 76
- NT1 germanium 77
- NT1 germanium 78
- NT1 germanium 79
- NT1 germanium 80
- NT1 germanium 81
- NT1 germanium 82
- NT1 germanium 83
- NT1 germanium 84
- NT1 germanium 85

**GERMANIUM NITRIDES**

- INIS: 1979-04-27; ETDE: 1979-05-25
- BT1 germanium compounds
- \*BT1 nitrides

**GERMANIUM OXIDES**

- BT1 germanium compounds
- \*BT1 oxides
- RT germanates

**GERMANIUM PHOSPHATES**

- INIS: 2000-04-12; ETDE: 1978-10-23
- BT1 germanium compounds
- \*BT1 phosphates

**GERMANIUM PHOSPHIDES**

- INIS: 1978-07-03; ETDE: 1975-11-28
- BT1 germanium compounds
- \*BT1 phosphides

**GERMANIUM SELENIDES**

- 1977-10-17
- BT1 germanium compounds
- \*BT1 selenides

**GERMANIUM SILICATES**

- BT1 germanium compounds
- \*BT1 silicates

**GERMANIUM SILICIDES**

- INIS: 1990-09-24; ETDE: 1976-03-11
- BT1 germanium compounds
- \*BT1 silicides

**GERMANIUM SULFIDES**

- BT1 germanium compounds
- \*BT1 sulfides

**GERMANIUM TELLURIDES**

- 1977-10-17
- BT1 germanium compounds
- \*BT1 tellurides

**germany**

- INIS: 2000-04-12; ETDE: 1976-09-28
- For use in indexing pre-World War II research.
- (Prior to June 1992 this was a valid ETDE descriptor.)
- USE federal republic of germany

**germany (democratic republic)**

- USE federal republic of germany

**germany (federal republic)**

- 2000-04-12
- USE federal republic of germany

**GERMICIDES**

- INIS: 1997-06-17; ETDE: 1980-03-04
- Agents that destroy microorganisms.
- UF bactericides
- NT1 antiseptics
- NT1 disinfectants
- RT antibiotics
- RT bacteria
- RT infectivity
- RT sterilization

**GERMINATION**

- RT coleoptile
- RT seedlings
- RT seeds

**germs (microorganisms)**

- USE microorganisms

**gerontine**

- USE spermine

**ges fuer reaktorsicherheit**

- INIS: 1994-07-14; ETDE: 1977-10-19
- (Until July 1994 this was a valid descriptor.)
- USE gesellschaft fuer anlagen- und reaktorsicherheit

**GESELLSCHAFT FUER ANLAGEN- UND REAKTORSICHERHEIT**

- 1994-07-14
- A section of the Technical Inspection Associations of the German Federal Republic.
- (Until July 1994 this concept was indexed by GES FUER REAKTORSICHERHEIT.)

- UF *ges fuer reaktorsicherheit*
- UF *grs*
- UF *institute for reactor safety*
- \*BT1 german fr organizations
- RT inspection
- RT reactor licensing
- RT reactor safety
- RT safety standards

**GETR REACTOR**

- General Electric Company, Vallecitos Nuclear Center, Pleasanton, California, USA, Shut down in 1977.

- UF *general electric test reactor*
- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 tank type reactors
- \*BT1 test reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**GETTERING**

- RT adsorption
- RT electron tubes
- RT getters

**GETTERS**

- Materials used for the purification of vacuum atmospheres; see also the specific materials.
- RT electron tubes
- RT gettering
- RT sputter-ion pumps
- RT vacuum pumps

**GEV RANGE**

- From 10 exp 9 to 10 exp 12 ev.
- BT1 energy range
- NT1 gev range 01-10
- NT1 gev range 10-100
- NT1 gev range 100-1000
- RT shower counters

**GEV RANGE 01-10**

- \*BT1 gev range

**GEV RANGE 10-100**

- \*BT1 gev range

**GEV RANGE 100-1000**

- \*BT1 gev range

**GEYSERS**

- 2000-03-31
- Hot springs that intermittently erupt jets of hot water and steam.
- UF *old faithful geyser*
- SF *geothermal springs*
- SF *thermal waters*
- \*BT1 hot springs
- RT ground water
- RT hydrothermal systems

**GEYSERS GEOTHERMAL FIELD**

- 1992-06-04
- UF *the geysers*
- BT1 geothermal fields
- RT california
- RT vapor-dominated systems

**GHANA**

- BT1 africa
- BT1 developing countries

**ghana miniature neutron source reactor**

- 2004-03-15
- USE gharr-1 reactor

**GHANAIAN ORGANIZATIONS**

- 2004-03-31
- BT1 national organizations

**GHARR-1 REACTOR**

- 1999-08-17
- Ghana National Nuclear Research Institute, Legon Accra, Ghana.
- UF *ghana miniature neutron source reactor*
- \*BT1 mnsr type reactors

**GHZ RANGE**

- BT1 frequency range
- NT1 ghz range 01-100
- NT1 ghz range 100-1000
- RT radioastronomy

**GHZ RANGE 01-100**

- UF *decimeter wave radiation (1-3 dm)*
- UF *shf radiation*
- UF *super high frequency radiation*
- UF *uhf (lower range)*
- UF *uhf radiation (01-100 ghz)*
- UF *uhf radiation (upper range)*
- UF *ultrahigh frequency (lower range)*

- UF ultrahigh frequency radiation (01-100 ghz)  
 UF ultrahigh frequency radiation (upper range)  
 \*BT1 ghz range

**GHZ RANGE 100-1000**

- UF uhf (upper range)  
 UF ultrahigh frequency (upper range)  
 \*BT1 ghz range

**GIAMMARCO VETROCOKE****SULFUR PROCESS**

2000-04-12

Process for the continuous removal of hydrogen sulfide from natural gas or synthesis gases by scrubbing sour gas with an alkali arsenate or arsenite solution.

- \*BT1 desulfurization

**giant cells**

- USE tumor cells

**GIANT RESONANCE**

- BT1 resonance  
 RT cross sections  
 RT giant resonance model  
 RT nuclear reactions  
 RT photonuclear reactions

**GIANT RESONANCE MODEL**

- UF goldhaber-teller model  
 RT cross sections  
 RT giant resonance  
 RT photonuclear reactions  
 RT resonance

**GIANT STARS**

- BT1 stars  
 NT1 red giant stars  
 NT1 supergiant stars

**GIBBERELLIC ACID**

- UF gibberellin a3  
 \*BT1 hydroxy acids  
 \*BT1 lactones  
 RT auxins

**gibberellin a3**

- USE gibberellic acid

**gibbs formation free energy**

INIS: 1976-03-25; ETDE: 1976-05-17

- USE formation free enthalpy

**gibbs free energy**

- USE free enthalpy

**GIBBSITE**

INIS: 1999-03-02; ETDE: 1976-01-23

A white or tinted monoclinic mineral: Al(OH).

- \*BT1 oxide minerals  
 RT aluminium hydroxides

**GIBBSAR STANDARD PLANT**

INIS: 1977-11-03; ETDE: 1977-06-24

Gibbs and Hill reference PWR nuclear power plant.

- \*BT1 nuclear power plants  
 RT westinghouse standard reactor

**gibraltar**

INIS: 2000-04-12; ETDE: 1981-10-24

(Prior to January 1995, this was a valid ETDE descriptor.)

- SEE united kingdom

**gidep**

INIS: 2000-04-12; ETDE: 1984-11-09

(Prior to January 1995, this was a valid ETDE descriptor.)

- SEE data acquisition

**GIDRA REACTOR**

2004-09-09

Russian Research Center, Kurchatov Institute, Moscow, Russian Federation.

- UF hydra reactor  
 \*BT1 aqueous homogeneous reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 pulsed reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**GIGAWATT POWER RANGE**

INIS: 1988-04-15; ETDE: 1989-08-10

- BT1 power range  
 NT1 power range 01-10 gw  
 NT1 power range 10-100 gw  
 NT1 power range 100-1000 gw

**gigily oil**

- USE sesame oil

**GILLS**

- BT1 respiratory system  
 RT fishes

**gingelly oil**

- USE sesame oil

**ginger**

INIS: 1996-04-26; ETDE: 1996-05-03

- USE spices

**gingily oil**

- USE sesame oil

**GINNA-1 REACTOR**

Rochester Gas Electric Corp., Ontario, New York, USA.

- UF robert e. ginna-1 reactor  
 \*BT1 pwr type reactors

**GINNA-2 REACTOR**

Ontario, New York, USA. Unit never ordered.

- UF robert e. ginna-2 reactor  
 \*BT1 power reactors

**GINZBURG-LANDAU THEORY**

- UF maki parameter  
 RT coherence length  
 RT penetration depth  
 RT superconductivity

**GINZBURG-PITAEVSKII THEORY**

- UF landau-ginzburg-pitaevskii theory  
 RT superfluidity

**GIRBOTOL PROCESS**

2000-04-12

- \*BT1 desulfurization

**girdler-girbotol process**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE desulfurization

**GIROMILL TURBINES**

INIS: 2000-04-12; ETDE: 1977-06-02

Vertical axis turbines with vertical blades which change orientation with increased speed.

- \*BT1 vertical axis turbines

**gis**

2003-05-30

- USE geographic information systems

**gkn-1 reactor (neckar)**

1979-11-02

- USE neckar-1 reactor

**gkn-2 reactor (neckar)**

INIS: 2000-04-12; ETDE: 1979-11-23

- USE neckar-2 reactor

**gkn reactor (dodewaard)**

- USE dodewaard reactor

**gkn reactor (neckar)**

2000-04-12

- SEE neckar-1 reactor  
 SEE neckar-2 reactor

**GKT PROCESS**

INIS: 2000-04-12; ETDE: 1982-03-10

Process developed by Gesellschaft fuer Kohle-Technologie in which coal dust/oxygen/steam mixture reacts rapidly to form synthesis gas.

- \*BT1 coal gasification

**GLACIERS**

- RT antarctic regions  
 RT arctic regions  
 RT cryosphere  
 RT hydrosphere  
 RT ice  
 RT ice caps  
 RT pleistocene epoch  
 RT snow  
 RT water

**GLANDS**

- UF sebaceous glands  
 UF sweat glands  
 \*BT1 organs  
 NT1 endocrine glands  
 NT2 adrenal glands  
 NT2 pancreas  
 NT2 parathyroid glands  
 NT2 pituitary gland  
 NT2 thyroid  
 NT1 liver  
 NT1 mammary glands  
 NT1 pineal gland  
 NT1 prostate  
 NT1 salivary glands  
 RT adenomas  
 RT excretion  
 RT secretion

**glasgow utr-100 reactor**

INIS: 1984-06-21; ETDE: 2002-06-13

- USE srcc-utr-100 reactor

**GLASS**

A hard, amorphous, brittle substance made by fusing silicates, sometimes borates and phosphates, with basic oxides and then rapidly cooling.

- NT1 borophosphate glass  
 NT1 borosilicate glass  
 NT2 pyrex  
 NT1 phosphate glass  
 RT ceramics  
 RT colorimetric dosimeters  
 RT dielectric track detectors  
 RT double glazing  
 RT fiberglass  
 RT glass industry  
 RT glazing materials  
 RT metallic glasses  
 RT perlite  
 RT phase diagrams  
 RT phase transformations  
 RT silicon oxides  
 RT solids  
 RT vitrification  
 RT vycor

**glass development laser facility**

INIS: 1993-11-08; ETDE: 1986-02-04  
At University of Rochester.  
USE gdl facility

**glass dosimeters**

USE rpl dosimeters

**GLASS INDUSTRY**

INIS: 1994-09-13; ETDE: 1977-06-02  
BT1 industry  
RT beverage industry  
RT glass

**glass melters**

INIS: 2000-04-12; ETDE: 1980-12-08  
USE ceramic melters

**GLASS SCINTILLATORS**

BT1 phosphors  
RT luminescent dosimeters  
RT solid scintillation detectors

**glassy alloys**

INIS: 1984-01-18; ETDE: 2002-06-13  
USE metallic glasses

**glassy metals**

INIS: 1984-01-18; ETDE: 1983-02-09  
USE metallic glasses

**GLAUBER THEORY**

RT fsc approximation  
RT multiple scattering  
RT scattering

**glauber's salt**

INIS: 2000-04-12; ETDE: 1979-11-07  
USE sodium sulfates

**GLAZES**

BT1 coatings  
RT ceramics

**glazing**

INIS: 2000-04-12; ETDE: 1983-03-23  
A covering of transparent or translucent materials used for admitting light. (Prior to April 1997 this was a valid ETDE descriptor.)  
USE glazing materials

**GLAZING MATERIALS**

INIS: 1992-08-19; ETDE: 1978-04-06  
Transparent or translucent materials such as glass or glass substitutes.  
UF glazing  
BT1 materials  
RT building materials  
RT coverings  
RT double glazing  
RT fiberglass  
RT glass  
RT heat mirrors  
RT polyethylenes  
RT polyvinyls  
RT skylights  
RT windows

**GLEEP REACTOR**

UKAEA Atomic Energy Research Establishment, Harwell, United Kingdom.  
UF graphite low-energy experimental pile  
\*BT1 air cooled reactors  
\*BT1 graphite moderated reactors  
\*BT1 materials testing reactors  
\*BT1 natural uranium reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**GLEN DAVIS FACILITY**

2000-04-12  
\*BT1 oil shale processing plants  
RT new south wales

**glioblastomas**

ETDE: 2002-06-13  
USE gliomas

**GLIOMAS**

INIS: 1986-12-18; ETDE: 1981-01-12  
UF glioblastomas  
\*BT1 neoplasms  
\*BT1 nervous system diseases  
NT1 astrocytomas

**GLOBAL ANALYSIS**

Studies mathematical manifolds with topology which is locally Euclidean but globally non-Euclidean.  
BT1 mathematics  
RT topology

**GLOBAL ASPECTS**

UF global risk  
SF world  
RT contamination  
RT earth atmosphere  
RT fallout  
RT globalization  
RT pollution  
RT waste disposal

**global climate change**

INIS: 1992-01-08; ETDE: 1991-10-28  
USE climatic change

**GLOBAL FALLOUT**

UF world-wide fallout  
BT1 fallout  
RT nuclear explosions  
RT stratosphere  
RT tropopause

**GLOBAL POSITIONING SYSTEM**

2004-08-30  
UF gps  
RT coordinates  
RT navigational instruments  
RT positioning  
RT satellites

**global risk**

USE global aspects  
USE hazards

**global temperature**

INIS: 1993-07-06; ETDE: 2002-06-13  
USE ambient temperature

**global warming**

INIS: 2000-04-12; ETDE: 1991-05-17  
USE greenhouse effect

**GLOBALIZATION**

2004-08-30  
RT economy  
RT global aspects  
RT market  
RT trade

**GLOBINS**

INIS: 1982-12-08; ETDE: 1990-10-09  
(The form GLOBIN was used by INIS prior to January 1983 and by ETDE prior to October 1990.)  
\*BT1 proteins  
NT1 hemoglobin  
NT2 methemoglobin  
NT1 myoglobin

**GLOBULINS**

UF c-reactive protein  
\*BT1 proteins  
NT1 angiotensin  
NT1 fibrinogen  
NT1 globulins-alpha  
NT2 ceruloplasmin  
NT2 haptoglobins  
NT1 globulins-beta  
NT2 transferrin  
NT1 globulins-gamma  
NT1 immunoglobulins  
NT1 lactoferrin  
NT1 myosin  
NT1 thyroglobulin

**GLOBULINS-ALPHA**

\*BT1 globulins  
NT1 ceruloplasmin  
NT1 haptoglobins

**GLOBULINS-BETA**

\*BT1 globulins  
NT1 transferrin

**GLOBULINS-GAMMA**

\*BT1 globulins

**GLOBUS-M SPHEROMAK**

INIS: 1999-07-26; ETDE: 1999-09-03  
Ioffe Institute, St. Petersburg, Russia.  
\*BT1 spheromak devices

**GLOMERULI**

\*BT1 kidneys  
RT capillaries  
RT renal clearance  
RT tubules  
RT ultrafiltration

**glossaries**

INIS: 1994-09-29; ETDE: 1976-11-01  
USE dictionaries

**GLOSSINA**

UF tsetse fly  
\*BT1 flies  
RT disease vectors  
RT trypanosoma

**GLOVEBOXES**

\*BT1 laboratory equipment  
RT containment  
RT gloves  
RT hot cells  
RT leaks  
RT radiation protection  
RT remote handling  
RT shielding

**GLOVES**

\*BT1 protective clothing  
RT gloveboxes  
RT hands  
RT radiation protection  
RT shielding  
RT skin  
RT skin absorption

**GLOW CURVE**

RT luminescence

**GLOW DISCHARGES**

BT1 electric discharges

**GLUCAGON**

\*BT1 peptide hormones  
\*BT1 polypeptides  
RT glucose  
RT metabolism  
RT pancreas

**GLUCOCORTICOIDS**

- \*BT1 corticosteroids
- NT1 corticosterone
- NT1 cortisone
- NT1 dexamethasone
- NT1 hydrocortisone
- NT1 prednisolone
- NT1 prednisone
- RT acth
- RT immunosuppression

**GLUCOHEPTONATE**

INIS: 2000-04-12; ETDE: 1978-06-14

- \*BT1 carboxylic acid esters

**GLUCONIC ACID**

- UF dextronic acid
- UF glyconic acid
- UF glykogenic acid
- \*BT1 hydroxy acids
- RT monosaccharides

**GLUCOPROTEINS**

1975-08-20

- \*BT1 glycoproteins
- NT1 lactoferrin
- NT1 ovalbumin
- RT golgi complexes
- RT post-translation modification

**GLUCOSAMINE**

- \*BT1 hexosamines
- RT chitin

**GLUCOSE**

- \*BT1 aldehydes
- \*BT1 hexoses
- RT fluorodeoxyglucose
- RT glucagon
- RT insulin
- RT uridine diphosphoglucose

**GLUCOSIDASE**

INIS: 1992-02-03; ETDE: 1981-01-30

- \*BT1 o-glycosyl hydrolases

**GLUCURONIC ACID**

- \*BT1 aldehydes
- \*BT1 hydroxy acids
- RT glucuronidase
- RT glucuronide conjugates
- RT hyaluronic acid
- RT pectins

**GLUCURONIDASE**

Code number 3.2.1.31.

- \*BT1 o-glycosyl hydrolases
- RT glucuronic acid

**GLUCURONIDE CONJUGATES**

INIS: 2000-04-12; ETDE: 1985-09-24

Water soluble conjugates of many foreign substances are formed by condensation with glucuronic acid. This conjugation precedes and facilitates the elimination of the foreign substance from the organism.

- BT1 metabolites
- RT biliary tract
- RT excretion
- RT glucuronic acid
- RT glutathione conjugates
- RT sulfates

**GLUEBALLS**

INIS: 1983-10-14; ETDE: 1983-03-07

Bound states of gluons.

- UF gluonium
- RT bound state
- RT color model
- RT gluon model
- RT gluons

**GLUON CONDENSATION**

INIS: 1989-04-20; ETDE: 1989-05-11

- RT gluons
- RT quantum operators
- RT vacuum states

**GLUON-GLUON INTERACTIONS**

INIS: 1988-11-16; ETDE: 1988-12-02

- \*BT1 particle interactions
- RT gluons
- RT quantum chromodynamics

**GLUON MODEL**

UF massive vector-meson model

SF parton model

- \*BT1 particle models
- RT glueballs
- RT gluons
- RT quantum chromodynamics
- RT vector mesons

**gluonium**

INIS: 1983-10-14; ETDE: 1983-03-07

- USE glueballs

**GLUONS**

INIS: 1979-01-18; ETDE: 1979-02-23

- SF partons
- BT1 bosons
- RT glueballs
- RT gluon condensation
- RT gluon-gluon interactions
- RT gluon model
- RT quantum chromodynamics
- RT quark-gluon interactions
- RT quark matter
- RT vector mesons

**GLUTAMIC ACID**

UF aminoglutaric acid-alpha

- \*BT1 amino acids
- NT1 pyridoxylidene-glutamate
- RT glutamine
- RT glutaric acid

**GLUTAMINE**

- \*BT1 amides
- \*BT1 amino acids
- RT glutamic acid

**GLUTARIC ACID**

- \*BT1 dicarboxylic acids
- RT glutamic acid

**GLUTATHIONE**

- \*BT1 polypeptides
- \*BT1 radioprotective substances
- RT glutathione conjugates

**GLUTATHIONE CONJUGATES**

INIS: 2000-04-12; ETDE: 1985-09-24

Water soluble conjugates of many foreign substances are formed by condensation with glutathione. This conjugation precedes and facilitates the elimination of the foreign substance from the organism.

- BT1 metabolites
- RT biliary tract
- RT excretion
- RT glucuronide conjugates
- RT glutathione
- RT sulfates

**GLUTIN**

- \*BT1 scleroproteins

**GLYCERIC ACID**

UF dihydroxypropionic acid

- \*BT1 hydroxy acids

**glycerin**

- USE glycerol

**GLYCEROL**

1996-10-22

- UF 1,2,3-propanetriol
- UF glycerin
- \*BT1 alcohols
- RT lecithins
- RT lugol
- RT nitroglycerin
- RT triglycerides

**glyceryl trioleate**

- USE triolein

**glycides**

- USE saccharides

**GLYCINE**

UF aminoacetic acid

UF glycoll

- \*BT1 amino acids
- RT glycylglycine
- RT hippuric acid
- RT sarcosine

**GLYCINE HISPIDA**

UF soybean plant

\*BT1 leguminosae

- RT forage
- RT soybeans

**glycoll**

- USE glycine

**GLYCOGEN**

\*BT1 polysaccharides

- RT liver

**glycol monoalkyl ethers**

- USE cellosolves

**GLYCOLIC ACID**

UF hydroxyacetic acid

- \*BT1 hydroxy acids
- \*BT1 monocarboxylic acids
- RT thionalide

**GLYCOLIPIDS**

- \*BT1 lipids
- \*BT1 saccharides
- NT1 cerebrosides
- NT1 gangliosides
- RT golgi complexes

**GLYCOLS**

1996-06-26

- UF 1,2-ethanediol
- UF benzopinacol
- UF carbitols
- UF diglycol monoalkyl ethers
- UF diols
- UF ethylene glycol
- UF tetraphenylethylene glycol
- \*BT1 alcohols
- NT1 butanediols
- NT1 cellosolves
- NT1 egta
- NT1 pinacol
- NT1 polyethylene glycols
- NT2 carbowax
- NT2 pluronics
- RT dacron
- RT mylar

**GLYCOLYSIS**

- \*BT1 decomposition
- BT1 metabolism
- RT carbohydrates
- RT catabolism
- RT enzymes
- RT saccharides

**glyconic acid**

USE gluconic acid

**GLYCOPROTEINS**

1975-11-27

\*BT1 proteins

\*BT1 saccharides

**NT1** avidin**NT1** glycoproteins**NT2** lactoferrin**NT2** ovalbumin**NT1** luteinizing hormone*RT* mucopolysaccharides*RT* mucoproteins*RT* post-translation modification**GLYCOSIDES**

1996-10-23

*UF* hesperidin*UF* phloredzin*UF* phlorhizin*UF* phlorizin

\*BT1 carbohydrates

**NT1** cardiac glycosides**NT2** digitalis glycosides**NT3** digitoxin**NT3** digoxin**NT2** strophanthins**NT3** ouabain**NT1** saponins**NT1** strophantin**NT1** uridine diphosphoglucose*RT* lignin*RT* quercetin**glycosuria**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE metabolic diseases

USE urogenital system diseases

**GLYCOSYL HYDROLASES**

Code number 3.2.

\*BT1 hydrolases

**NT1** o-glycosyl hydrolases**NT2** amylase**NT2** cellulase**NT2** galactosidase**NT2** glucosidase**NT2** glucuronidase**NT2** hyaluronidase**NT2** lysozyme**NT2** xylanase**GLYCOSYL TRANSFERASES***INIS*: 1982-06-09; *ETDE*: 1981-06-13

Code number 2.4.

\*BT1 transferases

**NT1** hexosyl transferases**NT1** pentosyl transferases**NT2** hypoxanthine

phosphoribosyltransferase

**GLYCYLGLYCINE**

2000-04-05

\*BT1 amino acids

\*BT1 peptides

*RT* glycine**glykogenic acid**

USE gluconic acid

**GLYOXAL***UF* 1,2-ethanedial*UF* oxalaldehyde

\*BT1 aldehydes

**GLYOXYLIC ACID***UF* oxoacetic acid

\*BT1 aldehydes

\*BT1 carboxylic acids

**GNEISSES***INIS*: 1984-02-22; *ETDE*: 1980-08-12

\*BT1 metamorphic rocks

**GNOME EVENT**

BT1 plowshare project

BT1 vela project

**gnothobionts**

USE germ-free animals

**GOATS**

\*BT1 domestic animals

\*BT1 ruminants

**gobar gas***INIS*: 2000-04-12; *ETDE*: 1975-10-01

(Prior to March 1983 this concept in ETDE

was indexed by INTERMEDIATE BTU

GAS.)

USE intermediate btu gas

USE methane

**GODIVA REACTOR***LANL, Los Alamos, New Mexico, USA.*

\*BT1 zero power reactors

**GOES SATELLITES***INIS*: 1983-03-15; *ETDE*: 1980-04-14*UF* geostationary operational environmental satellite

BT1 satellites

*RT* geologic surveys*RT* remote sensing**GOESGEN REACTOR***Daeniken, Soleure, Switzerland.**UF* kernkraftwerk goesgen-daeniken

\*BT1 pwr type reactors

**GOETHITE***INIS*: 1992-09-03; *ETDE*: 1984-02-10

\*BT1 oxide minerals

*RT* iron oxides*RT* limonite**goiania radiological emergency***INIS*: 1988-08-02; *ETDE*: 2002-06-13*Goiania, Goias, Brazil.*

USE brazil

USE radiation accidents

**GOITER**

\*BT1 endocrine diseases

*RT* hyperthyroidism*RT* hypothyroidism*RT* thyroid**GOL-3 DEVICE***INIS*: 1999-07-26; *ETDE*: 1999-09-03*Budker Institute for Nuclear Physics,**Novosibirsk, Russia.*

\*BT1 magnetic mirrors

**GOLD**

\*BT1 transition elements

**GOLD 170***INIS*: 2003-01-03; *ETDE*: 2002-12-26

\*BT1 gold isotopes

\*BT1 intermediate mass nuclei

\*BT1 microseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 proton decay radioisotopes

**GOLD 171**

2003-06-26

\*BT1 alpha decay radioisotopes

\*BT1 gold isotopes

\*BT1 intermediate mass nuclei

\*BT1 microseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

**GOLD 172**

1994-04-11

\*BT1 alpha decay radioisotopes

\*BT1 gold isotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**GOLD 173**

1983-09-01

\*BT1 alpha decay radioisotopes

\*BT1 gold isotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**GOLD 174**

1983-09-01

\*BT1 alpha decay radioisotopes

\*BT1 gold isotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**GOLD 175***ETDE*: 1975-08-19

\*BT1 alpha decay radioisotopes

\*BT1 gold isotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**GOLD 176***ETDE*: 1975-08-19

\*BT1 alpha decay radioisotopes

\*BT1 gold isotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**GOLD 177**

\*BT1 alpha decay radioisotopes

\*BT1 gold isotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**GOLD 178**

\*BT1 alpha decay radioisotopes

\*BT1 gold isotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**GOLD 179**

\*BT1 alpha decay radioisotopes

\*BT1 gold isotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**GOLD 180**

\*BT1 electron capture radioisotopes

\*BT1 gold isotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**GOLD 181**

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 gold isotopes

\*BT1 heavy nuclei

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**GOLD 182**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 gold isotopes

\*BT1 heavy nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**GOLD 183**

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**GOLD 184**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**GOLD 185**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**GOLD 186**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**GOLD 187**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**GOLD 187 TARGET**

*INIS: 1978-11-24; ETDE: 1978-12-20*  
 BT1 targets

**GOLD 188**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**GOLD 189**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**GOLD 190**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**GOLD 191**

\*BT1 electron capture radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

**GOLD 192**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 odd-odd nuclei

**GOLD 193**

\*BT1 electron capture radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**GOLD 193 TARGET**

*INIS: 1977-11-21; ETDE: 1978-03-08*  
 BT1 targets

**GOLD 194**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-odd nuclei

**GOLD 194 TARGET**

*INIS: 1977-11-21; ETDE: 1978-03-08*  
 BT1 targets

**GOLD 195**

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**GOLD 195 TARGET**

*INIS: 1977-11-21; ETDE: 1978-03-08*  
 BT1 targets

**GOLD 196**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**GOLD 196 TARGET**

*INIS: 1977-11-21; ETDE: 1978-03-08*  
 BT1 targets

**GOLD 197**

\*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 stable isotopes

**GOLD 197 BEAMS**

*INIS: 1979-04-27; ETDE: 1979-05-25*  
 \*BT1 ion beams

**GOLD 197 REACTIONS**

*INIS: 1984-06-21; ETDE: 1984-07-10*  
 \*BT1 heavy ion reactions

**GOLD 197 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**GOLD 198**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-odd nuclei  
 RT radiocolloids

**GOLD 198 TARGET**

*INIS: 1977-11-21; ETDE: 1978-03-08*  
 BT1 targets

**GOLD 199**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-even nuclei

**GOLD 199 TARGET**

*INIS: 1977-11-21; ETDE: 1978-03-08*  
 BT1 targets

**GOLD 200**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

**GOLD 201**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**GOLD 202**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**GOLD 203**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**GOLD 204**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**GOLD 205**

*1994-04-11*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 gold isotopes  
 \*BT1 heavy nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

**GOLD ADDITIONS**

*2000-04-05*

*Alloys containing not more than 1% Au are listed here.*

\*BT1 gold alloys

**GOLD ALLOYS**

*1995-02-27*

*Alloys containing more than 1% Au.*

\*BT1 transition element alloys

NT1 gold additions  
 NT1 gold base alloys  
 NT2 palau  
**GOLD BASE ALLOYS**  
 \*BT1 gold alloys  
 NT1 palau  
**GOLD BROMIDES**  
 \*BT1 bromides  
 \*BT1 gold compounds  
**GOLD CHLORIDES**  
 \*BT1 chlorides  
 \*BT1 gold compounds  
**GOLD COMPLEXES**  
 \*BT1 transition element complexes  
**GOLD COMPOUNDS**  
 1997-06-17  
 UF aurates  
 BT1 transition element compounds  
 NT1 gold bromides  
 NT1 gold chlorides  
 NT1 gold fluorides  
 NT1 gold hydrides  
 NT1 gold iodides  
 NT1 gold oxides  
 NT1 gold silicides  
 NT1 gold tellurides  
**GOLD FLUORIDES**  
 \*BT1 fluorides  
 \*BT1 gold compounds  
**GOLD HYDRIDES**  
 1978-11-24  
 \*BT1 gold compounds  
 \*BT1 hydrides  
**GOLD IODIDES**  
 \*BT1 gold compounds  
 \*BT1 iodides  
**GOLD IONS**  
 \*BT1 ions  
**GOLD ISOTOPES**  
 1999-07-16  
 BT1 isotopes  
 NT1 gold 170  
 NT1 gold 171  
 NT1 gold 172  
 NT1 gold 173  
 NT1 gold 174  
 NT1 gold 175  
 NT1 gold 176  
 NT1 gold 177  
 NT1 gold 178  
 NT1 gold 179  
 NT1 gold 180  
 NT1 gold 181  
 NT1 gold 182  
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 NT1 gold 192  
 NT1 gold 193  
 NT1 gold 194  
 NT1 gold 195  
 NT1 gold 196  
 NT1 gold 197  
 NT1 gold 198  
 NT1 gold 199  
 NT1 gold 200

NT1 gold 201  
 NT1 gold 202  
 NT1 gold 203  
 NT1 gold 204  
 NT1 gold 205  
**GOLD ORES**  
 BT1 ores  
**GOLD OXIDES**  
 1996-07-16  
 \*BT1 gold compounds  
 \*BT1 oxides  
**GOLD SILICIDES**  
 INIS: 1985-01-17; ETDE: 1975-12-16  
 \*BT1 gold compounds  
 \*BT1 silicides  
**GOLD TELLURIDES**  
 INIS: 2000-04-12; ETDE: 1975-11-28  
 \*BT1 gold compounds  
 \*BT1 tellurides  
**GOLDBERGER MODEL**  
 UF serber-goldberger model  
 \*BT1 nuclear models  
**GOLDBERGER-TREIMAN  
RELATION**  
 RT coupling  
 RT pions  
 RT quantum field theory  
 RT weak interactions  
**GOLDFISH**  
 UF carassius  
 \*BT1 fishes  
*goldhaber-teller model*  
 USE giant resonance model  
**GOLDSTONE BOSONS**  
*Massless particles occurring in certain  
broken-symmetry theories.*  
 BT1 bosons  
 \*BT1 postulated particles  
 NT1 axions  
 RT invariance principles  
 RT su groups  
**GOLDSTONE DIAGRAMS**  
 UF brueckner approximation  
 UF brueckner-goldstone theory  
 UF brueckner-sawada theory  
 UF sawada method  
 \*BT1 diagrams  
 RT many-body problem  
**GOLFECH-1 REACTOR**  
 INIS: 1984-07-23; ETDE: 1984-09-05  
 \*BT1 pwr type reactors  
**GOLFECH-2 REACTOR**  
 1995-06-29  
 \*BT1 pwr type reactors  
*golgi apparatus*  
 USE golgi complexes  
*golgi bodies*  
 INIS: 2000-04-12; ETDE: 1991-08-21  
 USE golgi complexes  
**GOLGI COMPLEXES**  
 INIS: 1999-04-20; ETDE: 1991-08-21  
 (Until August 1994 this concept was indexed  
to ORGANOIDs.)  
 UF dictyosomes  
 UF golgi apparatus  
 UF golgi bodies  
 UF organoids  
 BT1 cell constituents

RT cell membranes  
 RT endoplasmic reticulum  
 RT glucoproteins  
 RT glycolipids  
 RT lysosomes  
 RT post-translation modification

**GONADOTROPINS**

\*BT1 pituitary hormones  
 NT1 fsh  
 NT1 hcg  
 NT1 lth  
 NT1 luteinizing hormone  
 RT gonads

**GONADS**

NT1 ovaries  
 NT1 testes  
 RT castration  
 RT endocrine glands  
 RT female genitals  
 RT fertility  
 RT gametogenesis  
 RT genetic effects  
 RT germ cells  
 RT gonadotropins  
 RT hcg  
 RT male genitals  
 RT pelvis  
 RT reproduction  
 RT sex

**GONDWANA**

INIS: 2000-04-12; ETDE: 1989-09-08  
 RT plate tectonics

**GONIOMETERS**

BT1 measuring instruments

**GONORRHEA**

INIS: 1976-06-23; ETDE: 1976-08-24  
 \*BT1 bacterial diseases  
 \*BT1 urogenital system diseases

**GOODS AND SERVICES**

INIS: 2000-04-12; ETDE: 1983-03-23  
*Includes personal property, actions, and  
services, as distinguished from real property.*  
 RT procurement

**GORKOV-ELIASHBERG THEORY**

INIS: 1977-07-05; ETDE: 1976-01-07  
*Theory of gapless superconductivity arising  
from magnetic impurities.*  
 UF eliasberg equations  
 RT superconductivity

**GORLEBEN SALT DOME**

INIS: 1989-11-24; ETDE: 1989-12-08  
 \*BT1 radioactive waste facilities  
 RT high-level radioactive wastes  
 RT salt caverns  
 RT salt deposits  
 RT underground disposal

*gosatomnadzor*

INIS: 1997-08-08; ETDE: 1977-06-03  
 (Until July 1997 this was a valid descriptor.)  
 USE gosatomnadzor rossii

**GOSATOMNADZOR ROSSII**

1997-08-08  
*Until July 1997 this was known as  
GOSATOMNADZOR.*  
 UF gosatomnadzor  
 UF nuclear and radiation safety federal  
authority of russia  
 UF russian state nuclear and radiation  
safety authority  
 \*BT1 russian organizations



**GOVERNMENT BUILDINGS**

*INIS: 1994-10-03; ETDE: 1993-01-20*  
(Until September 1994 this concept was indexed to FEDERAL BUILDINGS.)

*UF federal buildings*  
BT1 buildings  
*RT military facilities*  
*RT office buildings*  
*RT public buildings*

**government industry data exchange program (gidep)**

*INIS: 2000-04-12; ETDE: 1984-11-09*  
SEE data acquisition

**GOVERNMENT POLICIES**

*1998-01-28*  
(From August 1979 till March 1997 LEGAL INCENTIVES was a valid ETDE descriptor.)

*SF legal incentives*  
*SF policy*  
NT1 economic policy  
NT1 energy policy  
NT2 national energy plans  
NT3 us national energy plan  
NT2 project independence  
NT1 environmental policy  
NT2 emissions trading  
NT2 water policy  
NT1 foreign policy  
*RT deregulation*  
*RT implementation*  
*RT institutional factors*  
*RT local government*  
*RT national government*  
*RT nationalization*  
*RT non-proliferation policy*  
*RT nuclear power phaseout*  
*RT planning*  
*RT political aspects*  
*RT public enterprises*  
*RT public officials*  
*RT public policy*  
*RT regional cooperation*  
*RT regulations*  
*RT state government*  
*RT territorial waters*  
*RT us federal assistance programs*  
*RT us national program plans*

**government spending**

*INIS: 2000-04-12; ETDE: 1980-08-25*  
*Coordinate the descriptor below with one for the level of government involved, e.g. NATIONAL GOVERNMENT.*

(Prior to February 1997 FEDERAL EXPENDITURES was used for this concept.)  
USE expenditures

**GOVERNOR MODEL**

\*BT1 shell models  
*RT cranking model*  
*RT deformed nuclei*  
*RT fission*

**governors**

*INIS: 2000-04-12; ETDE: 1979-11-23*  
USE state officials

**gps**

*2004-08-30*  
USE global positioning system

**GRABEN-1 REACTOR**

\*BT1 bwr type reactors

**GRABEN-2 REACTOR**

*2000-04-12*  
\*BT1 bwr type reactors

**GRABS**

\*BT1 materials handling equipment  
*RT hoists*  
*RT materials handling*

**grace particles**

*INIS: 1978-08-14; ETDE: 1978-10-19*  
*Flavor of quarks proposed in certain U(3) gauge theories of electroweak interactions.*  
(This was a valid descriptor from August 1978 to March 2006.)  
SEE quarks

**GRAD-SHAFRANOV EQUATION**

*INIS: 1983-10-14; ETDE: 1983-11-09*  
\*BT1 partial differential equations  
*RT mercier criterion*  
*RT plasma*  
*RT transport theory*

**graded band gap solar cells**

*INIS: 1992-05-28; ETDE: 1981-07-18*  
USE cascade solar cells

**GRADED BAND GAPS**

*INIS: 1992-05-28; ETDE: 1978-12-11*  
*RT band theory*  
*RT cascade solar cells*  
*RT semiconductor materials*  
*RT solar cells*

**GRADED LIE GROUPS**

*INIS: 1978-11-24; ETDE: 1978-12-20*  
*Lie groups defined by an algebraic structure which contains commutation and anticommutation relations.*  
*UF lie superalgebra*  
\*BT1 lie groups  
*RT algebra*  
*RT supergravity*  
*RT supersymmetry*

**GRAFENRHEINFELD REACTOR**

\*BT1 pwr type reactors

**GRAFT-HOST REACTION**

*RT antigen-antibody reactions*  
*RT grafts*  
*RT histocompatibility complex*  
*RT host*  
*RT immunity*  
*RT transplants*

**GRAFT POLYMERS**

\*BT1 organic polymers  
*RT ion exchange materials*

**GRAFTS**

BT1 transplants  
*RT graft-host reaction*  
*RT radioimmunology*

**grain alcohol**

USE ethanol

**GRAIN BOUNDARIES**

*UF boundaries (grain)*  
BT1 microstructure  
*RT dislocation pinning*  
*RT grain growth*  
*RT intergranular corrosion*

**GRAIN DENSITY**

*UF density (grain)*  
BT1 microstructure  
*RT granular materials*

**GRAIN DISINFESTATION**

BT1 disinfestation  
*RT agriculture*  
*RT cereals*  
*RT fumigants*  
*RT insects*

*RT pesticides*  
*RT preservation*  
*RT radiodisinfestation*  
*RT sterilization*

**GRAIN GROWTH**

*UF growth (grain)*  
*RT crystal growth*  
*RT grain boundaries*  
*RT grain refinement*  
*RT grain size*  
*RT recrystallization*

**GRAIN ORIENTATION**

*UF orientation (grain)*  
*UF preferred orientation*  
BT1 microstructure  
BT1 orientation  
*RT texture*

**GRAIN REFINEMENT**

*UF refinement (grain)*  
*RT grain growth*  
*RT grain size*  
*RT heat treatments*

**GRAIN SIZE**

See also PARTICLE SIZE.

BT1 microstructure  
BT1 size  
*RT grain growth*  
*RT grain refinement*  
*RT granular materials*

**grains (cereal)**

USE cereals  
USE seeds

**GRAMINEAE**

*ETDE: 1991-07-01*

(Prior to December 1984 this was a valid ETDE descriptor. From December 1984 to July 1991 this concept in ETDE was indexed to GRASS.)

*UF grass*  
\*BT1 liliopsida  
NT1 bamboo  
NT1 cereals  
NT2 barley  
NT2 maize  
NT2 millet  
NT2 oats  
NT2 rice  
NT2 rye  
NT2 sorghum  
NT2 wheat

**NT1 reeds**

NT2 sugar cane  
*RT cattle*  
*RT forage*  
*RT ground cover*  
*RT pastures*  
*RT preferred species*  
*RT weeds*

**grand accélérateur national d'ions lourds**

*INIS: 1976-07-30; ETDE: 2002-06-13*  
USE ganil cyclotron

**GRAND GULF-1 REACTOR**

*Entergy Operations, Inc., Port Gibson, Mississippi, USA.*

\*BT1 bwr type reactors

**GRAND GULF-2 REACTOR**

*Entergy Operations, Inc., Port Gibson, Mississippi, USA. Canceled in 1990 after construction began (1974).*

\*BT1 bwr type reactors

**GRAND RIVER**

INIS: 1992-06-04; ETDE: 1981-01-27

- \*BT1 rivers
- RT hydroelectric power
- RT michigan

**grand unification**

INIS: 1983-12-01; ETDE: 2002-06-13

- USE grand unified theory

**GRAND UNIFIED THEORY**

INIS: 1995-08-10; ETDE: 1984-01-27

*Gauge field theory to unify electromagnetic, weak and strong interactions. For unified theories involving gravitation see UNIFIED-FIELD THEORIES.*

- UF grand unification
- \*BT1 unified gauge models
- NT1 standard model
- RT electromagnetic interactions
- RT quantum chromodynamics
- RT so-10 groups
- RT strong interactions
- RT su-5 groups
- RT unified-field theories
- RT weak interactions
- RT weinberg-salam gauge model

**GRANITES**

- \*BT1 plutonic rocks
- NT1 aplites
- NT1 granodiorites
- NT1 quartz monzonite
- RT biotite
- RT feldspars
- RT hornblende
- RT pegmatites
- RT quartz
- RT rhyolites
- RT xenotime

**GRANODIORITES**

- \*BT1 granites
- RT feldspars
- RT quartz

**grants**

INIS: 1985-01-17; ETDE: 1978-02-14

*Things bestowed or transferred, such as money or land, for particular purposes.*

(Prior to February 1997 this was a valid ETDE descriptor.)

- USE financing

**GRANULAR BED FILTERS**

INIS: 1999-07-29; ETDE: 1978-06-14

(Until July 1999 this concept was indexed by MECHANICAL FILTERS.)

- \*BT1 mechanical filters
- RT pollution control equipment

**GRANULAR MATERIALS**

INIS: 1982-09-21; ETDE: 1979-11-23

*For unspecified materials having a granular texture.*

- BT1 materials
- RT grain density
- RT grain size
- RT particles
- RT powders

**GRANULATION**

2006-02-08

*Process of producing particles of grain-like structure from solid substances.*

- BT1 fabrication
- RT agglomeration

**granulation (solar)**

- USE solar granulation

**GRANULITES**

INIS: 2000-04-12; ETDE: 1980-08-12

- \*BT1 metamorphic rocks

**granulocytes**

- USE leukocytes

**GRANULOMAS**

- \*BT1 neoplasms
- RT infectious diseases
- RT inflammation
- RT pathological changes

**GRAPEFRUITS**

- \*BT1 fruits
- RT citrus

**GRAPES**

- \*BT1 fruits

**GRAPH THEORY**

2002-09-10

- SF graphs
- BT1 mathematics
- RT mathematical manifolds
- RT mathematical space
- RT measure theory
- RT topological mapping
- RT topology

**GRAPHITE**

- UF graphite moderator
- \*BT1 carbon
- BT1 minerals
- RT carbon fibers
- RT graphitization
- RT matrix materials
- RT moderators
- RT refractories
- RT solid lubricants
- RT wigner effect

**graphite fibers**

INIS: 1983-03-15; ETDE: 1975-11-11

- USE carbon fibers

**graphite low-energy experimental pile**

1993-11-08

- USE gleep reactor

**GRAPHITE MODERATED REACTORS**

1996-01-24

- SF berkeley nuclear laboratory reactor
- SF bnl reactor
- SF smr reactor
- SF solid moderated reactor
- BT1 reactors
- NT1 anna reactor
- NT1 bepo reactor
- NT1 bgrr reactor
- NT1 bigr reactor
- NT1 br-1 reactor
- NT1 cesar reactor
- NT1 cp-2 reactor
- NT1 egcr reactor
- NT1 f-1 reactor
- NT1 gcr type reactors
- NT2 agr type reactors
- NT3 connah quay-b reactor
- NT3 dungeness-b reactor
- NT3 hartlepool reactor
- NT3 heysham-a reactor
- NT3 heysham-b reactor
- NT3 hinkley point-b reactor
- NT3 hunterston-b reactor
- NT3 torness reactor
- NT3 wagr reactor
- NT2 bugey-1 reactor
- NT2 chinon-1 reactor

- NT2 chinon-2 reactor
- NT2 chinon-3 reactor
- NT2 g-1 reactor
- NT2 g-2 reactor
- NT2 g-3 reactor
- NT2 magnox type reactors
- NT3 berkeley reactor
- NT3 bradwell reactor
- NT3 calder hall a-1 reactor
- NT3 calder hall a-2 reactor
- NT3 calder hall b-3 reactor
- NT3 calder hall b-4 reactor
- NT3 chapelcross-1 reactor
- NT3 chapelcross-2 reactor
- NT3 chapelcross-3 reactor
- NT3 chapelcross-4 reactor
- NT3 dungeness-a reactor
- NT3 hinkley point-a reactor
- NT3 hunterston-a reactor
- NT3 latina reactor
- NT3 oldbury-a reactor
- NT3 sizewell-a reactor
- NT3 tokai-mura reactor
- NT3 trawsfynydd reactor
- NT3 wyllfa reactor
- NT2 saint laurent-1 reactor
- NT2 saint laurent-2 reactor
- NT2 vandello reactor
- NT1 gleep reactor
- NT1 hector reactor
- NT1 hero reactor
- NT1 hew-305 reactor
- NT1 hitrex-1 reactor
- NT1 hnpf reactor
- NT1 htgr type reactors
- NT2 avr reactor
- NT2 dragon reactor
- NT2 fulton-1 reactor
- NT2 fulton-2 reactor
- NT2 ga standard reactor
- NT2 htr-10 reactor
- NT2 httr reactor
- NT2 kahter reactor
- NT2 peach bottom-1 reactor
- NT2 schmehausen-2 reactor
- NT2 summit-1 reactor
- NT2 summit-2 reactor
- NT2 thtr-300 reactor
- NT2 vg-400 reactor
- NT2 vgr-50 reactor
- NT2 vht reactor
- NT2 vidal-1 reactor
- NT2 vidal-2 reactor
- NT2 vrain reactor
- NT1 hltr reactor
- NT1 iea-zpr reactor
- NT1 igr reactor
- NT1 iowa utr-10 reactor
- NT1 kuca reactor
- NT1 lwgr type reactors
- NT2 aps reactor
- NT2 beloyarsk-1 reactor
- NT2 beloyarsk-2 reactor
- NT2 bilibin reactor
- NT2 chernobylsk-1 reactor
- NT2 chernobylsk-2 reactor
- NT2 chernobylsk-3 reactor
- NT2 chernobylsk-4 reactor
- NT2 ignalina-1 reactor
- NT2 ignalina-2 reactor
- NT2 kursk-1 reactor
- NT2 kursk-2 reactor
- NT2 kursk-3 reactor
- NT2 kursk-4 reactor
- NT2 leningrad-1 reactor
- NT2 leningrad-2 reactor
- NT2 leningrad-3 reactor
- NT2 leningrad-4 reactor
- NT2 n-reactor

**NT2** rpt reactor  
**NT2** smolensk-1 reactor  
**NT2** smolensk-2 reactor  
**NT2** smolensk-3 reactor  
**NT2** uwtr reactor  
**NT1** marius reactor  
**NT1** msre reactor  
**NT1** ntr reactor  
**NT1** pctr reactor  
**NT1** proteus reactor  
**NT1** rb-1 reactor  
**NT1** sgr type reactors  
**NT2** sre reactor  
**NT1** shca reactor  
**NT1** sr-305 reactor  
**NT1** treat reactor  
**NT1** uhtrex reactor  
**NT1** windscale production reactors  
**NT1** x-10 reactor  
**NT1** zenith reactor

**graphite moderator**

USE graphite

**GRAPHITIZATION**

INIS: 1984-07-20; ETDE: 1975-11-11  
 RT carbonization  
 RT crystal-phase transformations  
 RT graphite

**graphs**

INIS: 2000-04-12; ETDE: 1979-03-29  
 (Prior to December 1991 this was a valid  
 ETDE descriptor.)  
 SEE diagrams  
 SEE graph theory

**grasers**

INIS: 1981-04-03; ETDE: 1978-03-08  
 USE gasers

**GRASHOF NUMBER**

**BT1** dimensionless numbers  
 RT natural convection  
 RT viscosity

**grass**

(Prior to July 1991 this was a valid ETDE  
 descriptor.)  
 USE gramineae

**GRASSHOPPERS**

**\*BT1** orthoptera  
**NT1** locusts

**grasslands**

INIS: 2000-04-12; ETDE: 1982-12-23  
 USE rangelands

**grates**

INIS: 2000-04-12; ETDE: 1997-04-02  
 USE gratings

**GRATINGS**

INIS: 1984-01-18; ETDE: 1982-01-21  
 Crossed arrays of metal ribs or wires. Not for  
 SCREENS or INTAKE STRUCTURES. See  
 also DIFFRACTION GRATINGS, for which  
 concept this term was used till November  
 1989.

UF grates  
 RT diffraction  
 RT furnaces  
 RT screens  
 RT waveguides

**GRAVELINES-1 REACTOR**

2004-12-20  
 Gravelines, Nord, France.  
 (Prior to December 2004 GRAVELINES-B1  
 REACTOR was used for this reactor.)  
 UF gravelines-b1 reactor

**\*BT1** pwr type reactors  
 RT gravelines site

**GRAVELINES-2 REACTOR**

2004-12-20  
 Gravelines, Nord, France.  
**\*BT1** pwr type reactors  
 RT gravelines site

**GRAVELINES-3 REACTOR**

2004-12-20  
 Gravelines, Nord, France.  
**\*BT1** pwr type reactors  
 RT gravelines site

**GRAVELINES-4 REACTOR**

2004-12-20  
 Gravelines, Nord, France.  
**\*BT1** pwr type reactors  
 RT gravelines site

**GRAVELINES-5 REACTOR**

2004-12-20  
 Gravelines, Nord, France.  
**\*BT1** pwr type reactors  
 RT gravelines site

**GRAVELINES-6 REACTOR**

2004-12-20  
 Gravelines, Nord, France.  
 (Prior to December 2004 GRAVELINES-C6  
 REACTOR was used for this reactor.)  
 UF gravelines-c6 reactor  
**\*BT1** pwr type reactors  
 RT gravelines site

**gravelines-b1 reactor**

INIS: 1980-02-26; ETDE: 1980-03-29  
 Gravelines, Nord, France.  
 (Prior to December 2004 this was a valid  
 descriptor.)  
 USE gravelines-1 reactor

**gravelines-c6 reactor**

INIS: 1990-09-24; ETDE: 1990-10-09  
 Gravelines, Nord, France.  
 (Prior to December 2004 this was a valid  
 descriptor.)  
 USE gravelines-6 reactor

**GRAVELINES SITE**

2004-12-20  
 Gravelines, Nord, France.  
**BT1** reactor sites  
 RT gravelines-1 reactor  
 RT gravelines-2 reactor  
 RT gravelines-3 reactor  
 RT gravelines-4 reactor  
 RT gravelines-5 reactor  
 RT gravelines-6 reactor

**gravichem process**

INIS: 2000-04-12; ETDE: 1980-06-23  
 Desulfurization process in which coal is mixed  
 with ferric sulfate, which oxidizes pyritic sulfur  
 to elemental sulfur.  
 (Prior to March 1994, this was a valid ETDE  
 descriptor.)  
 USE desulfurization

**GRAVIMELT PROCESS**

INIS: 2000-04-12; ETDE: 1980-08-25  
 The chemical desulfurization of coal by  
 reaction with an 80% molten caustic mixture  
 with a 1:1 mole ratio of KOH and NaOH. The  
 reaction occurs in a nickel reaction vessel at  
 atmospheric pressure and 715 degrees F.  
**\*BT1** desulfurization

**GRAVIMETRIC ANALYSIS**

**\*BT1** quantitative chemical analysis  
**NT1** thermal gravimetric analysis

**GRAVIMETRY**

1996-04-18  
 For gravitation measurement only; see also  
 GRAVIMETRIC ANALYSIS.  
 RT acceleration  
 RT gravitation  
 RT gravity surveys

**GRAVITATION**

RT einstein effect  
 RT general relativity theory  
 RT gravimetry  
 RT gravitational fields  
 RT gravitational interactions  
 RT gravitational lenses  
 RT gravity waves  
 RT kaluza-klein theory  
 RT quantum gravity  
 RT schwarzschild metric  
 RT supergravity  
 RT twistor theory  
 RT unified-field theories  
 RT weightlessness

**gravitational charges**

INIS: 1975-08-22; ETDE: 2002-06-13  
 USE fundamental constants  
 USE gravitons

**GRAVITATIONAL COLLAPSE**

UF collapse (gravitational)  
 RT black holes  
 RT neutron stars  
 RT schwarzschild radius  
 RT star evolution

**GRAVITATIONAL FIELDS**

UF fields (gravitational)  
**NT1** kerr field  
 RT einstein effect  
 RT einstein field equations  
 RT einstein-maxwell equations  
 RT equivalence principle  
 RT general relativity theory  
 RT gravitation  
 RT gravitational interactions  
 RT gravitational lenses  
 RT gravitational radiation  
 RT mass  
 RT metrics  
 RT potentials  
 RT quantum gravity  
 RT roche equipotentials  
 RT unitor  
 RT weyl unified theory

**GRAVITATIONAL INSTABILITY**

2000-04-12  
**\*BT1** plasma instability

**GRAVITATIONAL INTERACTIONS**

**\*BT1** basic interactions  
 RT gravitation  
 RT gravitational fields  
 RT gravitational radiation  
 RT gravitational waves

**GRAVITATIONAL LENSES**

INIS: 1983-02-04; ETDE: 1983-03-07  
**BT1** lenses  
 RT general relativity theory  
 RT gravitation  
 RT gravitational fields

**GRAVITATIONAL RADIATION**

**BT1** radiations  
**NT1** gravitons  
 RT general relativity theory  
 RT gravitational fields  
 RT gravitational interactions  
 RT gravitational wave detectors

RT gravitational waves

## GRAVITATIONAL WAVE DETECTORS

INIS: 1976-03-02; ETDE: 1976-04-19

\*BT1 radiation detectors  
RT gravitational radiation  
RT gravitational waves

## GRAVITATIONAL WAVES

RT einstein-maxwell equations  
RT gravitational interactions  
RT gravitational radiation  
RT gravitational wave detectors

## GRAVITONS

UF gravitational charges  
\*BT1 gravitational radiation  
\*BT1 massless particles  
\*BT1 postulated particles  
RT quantum gravity  
RT supergravity  
RT uniton

## GRAVITY LOGGING

INIS: 1996-04-18; ETDE: 1977-01-28

BT1 well logging  
RT gravity surveys

## GRAVITY SURVEYS

1996-06-18

(Until April 1996 this concept was indexed to GEOPHYSICAL SURVEYS and GRAVIMETRY.)

\*BT1 geophysical surveys  
RT geothermal exploration  
RT gravimetry  
RT gravity logging

## GRAVITY WAVES

*Waves in an interface between fluids of different density in which the restoring force is gravity.*

NT1 water waves  
NT2 tsunamis  
RT fluid mechanics  
RT gravitation

## gray

INIS: 1997-06-05; ETDE: 1980-08-12

See also RADIATION DOSES.

USE radiation dose units  
USE si units

## GRAY ENERGY

2004-11-02

*Amount of energy consumed in the manufacture of a product or in providing a service.*

UF grey energy  
SF energy content  
BT1 energy  
RT energy accounting

## GRAYWACKE

\*BT1 sandstones  
RT conglomerates

## GRAZING

INIS: 1992-07-21; ETDE: 1979-10-03

*Feeding on growing herbage.*

BT1 feeding  
RT domestic animals  
RT forage  
RT rangelands  
RT wild animals

## GRAZING INCIDENCE TOMOGRAPHY

INIS: 1981-05-11; ETDE: 1981-06-13

\*BT1 tomography

## GREASES

BT1 lubricants  
RT lubrication  
RT oils

## GREAT BASIN

INIS: 1992-06-04; ETDE: 1978-04-06  
*Area including Nevada, Western and Central Utah, Mohave county in Arizona, and the counties of Alpine, El Dorado, Inyo, Mono, and San Bernardino in California.*

\*BT1 usa  
RT arizona  
RT california  
RT nevada  
RT utah

## great britain

USE united kingdom

## GREAT LAKES

\*BT1 lakes  
NT1 lake erie  
NT1 lake huron  
NT1 lake michigan  
NT1 lake ontario  
NT1 lake superior  
RT great lakes basin

## GREAT LAKES BASIN

INIS: 1992-01-14; ETDE: 1978-06-14

BT1 watersheds  
RT great lakes

## great lakes region

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to June 1982 this was a valid ETDE descriptor.)

USE usa

## great plains

INIS: 2000-04-12; ETDE: 1978-09-13  
*An area of land encompassing the eastern portions of Montana, Wyoming, Colorado, and New Mexico and the western portions of North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, and Texas. The area includes the southern provinces of Canada.*

USE usa

## GREAT SALT LAKE

INIS: 1992-06-04; ETDE: 1976-07-07

\*BT1 lakes  
RT utah

## GREATER ANTILLES

INIS: 1992-06-04; ETDE: 1980-02-11

\*BT1 west indies  
NT1 cuba  
NT1 hispaniola  
NT2 dominican republic  
NT2 haiti  
NT1 jamaica  
NT1 puerto rico

## GREECE

1995-04-03

BT1 developing countries  
\*BT1 western europe  
RT oecd

## GREEK ORGANIZATIONS

INIS: 1984-11-30; ETDE: 1984-12-27

BT1 national organizations

## greek research reactor

USE democritus reactor

## greeley event

1994-10-14

*A test made during OPERATION LATCHKEY. (Prior to September 1994, this was a valid ETDE descriptor.)*

USE nuclear explosions  
USE underground explosions

## GREEN FUNCTION

BT1 functions  
RT differential equations  
RT sturm-liouville equation

## green oil

INIS: 2000-04-12; ETDE: 1976-04-19

USE shale oil fractions

## GREEN RIVER FORMATION

1997-06-19

BT1 geologic formations  
NT1 mahogany zone  
NT1 uinta formation  
RT colorado  
RT oil shale deposits  
RT oil shales  
RT piceance creek basin  
RT sand wash basin  
RT uranium deposits  
RT uranium ores  
RT utah  
RT washakie basin  
RT wyoming

## GREENE COUNTY REACTOR

INIS: 1976-10-29; ETDE: 1975-11-28

*Power Authority of the State of New York, USA. Canceled in 1979 before construction began.*

\*BT1 pwr type reactors

## GREENHOUSE EFFECT

INIS: 1999-05-05; ETDE: 1976-05-17

UF global warming  
BT1 climatic change  
RT earth atmosphere  
RT greenhouse gases  
RT heat transfer  
RT kyoto protocol  
RT reflection  
RT rio declaration  
RT trapping

## GREENHOUSE GASES

INIS: 1992-04-29; ETDE: 1991-09-04

RT air pollution  
RT atmospheric chemistry  
RT carbon dioxide  
RT carbon sequestration  
RT chlorofluorocarbons  
RT emissions tax  
RT emissions trading  
RT greenhouse effect  
RT kyoto protocol  
RT methane  
RT nitrogen oxides

## GREENHOUSE PROJECT

2000-04-07

UF project greenhouse  
\*BT1 nuclear explosions  
RT eniwetok

## GREENHOUSES

1992-08-25

(Until August 1992, this concept was indexed by BUILDINGS.)

BT1 buildings  
NT1 attached greenhouses  
RT agriculture  
RT horticulture  
RT hydroponic culture

**GREENLAND**

- BT1 islands
- RT arctic ocean
- RT arctic regions
- RT denmark

**GREENWOOD-2 REACTOR**

*Detroit Edison Co., St. Clair County, Michigan, USA. Canceled in 1980 before construction began.*

- \*BT1 pwr type reactors

**GREENWOOD-3 REACTOR**

*Detroit Edison Co., St. Clair County, Michigan, USA. Canceled in 1980 before construction began.*

- \*BT1 pwr type reactors

**GREIFSWALD-1 REACTOR**

*Greifswald, Federal Republic of Germany.*

- UF bruno leuschner-1 reactor
- UF kkw greifswald-1 reactor

- \*BT1 wwer type reactors

**GREIFSWALD-2 REACTOR**

*Greifswald, Federal Republic of Germany.*

- UF bruno leuschner-2 reactor
- UF kkw greifswald-2 reactor

- \*BT1 wwer type reactors

**GREIFSWALD-3 REACTOR**

*INIS: 1978-07-31; ETDE: 1978-09-11*

*Greifswald, Federal Republic of Germany.*

- UF bruno leuschner-3 reactor
- UF kkw greifswald-3 reactor

- \*BT1 wwer type reactors

**GREIFSWALD-4 REACTOR**

*INIS: 1978-07-31; ETDE: 1978-09-11*

*Greifswald, Federal Republic of Germany.*

- UF bruno leuschner-4 reactor
- UF kkw greifswald-4 reactor

- \*BT1 wwer type reactors

**GREIFSWALD-5 REACTOR**

*INIS: 1990-07-24; ETDE: 1990-08-06*

*Greifswald, German Democratic Republic.*

- UF kkw greifswald-5 reactor

- \*BT1 wwer type reactors

**GREIFSWALD-6 REACTOR**

*INIS: 1990-07-24; ETDE: 1990-08-06*

*Greifswald, German Democratic Republic.*

- UF kkw greifswald-6 reactor

- \*BT1 wwer type reactors

**GRENADA**

*1997-03-07*

- \*BT1 lesser antilles

**GRENOBLE CYCLOTRON**

- \*BT1 isochronous cyclotrons

**GRENOBLE REACTOR**

*UF franco-german high flux reactor*

- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 test reactors

**grenoble reactor melusine-1**

- USE melusine-1 reactor

**grenoble reactor melusine-2**

- USE siloette reactor

**greuling-goertzel approximation**

*2000-04-12*

*Treatment of neutron slowing-down which includes absorption.*

*(Prior to January 1995, this was a valid ETDE descriptor.)*

- SEE neutron slowing-down theory

**grey energy**

*2004-11-02*

- USE gray energy

**GRIBOV-LIPATOV RELATION**

- BT1 equations
- RT annihilation
- RT scattering
- RT structure functions

**GRIDS**

- BT1 electrodes
- RT battery paste

**grids (coordinates)**

- USE coordinates

**GRIGNARD REAGENTS**

*UF alkylmagnesium compounds*

*UF arylmagnesium compounds*

*\*BT1 magnesium compounds*

*\*BT1 organometallic compounds*

**grillo process**

*2000-04-12*

*A desulfurization process based on chemisorption of the acidic components of waste gas in which the absorbent consists of an oxide compound of magnesium oxide and magnesium dioxide.*

*(Prior to March 1994, this was a valid ETDE descriptor.)*

- USE desulfurization

**GRINDING**

*For grinding in the sense of pulverization, use COMMINATION.*

- BT1 comminution
- BT1 machining
- RT grinding machines
- RT honing
- RT wear

**GRINDING MACHINES**

*SF mullers*

*\*BT1 machine tools*

*RT grinding*

**GROHNDE REACTOR**

*INIS: 1976-07-19; ETDE: 1976-09-15*

*Grohnde, Niedersachsen, Federal Republic of Germany.*

- \*BT1 pwr type reactors

**grom devices**

*2000-04-12*

*(Prior to June 1991 this was a valid ETDE descriptor.)*

- USE pinch devices

**GROMMET OPERATION**

*INIS: 2000-04-12; ETDE: 1979-11-23*

*\*BT1 nuclear explosions*

*\*BT1 underground explosions*

*RT contained explosions*

**groningen (kvi) cyclotron**

*INIS: 1983-06-01; ETDE: 1983-07-07*

- USE kvi cyclotron

**groningen versneller instituut**

*INIS: 1977-09-06; ETDE: 1977-10-19*

- USE kvi

**GROSS DOMESTIC PRODUCT**

*INIS: 1986-12-18; ETDE: 1978-02-14*

*Sum of a nation's economic output measured in terms of expenditures for goods and services by consumers, government, business, and foreign countries.*

- SF net material product
- SF nmp(net material product)
- RT economic development
- RT gross national product
- RT market
- RT production

**GROSS NATIONAL PRODUCT**

*INIS: 1986-12-18; ETDE: 1976-01-23*

*Sum of a nation's economic output measured in terms of expenditures for goods and services by consumers, government, business, and foreign countries and the earnings from foreign investments.*

- SF net material product
- SF nmp(net material product)
- RT domestic supplies
- RT economic development
- RT economics
- RT economy
- RT gross domestic product
- RT market
- RT production

**gross-neveu model**

*INIS: 1982-01-13; ETDE: 1982-02-09*

- USE lagrangian field theory

**grosswelzheim hdr reactor**

- USE hdr reactor

**grosswelzheim pr-10 reactor**

- USE aeg-pr-10 reactor

**ground control**

*INIS: 2000-04-12; ETDE: 1978-05-03*

- USE strata control

**GROUND COVER**

*INIS: 1981-11-26; ETDE: 1978-09-11*

*Vegetation or other means for ensuring soil stability, usually in connection with buried wastes.*

- RT canopies
- RT crops
- RT erosion
- RT forests
- RT gramineae
- RT plants
- RT revegetation
- RT underground disposal
- RT water pollution abatement

**GROUND DISPOSAL**

*INIS: 1982-12-06; ETDE: 1978-08-08*

*For disposal of wastes near the earth's surface, e.g. in trenches.*

- UF land application
- UF shallow land burial
- SF waste burial
- \*BT1 waste disposal
- RT liquid wastes
- RT radioactive wastes
- RT sanitary landfills
- RT sewage sludge
- RT solid wastes
- RT underground disposal

**ground-effect machines**

*INIS: 2000-04-12; ETDE: 1977-08-09*

- USE air cushion vehicles

**ground experimental engine experiment**

2000-04-12

USE xe-prime reactor

**ground experimental engine experiment-2**

2000-04-12

USE xe-2 reactor

**GROUND LEVEL**

BT1 levels

**GROUND MOTION**

(From September 1979 till February 1997

DISPLACEMENT RATES was a valid ETDE descriptor.)

UF displacements (seismic)

SF displacement rates

BT1 motion

RT earthquakes

RT ground subsidence

RT ground uplift

RT landslides

RT nuclear explosions

RT seismic detectors

RT seismic effects

RT seismic events

RT seismic waves

RT seismographs

RT seismology

RT shock waves

RT slope stability

RT soil-structure interactions

RT strata movement

RT underground explosions

**GROUND RELEASE**

Release of gaseous effluents at ground level.

\*BT1 waste disposal

RT gaseous wastes

RT radioactive waste disposal

RT stack disposal

**GROUND SOURCE HEAT PUMPS**

INIS: 2000-05-02; ETDE: 1980-01-24

BT1 heat pumps

RT air conditioning

RT solar-assisted heat pumps

RT space heating

**GROUND STATES**

BT1 energy levels

**GROUND SUBSIDENCE**

1982-07-22

Gradual sinking of the ground surface, e.g. due to collapse of an underground cavity.

UF subsidence (ground)

RT ground motion

**ground truth**

INIS: 2000-04-12; ETDE: 1980-04-14

Data obtained on the ground concerning the significance of anomalies observed in remote sensing to help interpretation.

(Prior to March 1996 this was a valid ETDE descriptor.)

USE ground truth measurements

**GROUND TRUTH MEASUREMENTS**

1996-04-18

Data obtained on the ground concerning the significance of anomalies observed in remote sensing to help interpretation.

(From April 1980 until March 1996

GROUND TRUTH was used for this concept in ETDE.)

UF ground truth

RT data analysis

RT geochemical surveys

RT geophysical surveys

RT remote sensing

**GROUND UPLIFT**

INIS: 2000-04-12; ETDE: 1979-04-11

Process of elevating a part of the earth's surface.

RT geodetic surveys

RT ground motion

RT strata movement

RT tectonics

**GROUND WATER**

(From January 1975 till March 1997

METEORIC WATER was a valid ETDE descriptor.)

UF meteoric water

\*BT1 water

NT1 interstitial water

NT1 magmatic water

RT alluvial deposits

RT aquicludes

RT aquifers

RT artesian basins

RT atmospheric precipitations

RT clays

RT drawdown

RT fluid withdrawal

RT geysers

RT groundwater recharge

RT hydraulic conductivity

RT hydrology

RT leachates

RT liquid wastes

RT radionuclide migration

RT reservoir pressure

RT rock-fluid interactions

RT soil mechanics

RT soils

RT surface waters

RT underground

RT water influx

RT water resources

RT water springs

RT water tables

**ground-water reserves**

INIS: 2000-04-12; ETDE: 1976-03-31

USE aquifers

**ground water withdrawal**

INIS: 2000-04-12; ETDE: 1975-11-11

USE fluid withdrawal

**groundnuts**

Arachis hypogaea.

USE peanuts

**grounds**

2000-04-12

USE electric grounds

**grounds (electric)**

INIS: 1982-06-09; ETDE: 1982-07-08

USE electric grounds

**GROUNDWATER RECHARGE**

INIS: 1995-04-13; ETDE: 1995-05-09

The processes involved in the adsorption and addition of water to the zone of saturation.

SF recharge

RT ground water

**GROUP CONSTANTS**

BT1 cross sections

RT energy range

RT energy spectra

RT multigroup theory

**group iva metal compounds**

INIS: 1984-04-04; ETDE: 2002-06-13

USE transition element compounds

**GROUP THEORY**

1997-08-20

For mathematical groups only; for neutron-energy groups use MULTIGROUP THEORY.

BT1 mathematics

RT clebsch-gordan coefficients

RT clifford algebra

RT galilei transformations

RT irreducible representations

RT nonunitary representations

RT periodicity

RT quantum groups

RT r matrix

RT racah coefficients

RT space groups

RT supersymmetry

RT symmetry groups

RT wigner coefficients

RT young diagram

**group va metal compounds**

INIS: 1984-04-04; ETDE: 2002-06-13

USE transition element compounds

**group via metal compounds**

INIS: 1984-04-04; ETDE: 2002-06-13

USE transition element compounds

**groups (space)**

USE space groups

**GROUTING**

INIS: 1981-02-27; ETDE: 1977-03-08

UF grouts

RT bonding

RT cementing

RT cements

RT fillers

RT mortars

RT plugging

RT sealing materials

RT seals

RT stemming materials

RT well completion

**grouts**

INIS: 1984-04-04; ETDE: 2002-06-13

USE grouting

**GROWTH**

UF cell growth (animal)

UF cell growth (plant)

UF growth inhibition

UF growth stimulation

NT1 animal growth

NT1 plant growth

RT age dependence

RT augmentation

RT biological regeneration

RT life cycle

RT metabolism

RT physiology

RT population dynamics

RT ripening

RT sth

RT teratogenesis

RT viability

**growth (bubble)**

INIS: 2000-04-12; ETDE: 1980-11-08

USE bubble growth

**growth (crystal)**

USE crystal growth

**growth (economic)**

INIS: 2000-04-12; ETDE: 1977-10-19

USE economic development

**growth (grain)**

USE grain growth

**GROWTH FACTORS**

*INIS: 1999-09-08; ETDE: 1987-08-14*

*Tissue specific proteins released by a cell which act on neighboring cells to stimulate their replication.*

BT1 mitogens  
 \*BT1 proteins  
 NT1 lymphokines  
 NT2 interferon  
 RT cell differentiation  
 RT cell proliferation  
 RT erythropoietin  
 RT oncogenes  
 RT ontogenesis  
 RT peptide hormones

**growth hormone**

USE sth

**growth hormone-release inhibiting factor**

*INIS: 2000-04-12; ETDE: 1979-02-05*

USE somatostatin

**growth inhibition**

*If possible, use a more specific term for growth.*

USE growth  
 USE inhibition

**growth rings**

*INIS: 1993-06-03; ETDE: 2002-06-13*

SEE tree rings

**growth stimulation**

USE growth  
 USE stimulation

**grr reactor**

USE democritus reactor

**grs**

*INIS: 1977-09-06; ETDE: 1977-10-19*

USE gesellschaft fuer anlagen- und reaktorsicherheit

**GRUENEISEN CONSTANT**

RT compressibility  
 RT specific heat  
 RT thermal expansion

**GRUENEISEN FORMULA**

RT electric conductivity  
 RT metals

**gs process**

*ETDE: 1975-09-11*

USE dual temperature process

**gsd**

USE genetically significant dose

**GTP-ASES**

*INIS: 2000-04-12; ETDE: 1988-05-23*

UF g-proteins  
 \*BT1 acid anhydrases  
 RT membrane proteins  
 RT oncogenes

**GTR REACTOR**

*General Dynamics--Convair/U.S. Air Force, Fort Worth, Texas, USA.*

UF fort worth gtr reactor

\*BT1 pool type reactors  
 \*BT1 test reactors

**GTRR REACTOR**

*Georgia Institute of Technology, Atlanta, Georgia, USA. Shut down in 1988.*

UF georgia tech. research reactor

\*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 training reactors

**GUAM**

*INIS: 1992-06-09; ETDE: 1978-02-14*

\*BT1 mariana islands

**guanethidine**

*1996-10-23*

*(Until October 1996 this was a valid descriptor.)*

USE carbonic acid derivatives  
 USE heterocyclic compounds  
 USE organic nitrogen compounds

**GUANIDINES**

*INIS: 1996-10-23; ETDE: 1976-11-17*

UF iminourea

\*BT1 carbonic acid derivatives

\*BT1 organic nitrogen compounds

NT1 mibg

RT amides

RT creatine

RT imines

RT mercaptoethylguanidine

**guanidylaminovaleric acid**

USE arginine

**GUANINE**

UF aminohypoxanthine

\*BT1 amines

\*BT1 hydroxy compounds

\*BT1 purines

RT guanosine

RT guanylic acid

**GUANOSINE**

\*BT1 nucleosides

\*BT1 purines

RT guanine

RT guanylic acid

**GUANYLIC ACID**

\*BT1 nucleotides

RT guanine

RT guanosine

**guard logging**

*INIS: 2000-06-27; ETDE: 1979-05-02*

USE resistivity logging

**guards**

*INIS: 1983-06-30; ETDE: 1981-01-27*

USE security personnel

**GUATEMALA**

\*BT1 central america

BT1 developing countries

**GUAYULE**

*INIS: 2000-04-12; ETDE: 1980-01-15*

UF parthenium argentatum

\*BT1 rubber trees

RT natural rubber

**guidance (electronic)**

USE electronic guidance

**GUIDE TUBES**

*INIS: 1986-02-28; ETDE: 1990-11-20*

*Tubes which are a part of a reactor core and serve as guides for control rods or monitoring instruments.*

BT1 tubes

RT control elements

RT fuel assemblies

**guidelines**

USE recommendations

**guides (shaft)**

*INIS: 2000-04-12; ETDE: 1983-05-21*

USE shaft guides

**GUIDING-CENTER****APPROXIMATION**

\*BT1 approximations  
 RT charged particles  
 RT magnetic fields  
 RT motion  
 RT plasma  
 RT rotation

**GUILLEMINITE**

*2000-04-12*

\*BT1 oxide minerals  
 \*BT1 uranium minerals  
 RT selenium oxides  
 RT uranium oxides

**GUINEA**

*INIS: 1992-06-04; ETDE: 1980-08-12*

BT1 africa  
 RT niger river

**GUINEA PIGS**

\*BT1 rodents

**GUINIER-PRESTON ZONES**

BT1 zones  
 RT crystal structure  
 RT phase transformations  
 RT segregation

**gulf coast**

*INIS: 2000-04-12; ETDE: 1979-12-10*

*(Prior to January 1992 this was a valid ETDE descriptor.)*

USE us gulf coast

**gulf general atomic fast breeder reactor**

*1993-11-08*

USE gcf reactor

**gulf general atomic triga-mk-3**

USE gulf triga-mk-3 reactor

**GULF HDS PROCESS**

*INIS: 2000-04-12; ETDE: 1982-05-12*

*Fix-bed catalytic hydrogenation process. Primary reactions are desulfurization, demetallization, denitrogenation, and upgrading of asphaltene.*

\*BT1 desulfurization

\*BT1 hydrogenation

\*BT1 refining

**GULF OF ALASKA**

*INIS: 1992-06-04; ETDE: 1976-04-19*

UF cook inlet

\*BT1 pacific ocean

**GULF OF CALIFORNIA**

*INIS: 1992-06-04; ETDE: 1975-11-11*

\*BT1 pacific ocean

**GULF OF MAINE**

*1975-12-09*

\*BT1 atlantic ocean

RT massachusetts

RT new hampshire

**GULF OF MEXICO**

*1997-06-17*

\*BT1 caribbean sea

NT1 galveston bay

NT1 san antonio bay

RT us gulf coast

**GULF OF SUEZ**

*INIS: 1992-06-04; ETDE: 1976-01-07*  
\*BT1 red sea

**GULF STREAM**

*INIS: 1992-02-18; ETDE: 1977-06-21*  
*UF florida current*  
\*BT1 water currents  
*RT atlantic ocean*  
*RT mid-atlantic bight*

**GULF TRIGA-MK-3 REACTOR**

*Gulf General Atomics, San Diego, California, USA. Shut down in 1975; decommissioned.*  
*UF gulf general atomic triga-mk-3*  
*UF triga-3-gulf reactor*  
\*BT1 isotope production reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 training reactors  
\*BT1 triga type reactors

**GUM ACACIA**

*UF gum arabic*  
\*BT1 polysaccharides  
*RT arabinose*

***gum arabic***

USE gum acacia

***gummite***

*1997-01-28*  
(Until October 1996 this was a valid descriptor.)  
USE oxide minerals  
USE uranium minerals

**GUMS**

*2000-04-12*  
*RT colloids*

***gun cotton***

USE nitrocellulose

***gundremmingen-1 reactor***

*INIS: 1975-08-20; ETDE: 2002-06-13*  
USE rwe-bayernwerk reactor

***GUNDRemmingEN-2 REACTOR***

*1975-08-20*  
*UF krb ii-b reactor*  
*UF rwe-bayernwerk-b reactor*  
\*BT1 bwr type reactors

***GUNDRemmingEN-3 REACTOR***

*1975-08-20*  
*UF krb ii-c reactor*  
*UF rwe-bayernwerk-c reactor*  
\*BT1 bwr type reactors

***gundremminger krb reactor***

*INIS: 2000-04-12; ETDE: 1975-08-19*  
USE rwe-bayernwerk reactor

**GUNNISON RIVER**

\*BT1 rivers  
*RT colorado*

**GUNS**

*1976-05-05*  
*RT ammunition*  
*RT armor*  
*RT explosives*  
*RT projectiles*

***guns (electron)***

*INIS: 1978-04-21; ETDE: 2002-06-13*  
USE electron guns

***guns (plasma)***

*INIS: 1978-04-21; ETDE: 2002-06-13*  
USE plasma guns

**GUYANA**

*INIS: 1999-05-05; ETDE: 1981-10-24*  
*Formerly British Guiana; achieved independence in 1966.*  
*UF british guiana*  
BT1 developing countries  
\*BT1 south america

***gymnosperms***

*INIS: 2000-04-12; ETDE: 1989-01-09*  
USE pinophyta

**GYNCOLOGY**

*Including obstetrics.*  
*UF obstetrics*  
BT1 medicine  
*RT female genitals*  
*RT pregnancy*  
*RT urogenital system diseases*  
*RT women*

**GYPSUM**

\*BT1 sulfate minerals  
*RT anhydrite*  
*RT calcium sulfates*

**GYPSUM CEMENTS**

*UF plaster of paris*  
\*BT1 cements

***gypsy moth***

USE lymantria dispar

**GYROCONS**

*INIS: 1981-03-10; ETDE: 1979-05-25*  
*Electron tubes operating by deflection modulation.*  
BT1 electron tubes  
*RT klystrons*  
*RT power supplies*  
*RT rf systems*

***gyroelectric ratio***

*1996-07-18*  
(Until July 1996 this was a valid descriptor.)  
SEE angular momentum  
SEE electric moments

**GYROFREQUENCY**

*UF frequency (gyro)*  
*RT cyclotron frequency*

***gyromagnetic radius***

USE larmor radius

**GYROMAGNETIC RATIO**

*UF g factor (gyromagnetic ratio)*  
*RT angular momentum*  
*RT magnetic moments*

**GYROSCOPES**

*RT measuring instruments*  
*RT precession*  
*RT rotation*

***gyrotrons***

*INIS: 1995-06-14; ETDE: 1978-04-06*  
USE microwave amplifiers

**H-1 HELIAC**

*INIS: 1995-09-14; ETDE: 1990-05-16*  
\*BT1 heliac stellarators  
*RT sheila heliac*

***h-2050 resonances***

*INIS: 1987-12-21; ETDE: 1976-11-01*  
(Prior to December 1987 this was a valid descriptor.)  
USE f4-2050 mesons

***h-alpha line***

USE balmer lines

***h-beta line***

USE balmer lines

**H CENTERS**

\*BT1 color centers

**H-COAL PROCESS**

*2000-04-12*  
*Hydrocarbon Research, Inc. process for the direct catalytic conversion of whole coal to synthetic crude oil at moderate temperature (950 degrees F) and high pressure (2250-2700 psig).*  
\*BT1 coal liquefaction

**H CODES**

BT1 computer codes

***h-gamma line***

USE balmer lines

**H-MODE PLASMA CONFINEMENT**

*INIS: 1996-04-16; ETDE: 1989-10-26*  
*An operational regime in neutral-beam-injection-heated divertor tokamaks.*  
\*BT1 magnetic confinement  
*RT confinement time*  
*RT divertors*  
*RT edge localized modes*  
*RT l-mode plasma confinement*  
*RT tokamak devices*

**H-OIL PROCESS**

*2000-04-12*  
*Method of hydrogenation to upgrade oil shale.*  
*RT oil sands*  
*RT oil shales*

**H THEOREM**

*RT boltzmann statistics*  
*RT entropy*

**H1-1170 MESONS**

*1995-08-07*  
(Until July 1995 this concept was indexed by H1-1190 MESONS.)  
*UF h1-1190 mesons*  
\*BT1 axial vector mesons

***h1-1190 mesons***

*INIS: 1995-08-07; ETDE: 1988-01-28*  
(Until July 1995 this was a valid term.)  
USE h1-1170 mesons

**H1 REGIONS**

BT1 cosmic radio sources  
*RT hydrogen*

**H2 REGIONS**

BT1 cosmic radio sources  
*RT hydrogen ions 1 plus*  
*RT nebulae*

***haag-araki field theory***

*INIS: 1977-11-21; ETDE: 1978-03-08*  
USE algebraic field theory

**HAAG THEOREM**

*RT phi4-field theory*  
*RT quantum field theory*

**HABIT PLANES**

*RT crystal lattices*  
*RT phase transformations*

**HABITAT**

*INIS: 1991-08-12; ETDE: 1976-11-01*  
*The area or type of environment in which a plant or animal normally occurs or lives.*  
*RT environment*  
*RT nests*



**habrobracon**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE wasps

**HACHIMANTAI**

INIS: 2000-04-12; ETDE: 1978-04-05

\*BT1 japan

RT matsukawa geothermal field

RT onuma geothermal field

RT takinoue geothermal field

RT volcanic regions

**haddam neck reactor**

USE connecticut yankee reactor

**HADES UNDERGROUND****RESEARCH FACILITY**

2005-03-18

Experimental site for disposal of high-level radioactive waste in boom clay formation at Mol, Belgium.

\*BT1 radioactive waste facilities

BT1 underground facilities

RT boom clay

**HADRON-HADRON INTERACTIONS**

\*BT1 particle interactions

NT1 baryon-baryon interactions

NT2 hyperon-hyperon interactions

NT2 nucleon-antinucleon interactions

NT3 antiproton-neutron interactions

NT3 neutron-antineutron interactions

NT3 proton-antineutron interactions

NT3 proton-antiproton interactions

NT2 nucleon-hyperon interactions

NT2 nucleon-nucleon interactions

NT3 neutron-neutron interactions

NT3 proton-nucleon interactions

NT4 proton-neutron interactions

NT4 proton-proton interactions

NT1 meson-baryon interactions

NT2 meson-hyperon interactions

NT3 kaon-hyperon interactions

NT3 pion-hyperon interactions

NT2 meson-nucleon interactions

NT3 kaon-nucleon interactions

NT4 kaon-neutron interactions

NT5 kaon minus-neutron interactions

NT5 kaon neutral-neutron interactions

NT5 kaon plus-neutron interactions

NT4 kaon-proton interactions

NT5 kaon minus-proton interactions

NT5 kaon neutral-proton interactions

NT5 kaon plus-proton interactions

NT3 pion-nucleon interactions

NT4 pion-neutron interactions

NT5 pion minus-neutron interactions

NT5 pion plus-neutron interactions

NT4 pion-proton interactions

NT5 pion minus-proton interactions

NT5 pion plus-proton interactions

NT1 meson-meson interactions

NT2 kaon-kaon interactions

NT2 pion-kaon interactions

NT2 pion-pion interactions

RT electromagnetic interactions

RT strong interactions

**HADRON REACTIONS**

BT1 nuclear reactions

NT1 baryon reactions

NT2 hyperon reactions

NT2 nucleon reactions

NT3 antinucleon reactions

NT4 antineutron reactions

NT4 antiproton reactions

NT3 neutron reactions

NT4 fast fission

NT4 thermal fission

NT3 proton reactions

NT1 meson reactions

NT2 kaon reactions

NT3 kaon minus reactions

NT3 kaon neutral reactions

NT3 kaon plus reactions

NT2 pion reactions

NT3 pion minus reactions

NT3 pion plus reactions

RT space-time model

**HADRONIC ATOMS**

Atoms with a hadron such as an antiproton or a sigma-minus particle bound in atomic orbits.

UF antiprotonic atoms

UF exotic atoms

UF sigma-minus atoms

BT1 atoms

NT1 mesic atoms

NT2 kaonic atoms

NT2 pionic atoms

NT1 protonium

**hadronic clusters**

INIS: 2000-04-12; ETDE: 1978-06-14

USE cluster emission model

**HADRONIC PARTICLE DECAY**

INIS: 1978-02-23; ETDE: 1978-04-28

Particle decay due to hadronic interaction.

\*BT1 particle decay

RT strong interactions

**HADRONS**

BT1 elementary particles

NT1 baryons

NT2 antibaryons

NT3 antihyperons

NT4 antilambda particles

NT4 antiomega particles

NT4 antisigma particles

NT4 antixi particles

NT3 antinucleons

NT4 antineutrons

NT4 antiprotons

NT2 beauty baryons

NT3 lambda b neutral baryons

NT2 charmed baryons

NT3 lambda c-2625 baryons

NT3 lambda c plus baryons

NT3 omega c neutral baryons

NT3 sigma c-2455 baryons

NT3 xi c neutral baryons

NT3 xi c plus baryons

NT2 dibaryons

NT3 dineutrons

NT3 diprotons

NT3 lambda-n-2130 dibaryons

NT3 nn-2170 dibaryons

NT3 nn-2250 dibaryons

NT2 hyperons

NT3 antihyperons

NT4 antilambda particles

NT4 antiomega particles

NT4 antisigma particles

NT4 antixi particles

NT3 lambda baryons

NT4 lambda-1405 baryons

NT4 lambda-1520 baryons

NT4 lambda-1600 baryons

NT4 lambda-1670 baryons

NT4 lambda-1690 baryons

NT4 lambda-1800 baryons

NT4 lambda-1810 baryons

NT4 lambda-1820 baryons

NT4 lambda-1830 baryons

NT4 lambda-1890 baryons

NT4 lambda-2100 baryons

NT4 lambda-2110 baryons

NT4 lambda particles

NT5 antilambda particles

NT3 lambda-n-2130 dibaryons

NT3 omega baryons

NT4 omega-2250 baryons

NT4 omega particles

NT5 antiomega particles

NT5 omega minus particles

NT3 sigma baryons

NT4 sigma-1385 baryons

NT4 sigma-1660 baryons

NT4 sigma-1670 baryons

NT4 sigma-1750 baryons

NT4 sigma-1770 baryons

NT4 sigma-1775 baryons

NT4 sigma-1915 baryons

NT4 sigma-1940 baryons

NT4 sigma-2030 baryons

NT4 sigma-2455 baryons

NT4 sigma particles

NT5 antisigma particles

NT5 sigma minus particles

NT5 sigma neutral particles

NT5 sigma plus particles

NT3 xi baryons

NT4 xi-1530 baryons

NT4 xi-1690 baryons

NT4 xi-1820 baryons

NT4 xi-1950 baryons

NT4 xi-2030 baryons

NT4 xi-2250 baryons

NT4 xi-2500 baryons

NT4 xi particles

NT5 antixi particles

NT5 xi minus particles

NT5 xi neutral particles

NT3 z\*baryons

NT2 n\*baryons

NT3 delta baryons

NT4 delta-1232 baryons

NT4 delta-1600 baryons

NT4 delta-1620 baryons

NT4 delta-1700 baryons

NT4 delta-1900 baryons

NT4 delta-1905 baryons

NT4 delta-1910 baryons

NT4 delta-1920 baryons

NT4 delta-1930 baryons

NT4 delta-1950 baryons

NT4 delta-2000 baryons

NT4 delta-2150 baryons

NT4 delta-2200 baryons

NT4 delta-2400 baryons

NT4 delta-2420 baryons

NT4 delta-3000 baryons

NT3 n baryons

NT4 n-1440 baryons

NT4 n-1520 baryons

NT4 n-1535 baryons

NT4 n-1650 baryons

NT4 n-1675 baryons

NT4 n-1680 baryons

NT4 n-1700 baryons

NT4 n-1710 baryons

NT4 n-1720 baryons

NT4 n-1960 baryons

NT4 n-1990 baryons

NT4 n-2000 baryons

NT4 n-2080 baryons

NT4 n-2100 baryons

NT4 n-2190 baryons

NT4 n-2250 baryons

NT4 n-3000 baryons

- NT2** nucleons  
**NT3** antinucleons  
**NT4** antineutrons  
**NT4** antiprotons  
**NT3** neutrons  
**NT4** antineutrons  
**NT4** beta-delayed neutrons  
**NT4** cold neutrons  
**NT5** ultracold neutrons  
**NT4** cosmic neutrons  
**NT4** epithermal neutrons  
**NT4** fast neutrons  
**NT4** fission neutrons  
**NT5** delayed neutrons  
**NT5** prompt neutrons  
**NT4** intermediate neutrons  
**NT4** photon neutrons  
**NT4** pile neutrons  
**NT4** polyneutrons  
**NT5** dineutrons  
**NT5** tetra neutrons  
**NT5** trineutrons  
**NT4** resonance neutrons  
**NT4** slow neutrons  
**NT4** solar neutrons  
**NT4** thermal neutrons  
**NT3** photonucleons  
**NT4** photon neutrons  
**NT4** photoprotons  
**NT3** protons  
**NT4** antiprotons  
**NT4** cosmic protons  
**NT4** delayed protons  
**NT4** diprotons  
**NT4** photoprotons  
**NT4** prompt protons  
**NT4** solar protons  
**NT4** trapped protons  
**NT1** mesons  
**NT2** antimesons  
**NT3** pseudoscalar antimesons  
**NT4** anti-b neutral mesons  
**NT4** anti-d neutral mesons  
**NT2** axial vector mesons  
**NT3** a1-1260 mesons  
**NT3** b1-1235 mesons  
**NT3** chi b1-9890 mesons  
**NT3** chi1-3510 mesons  
**NT3** d s-2536 mesons  
**NT3** d1-2420 mesons  
**NT3** f1-1285 mesons  
**NT3** f1-1420 mesons  
**NT3** f1-1510 mesons  
**NT3** h1-1170 mesons  
**NT3** k1-1270 mesons  
**NT3** k1-1400 mesons  
**NT2** baryonium  
**NT2** beauty mesons  
**NT3** b c mesons  
**NT3** b mesons  
**NT4** b minus mesons  
**NT4** b neutral mesons  
**NT5** anti-b neutral mesons  
**NT4** b plus mesons  
**NT3** b s mesons  
**NT3** b\*-5325 mesons  
**NT2** bottomonium  
**NT3** chi b0-10235 mesons  
**NT3** chi b0-9860 mesons  
**NT3** chi b1-10255 mesons  
**NT3** chi b1-9890 mesons  
**NT3** chi b2-10270 mesons  
**NT3** chi b2-9915 mesons  
**NT3** upsilon-10023 mesons  
**NT3** upsilon-10355 mesons  
**NT3** upsilon-10580 mesons  
**NT3** upsilon-10860 mesons  
**NT3** upsilon-11020 mesons  
**NT3** upsilon-9460 mesons  
**NT2** charmed mesons  
**NT3** b c mesons  
**NT3** d mesons  
**NT4** d minus mesons  
**NT4** d neutral mesons  
**NT5** anti-d neutral mesons  
**NT4** d plus mesons  
**NT3** d s-2536 mesons  
**NT3** d s mesons  
**NT3** d\*-2010 mesons  
**NT3** d\*2-2460 mesons  
**NT3** d\*s-2110 mesons  
**NT3** d1-2420 mesons  
**NT2** charmonium  
**NT3** chi0-3415 mesons  
**NT3** chi1-3510 mesons  
**NT3** chi2-3555 mesons  
**NT3** eta c-2980 mesons  
**NT3** eta c-3590 mesons  
**NT3** j psi-3097 mesons  
**NT3** psi-3685 mesons  
**NT3** psi-3770 mesons  
**NT3** psi-4040 mesons  
**NT3** psi-4160 mesons  
**NT3** psi-4415 mesons  
**NT2** pseudoscalar mesons  
**NT3** b c mesons  
**NT3** b mesons  
**NT4** b minus mesons  
**NT4** b neutral mesons  
**NT5** anti-b neutral mesons  
**NT4** b plus mesons  
**NT3** b s mesons  
**NT3** d mesons  
**NT4** d minus mesons  
**NT4** d neutral mesons  
**NT5** anti-d neutral mesons  
**NT4** d plus mesons  
**NT3** d s mesons  
**NT3** eta-1295 mesons  
**NT3** eta-1440 mesons  
**NT3** eta c-2980 mesons  
**NT3** eta mesons  
**NT3** eta prime-958 mesons  
**NT3** k-1460 mesons  
**NT3** k-1830 mesons  
**NT3** kaons  
**NT4** antikaons  
**NT5** antikaons neutral  
**NT4** cosmic kaons  
**NT4** kaons minus  
**NT4** kaons neutral  
**NT5** antikaons neutral  
**NT5** kaons neutral long-lived  
**NT5** kaons neutral short-lived  
**NT4** kaons plus  
**NT3** pi-1300 mesons  
**NT3** pi-1770 mesons  
**NT3** pions  
**NT4** cosmic pions  
**NT4** pions minus  
**NT4** pions neutral  
**NT4** pions plus  
**NT3** pseudoscalar antimesons  
**NT4** anti-b neutral mesons  
**NT4** anti-d neutral mesons  
**NT2** scalar mesons  
**NT3** a0-980 mesons  
**NT3** chi0-3415 mesons  
**NT3** f0-1240 mesons  
**NT3** f0-1300 mesons  
**NT3** f0-1590 mesons  
**NT3** f0-1730 mesons  
**NT3** f0-980 mesons  
**NT3** k\*0-1430 mesons  
**NT2** strange mesons  
**NT3** b s mesons  
**NT3** d s-2536 mesons  
**NT3** d s mesons  
**NT3** d\*s-2110 mesons  
**NT3** k-1460 mesons  
**NT3** k-1830 mesons  
**NT3** k\*-1410 mesons  
**NT3** k\*-1680 mesons  
**NT3** k\*-892 mesons  
**NT3** k\*0-1430 mesons  
**NT3** k\*2-1430 mesons  
**NT3** k\*3-1780 mesons  
**NT3** k\*4-2045 mesons  
**NT3** k1-1270 mesons  
**NT3** k1-1400 mesons  
**NT3** k2-1770 mesons  
**NT3** k2-1820 mesons  
**NT3** kaons  
**NT4** antikaons  
**NT5** antikaons neutral  
**NT4** cosmic kaons  
**NT4** kaons minus  
**NT4** kaons neutral  
**NT5** antikaons neutral  
**NT5** kaons neutral long-lived  
**NT5** kaons neutral short-lived  
**NT4** kaons plus  
**NT2** strangeonium  
**NT3** f2 prime-1525 mesons  
**NT3** phi-1020 mesons  
**NT3** phi-1680 mesons  
**NT3** phi3-1850 mesons  
**NT2** tensor mesons  
**NT3** a2-1320 mesons  
**NT3** a4-2040 mesons  
**NT3** a6-2450 mesons  
**NT3** chi b2-9915 mesons  
**NT3** chi2-3555 mesons  
**NT3** d\*2-2460 mesons  
**NT3** f2-1270 mesons  
**NT3** f2-1430 mesons  
**NT3** f2-1720 mesons  
**NT3** f2-1810 mesons  
**NT3** f2-2010 mesons  
**NT3** f2-2300 mesons  
**NT3** f2-2340 mesons  
**NT3** f2 prime-1525 mesons  
**NT3** f4-2050 mesons  
**NT3** f4-2300 mesons  
**NT3** f6-2510 mesons  
**NT3** k\*2-1430 mesons  
**NT3** k\*3-1780 mesons  
**NT3** k\*4-2045 mesons  
**NT3** k2-1770 mesons  
**NT3** k2-1820 mesons  
**NT3** omega3-1670 mesons  
**NT3** phi3-1850 mesons  
**NT3** pi2-1670 mesons  
**NT3** pi2-2100 mesons  
**NT3** rho3-1690 mesons  
**NT3** rho3-2250 mesons  
**NT3** rho5-2350 mesons  
**NT2** toponium  
**NT2** vector mesons  
**NT3** b\*-5325 mesons  
**NT3** d\*-2010 mesons  
**NT3** j psi-3097 mesons  
**NT3** k\*-1410 mesons  
**NT3** k\*-1680 mesons  
**NT3** k\*-892 mesons  
**NT3** omega-1420 mesons  
**NT3** omega-1600 mesons  
**NT3** omega-782 mesons  
**NT3** phi-1020 mesons  
**NT3** phi-1680 mesons  
**NT3** psi-3685 mesons  
**NT3** psi-3770 mesons  
**NT3** psi-4040 mesons  
**NT3** psi-4160 mesons  
**NT3** psi-4415 mesons  
**NT3** rho-1450 mesons  
**NT3** rho-1700 mesons

**NT3** rho-2150 mesons  
**NT3** rho-770 mesons  
**NT3** epsilon-10023 mesons  
**NT3** epsilon-10355 mesons  
**NT3** epsilon-10580 mesons  
**NT3** epsilon-10860 mesons  
**NT3** epsilon-11020 mesons  
**NT3** epsilon-9460 mesons  
**NT2** x-1700 mesons  
**NT2** x-1935 mesons  
**NT2** x-2220 mesons  
**NT2** x-3075 mesons  
**NT1** resonance particles  
**NT2** exotic resonances  
**RT** centauro-type events  
**RT** charm particles  
**RT** cim model  
**RT** melosh transformation

### haem dehydrogenases

INIS: 2000-04-12; ETDE: 1981-01-12

Code number 1.9.

(Prior to February 1997 this was a valid ETDE descriptor.)

USE oxidoreductases

### HAEMOPHILUS

UF hemophilus

\*BT1 bacteria

### HAFNATES

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

\*BT1 hafnium compounds  
 BT1 oxygen compounds  
 RT hafnium oxides

### HAFNIUM

\*BT1 refractory metals  
 \*BT1 transition elements  
**NT1** hafnium-alpha  
**NT1** hafnium-beta

### HAFNIUM 154

INIS: 1986-05-05; ETDE: 1986-07-03

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

### HAFNIUM 155

INIS: 1986-05-05; ETDE: 1986-07-03

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

### HAFNIUM 156

INIS: 1979-09-18; ETDE: 1979-10-23

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 milliseconds living radioisotopes

### HAFNIUM 157

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes

### HAFNIUM 158

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

### HAFNIUM 159

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

### HAFNIUM 160

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

### HAFNIUM 161

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

### HAFNIUM 162

INIS: 1982-06-09; ETDE: 1982-02-08

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

### HAFNIUM 163

INIS: 1980-12-01; ETDE: 1980-08-25

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

### HAFNIUM 164

INIS: 1982-04-14; ETDE: 1982-02-08

\*BT1 even-even nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

### HAFNIUM 165

INIS: 1982-06-09; ETDE: 1982-07-08

\*BT1 even-odd nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

### HAFNIUM 166

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

### HAFNIUM 167

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

### HAFNIUM 168

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

### HAFNIUM 169

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes

### HAFNIUM 170

\*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei

### HAFNIUM 171

\*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei

### HAFNIUM 172

\*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 years living radioisotopes

### HAFNIUM 173

\*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei

### HAFNIUM 174

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 years living radioisotopes

### HAFNIUM 174 TARGET

INIS: 1977-09-15; ETDE: 1977-05-07  
BT1 targets

### HAFNIUM 175

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei

### HAFNIUM 176

\*BT1 even-even nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes

### HAFNIUM 176 TARGET

INIS: 1976-04-03; ETDE: 1976-07-12  
BT1 targets

### HAFNIUM 177

\*BT1 even-odd nuclei  
 \*BT1 hafnium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 stable isotopes

### HAFNIUM 177 TARGET

ETDE: 1976-07-09  
BT1 targets

**HAFNIUM 178**

- \*BT1 even-even nuclei
- \*BT1 hafnium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 stable isotopes
- \*BT1 years living radioisotopes

**HAFNIUM 178 TARGET**

ETDE: 1976-07-09

- BT1 targets

**HAFNIUM 179**

- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hafnium isotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 stable isotopes

**HAFNIUM 179 TARGET**

ETDE: 1976-07-09

- BT1 targets

**HAFNIUM 180**

- \*BT1 even-even nuclei
- \*BT1 hafnium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes

**HAFNIUM 180 TARGET**

ETDE: 1976-07-09

- BT1 targets

**HAFNIUM 181**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hafnium isotopes
- \*BT1 heavy nuclei

**HAFNIUM 182**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hafnium isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 years living radioisotopes

**HAFNIUM 183**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hafnium isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes

**HAFNIUM 184**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hafnium isotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes

**HAFNIUM 185**

- \*BT1 even-odd nuclei
- \*BT1 hafnium isotopes
- \*BT1 heavy nuclei

**HAFNIUM 186**

- \*BT1 even-even nuclei
- \*BT1 hafnium isotopes
- \*BT1 heavy nuclei

**HAFNIUM ADDITIONS**

2000-04-10

*Alloys containing not more than 1% Hf are listed here.*

- \*BT1 hafnium alloys
- NT1 astar 811c

**HAFNIUM ALLOYS**

1995-02-27

*Alloys containing more than 1% Hf.*

- \*BT1 transition element alloys
- NT1 alloy-c-103
- NT1 alloy-ta90w8hf
- NT2 tantalum alloy-t111
- NT1 hafnium additions
- NT2 astar 811c
- NT1 hafnium base alloys

**HAFNIUM-ALPHA**

- \*BT1 hafnium

**HAFNIUM ARSENIDES**

INIS: 2000-04-12; ETDE: 1984-06-14

- \*BT1 arsenides
- \*BT1 hafnium compounds

**HAFNIUM BASE ALLOYS**

- \*BT1 hafnium alloys

**HAFNIUM-BETA**

- \*BT1 hafnium

**HAFNIUM BORIDES**

- \*BT1 borides
- \*BT1 hafnium compounds

**HAFNIUM BROMIDES**

- \*BT1 bromides
- \*BT1 hafnium compounds

**HAFNIUM CARBIDES**

- \*BT1 carbides
- \*BT1 hafnium compounds

**HAFNIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 hafnium compounds

**HAFNIUM COMPLEXES**

- \*BT1 transition element complexes

**HAFNIUM COMPOUNDS**

1997-06-17

- UF hafnium tungstates
- BT1 refractory metal compounds
- BT1 transition element compounds
- NT1 hafnates
- NT1 hafnium arsenides
- NT1 hafnium borides
- NT1 hafnium bromides
- NT1 hafnium carbides
- NT1 hafnium chlorides
- NT1 hafnium fluorides
- NT1 hafnium hydrides
- NT1 hafnium hydroxides
- NT1 hafnium iodides
- NT1 hafnium nitrates
- NT1 hafnium nitrides
- NT1 hafnium oxides
- NT1 hafnium perchlorates
- NT1 hafnium phosphates
- NT1 hafnium phosphides
- NT1 hafnium selenides
- NT1 hafnium silicates
- NT1 hafnium silicides
- NT1 hafnium sulfates
- NT1 hafnium sulfides
- NT1 hafnium tellurides

**HAFNIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 hafnium compounds

**HAFNIUM HYDRIDES**

- \*BT1 hafnium compounds
- \*BT1 hydrides

**HAFNIUM HYDROXIDES**

- \*BT1 hafnium compounds
- \*BT1 hydroxides

**HAFNIUM IODIDES**

- \*BT1 hafnium compounds
- \*BT1 iodides

**HAFNIUM IONS**

- \*BT1 ions

**HAFNIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 hafnium 154
- NT1 hafnium 155
- NT1 hafnium 156
- NT1 hafnium 157
- NT1 hafnium 158
- NT1 hafnium 159
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- NT1 hafnium 181
- NT1 hafnium 182
- NT1 hafnium 183
- NT1 hafnium 184
- NT1 hafnium 185
- NT1 hafnium 186

**HAFNIUM NITRATES**

- \*BT1 hafnium compounds
- \*BT1 nitrates

**HAFNIUM NITRIDES**

- \*BT1 hafnium compounds
- \*BT1 nitrides

**HAFNIUM OXIDES**

- \*BT1 hafnium compounds
- \*BT1 oxides
- RT baddeleyite
- RT hafnates
- RT oxide minerals

**HAFNIUM PERCHLORATES**

INIS: 1991-09-16; ETDE: 1980-03-04

- \*BT1 hafnium compounds
- \*BT1 perchlorates

**HAFNIUM PHOSPHATES**

- \*BT1 hafnium compounds
- \*BT1 phosphates

**HAFNIUM PHOSPHIDES**

INIS: 1991-09-16; ETDE: 1979-02-23

- \*BT1 hafnium compounds
- \*BT1 phosphides

**HAFNIUM SELENIDES**

- \*BT1 hafnium compounds
- \*BT1 selenides

**HAFNIUM SILICATES**

- \*BT1 hafnium compounds
- \*BT1 silicates

**HAFNIUM SILICIDES**

1979-04-27

- \*BT1 hafnium compounds
- \*BT1 silicides

**HAFNIUM SULFATES**

- \*BT1 hafnium compounds
- \*BT1 sulfates

**HAFNIUM SULFIDES**

- \*BT1 hafnium compounds
- \*BT1 sulfides

**HAFNIUM TELLURIDES**

INIS: 1985-09-06; ETDE: 1978-09-11

- \*BT1 hafnium compounds
- \*BT1 tellurides

**hafnium tungstates**

INIS: 1996-07-18; ETDE: 1978-03-03

(Until July 1996 this was a valid descriptor.)

- USE hafnium compounds
- USE tungstates

**hahn-meitner vicksi accelerator**

INIS: 1993-11-08; ETDE: 2002-06-13

- USE vicksi accelerator

**hafnium**

INIS: 1984-06-21; ETDE: 2002-06-13

- USE dubnium

**HAIL**

- BT1 atmospheric precipitations
- RT ice
- RT weather

**haines process**

INIS: 2000-04-12; ETDE: 1977-01-28

An adsorption process for desulfurization and sulfur recovery which uses alkali metal aluminosilicates.

(Prior to March 1994, this was a valid ETDE descriptor.)

- USE desulfurization

**HAIR**

- \*BT1 skin
- RT epilation
- RT hair follicles
- RT melanin

**HAIR FOLLICLES**

1975-09-16

- BT1 animal cells
- \*BT1 skin
- RT epithelium
- RT hair

**HAITI**

INIS: 1988-04-15; ETDE: 1979-09-26

- BT1 developing countries
- \*BT1 hispaniola
- BT1 latin america

**haizy**

INIS: 2000-04-12; ETDE: 1983-03-24

(Prior to July 1985, this was a valid ETDE descriptor.)

- USE haizy cyclotron

**HAIZY CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-07-07

Hamburg isochronous cyclotron.

- UF haizy

- \*BT1 isochronous cyclotrons

**halden heavy boiling water reactor**

1993-11-08

- USE hbwr reactor

**halex process**

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

- USE purex process

**HALF-LIFE**

- UF *halftime*
- RT days living radioisotopes
- RT decay
- RT ft value
- RT geiger-nuttall law
- RT hours living radioisotopes
- RT lifetime
- RT microseconds living radioisotopes
- RT milliseconds living radioisotopes
- RT minutes living radioisotopes
- RT nanoseconds living radioisotopes
- RT radioisotope generators
- RT residence half-time
- RT seconds living radioisotopes
- RT years living radioisotopes

**half-life (biological)**

- USE biological half-life

**half-life (effective)**

- USE biological half-life

**HALF-THICKNESS**

Thickness of material which reduces the intensity of a beam of radiation passing through it to one-half its initial value.

- BT1 physical properties
- RT absorption
- RT radiation length
- RT radiation protection
- RT radiation quality
- RT shielding
- RT thickness

**halfbeak event**

INIS: 1994-10-14; ETDE: 1977-01-10

A test made during OPERATION

FLINTLOCK.

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE nuclear explosions
- USE underground explosions

**halftime**

- USE half-life

**HALIDE MINERALS**

INIS: 1996-07-08; ETDE: 1982-05-12

- UF *schroeckingerite*
- BT1 minerals
- NT1 carnallite
- NT1 fluorite
- NT1 halite
- RT calcium fluorides
- RT magnesium chlorides
- RT potassium chlorides

**HALIDES**

- UF *acid halides*
- BT1 halogen compounds
- NT1 ammonium halides
- NT2 ammonium chlorides
- NT2 ammonium fluorides
- NT1 bromides
- NT2 aluminium bromides
- NT2 antimony bromides
- NT2 arsenic bromides
- NT2 barium bromides
- NT2 beryllium bromides

- NT2 bismuth bromides
- NT2 boron bromides
- NT2 cadmium bromides
- NT2 calcium bromides
- NT2 californium bromides
- NT2 cerium bromides
- NT2 cesium bromides
- NT2 chromium bromides
- NT2 cobalt bromides
- NT2 copper bromides
- NT2 dysprosium bromides
- NT2 einsteinium bromides
- NT2 erbium bromides
- NT2 europium bromides
- NT2 fermium bromides
- NT2 gadolinium bromides
- NT2 gallium bromides
- NT2 germanium bromides
- NT2 gold bromides
- NT2 hafnium bromides
- NT2 holmium bromides
- NT2 indium bromides
- NT2 iodine bromides
- NT2 iron bromides
- NT2 krypton bromides
- NT2 lanthanum bromides
- NT2 lead bromides
- NT2 lithium bromides
- NT2 lutetium bromides
- NT2 magnesium bromides
- NT2 manganese bromides
- NT2 mercury bromides
- NT2 molybdenum bromides
- NT2 neodymium bromides
- NT2 neptunium bromides
- NT2 nickel bromides
- NT2 niobium bromides
- NT2 nitrogen bromides
- NT2 palladium bromides
- NT2 phosphorus bromides
- NT2 platinum bromides
- NT2 polonium bromides
- NT2 potassium bromides
- NT2 praseodymium bromides
- NT2 protactinium bromides
- NT2 radium bromides
- NT2 rhenium bromides
- NT2 rhodium bromides
- NT2 rubidium bromides
- NT2 ruthenium bromides
- NT2 samarium bromides
- NT2 scandium bromides
- NT2 selenium bromides
- NT2 silicon bromides
- NT2 silver bromides
- NT2 sodium bromides
- NT2 strontium bromides
- NT2 tantalum bromides
- NT2 technetium bromides
- NT2 tellurium bromides
- NT2 terbium bromides
- NT2 thallium bromides
- NT2 thorium bromides
- NT2 thulium bromides
- NT2 tin bromides
- NT2 titanium bromides
- NT2 tungsten bromides
- NT2 uranium bromides
- NT2 vanadium bromides
- NT2 xenon bromides
- NT2 ytterbium bromides
- NT2 yttrium bromides
- NT2 zinc bromides
- NT2 zirconium bromides
- NT1 cadmium halides
- NT2 cadmium bromides
- NT2 cadmium chlorides
- NT2 cadmium fluorides
- NT2 cadmium iodides

NT1	calcium halides	NT2	sodium chlorides	NT2	nitrogen fluorides
NT2	calcium bromides	NT2	strontium chlorides	NT2	osmium fluorides
NT2	calcium chlorides	NT2	sulfur chlorides	NT2	palladium fluorides
NT2	calcium fluorides	NT2	tantalum chlorides	NT2	phosphorus fluorides
NT2	calcium iodides	NT2	technetium chlorides	NT2	platinum fluorides
NT1	chlorides	NT2	tellurium chlorides	NT2	plutonium fluorides
NT2	aluminium chlorides	NT2	terbium chlorides	NT2	potassium fluorides
NT2	americium chlorides	NT2	tetrazolium	NT2	praseodymium fluorides
NT2	ammonium chlorides	NT2	thallium chlorides	NT2	promethium fluorides
NT2	antimony chlorides	NT2	thionyl chlorides	NT2	protactinium fluorides
NT2	argon chlorides	NT2	thorium chlorides	NT2	radon fluorides
NT2	arsenic chlorides	NT2	thulium chlorides	NT2	rhenium fluorides
NT2	astatine chlorides	NT2	tin chlorides	NT2	rhodium fluorides
NT2	barium chlorides	NT2	titanium chlorides	NT2	rubidium fluorides
NT2	berkelium chlorides	NT2	tungsten chlorides	NT2	ruthenium fluorides
NT2	beryllium chlorides	NT2	uranium chlorides	NT2	samarium fluorides
NT2	bismuth chlorides	NT2	uranyl chlorides	NT2	scandium fluorides
NT2	boron chlorides	NT2	vanadium chlorides	NT2	selenium fluorides
NT2	bromine chlorides	NT2	xenon chlorides	NT2	silicon fluorides
NT2	cadmium chlorides	NT2	ytterbium chlorides	NT2	silver fluorides
NT2	calcium chlorides	NT2	yttrium chlorides	NT2	sodium fluorides
NT2	californium chlorides	NT2	zinc chlorides	NT2	strontium fluorides
NT2	cerium chlorides	NT2	zirconium chlorides	NT2	sulfur fluorides
NT2	cesium chlorides	NT1	copper halides	NT2	tantalum fluorides
NT2	chromium chlorides	NT2	copper bromides	NT2	technetium fluorides
NT2	cobalt chlorides	NT2	copper chlorides	NT2	tellurium fluorides
NT2	copper chlorides	NT2	copper chlorides	NT2	terbium fluorides
NT2	copper chlorides	NT2	copper iodides	NT2	thallium fluorides
NT2	curium chlorides	NT2	copper iodides	NT2	thorium fluorides
NT2	dysprosium chlorides	NT1	fluorides	NT2	thulium fluorides
NT2	einsteinium chlorides	NT2	aluminium fluorides	NT2	tin fluorides
NT2	erbium chlorides	NT2	americium fluorides	NT2	titanium fluorides
NT2	europium chlorides	NT2	ammonium fluorides	NT2	tungsten fluorides
NT2	gadolinium chlorides	NT2	antimony fluorides	NT2	uranium fluorides
NT2	gallium chlorides	NT2	argon fluorides	NT3	uranium hexafluoride
NT2	germanium chlorides	NT2	arsenic fluorides	NT3	uranium pentafluoride
NT2	gold chlorides	NT2	barium fluorides	NT3	uranium tetrafluoride
NT2	hafnium chlorides	NT2	berkelium fluorides	NT2	uranyl fluorides
NT2	helium chlorides	NT2	beryllium fluorides	NT2	vanadium fluorides
NT2	holmium chlorides	NT2	bismuth fluorides	NT2	xenon fluorides
NT2	indium chlorides	NT2	boron fluorides	NT2	ytterbium fluorides
NT2	iodine chlorides	NT2	bromine fluorides	NT2	yttrium fluorides
NT2	iridium chlorides	NT2	cadmium fluorides	NT2	zinc fluorides
NT2	iron chlorides	NT2	calcium fluorides	NT2	zirconium fluorides
NT2	krypton chlorides	NT2	californium fluorides	NT1	gallium halides
NT2	lanthanum chlorides	NT2	carbon fluorides	NT2	gallium bromides
NT2	lead chlorides	NT2	cerium fluorides	NT2	gallium chlorides
NT2	lithium chlorides	NT2	cesium fluorides	NT2	gallium fluorides
NT2	lutetium chlorides	NT2	chlorine fluorides	NT2	gallium iodides
NT2	magnesium chlorides	NT2	chromium fluorides	NT2	gallium iodides
NT2	manganese chlorides	NT2	cobalt fluorides	NT1	iodides
NT2	mercury chlorides	NT2	copper fluorides	NT2	aluminium iodides
NT2	methylene blue	NT2	curium fluorides	NT2	antimony iodides
NT2	molybdenum chlorides	NT2	dysprosium fluorides	NT2	argon iodides
NT2	neodymium chlorides	NT2	erbium fluorides	NT2	arsenic iodides
NT2	neon chlorides	NT2	europium fluorides	NT2	barium iodides
NT2	neptunium chlorides	NT2	gadolinium fluorides	NT2	bismuth iodides
NT2	nickel chlorides	NT2	gallium fluorides	NT2	boron iodides
NT2	niobium chlorides	NT2	germanium fluorides	NT2	cadmium iodides
NT2	nitrogen chlorides	NT2	gold fluorides	NT2	calcium iodides
NT2	osmium chlorides	NT2	hafnium fluorides	NT2	cerium iodides
NT2	palladium chlorides	NT2	holmium fluorides	NT2	cesium iodides
NT2	phosphorus chlorides	NT2	indium fluorides	NT2	chromium iodides
NT2	platinum chlorides	NT2	iodine fluorides	NT2	cobalt iodides
NT2	plutonium chlorides	NT2	iridium fluorides	NT2	copper iodides
NT2	potassium chlorides	NT2	iron fluorides	NT2	curium iodides
NT2	praseodymium chlorides	NT2	krypton fluorides	NT2	dysprosium iodides
NT2	promethium chlorides	NT2	lanthanum fluorides	NT2	erbium iodides
NT2	protactinium chlorides	NT2	lead fluorides	NT2	europium iodides
NT2	radium chlorides	NT2	lithium fluorides	NT2	gadolinium iodides
NT2	rhenium chlorides	NT2	lutetium fluorides	NT2	gallium iodides
NT2	rhodium chlorides	NT2	magnesium fluorides	NT2	germanium iodides
NT2	rubidium chlorides	NT2	manganese fluorides	NT2	gold iodides
NT2	ruthenium chlorides	NT2	mercury fluorides	NT2	hafnium iodides
NT2	rutherfordium chlorides	NT2	molybdenum fluorides	NT2	holmium iodides
NT2	samarium chlorides	NT2	neodymium fluorides	NT2	indium iodides
NT2	scandium chlorides	NT2	neon fluorides	NT2	iron iodides
NT2	selenium chlorides	NT2	neptunium fluorides	NT2	lanthanum iodides
NT2	silicon chlorides	NT2	nickel fluorides	NT2	lead iodides
NT2	silver chlorides	NT2	niobium fluorides	NT2	lithium iodides

NT2 lutetium iodides  
 NT2 magnesium iodides  
 NT2 manganese iodides  
 NT2 mercury iodides  
 NT2 molybdenum iodides  
 NT2 neodymium iodides  
 NT2 neon iodides  
 NT2 neptunium iodides  
 NT2 nickel iodides  
 NT2 niobium iodides  
 NT2 nitrogen iodides  
 NT2 palladium iodides  
 NT2 phosphorus iodides  
 NT2 platinum iodides  
 NT2 plutonium iodides  
 NT2 potassium iodides  
 NT2 praseodymium iodides  
 NT2 rhenium iodides  
 NT2 rubidium iodides  
 NT2 samarium iodides  
 NT2 scandium iodides  
 NT2 selenium iodides  
 NT2 silicon iodides  
 NT2 silver iodides  
 NT2 sodium iodides  
 NT2 strontium iodides  
 NT2 tantalum iodides  
 NT2 technetium iodides  
 NT2 tellurium iodides  
 NT2 terbium iodides  
 NT2 thallium iodides  
 NT2 thorium iodides  
 NT2 thulium iodides  
 NT2 tin iodides  
 NT2 titanium iodides  
 NT2 tungsten iodides  
 NT2 uranium iodides  
 NT2 vanadium iodides  
 NT2 xenon iodides  
 NT2 ytterbium iodides  
 NT2 yttrium iodides  
 NT2 zinc iodides  
 NT2 zirconium iodides  
 NT1 lead halides  
 NT2 lead bromides  
 NT2 lead chlorides  
 NT2 lead fluorides  
 NT2 lead iodides  
 NT1 lithium halides  
 NT2 lithium bromides  
 NT2 lithium chlorides  
 NT2 lithium fluorides  
 NT2 lithium iodides  
 NT1 manganese halides  
 NT2 manganese bromides  
 NT2 manganese chlorides  
 NT2 manganese fluorides  
 NT2 manganese iodides  
 NT1 mercury halides  
 NT2 mercury bromides  
 NT2 mercury chlorides  
 NT2 mercury fluorides  
 NT2 mercury iodides  
 NT1 rhenium halides  
 NT2 rhenium bromides  
 NT2 rhenium chlorides  
 NT2 rhenium fluorides  
 NT2 rhenium iodides  
 NT1 silicon halides  
 NT2 silicon bromides  
 NT2 silicon chlorides  
 NT2 silicon fluorides  
 NT2 silicon iodides  
 NT1 tellurium halides  
 NT2 tellurium bromides  
 NT2 tellurium chlorides  
 NT2 tellurium fluorides  
 NT2 tellurium iodides  
 NT1 thallium halides

NT2 thallium bromides  
 NT2 thallium chlorides  
 NT2 thallium fluorides  
 NT2 thallium iodides  
 NT1 tin halides  
 NT2 tin bromides  
 NT2 tin chlorides  
 NT2 tin fluorides  
 NT2 tin iodides  
 NT1 zinc halides  
 NT2 zinc bromides  
 NT2 zinc chlorides  
 NT2 zinc fluorides  
 NT2 zinc iodides

**HALITE**

*INIS: 2000-04-20; ETDE: 1985-09-23*

\*BT1 halide minerals  
 RT evaporites  
 RT salt deposits  
 RT sodium chlorides

**HALL EFFECT**

RT electric conductors  
 RT ettinghausen effect  
 RT nernst effect  
 RT righi-leduc effect  
 RT shubnikov-de haas effect

**hall generators**

USE mhd generators

**hallam nuclear power facility**

USE hnpf reactor

**HALLEY COMET**

*INIS: 1986-08-19; ETDE: 1986-09-05*

BT1 comets  
 RT solar system

**HALLIMONDITE**

*2000-04-12*

\*BT1 oxide minerals  
 \*BT1 uranium minerals  
 RT arsenic oxides  
 RT lead oxides  
 RT uranium oxides

**halls**

*2006-05-26*

SEE high rooms

**HALLUCINOGENS**

*1996-06-26*

\*BT1 psychotropic drugs  
 NT1 bufotenine  
 RT marihuana

**halo states**

*1995-07-03*

USE nuclear halos

**HALOGEN COMPOUNDS**

*For inorganic compounds only; see also*

*ORGANIC HALOGEN COMPOUNDS.*

NT1 astatine compounds  
 NT2 astatine chlorides  
 NT1 bromine compounds  
 NT2 bromates  
 NT2 bromic acid  
 NT2 bromides  
 NT3 aluminium bromides  
 NT3 antimony bromides  
 NT3 arsenic bromides  
 NT3 barium bromides  
 NT3 beryllium bromides  
 NT3 bismuth bromides  
 NT3 boron bromides  
 NT3 cadmium bromides  
 NT3 calcium bromides  
 NT3 californium bromides  
 NT3 cerium bromides

NT3 cesium bromides  
 NT3 chromium bromides  
 NT3 cobalt bromides  
 NT3 copper bromides  
 NT3 dysprosium bromides  
 NT3 einsteinium bromides  
 NT3 erbium bromides  
 NT3 europium bromides  
 NT3 fermium bromides  
 NT3 gadolinium bromides  
 NT3 gallium bromides  
 NT3 germanium bromides  
 NT3 gold bromides  
 NT3 hafnium bromides  
 NT3 holmium bromides  
 NT3 indium bromides  
 NT3 iodine bromides  
 NT3 iron bromides  
 NT3 krypton bromides  
 NT3 lanthanum bromides  
 NT3 lead bromides  
 NT3 lithium bromides  
 NT3 lutetium bromides  
 NT3 magnesium bromides  
 NT3 manganese bromides  
 NT3 mercury bromides  
 NT3 molybdenum bromides  
 NT3 neodymium bromides  
 NT3 neptunium bromides  
 NT3 nickel bromides  
 NT3 niobium bromides  
 NT3 nitrogen bromides  
 NT3 palladium bromides  
 NT3 phosphorus bromides  
 NT3 platinum bromides  
 NT3 polonium bromides  
 NT3 potassium bromides  
 NT3 praseodymium bromides  
 NT3 protactinium bromides  
 NT3 radium bromides  
 NT3 rhenium bromides  
 NT3 rhodium bromides  
 NT3 rubidium bromides  
 NT3 ruthenium bromides  
 NT3 samarium bromides  
 NT3 scandium bromides  
 NT3 selenium bromides  
 NT3 silicon bromides  
 NT3 silver bromides  
 NT3 sodium bromides  
 NT3 strontium bromides  
 NT3 tantalum bromides  
 NT3 technetium bromides  
 NT3 tellurium bromides  
 NT3 terbium bromides  
 NT3 thallium bromides  
 NT3 thorium bromides  
 NT3 thulium bromides  
 NT3 tin bromides  
 NT3 titanium bromides  
 NT3 tungsten bromides  
 NT3 uranium bromides  
 NT3 vanadium bromides  
 NT3 xenon bromides  
 NT3 ytterbium bromides  
 NT3 yttrium bromides  
 NT3 zinc bromides  
 NT3 zirconium bromides  
 NT2 bromine chlorides  
 NT2 bromine fluorides  
 NT2 bromine oxides  
 NT2 hydrobromic acid  
 NT2 oxybromides  
 NT2 perbromates  
 NT1 chlorine compounds  
 NT2 chlorates  
 NT2 chloric acid  
 NT2 chlorides  
 NT3 aluminium chlorides

NT3	americium chlorides	NT3	tetrazolium	NT3	boron fluorides
NT3	ammonium chlorides	NT3	thallium chlorides	NT3	bromine fluorides
NT3	antimony chlorides	NT3	thionyl chlorides	NT3	cadmium fluorides
NT3	argon chlorides	NT3	thorium chlorides	NT3	calcium fluorides
NT3	arsenic chlorides	NT3	thulium chlorides	NT3	californium fluorides
NT3	astatine chlorides	NT3	tin chlorides	NT3	carbon fluorides
NT3	barium chlorides	NT3	titanium chlorides	NT3	cerium fluorides
NT3	berkelium chlorides	NT3	tungsten chlorides	NT3	cesium fluorides
NT3	beryllium chlorides	NT3	uranium chlorides	NT3	chlorine fluorides
NT3	bismuth chlorides	NT3	uranyl chlorides	NT3	chromium fluorides
NT3	boron chlorides	NT3	vanadium chlorides	NT3	cobalt fluorides
NT3	bromine chlorides	NT3	xenon chlorides	NT3	copper fluorides
NT3	cadmium chlorides	NT3	ytterbium chlorides	NT3	curium fluorides
NT3	calcium chlorides	NT3	yttrium chlorides	NT3	dysprosium fluorides
NT3	californium chlorides	NT3	zinc chlorides	NT3	erbium fluorides
NT3	cerium chlorides	NT3	zirconium chlorides	NT3	europium fluorides
NT3	cesium chlorides	NT2	chlorine fluorides	NT3	gadolinium fluorides
NT3	chromium chlorides	NT2	chlorine nitrates	NT3	gallium fluorides
NT3	cobalt chlorides	NT2	chlorine oxides	NT3	germanium fluorides
NT3	copper chlorides	NT2	chlorous acid	NT3	gold fluorides
NT3	curium chlorides	NT2	hydrochloric acid	NT3	hafnium fluorides
NT3	dysprosium chlorides	NT2	hypochlorous acid	NT3	holmium fluorides
NT3	einsteinium chlorides	NT2	oxychlorides	NT3	indium fluorides
NT3	erbium chlorides	NT2	perchlorates	NT3	iodine fluorides
NT3	europium chlorides	NT3	aluminium perchlorates	NT3	iridium fluorides
NT3	gadolinium chlorides	NT3	americium perchlorates	NT3	iron fluorides
NT3	gallium chlorides	NT3	ammonium perchlorates	NT3	krypton fluorides
NT3	germanium chlorides	NT3	barium perchlorates	NT3	lanthanum fluorides
NT3	gold chlorides	NT3	cadmium perchlorates	NT3	lead fluorides
NT3	hafnium chlorides	NT3	calcium perchlorates	NT3	lithium fluorides
NT3	helium chlorides	NT3	cerium perchlorates	NT3	lutetium fluorides
NT3	holmium chlorides	NT3	cesium perchlorates	NT3	magnesium fluorides
NT3	indium chlorides	NT3	chromium perchlorates	NT3	manganese fluorides
NT3	iodine chlorides	NT3	cobalt perchlorates	NT3	mercury fluorides
NT3	iridium chlorides	NT3	copper perchlorates	NT3	molybdenum fluorides
NT3	iron chlorides	NT3	erbium perchlorates	NT3	neodymium fluorides
NT3	krypton chlorides	NT3	europium perchlorates	NT3	neon fluorides
NT3	lanthanum chlorides	NT3	gadolinium perchlorates	NT3	neptunium fluorides
NT3	lead chlorides	NT3	hafnium perchlorates	NT3	nickel fluorides
NT3	lithium chlorides	NT3	holmium perchlorates	NT3	niobium fluorides
NT3	lutetium chlorides	NT3	indium perchlorates	NT3	nitrogen fluorides
NT3	magnesium chlorides	NT3	iron perchlorates	NT3	osmium fluorides
NT3	manganese chlorides	NT3	lanthanum perchlorates	NT3	palladium fluorides
NT3	mercury chlorides	NT3	lead perchlorates	NT3	phosphorus fluorides
NT3	methylene blue	NT3	lithium perchlorates	NT3	platinum fluorides
NT3	molybdenum chlorides	NT3	magnesium perchlorates	NT3	plutonium fluorides
NT3	neodymium chlorides	NT3	mercury perchlorates	NT3	potassium fluorides
NT3	neon chlorides	NT3	neodymium perchlorates	NT3	praseodymium fluorides
NT3	neptunium chlorides	NT3	neptunium perchlorates	NT3	promethium fluorides
NT3	nickel chlorides	NT3	potassium perchlorates	NT3	protactinium fluorides
NT3	niobium chlorides	NT3	praseodymium perchlorates	NT3	radon fluorides
NT3	nitrogen chlorides	NT3	rubidium perchlorates	NT3	rhenium fluorides
NT3	osmium chlorides	NT3	samarium perchlorates	NT3	rhodium fluorides
NT3	palladium chlorides	NT3	scandium perchlorates	NT3	rubidium fluorides
NT3	phosphorus chlorides	NT3	silver perchlorates	NT3	ruthenium fluorides
NT3	platinum chlorides	NT3	sodium perchlorates	NT3	samarium fluorides
NT3	plutonium chlorides	NT3	strontium perchlorates	NT3	scandium fluorides
NT3	potassium chlorides	NT3	terbium perchlorates	NT3	selenium fluorides
NT3	praseodymium chlorides	NT3	thulium perchlorates	NT3	silicon fluorides
NT3	promethium chlorides	NT3	uranium perchlorates	NT3	silver fluorides
NT3	protactinium chlorides	NT3	uranyl perchlorates	NT3	sodium fluorides
NT3	radium chlorides	NT3	ytterbium perchlorates	NT3	strontium fluorides
NT3	rhenium chlorides	NT3	yttrium perchlorates	NT3	sulfur fluorides
NT3	rhodium chlorides	NT3	zinc perchlorates	NT3	tantalum fluorides
NT3	rubidium chlorides	NT3	zirconium perchlorates	NT3	technetium fluorides
NT3	ruthenium chlorides	NT2	perchloric acid	NT3	tellurium fluorides
NT3	rutherfordium chlorides	NT1	fluorine compounds	NT3	terbium fluorides
NT3	samarium chlorides	NT2	fluorates	NT3	thallium fluorides
NT3	scandium chlorides	NT2	fluorides	NT3	thorium fluorides
NT3	selenium chlorides	NT3	aluminium fluorides	NT3	thulium fluorides
NT3	silicon chlorides	NT3	americium fluorides	NT3	tin fluorides
NT3	silver chlorides	NT3	ammonium fluorides	NT3	titanium fluorides
NT3	sodium chlorides	NT3	antimony fluorides	NT3	tungsten fluorides
NT3	strontium chlorides	NT3	argon fluorides	NT3	uranium fluorides
NT3	sulfur chlorides	NT3	arsenic fluorides	NT4	uranium hexafluoride
NT3	tantalum chlorides	NT3	barium fluorides	NT4	uranium pentafluoride
NT3	technetium chlorides	NT3	berkelium fluorides	NT4	uranium tetrafluoride
NT3	tellurium chlorides	NT3	beryllium fluorides	NT3	uranyl fluorides
NT3	terbium chlorides	NT3	bismuth fluorides	NT3	vanadium fluorides



- NT3 xenon fluorides  
 NT3 ytterbium fluorides  
 NT3 yttrium fluorides  
 NT3 zinc fluorides  
 NT3 zirconium fluorides  
 NT2 fluorine oxides  
 NT2 fluoroborates  
 NT2 fluoroboric acid  
 NT2 hydrofluoric acid  
 NT2 hypofluorous acid  
 NT2 oxyfluorides  
 NT1 halides  
 NT2 ammonium halides  
 NT3 ammonium chlorides  
 NT3 ammonium fluorides  
 NT2 bromides  
 NT3 aluminium bromides  
 NT3 antimony bromides  
 NT3 arsenic bromides  
 NT3 barium bromides  
 NT3 beryllium bromides  
 NT3 bismuth bromides  
 NT3 boron bromides  
 NT3 cadmium bromides  
 NT3 calcium bromides  
 NT3 californium bromides  
 NT3 cerium bromides  
 NT3 cesium bromides  
 NT3 chromium bromides  
 NT3 cobalt bromides  
 NT3 copper bromides  
 NT3 dysprosium bromides  
 NT3 einsteinium bromides  
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 NT3 fermium bromides  
 NT3 gadolinium bromides  
 NT3 gallium bromides  
 NT3 germanium bromides  
 NT3 gold bromides  
 NT3 hafnium bromides  
 NT3 holmium bromides  
 NT3 indium bromides  
 NT3 iodine bromides  
 NT3 iron bromides  
 NT3 krypton bromides  
 NT3 lanthanum bromides  
 NT3 lead bromides  
 NT3 lithium bromides  
 NT3 lutetium bromides  
 NT3 magnesium bromides  
 NT3 manganese bromides  
 NT3 mercury bromides  
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 NT3 niobium bromides  
 NT3 nitrogen bromides  
 NT3 palladium bromides  
 NT3 phosphorus bromides  
 NT3 platinum bromides  
 NT3 polonium bromides  
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 NT3 protactinium bromides  
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 NT3 ruthenium bromides  
 NT3 samarium bromides  
 NT3 scandium bromides  
 NT3 selenium bromides  
 NT3 silicon bromides  
 NT3 silver bromides  
 NT3 sodium bromides  
 NT3 strontium bromides  
 NT3 tantalum bromides  
 NT3 technetium bromides  
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 NT3 thallium bromides  
 NT3 thorium bromides  
 NT3 thulium bromides  
 NT3 tin bromides  
 NT3 titanium bromides  
 NT3 tungsten bromides  
 NT3 uranium bromides  
 NT3 vanadium bromides  
 NT3 xenon bromides  
 NT3 ytterbium bromides  
 NT3 yttrium bromides  
 NT3 zinc bromides  
 NT3 zirconium bromides  
 NT2 cadmium halides  
 NT3 cadmium bromides  
 NT3 cadmium chlorides  
 NT3 cadmium fluorides  
 NT3 cadmium iodides  
 NT2 calcium halides  
 NT3 calcium bromides  
 NT3 calcium chlorides  
 NT3 calcium fluorides  
 NT3 calcium iodides  
 NT2 chlorides  
 NT3 aluminium chlorides  
 NT3 americium chlorides  
 NT3 ammonium chlorides  
 NT3 antimony chlorides  
 NT3 argon chlorides  
 NT3 arsenic chlorides  
 NT3 astatine chlorides  
 NT3 barium chlorides  
 NT3 berkelium chlorides  
 NT3 beryllium chlorides  
 NT3 bismuth chlorides  
 NT3 boron chlorides  
 NT3 bromine chlorides  
 NT3 cadmium chlorides  
 NT3 calcium chlorides  
 NT3 californium chlorides  
 NT3 cerium chlorides  
 NT3 cesium chlorides  
 NT3 chromium chlorides  
 NT3 cobalt chlorides  
 NT3 copper chlorides  
 NT3 curium chlorides  
 NT3 dysprosium chlorides  
 NT3 einsteinium chlorides  
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 NT3 europium chlorides  
 NT3 gadolinium chlorides  
 NT3 gallium chlorides  
 NT3 germanium chlorides  
 NT3 gold chlorides  
 NT3 hafnium chlorides  
 NT3 helium chlorides  
 NT3 holmium chlorides  
 NT3 indium chlorides  
 NT3 iodine chlorides  
 NT3 iridium chlorides  
 NT3 iron chlorides  
 NT3 krypton chlorides  
 NT3 lanthanum chlorides  
 NT3 lead chlorides  
 NT3 lithium chlorides  
 NT3 lutetium chlorides  
 NT3 magnesium chlorides  
 NT3 manganese chlorides  
 NT3 mercury chlorides  
 NT3 methylene blue  
 NT3 molybdenum chlorides  
 NT3 neodymium chlorides  
 NT3 neon chlorides  
 NT3 neptunium chlorides  
 NT3 nickel chlorides  
 NT3 niobium chlorides  
 NT3 nitrogen chlorides  
 NT3 osmium chlorides  
 NT3 palladium chlorides  
 NT3 phosphorus chlorides  
 NT3 platinum chlorides  
 NT3 plutonium chlorides  
 NT3 potassium chlorides  
 NT3 praseodymium chlorides  
 NT3 promethium chlorides  
 NT3 protactinium chlorides  
 NT3 radium chlorides  
 NT3 rhenium chlorides  
 NT3 rhodium chlorides  
 NT3 rubidium chlorides  
 NT3 ruthenium chlorides  
 NT3 rutherfordium chlorides  
 NT3 samarium chlorides  
 NT3 scandium chlorides  
 NT3 selenium chlorides  
 NT3 silicon chlorides  
 NT3 silver chlorides  
 NT3 sodium chlorides  
 NT3 strontium chlorides  
 NT3 sulfur chlorides  
 NT3 tantalum chlorides  
 NT3 technetium chlorides  
 NT3 tellurium chlorides  
 NT3 terbium chlorides  
 NT3 tetrazolium  
 NT3 thallium chlorides  
 NT3 thionyl chlorides  
 NT3 thorium chlorides  
 NT3 thulium chlorides  
 NT3 tin chlorides  
 NT3 titanium chlorides  
 NT3 tungsten chlorides  
 NT3 uranium chlorides  
 NT3 uranyl chlorides  
 NT3 vanadium chlorides  
 NT3 xenon chlorides  
 NT3 ytterbium chlorides  
 NT3 yttrium chlorides  
 NT3 zinc chlorides  
 NT3 zirconium chlorides  
 NT2 copper halides  
 NT3 copper bromides  
 NT3 copper chlorides  
 NT3 copper fluorides  
 NT3 copper iodides  
 NT2 fluorides  
 NT3 aluminium fluorides  
 NT3 americium fluorides  
 NT3 ammonium fluorides  
 NT3 antimony fluorides  
 NT3 argon fluorides  
 NT3 arsenic fluorides  
 NT3 barium fluorides  
 NT3 berkelium fluorides  
 NT3 beryllium fluorides  
 NT3 bismuth fluorides  
 NT3 boron fluorides  
 NT3 bromine fluorides  
 NT3 cadmium fluorides  
 NT3 calcium fluorides  
 NT3 californium fluorides  
 NT3 carbon fluorides  
 NT3 cerium fluorides  
 NT3 cesium fluorides  
 NT3 chlorine fluorides  
 NT3 chromium fluorides  
 NT3 cobalt fluorides  
 NT3 copper fluorides  
 NT3 curium fluorides  
 NT3 dysprosium fluorides  
 NT3 erbium fluorides  
 NT3 europium fluorides  
 NT3 gadolinium fluorides  
 NT3 gallium fluorides  
 NT3 germanium fluorides

- NT3** gold fluorides  
**NT3** hafnium fluorides  
**NT3** holmium fluorides  
**NT3** indium fluorides  
**NT3** iodine fluorides  
**NT3** iridium fluorides  
**NT3** iron fluorides  
**NT3** krypton fluorides  
**NT3** lanthanum fluorides  
**NT3** lead fluorides  
**NT3** lithium fluorides  
**NT3** lutetium fluorides  
**NT3** magnesium fluorides  
**NT3** manganese fluorides  
**NT3** mercury fluorides  
**NT3** molybdenum fluorides  
**NT3** neodymium fluorides  
**NT3** neon fluorides  
**NT3** neptunium fluorides  
**NT3** nickel fluorides  
**NT3** niobium fluorides  
**NT3** nitrogen fluorides  
**NT3** osmium fluorides  
**NT3** palladium fluorides  
**NT3** phosphorus fluorides  
**NT3** platinum fluorides  
**NT3** plutonium fluorides  
**NT3** potassium fluorides  
**NT3** praseodymium fluorides  
**NT3** promethium fluorides  
**NT3** protactinium fluorides  
**NT3** radon fluorides  
**NT3** rhenium fluorides  
**NT3** rhodium fluorides  
**NT3** rubidium fluorides  
**NT3** ruthenium fluorides  
**NT3** samarium fluorides  
**NT3** scandium fluorides  
**NT3** selenium fluorides  
**NT3** silicon fluorides  
**NT3** silver fluorides  
**NT3** sodium fluorides  
**NT3** strontium fluorides  
**NT3** sulfur fluorides  
**NT3** tantalum fluorides  
**NT3** technetium fluorides  
**NT3** tellurium fluorides  
**NT3** terbium fluorides  
**NT3** thallium fluorides  
**NT3** thorium fluorides  
**NT3** thulium fluorides  
**NT3** tin fluorides  
**NT3** titanium fluorides  
**NT3** tungsten fluorides  
**NT3** uranium fluorides  
**NT4** uranium hexafluoride  
**NT4** uranium pentafluoride  
**NT4** uranium tetrafluoride  
**NT3** uranyl fluorides  
**NT3** vanadium fluorides  
**NT3** xenon fluorides  
**NT3** ytterbium fluorides  
**NT3** yttrium fluorides  
**NT3** zinc fluorides  
**NT3** zirconium fluorides  
**NT2** gallium halides  
**NT3** gallium bromides  
**NT3** gallium chlorides  
**NT3** gallium fluorides  
**NT3** gallium iodides  
**NT2** iodides  
**NT3** aluminium iodides  
**NT3** antimony iodides  
**NT3** argon iodides  
**NT3** arsenic iodides  
**NT3** barium iodides  
**NT3** bismuth iodides  
**NT3** boron iodides  
**NT3** cadmium iodides  
**NT3** calcium iodides  
**NT3** cerium iodides  
**NT3** cesium iodides  
**NT3** chromium iodides  
**NT3** cobalt iodides  
**NT3** copper iodides  
**NT3** curium iodides  
**NT3** dysprosium iodides  
**NT3** erbium iodides  
**NT3** europium iodides  
**NT3** gadolinium iodides  
**NT3** gallium iodides  
**NT3** germanium iodides  
**NT3** gold iodides  
**NT3** hafnium iodides  
**NT3** holmium iodides  
**NT3** indium iodides  
**NT3** iron iodides  
**NT3** lanthanum iodides  
**NT3** lead iodides  
**NT3** lithium iodides  
**NT3** lutetium iodides  
**NT3** magnesium iodides  
**NT3** manganese iodides  
**NT3** mercury iodides  
**NT3** molybdenum iodides  
**NT3** neodymium iodides  
**NT3** neon iodides  
**NT3** neptunium iodides  
**NT3** nickel iodides  
**NT3** niobium iodides  
**NT3** nitrogen iodides  
**NT3** palladium iodides  
**NT3** phosphorus iodides  
**NT3** platinum iodides  
**NT3** plutonium iodides  
**NT3** potassium iodides  
**NT3** praseodymium iodides  
**NT3** rhenium iodides  
**NT3** rubidium iodides  
**NT3** samarium iodides  
**NT3** scandium iodides  
**NT3** selenium iodides  
**NT3** silicon iodides  
**NT3** silver iodides  
**NT3** sodium iodides  
**NT3** strontium iodides  
**NT3** tantalum iodides  
**NT3** technetium iodides  
**NT3** tellurium iodides  
**NT3** terbium iodides  
**NT3** thallium iodides  
**NT3** thorium iodides  
**NT3** thulium iodides  
**NT3** tin iodides  
**NT3** titanium iodides  
**NT3** tungsten iodides  
**NT3** uranium iodides  
**NT3** vanadium iodides  
**NT3** xenon iodides  
**NT3** ytterbium iodides  
**NT3** yttrium iodides  
**NT3** zinc iodides  
**NT3** zirconium iodides  
**NT2** lead halides  
**NT3** lead bromides  
**NT3** lead chlorides  
**NT3** lead fluorides  
**NT3** lead iodides  
**NT2** lithium halides  
**NT3** lithium bromides  
**NT3** lithium chlorides  
**NT3** lithium fluorides  
**NT3** lithium iodides  
**NT2** manganese halides  
**NT3** manganese bromides  
**NT3** manganese chlorides  
**NT3** manganese fluorides  
**NT3** manganese iodides  
**NT2** mercury halides  
**NT3** mercury bromides  
**NT3** mercury chlorides  
**NT3** mercury fluorides  
**NT3** mercury iodides  
**NT2** rhenium halides  
**NT3** rhenium bromides  
**NT3** rhenium chlorides  
**NT3** rhenium fluorides  
**NT3** rhenium iodides  
**NT2** silicon halides  
**NT3** silicon bromides  
**NT3** silicon chlorides  
**NT3** silicon fluorides  
**NT3** silicon iodides  
**NT2** tellurium halides  
**NT3** tellurium bromides  
**NT3** tellurium chlorides  
**NT3** tellurium fluorides  
**NT3** tellurium iodides  
**NT2** thallium halides  
**NT3** thallium bromides  
**NT3** thallium chlorides  
**NT3** thallium fluorides  
**NT3** thallium iodides  
**NT2** tin halides  
**NT3** tin bromides  
**NT3** tin chlorides  
**NT3** tin fluorides  
**NT3** tin iodides  
**NT2** zinc halides  
**NT3** zinc bromides  
**NT3** zinc chlorides  
**NT3** zinc fluorides  
**NT3** zinc iodides  
**NT1** iodine compounds  
**NT2** hydriodic acid  
**NT2** hypoiodous acid  
**NT2** iodates  
**NT2** iodic acid  
**NT2** iodides  
**NT3** aluminium iodides  
**NT3** antimony iodides  
**NT3** argon iodides  
**NT3** arsenic iodides  
**NT3** barium iodides  
**NT3** bismuth iodides  
**NT3** boron iodides  
**NT3** cadmium iodides  
**NT3** calcium iodides  
**NT3** cerium iodides  
**NT3** cesium iodides  
**NT3** chromium iodides  
**NT3** cobalt iodides  
**NT3** copper iodides  
**NT3** curium iodides  
**NT3** dysprosium iodides  
**NT3** erbium iodides  
**NT3** europium iodides  
**NT3** gadolinium iodides  
**NT3** gallium iodides  
**NT3** germanium iodides  
**NT3** gold iodides  
**NT3** hafnium iodides  
**NT3** holmium iodides  
**NT3** indium iodides  
**NT3** iron iodides  
**NT3** lanthanum iodides  
**NT3** lead iodides  
**NT3** lithium iodides  
**NT3** lutetium iodides  
**NT3** magnesium iodides  
**NT3** manganese iodides  
**NT3** mercury iodides  
**NT3** molybdenum iodides  
**NT3** neodymium iodides  
**NT3** neon iodides  
**NT3** neptunium iodides  
**NT3** nickel iodides

**NT3** niobium iodides  
**NT3** nitrogen iodides  
**NT3** palladium iodides  
**NT3** phosphorus iodides  
**NT3** platinum iodides  
**NT3** plutonium iodides  
**NT3** potassium iodides  
**NT3** praseodymium iodides  
**NT3** rhenium iodides  
**NT3** rubidium iodides  
**NT3** samarium iodides  
**NT3** scandium iodides  
**NT3** selenium iodides  
**NT3** silicon iodides  
**NT3** silver iodides  
**NT3** sodium iodides  
**NT3** strontium iodides  
**NT3** tantalum iodides  
**NT3** technetium iodides  
**NT3** tellurium iodides  
**NT3** terbium iodides  
**NT3** thallium iodides  
**NT3** thorium iodides  
**NT3** thulium iodides  
**NT3** tin iodides  
**NT3** titanium iodides  
**NT3** tungsten iodides  
**NT3** uranium iodides  
**NT3** vanadium iodides  
**NT3** xenon iodides  
**NT3** ytterbium iodides  
**NT3** yttrium iodides  
**NT3** zinc iodides  
**NT3** zirconium iodides  
**NT2** iodine bromides  
**NT2** iodine chlorides  
**NT2** iodine fluorides  
**NT2** iodine oxides  
**NT2** oxyiodides  
**NT2** periodates  
**NT2** periodic acid  
**NT1** oxyhalides  
**NT2** oxybromides  
**NT2** oxychlorides  
**NT2** oxyfluorides  
**NT2** oxyiodides  
**RT** organic halogen compounds

#### HALOGENATED ALICYCLIC HYDROCARBONS

2000-04-12

*UF* brominated alicyclic hydrocarbons  
**\*BT1** organic halogen compounds  
**NT1** chlorinated alicyclic hydrocarbons  
**NT2** lindane  
**NT1** fluorinated alicyclic hydrocarbons  
**NT1** iodinated alicyclic hydrocarbons

#### HALOGENATED ALIPHATIC HYDROCARBONS

1991-09-30

(Prior to October 1991, this concept was indexed by ORGANIC HALOGEN COMPOUNDS.)

**\*BT1** organic halogen compounds  
**NT1** brominated aliphatic hydrocarbons  
**NT2** bromoform  
**NT2** methyl bromide  
**NT1** chlorinated aliphatic hydrocarbons  
**NT2** carbon tetrachloride  
**NT2** chloroform  
**NT2** methyl chloride  
**NT2** pvc  
**NT2** vinyl chloride  
**NT1** fluorinated aliphatic hydrocarbons  
**NT2** carbon tetrafluoride  
**NT2** fluoroform  
**NT2** methyl fluoride  
**NT2** polytetrafluoroethylene

**NT3** teflon  
**NT2** tedlar  
**NT1** freons  
**NT1** iodinated aliphatic hydrocarbons  
**NT2** iodoform  
**NT2** methyl iodide  
**RT** refrigerants

#### HALOGENATED AROMATIC HYDROCARBONS

1991-10-01

(Prior to October 1991, this concept was indexed by AROMATICS and ORGANIC HALOGEN COMPOUNDS.)

**\*BT1** aromatics  
**\*BT1** organic halogen compounds  
**NT1** brominated aromatic hydrocarbons  
**NT1** chlorinated aromatic hydrocarbons  
**NT2** aldrin  
**NT2** polychlorinated biphenyls  
**NT1** fluorinated aromatic hydrocarbons  
**NT1** iodinated aromatic hydrocarbons

#### halogenated hydrocarbons

ETDE: 2002-06-13

USE organic halogen compounds

#### HALOGENATION

**BT1** chemical reactions  
**NT1** astatination  
**NT1** bromination  
**NT1** chlorination  
**NT2** sulfochlorination  
**NT1** fluorination  
**NT1** iodination

#### HALOGENS

**\*BT1** nonmetals  
**NT1** astatine  
**NT1** bromine  
**NT1** chlorine  
**NT1** fluorine  
**NT1** iodine

#### halpern-strutinski theory

1996-07-18

(Until July 1996 this was a valid descriptor.)

SEE angular distribution

#### HALTHANE

INIS: 2000-04-12; ETDE: 1979-02-27

**\*BT1** polyurethanes

#### ham

USE meat

#### HAMADA-JOHNSTON POTENTIAL

**\*BT1** nucleon-nucleon potential  
**RT** nuclear models  
**RT** nuclear potential

#### HAMAOKA-1 REACTOR

Chubu Electric Power Co., Omaezaki, Shizuoka, Japan.

*UF* chubu-1 reactor

**\*BT1** bwr type reactors

#### HAMAOKA-2 REACTOR

Chubu Electric Power Co., Omaezaki, Shizuoka, Japan.

*UF* chubu-2 reactor

**\*BT1** bwr type reactors

#### HAMAOKA-3 REACTOR

Chubu Electric Power Co., Omaezaki, Shizuoka, Japan.

*UF* chubu-3 reactor

**\*BT1** bwr type reactors

#### HAMAOKA-4 REACTOR

1992-11-03

Chubu Electric Power Co., Omaezaki, Shizuoka, Japan.

*UF* chubu-4 reactor

**\*BT1** bwr type reactors

#### HAMAOKA-5 REACTOR

2000-01-31

Chubu Electric Power Co., Omaezaki, Shizuoka, Japan.

*UF* chubu-5 reactor

**\*BT1** bwr type reactors

#### hamburg synchrotron

USE desy

#### HAMILTON-JACOBI EQUATIONS

**\*BT1** partial differential equations

*RT* equations of motion

*RT* hamiltonian function

*RT* mechanics

#### hamilton operators

USE hamiltonians

#### HAMILTONIAN FUNCTION

**BT1** functions

*RT* classical mechanics

*RT* equations of motion

*RT* hamilton-jacobi equations

*RT* hamiltonians

*RT* limit cycle

#### HAMILTONIANS

*UF* energy operators

*UF* hamilton operators

**\*BT1** quantum operators

*RT* detailed balance principle

*RT* hamiltonian function

*RT* sudden approximation

#### HAMM-UENTROP REACTOR

INIS: 1976-02-11; ETDE: 1976-04-19

**\*BT1** pwr type reactors

#### HAMSTERS

*UF* chinese hamster

*UF* cricetus

*UF* mesocricetus

*UF* syrian hamster

**\*BT1** rodents

#### HANARO REACTOR

INIS: 1999-01-26; ETDE: 1999-08-30

High-flux Advanced Neutron Application Reactor, KAERI, Republic of Korea.

(The term KMR REACTOR was used by INIS prior to January 1999 and by ETDE prior to September 1999.)

*UF* kmr reactor

**\*BT1** enriched uranium reactors

**\*BT1** isotope production reactors

**\*BT1** materials testing reactors

**\*BT1** pool type reactors

**\*BT1** research reactors

**\*BT1** test reactors

#### handbooks

INIS: 2000-04-12; ETDE: 1980-03-29

USE manuals

#### handcar event

1994-10-14

A test made during OPERATION WHETSTONE.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**HANDICAPPED PEOPLE***INIS: 2000-04-12; ETDE: 1980-01-15**Physically or mentally disadvantaged people.*

\*BT1 minority groups

RT elderly people

RT low income groups

RT sociology

**handley event**

1994-10-14

*A test made during OPERATION MANDREL.**(Prior to September 1994, this was a valid**ETDE descriptor.)*

USE nuclear explosions

USE underground explosions

**handling (data)**

USE data processing

**handling (materials)**

USE materials handling

**handling (wastes)**

USE waste management

**handling licenses***INIS: 1976-12-08; ETDE: 1996-02-09**If appropriate use the descriptor MATERIALS**HANDLING together with the one below.*

USE licenses

**HANDS**

\*BT1 arms

NT1 fingers

RT gloves

RT manipulators

**hanford-2 reactor***Washington Public Power Supply System,**Richland, Washington, USA. Name changed to**Washington Public Power Supply System**Nuclear Project Number 2, and current items**are indexed to the abbreviated form WNP-2**REACTOR.**(Prior to August 2005 this was a valid**descriptor.)*

USE wnp-2 reactor

**hanford 305 test reactor**

2000-04-12

USE hew-305 reactor

**hanford atomic products operation**

USE hapo

**HANFORD ENGINEERING****DEVELOPMENT LABORATORY***INIS: 1995-02-16; ETDE: 1980-01-15*

UF hedl

\*BT1 us doe

RT ftf reactor

RT hanford reservation

RT hapo

RT washington

**hanford neutron radiography facility***INIS: 1979-09-18; ETDE: 1979-01-30*

USE triga-1-hanford reactor

**HANFORD PRODUCTION****REACTORS**

\*BT1 plutonium production reactors

**HANFORD RESERVATION***INIS: 1976-10-29; ETDE: 1976-07-07*

\*BT1 us doe

\*BT1 us erda

RT battelle pacific northwest laboratories

RT hanford engineering development

laboratory

RT hapo

RT neutron source facilities

RT pasco basin

RT washington

**hankel functions**

USE bessel functions

**HANKEL TRANSFORM**

\*BT1 integral transformations

**hannover triga-mk-1 reactor**

2000-05-12

USE triga-1-hanover reactor

**HAPLOIDY**

BT1 ploidy

RT gametes

**HAPO**

UF hanford atomic products operation

\*BT1 us aec

\*BT1 us doe

\*BT1 us erda

RT battelle pacific northwest laboratories

RT hanford engineering development

laboratory

RT hanford reservation

RT sequim bay

**HAPTOGLOBINS**

\*BT1 globulins-alpha

\*BT1 mucoproteins

**HARANG DISCONTINUITY**

UF midnight discontinuity

BT1 auroral oval

RT aurorae

RT ionosphere

**HARBORS**

1996-01-24

UF ports

RT inland waterways

RT marinas

RT moorings

RT seas

**hard coal***INIS: 2000-03-28; ETDE: 1979-06-06*

USE anthracite

**HARD COLLISION MODELS***INIS: 1978-07-03; ETDE: 1978-04-05**Models which reduce the origin of high energy systems to a binary collision of the projectiles or some subunits thereof.*

\*BT1 particle models

**HARD COMPONENT**

\*BT1 cosmic radiation

**HARD CORE PINCH**

BT1 pinch effect

RT linear hard core pinch devices

**HARD-CORE POTENTIAL**

1996-06-28

\*BT1 nuclear potential

RT jastrow theory

RT nucleons

**HARD FACING***INIS: 2000-07-24; ETDE: 1978-07-05*

UF hard surfacing

UF surfacing, hard

RT cladding

RT surface coating

**hard metals***ETDE: 2002-06-13*

USE cermet

**hard soldering**

USE brazing

**HARD-SPHERE MODEL**

RT gases

**hard surfacing***INIS: 2000-07-24; ETDE: 1978-07-05*

USE hard facing

**HARD X RADIATION**

\*BT1 x radiation

**HARDENING**

NT1 age hardening

NT1 dispersion hardening

NT1 precipitation hardening

NT1 quench hardening

NT1 radiation hardening

NT1 strain hardening

NT1 surface hardening

NT2 carburization

RT cold working

RT hardness

RT heat treatments

**hardening (spectral)**

USE spectral hardening

**hardhat event**

1996-07-18

*(Until July 1996 this was a valid descriptor.)*

USE plowshare project

**HARDNESS**

BT1 mechanical properties

NT1 microhardness

RT brinell hardness

RT hardening

RT knoop hardness

RT rockwell hardness

RT vickers hardness

**HARDTACK PROJECT**

2000-05-16

UF project hardtack

\*BT1 nuclear explosions

RT eniwetok

**HARMONIC GENERATION***INIS: 2000-05-16; ETDE: 1986-01-14*

UF second-harmonic generation

UF third-harmonic generation

BT1 frequency mixing

RT electromagnetic radiation

RT nonlinear optics

RT nonlinear problems

RT sound waves

**HARMONIC OSCILLATOR MODELS**

BT1 mathematical models

RT atomic models

RT harmonic oscillators

RT nuclear models

RT particle models

**HARMONIC OSCILLATORS**

RT anharmonic oscillators

RT equations of motion

RT harmonic oscillator models

RT mathematics

RT mechanics

**HARMONIC POTENTIAL**

\*BT1 nuclear potential

**harmonica devices**

2000-04-12

*(Prior to June 1991 this was a valid ETDE**descriptor. From June 1991 till March 1997 it**referred to the since-deleted descriptor**HARMONICA-2 DEVICE.)*

USE thermonuclear devices

**HARMONICS**

*Eigenfrequency oscillations excited in a vibrating system.*

- BT1 oscillations
- NT1 cyclotron harmonics
- RT lattice vibrations
- RT mechanical vibrations
- RT nonlinear problems
- RT oscillation modes
- RT plasma waves
- RT resonance

**HARMONIE REACTOR**

*CEA/CEN, Cadarache, St. Paul Lez Durance, France.*

- \*BT1 air cooled reactors
- \*BT1 enriched uranium reactors
- \*BT1 fast reactors
- \*BT1 research reactors
- \*BT1 test reactors

**HARRIS-1 REACTOR**

*Carolina Power and Light Co., Bonsal, North Carolina, USA.*

- UF *shearon harris-1 reactor*
- \*BT1 pwr type reactors

**HARRIS-2 REACTOR**

*Carolina Power and Light Co., Bonsal, North Carolina, USA. Canceled in 1983 before construction began.*

- UF *shearon harris-2 reactor*
- \*BT1 pwr type reactors

**HARRIS-3 REACTOR**

*Carolina Power and Light Co., Bonsal, North Carolina, USA. Canceled in 1981 before construction began.*

- UF *shearon harris-3 reactor*
- \*BT1 pwr type reactors

**HARRIS-4 REACTOR**

*Carolina Power and Light Co., Bonsal, North Carolina, USA. Canceled in 1981 before construction began.*

- UF *shearon harris-4 reactor*
- \*BT1 pwr type reactors

**harry event**

*INIS: 1994-10-14; ETDE: 1981-07-06*  
*A test made during PROJECT UPSHOT.*  
 (Prior to September 1994, this was a valid ETDE descriptor.)

- USE atmospheric explosions
- USE nuclear explosions

**HARTLEPOOL REACTOR**

*Hartlepool, Durham, United Kingdom.*

- \*BT1 agr type reactors
- \*BT1 carbon dioxide cooled reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**HARTMANN NUMBER**

- BT1 dimensionless numbers
- RT drag
- RT fluid flow
- RT magnetohydrodynamics
- RT viscosity

**hartree approximation**

- USE hartree-fock method

**HARTREE-FOCK-BOGOLYUBOV THEORY**

*1976-02-11*

*The Hartree-Fock approach as applied to self-consistent fields in nuclei.*

- RT bogolyubov transformation
- RT boson expansion
- RT hartree-fock method
- RT nuclear models

- RT nuclear structure
- RT self-consistent field

**HARTREE-FOCK METHOD**

- UF *fock method*
- UF *fock self-consistent field*
- UF *hartree approximation*
- \*BT1 approximations
- RT atomic models
- RT electronic structure
- RT hartree-fock-bogolyubov theory
- RT nuclear models
- RT nuclear structure
- RT self-consistent field

**HARTSVILLE-1 REACTOR**

*TVA, Hartsville, Tennessee, USA. Canceled in 1984 after construction began (1976).*

- \*BT1 bwr type reactors
- RT ge standard reactor

**HARTSVILLE-2 REACTOR**

*TVA, Hartsville, Tennessee, USA. Canceled in 1984 after construction began (1976).*

- \*BT1 bwr type reactors
- RT ge standard reactor

**HARTSVILLE-3 REACTOR**

*TVA, Hartsville, Tennessee, USA. Canceled in 1982 before construction began.*

- \*BT1 bwr type reactors
- RT ge standard reactor

**HARTSVILLE-4 REACTOR**

*TVA, Hartsville, Tennessee, USA. Canceled in 1982 before construction began.*

- \*BT1 bwr type reactors
- RT ge standard reactor

**HARVARD SYNCHROCYCLOTRON**

- \*BT1 synchrocyclotrons

**HARVEST PROCESS**

*INIS: 2000-04-12; ETDE: 1977-01-10*  
*Developed by UKAEA and British Nuclear Fuels Ltd.; fission products are reduced to solid oxides, fused into a glass, then stored in metal flasks under water.*

- \*BT1 radioactive waste processing
- RT fuel cycle
- RT nuclear materials management
- RT radioactive waste storage
- RT solidification
- RT vitrification

**HARVESTING**

*INIS: 1992-03-27; ETDE: 1976-09-14*

- RT agriculture
- RT biomass
- RT crops
- RT horticulture
- RT silviculture
- RT wood

**HARVESTING EQUIPMENT**

*INIS: 1999-03-08; ETDE: 1979-10-23*

- BT1 equipment
- RT farm equipment
- RT forestry
- RT wood products industry

**harwell pluto reactor**

- USE pluto reactor

**HARWELL SYNCHROCYCLOTRON**

- \*BT1 synchrocyclotrons

**harwell synchrotron**

- USE nimrod

**HASSIUM**

*2004-03-19*

(Prior to March 2004 ELEMENT 108 was used for this element.)

- UF *eka-osmium*
- UF *element 108*
- UF *unniloctium*
- \*BT1 transactinide elements

**HASSIUM 264**

*2004-03-19*

(Prior to March 2004 ELEMENT 108 264 was used for this concept.)

- UF *element 108 264*
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**HASSIUM 265**

*2004-03-19*

(Prior to March 2004 ELEMENT 108 265 was used for this concept.)

- UF *element 108 265*
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**HASSIUM 266**

*2004-03-19*

(Prior to March 2004 ELEMENT 108 266 was used for this concept.)

- UF *element 108 266*
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes

**HASSIUM 267**

*2004-11-30*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes

**HASSIUM 270**

*2004-03-19*

(Prior to March 2004 ELEMENT 108 270 was used for this concept.)

- UF *element 108 270*
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 seconds living radioisotopes

**HASSIUM 271**

*2006-09-25*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hassium isotopes
- \*BT1 heavy nuclei
- \*BT1 seconds living radioisotopes

**HASSIUM COMPOUNDS**

*2004-03-19*

(Prior to March 2004 ELEMENT 108 COMPOUNDS was used for this concept.)

- UF *element 108 compounds*
- \*BT1 transactinide compounds

**HASSIUM ISOTOPES**

2004-03-19  
 (Prior to March 2004 ELEMENT 108 ISOTOPES was used for this concept.)  
 UF *element 108 isotopes*  
 BT1 isotopes  
 NT1 hassium 264  
 NT1 hassium 265  
 NT1 hassium 266  
 NT1 hassium 267  
 NT1 hassium 270  
 NT1 hassium 271

**HASTELLOY B**

1993-10-03  
 \*BT1 alloy-ni65mo28fe5

**HASTELLOY C**

1993-10-03  
 \*BT1 alloy-ni54mo17cr16fe6w4

**hastelloy c-276**

INIS: 2000-04-12; ETDE: 1979-01-30  
 USE hastelloys

**hastelloy c-4**

INIS: 2000-04-12; ETDE: 1979-01-30  
 USE hastelloys

**hastelloy f**

2000-04-12  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 USE hastelloys

**HASTELLOY N**

1993-10-03  
 \*BT1 alloy-ni70mo17cr7fe5

**HASTELLOY S**

INIS: 1993-10-03; ETDE: 1979-08-09  
 \*BT1 alloy-ni62cr16mo15fe3

**HASTELLOY X**

1993-10-03  
 \*BT1 alloy-ni49cr22fe18mo9

**HASTELLOY XR**

INIS: 1993-10-03; ETDE: 1982-02-23  
 \*BT1 alloy-ni50cr22fe18mo9

**HASTELLOYS**

UF *hastelloy c-276*  
 UF *hastelloy c-4*  
 UF *hastelloy f*  
 \*BT1 nickel base alloys  
 NT1 alloy-ni49cr22fe18mo9  
 NT2 hastelloy x  
 NT1 alloy-ni50cr22fe18mo9  
 NT2 hastelloy xr  
 NT1 alloy-ni54mo17cr16fe6w4  
 NT2 hastelloy c  
 NT1 alloy-ni62cr16mo15fe3  
 NT2 hastelloy s  
 NT1 alloy-ni65mo28fe5  
 NT2 hastelloy b  
 NT1 alloy-ni70mo17cr7fe5  
 NT2 hastelloy n  
 NT2 inor-8  
 RT corrosion resistant alloys

**HATCH-1 REACTOR**

*Southern Nuclear Operating Co., Inc., Baxley, Georgia, USA.*  
 UF *edwin i. hatch-1 reactor*  
 \*BT1 bwr type reactors

**HATCH-2 REACTOR**

*Southern Nuclear Operating Co., Inc., Baxley, Georgia, USA.*  
 UF *edwin i. hatch-2 reactor*  
 \*BT1 bwr type reactors

**hatchettolite**

1996-06-28  
 (Until June 1996 this was a valid descriptor.)  
 USE oxide minerals  
 USE uranium minerals

**HATCHING**

INIS: 1992-09-18; ETDE: 1975-10-28  
 RT eggs

**HATCHOBARU GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1977-01-31  
 BT1 geothermal fields  
 RT japan

**HAULAGE EQUIPMENT**

INIS: 2000-04-12; ETDE: 1981-04-17  
 \*BT1 materials handling equipment  
 NT1 conveyors  
 NT2 belt conveyors  
 NT2 chain conveyors  
 NT1 loaders  
 NT2 cutter loaders  
 NT3 coal plows  
 NT3 continuous miners  
 NT3 heading machines  
 NT3 shearer loaders  
 NT1 mine cars  
 RT materials handling  
 RT mine haulage  
 RT mining equipment

**HAUSDORFF SPACE**

\*BT1 mathematical space

**HAUSER-FESHBACH THEORY**

BT1 nuclear theory  
 RT compound nuclei  
 RT inelastic scattering  
 RT nuclear reactions

**HAVAR**

1993-10-03  
 \*BT1 alloy-co43cr20fe18ni13w3

**HAVEN-1 REACTOR**

INIS: 1978-08-14; ETDE: 1978-06-14  
*Wisconsin Electric Power Co., Haven, Wisconsin, USA. Canceled in 1980 before construction began. Standardized plant of the Wisconsin Utilities Project.*  
 (Prior to July 1978 known as KOSHKONONG-1 REACTOR, and older material is so indexed.)  
 UF *wup-1 reactor*  
 \*BT1 pwr type reactors  
 NT1 koshkonong-1 reactor

**HAVEN-2 REACTOR**

INIS: 1978-08-14; ETDE: 1978-06-14  
*Wisconsin Electric Power Co., Haven, Wisconsin, USA. Canceled in 1978 before construction began. Standardized plant of the Wisconsin Utilities Project.*  
 (Prior to July 1978 known as KOSHKONONG-2 REACTOR, and older material is so indexed.)  
 UF *wup-2 reactor*  
 \*BT1 pwr type reactors  
 NT1 koshkonong-2 reactor

**HAWAII**

BT1 islands  
 \*BT1 usa  
 RT kilauea volcano  
 RT pacific ocean

**HAYNES 188 ALLOY**

1993-10-03  
 \*BT1 alloy-co36cr22ni22w15fe3

**HAYNES 25 ALLOY**

1993-10-03  
 \*BT1 alloy-co54cr20w15ni10

**HAYNES ALLOYS**

1996-09-12  
 UF *alloy-co62cr28mo6ni3*  
 UF *alloy-hs-21*  
 UF *haynes stellite no 21*  
 \*BT1 cobalt base alloys  
 NT1 alloy-co36cr22ni22w15fe3  
 NT2 haynes 188 alloy  
 NT1 alloy-co54cr20w15ni10  
 NT2 alloy-hs-25  
 NT2 haynes 25 alloy  
 NT1 alloy-co60cr30w4  
 NT2 stellite 6

**haynes stellite 6b**

1997-01-28  
 (Until October 1996 this was a valid descriptor.)  
 USE alloy-co60cr30w4

**haynes stellite no 21**

1997-01-28  
 (Until September 1996 this was a valid descriptor.)  
 USE haynes alloys  
 USE stellite

**haywood model**

2000-03-28  
 (Until July 1996 this was a valid descriptor.)  
 USE neutron transport theory

**haz**

INIS: 1984-04-25; ETDE: 1984-05-23  
 USE heat affected zone

**HAZARDOUS MATERIALS**

INIS: 1981-08-18; ETDE: 1977-01-10  
*Not for RADIOACTIVE MATERIALS.*  
 UF *poisons (chemical)*  
 BT1 materials  
 NT1 toxic materials  
 NT2 toxins  
 NT3 endotoxins  
 NT3 mycotoxins  
 NT4 aflatoxins  
 RT chemical wastes  
 RT detoxification  
 RT environmental exposure  
 RT lethal doses  
 RT nonradioactive wastes  
 RT toxic substances control acts  
 RT toxicity  
 RT us superfund  
 RT waste management  
 RT wastes

**HAZARDOUS MATERIALS SPILLS**

INIS: 1991-09-30; ETDE: 1980-01-15  
 (Prior to October 1991, this concept was indexed by HAZARDOUS MATERIALS and ACCIDENTS.)  
 UF *gasoline spills*  
 BT1 accidents  
 RT chemical spills  
 RT gas spills  
 RT natural attenuation  
 RT oil spills  
 RT pollution

**HAZARDS**

UF *global risk*  
 UF *risks*  
 NT1 fire hazards  
 NT1 health hazards  
 NT2 radiation hazards  
 RT accidents

RT damage  
 RT ethical aspects  
 RT excursions  
 RT failures  
 RT fires  
 RT human factors engineering  
 RT insurance  
 RT liabilities  
 RT pressure release  
 RT public relations  
 RT reliability  
 RT risk assessment  
 RT rock bursts  
 RT sabotage  
 RT safety  
 RT safety engineering  
 RT safety showers  
 RT workmens compensation

**hazen process**

INIS: 2000-04-12; ETDE: 1978-04-27  
*Totally dry chemical coal cleaning process in which the mineral component in pulverized coal is reacted with gaseous iron pentacarbonyl (toxic) which makes mineral sulfur and other mineral components strongly magnetic, so they can be separated by dry magnetic separation methods.*  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

**hb robinson-2**

USE robinson-2 reactor

**hbt-ep**

INIS: 1999-07-26; ETDE: 2002-06-13  
 USE columbia high-beta tokamak

**HBTX DEVICES**

1985-11-18  
 \*BT1 reversed-field pinch devices  
 RT reverse-field pinch  
 RT united kingdom

**HBWR REACTOR**

UF *halden heavy boiling water reactor*  
 \*BT1 bhwr type reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 power reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**hcda**

INIS: 2000-04-12; ETDE: 1983-03-07  
 USE reactor core disruption

**HCG**

UF *human chorionic gonadotropin*  
 \*BT1 gonadotropins  
 RT gonads

**HCLWR TYPE REACTORS**

INIS: 1988-11-16; ETDE: 1988-12-02  
*High conversion light water reactors.*  
 \*BT1 plutonium reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**HCP LATTICES**

UF *hexagonal close packed*  
 \*BT1 hexagonal lattices

**hd-556**

INIS: 2000-04-12; ETDE: 1979-08-09  
 (Prior to November 1983 ALLOY-HD-556 was used for this concept in ETDE; from November 1983 till March 1997 ALLOY-FE31CR21CO20NI20MO3W2 was used for this concept in ETDE.)  
 USE iron base alloys

**hd 8077**

INIS: 2000-04-12; ETDE: 1979-08-09  
 USE nickel base alloys

**HDEHP**

UF *bis(2-ethylhexyl)phosphoric acid*  
 UF *di-2-ethylhexylphosphoric acid*  
 SF *dehpa*  
 \*BT1 phosphoric acid esters

**hdo**

1996-06-19  
 USE heavy water

**HDR REACTOR**

UF *grosswetzheim hdr reactor*  
 UF *heissdampfreaktoranlage*  
 UF *kahl-main reactor*  
 \*BT1 bwr type reactors  
 \*BT1 experimental reactors

**HE-3 COUNTERS**

\*BT1 neutron detectors  
 \*BT1 proportional counters

**he method**

INIS: 2000-04-12; ETDE: 1980-02-11  
 USE heat exchanger method

**HEAD**

1999-04-06  
 BT1 body  
 NT1 face  
 NT2 eyes  
 NT3 conjunctiva  
 NT3 cornea  
 NT3 crystalline lens  
 NT3 lacrimal ducts  
 NT3 retina  
 NT3 uvea  
 NT2 nose  
 RT brain  
 RT carotid arteries  
 RT oral cavity  
 RT sense organs  
 RT skull

**HEAD END PROCESSES**

NT1 decladding  
 NT2 chemical decladding  
 NT2 mechanical decladding  
 NT1 voloxidation process  
 RT reprocessing

**HEADING MACHINES**

INIS: 2000-04-12; ETDE: 1978-06-14  
 \*BT1 cutter loaders  
 RT coal mines  
 RT mining

**HEALING**

BT1 biological recovery  
 RT cell division  
 RT wounds

**health (public)**

INIS: 1982-12-03; ETDE: 2002-06-13  
 USE public health

**HEALTH HAZARDS**

BT1 hazards  
 NT1 radiation hazards  
 RT drug abuse  
 RT first aid  
 RT injuries  
 RT maximum credible accident  
 RT occupational safety  
 RT preventive medicine  
 RT public health  
 RT quarantine  
 RT radiation protection  
 RT radication

RT safety  
 RT us occupational safety and health act

**health insurance**

INIS: 1990-12-06; ETDE: 1990-10-09  
 (Prior to December 1990, this was a valid descriptor.)  
 USE insurance

**health physics**

USE radiation protection

**health physics research reactor**

2000-04-12  
 USE hprr reactor

**HEALTH SERVICES**

INIS: 1999-12-07; ETDE: 1978-10-23  
 BT1 social services  
 RT hospitals  
 RT human populations  
 RT medical establishments  
 RT social impact  
 RT socio-economic factors

**HEARINGS**

2000-05-17  
 UF *congressional hearings*  
 BT1 document types  
 RT administrative procedures  
 RT arbitration  
 RT courts  
 RT dispute settlements  
 RT laws  
 RT lawsuits  
 RT legislation  
 RT licensing procedures  
 RT meetings

**HEART**

BT1 cardiovascular system  
 \*BT1 organs  
 NT1 myocardium  
 NT1 pericardium  
 RT aorta  
 RT blood circulation  
 RT cardiac pacemakers  
 RT cardiography  
 RT cardiotonics  
 RT cardiovascular agents  
 RT chest  
 RT coronaries  
 RT electrocardiograms  
 RT mechanical heart  
 RT mediastinum

**heart disease**

INIS: 2000-04-12; ETDE: 1981-01-30  
 USE cardiovascular diseases

**HEART FAILURE**

INIS: 1981-08-06; ETDE: 1976-07-07  
 BT1 symptoms  
 RT biological shock  
 RT biological stress  
 RT cardiovascular diseases  
 RT coronaries

**HEAT**

2000-05-17  
 BT1 energy  
 NT1 absorption heat  
 NT1 combustion heat  
 NT1 process heat  
 NT2 geothermal process heat  
 NT2 solar process heat  
 NT1 waste heat  
 RT air heaters  
 RT energy recovery  
 RT heat recovery  
 RT heat transfer

RT heaters  
 RT heating  
 RT heating load

**heat (process)**

INIS: 1986-03-04; ETDE: 2002-06-13

USE process heat

**HEAT AFFECTED ZONE**

UF haz  
 BT1 zones  
 RT welding

**heat capacity**

USE specific heat

**heat dissipation**

(Prior to 1985 THERMAL DIFFUSION was used for this concept.)

SEE cooling  
 SEE energy losses  
 SEE heat transfer  
 SEE thermal diffusivity  
 SEE thermal effluents

**HEAT DISTRIBUTION SYSTEMS**

INIS: 2000-05-04; ETDE: 1976-05-13

UF underground heat distribution systems

BT1 energy systems  
 RT district heating

**heat effects**

INIS: 2000-04-12; ETDE: 1975-10-28

USE temperature dependence

**heat emission systems**

2006-03-31

SEE heat exchangers  
 SEE heating systems  
 SEE space heaters

**HEAT ENGINES**

INIS: 1993-02-18; ETDE: 1975-09-11

*A machine that converts heat into work (mechanical energy).*

BT1 engines  
 NT1 internal combustion engines  
 NT2 diesel engines  
 NT2 direct injection engines  
 NT2 dual-fuel engines  
 NT2 gas turbine engines  
 NT2 ramjet engines  
 NT2 rotary engines  
 NT3 wankel engines  
 NT2 spark ignition engines  
 NT3 wankel engines  
 NT2 stratified charge engines  
 NT2 turbofan engines  
 NT2 turbojet engines  
 NT1 nitinol heat engines  
 NT1 rankine cycle engines  
 NT1 rocket engines  
 NT1 solar heat engines  
 NT1 stirling engines  
 RT solar-assisted power systems  
 RT thermodynamic cycles

**HEAT EXCHANGER METHOD**

INIS: 2000-04-12; ETDE: 1980-02-11

*Crystal growth method which utilizes directional solidification from the melt where the temperature gradient in the solid is controlled by a heat exchanger.*

UF he method  
 UF schmid-vicchnicki technique  
 BT1 crystal growth methods  
 RT crystal growth  
 RT monocrystals

**HEAT EXCHANGERS**

UF coolers

UF fluidized bed heat exchangers  
 SF condensers  
 SF enthalpy wheels  
 SF heat emission systems  
 NT1 convectors  
 NT1 direct contact heat exchangers  
 NT1 in-vessel heat exchangers  
 NT1 radiators  
 NT1 water coolers  
 RT cooling  
 RT cooling towers  
 RT evaporators  
 RT heat pumps  
 RT heat recovery equipment  
 RT heat transfer  
 RT heating  
 RT isolation condensers  
 RT reactor components  
 RT reactor cooling systems  
 RT regenerators  
 RT steam condensers  
 RT steam generators  
 RT working fluids

**HEAT EXTRACTION**

INIS: 1986-03-04; ETDE: 1975-08-19

UF extraction (heat)  
 RT cooling  
 RT cooling time  
 RT heat recovery  
 RT heat recovery equipment  
 RT heat transfer

**heat flow**

ETDE: 1994-08-18

(Prior to January 1983 HEAT TRANSFER was used for this concept.)

USE heat flux

**HEAT FLUX**

INIS: 1977-03-01; ETDE: 1977-04-12

UF heat flow  
 NT1 critical heat flux  
 RT burnout  
 RT dryout  
 RT heat transfer

**HEAT GAIN**

INIS: 2000-04-12; ETDE: 1979-02-23

\*BT1 heat transfer  
 RT cooling load  
 RT direct gain systems  
 RT heating load  
 RT solar fraction  
 RT thermal bridges

**HEAT LOSSES**

INIS: 1976-02-05; ETDE: 1975-08-19

\*BT1 energy losses  
 \*BT1 heat transfer  
 RT dissipation factor  
 RT heat recovery equipment  
 RT infrared thermography  
 RT thermal bridges

**HEAT METERS**

INIS: 2000-04-12; ETDE: 1981-10-24

*Devices to measure the energy flow into or out of a working fluid passing through a thermal system.*

UF btu meters  
 \*BT1 meters

**HEAT MIRRORS**

INIS: 2000-04-12; ETDE: 1979-02-23

*Thin, transparent optical films which are reflective to long-wave infrared radiation.*

BT1 mirrors  
 RT coatings  
 RT films  
 RT glazing materials

RT reflective coatings  
 RT solar control films  
 RT thermal insulation  
 RT windows

**heat of absorption**

USE absorption heat

**heat of adsorption**

USE adsorption heat

**heat of combustion**

USE combustion heat

**heat of dissociation**

USE dissociation heat

**heat of formation**

USE formation heat

**heat of fusion**

USE fusion heat

**heat of mixing**

USE mixing heat

**heat of reaction**

USE reaction heat

**heat of solution**

USE solution heat

**heat of sublimation**

USE sublimation heat

**heat of transition**

USE transition heat

**heat of vaporization**

USE vaporization heat

**heat of wetting**

INIS: 2000-04-12; ETDE: 1984-11-08

USE wetting heat

**HEAT PIPE WICKS**

INIS: 1992-07-21; ETDE: 1976-07-07

RT capillary flow  
 RT heat pipes

**HEAT PIPES**

*Heat-transfer devices, frequently associated with thermionic converters. Not pipes for transporting hot fluids from place to place.*

UF chemical heat pipes  
 RT capillary flow  
 RT heat pipe wicks  
 RT heat transfer  
 RT pipes

**HEAT PRODUCTION**

2006-03-31

\*BT1 energy conversion  
 RT boilers  
 RT furnaces  
 RT heaters  
 RT microgeneration  
 RT space heating

**HEAT PUMPS**

1979-09-18

NT1 air source heat pumps  
 NT1 chemical heat pumps  
 NT1 gas heat pumps  
 NT1 ground source heat pumps  
 NT1 solar-assisted heat pumps  
 NT1 water source heat pumps  
 RT coefficient of performance  
 RT cooling  
 RT electric heating  
 RT heat exchangers  
 RT heat transfer  
 RT heating



RT pumps  
RT refrigeration  
RT working fluids

**HEAT RATE**

INIS: 1993-06-04; ETDE: 1986-07-25

Expression of the conversion efficiency of a power plant; for example Btu per kWhr.

BT1 efficiency  
RT performance  
RT thermal efficiency  
RT thermal power plants

**HEAT RECOVERY**

1986-03-04

BT1 energy recovery  
RT heat  
RT heat extraction  
RT heat recovery equipment  
RT heat transfer  
RT humidity recovery  
RT waste heat utilization

**HEAT RECOVERY EQUIPMENT**

INIS: 1992-02-04; ETDE: 1977-06-02

BT1 equipment  
RT heat exchangers  
RT heat extraction  
RT heat losses  
RT heat recovery  
RT waste heat boilers

**HEAT RESISTANT MATERIALS**

INIS: 1994-06-27; ETDE: 1978-11-14

BT1 materials  
NT1 heat resisting alloys  
NT2 alloy-co36cr22ni22w15fe3  
NT3 haynes 188 alloy  
NT2 alloy-co54cr20w15ni10  
NT3 alloy-hs-25  
NT3 haynes 25 alloy  
NT2 alloy-co60cr30w4  
NT3 stellite 6  
NT2 alloy-d-979  
NT2 alloy-fe44ni33cr21  
NT3 incoloy 800h  
NT2 alloy-fe46ni33cr21  
NT3 incoloy 800  
NT3 incoloy 802  
NT2 alloy-mo99  
NT3 alloy-tzm  
NT3 alloy-zm-2a  
NT2 alloy-n-10m  
NT2 alloy-n-9m  
NT2 alloy-ni41fe40cr16nb3  
NT3 inconel 706  
NT2 alloy-ni43fe30cr22mo3  
NT3 incoloy 825  
NT2 alloy-ni43fe33cr16mo3  
NT3 nimonic pe16  
NT2 alloy-ni46cr23co19ti5al4  
NT3 alloy-in-939  
NT2 alloy-ni49cr22fe18mo9  
NT3 hastelloy x  
NT2 alloy-ni50co20cr15al5mo5  
NT3 nimonic 105  
NT2 alloy-ni50cr22fe18mo9  
NT3 hastelloy xr  
NT2 alloy-ni50mo32cr15si3  
NT2 alloy-ni51cr48  
NT3 inconel 671  
NT2 alloy-ni53cr19fe19nb5mo3  
NT3 inconel 718  
NT2 alloy-ni54cr22co13mo9  
NT3 inconel 617  
NT2 alloy-ni54mo17cr16fe6w4  
NT3 hastelloy c  
NT2 alloy-ni55cr19co11mo10ti3  
NT3 rene 41  
NT2 alloy-ni58cr20co14mo4ti3

NT3 waspaloy  
NT2 alloy-ni59cr20co17ti2  
NT2 alloy-ni59cr30fe9  
NT3 inconel 690  
NT2 alloy-ni60co15cr10al6ti5mo3  
NT3 alloy-in-100  
NT2 alloy-ni60fe24cr16  
NT3 nichrome  
NT2 alloy-ni61cr16co9al3ti3w3  
NT3 alloy-in-738  
NT2 alloy-ni61cr22mo9nb4fe3  
NT3 inconel 625  
NT2 alloy-ni62cr16mo15fe3  
NT3 hastelloy s  
NT2 alloy-ni65cr25mo10  
NT3 nimonic 86  
NT2 alloy-ni70mo17cr7fe5  
NT3 hastelloy n  
NT3 inor-8  
NT2 alloy-ni73cr15fe7ti3  
NT3 inconel x750  
NT2 alloy-ni73cr20mn3nb3  
NT3 inconel 82  
NT2 alloy-ni74cr13al6mo4  
NT3 inconel 713c  
NT2 alloy-ni75cr12al6mo5  
NT3 inconel 713lc  
NT2 alloy-ni76cr15fe8  
NT3 inconel 600  
NT2 alloy-ni76cr20ti2  
NT3 nimonic 80a  
NT2 alloy-ni77cr20ti2  
NT2 alloy-nt25a5  
NT2 alloy-ra-333  
NT2 alloy-s-590  
NT2 alloy-s-816  
NT2 alloy-v-36  
NT2 alloy-zr97nb3  
NT2 alloy-zr98sn-2  
NT3 zircaloy 2  
NT2 alloy-zr98sn-4  
NT3 zircaloy 4  
NT2 enduro  
NT2 incoloy 901  
NT2 rene 80  
NT2 rene 95  
NT2 steel-cr12  
NT3 stainless steel-403  
NT2 steel-cr12moniv  
NT2 steel-cr12mov  
NT3 alloy-ht-9  
NT2 steel-cr13  
NT3 stainless steel-410  
NT2 steel-cr13al  
NT3 stainless steel-405  
NT2 steel-cr15ni15motib  
NT2 steel-cr16  
NT3 stainless steel-430  
NT2 steel-cr16ni  
NT2 steel-cr16ni13monbv  
NT2 steel-cr16ni15mo3nb  
NT2 steel-cr16ni16monb  
NT2 steel-cr16ni8mo2  
NT3 stainless steel-16-8-2  
NT2 steel-cr17cu4ni4nb-1  
NT3 stainless steel-17-4ph  
NT2 steel-cr17mo  
NT3 stainless steel-440  
NT2 steel-cr17ni12mo3  
NT3 stainless steel-316  
NT2 steel-cr17ni12mo3-1  
NT3 stainless steel-316l  
NT3 stainless steel-zend17-13  
NT2 steel-cr17ni12monb  
NT2 steel-cr17ni13  
NT2 steel-cr17ni13mo2ti  
NT2 steel-cr17ni13mo3ti  
NT2 steel-cr17ni4mo3  
NT2 steel-cr17ni7

NT3 stainless steel-301  
NT2 steel-cr18ni10  
NT3 stainless steel-18-10  
NT2 steel-cr18ni10-1  
NT2 steel-cr18ni10ti  
NT3 stainless steel-321  
NT2 steel-cr18ni11  
NT3 steel-x6crni1811  
NT2 steel-cr18ni11nb  
NT3 stainless steel-347  
NT2 steel-cr18ni11nbco  
NT3 stainless steel-348  
NT2 steel-cr18ni12  
NT3 stainless steel-305  
NT2 steel-cr18ni12ti  
NT2 steel-cr18ni8  
NT3 stainless steel-18-8  
NT2 steel-cr18ni9  
NT3 stainless steel-302  
NT2 steel-cr18ni9ti  
NT2 steel-cr19ni10  
NT3 stainless steel-304  
NT2 steel-cr19ni10-1  
NT3 stainless steel-304l  
NT2 steel-cr20ni11  
NT3 stainless steel-308  
NT2 steel-cr20ni11-1  
NT3 stainless steel-308l  
NT2 steel-cr21mn9ni6  
NT3 stainless steel-21-6-9  
NT2 steel-cr23ni14  
NT3 stainless steel-309  
NT3 stainless steel-309s  
NT2 steel-cr23ni18  
NT2 steel-cr25  
NT3 stainless steel-446  
NT2 steel-cr25ni20  
NT3 alloy-hk-40  
NT3 stainless steel-310  
NT2 steel-cr2moninb  
NT2 steel-cr2mov  
NT2 steel-ni25cr20  
NT3 stainless steel-20-25  
NT2 steel-ni26cr15ti2movalb  
NT3 alloy-a-286  
NT2 steel-nimocr  
NT2 tophet  
NT2 tribaloy 800  
NT2 udimet alloys  
NT3 alloy-ni53co19cr15mo5al4ti3  
NT4 udimet 700  
NT3 udimet 500  
RT refractories

**HEAT RESISTING ALLOYS**

1996-11-13

UF refractory alloys

UF superalloys

BT1 alloys

\*BT1 heat resistant materials

NT1 alloy-co36cr22ni22w15fe3  
NT2 haynes 188 alloy  
NT1 alloy-co54cr20w15ni10  
NT2 alloy-hs-25  
NT2 haynes 25 alloy  
NT1 alloy-co60cr30w4  
NT2 stellite 6  
NT1 alloy-d-979  
NT1 alloy-fe44ni33cr21  
NT2 incoloy 800h  
NT1 alloy-fe46ni33cr21  
NT2 incoloy 800  
NT2 incoloy 802  
NT1 alloy-mo99  
NT2 alloy-tzm  
NT2 alloy-zm-2a  
NT1 alloy-n-10m  
NT1 alloy-n-9m  
NT1 alloy-ni41fe40cr16nb3

NT2 inconel 706  
 NT1 alloy-ni43fe30cr22mo3  
 NT2 incoloy 825  
 NT1 alloy-ni43fe33cr16mo3  
 NT2 nimonic pe16  
 NT1 alloy-ni46cr23co19ti5al4  
 NT2 alloy-in-939  
 NT1 alloy-ni49cr22fe18mo9  
 NT2 hastelloy x  
 NT1 alloy-ni50co20cr15al5mo5  
 NT2 nimonic 105  
 NT1 alloy-ni50cr22fe18mo9  
 NT2 hastelloy xr  
 NT1 alloy-ni50mo32cr15si3  
 NT1 alloy-ni51cr48  
 NT2 inconel 671  
 NT1 alloy-ni53cr19fe19nb5mo3  
 NT2 inconel 718  
 NT1 alloy-ni54cr22co13mo9  
 NT2 inconel 617  
 NT1 alloy-ni54mo17cr16fe6w4  
 NT2 hastelloy c  
 NT1 alloy-ni55cr19co11mo10ti3  
 NT2 rene 41  
 NT1 alloy-ni58cr20co14mo4ti3  
 NT2 waspaloy  
 NT1 alloy-ni59cr20co17ti2  
 NT1 alloy-ni59cr30fe9  
 NT2 inconel 690  
 NT1 alloy-ni60co15cr10al6ti5mo3  
 NT2 alloy-in-100  
 NT1 alloy-ni60fe24cr16  
 NT2 nichrome  
 NT1 alloy-ni61cr16co9al3ti3w3  
 NT2 alloy-in-738  
 NT1 alloy-ni61cr22mo9nb4fe3  
 NT2 inconel 625  
 NT1 alloy-ni62cr16mo15fe3  
 NT2 hastelloy s  
 NT1 alloy-ni65cr25mo10  
 NT2 nimonic 86  
 NT1 alloy-ni70mo17cr7fe5  
 NT2 hastelloy n  
 NT2 inor-8  
 NT1 alloy-ni73cr15fe7ti3  
 NT2 inconel x750  
 NT1 alloy-ni73cr20mn3nb3  
 NT2 inconel 82  
 NT1 alloy-ni74cr13al6mo4  
 NT2 inconel 713c  
 NT1 alloy-ni75cr12al6mo5  
 NT2 inconel 713lc  
 NT1 alloy-ni76cr15fe8  
 NT2 inconel 600  
 NT1 alloy-ni76cr20ti2  
 NT2 nimonic 80a  
 NT1 alloy-ni77cr20ti2  
 NT1 alloy-nt25a5  
 NT1 alloy-ra-333  
 NT1 alloy-s-590  
 NT1 alloy-s-816  
 NT1 alloy-v-36  
 NT1 alloy-zr97nb3  
 NT1 alloy-zr98sn-2  
 NT2 zircaloy 2  
 NT1 alloy-zr98sn-4  
 NT2 zircaloy 4  
 NT1 enduro  
 NT1 incoloy 901  
 NT1 rene 80  
 NT1 rene 95  
 NT1 steel-cr12  
 NT2 stainless steel-403  
 NT1 steel-cr12moniv  
 NT1 steel-cr12mov  
 NT2 alloy-ht-9  
 NT1 steel-cr13  
 NT2 stainless steel-410  
 NT1 steel-cr13al

NT2 stainless steel-405  
 NT1 steel-cr15ni15motib  
 NT1 steel-cr16  
 NT2 stainless steel-430  
 NT1 steel-cr16ni  
 NT1 steel-cr16ni13monbv  
 NT1 steel-cr16ni15mo3nb  
 NT1 steel-cr16ni16monb  
 NT1 steel-cr16ni8mo2  
 NT2 stainless steel-16-8-2  
 NT1 steel-cr17cu4ni4nb-1  
 NT2 stainless steel-17-4ph  
 NT1 steel-cr17mo  
 NT2 stainless steel-440  
 NT1 steel-cr17ni12mo3  
 NT2 stainless steel-316  
 NT1 steel-cr17ni12mo3-l  
 NT2 stainless steel-316l  
 NT2 stainless steel-zcnd17-13  
 NT1 steel-cr17ni12monb  
 NT1 steel-cr17ni13  
 NT1 steel-cr17ni13mo2ti  
 NT1 steel-cr17ni13mo3ti  
 NT1 steel-cr17ni4mo3  
 NT1 steel-cr17ni7  
 NT2 stainless steel-301  
 NT1 steel-cr18ni10  
 NT2 stainless steel-18-10  
 NT1 steel-cr18ni10-l  
 NT1 steel-cr18ni10ti  
 NT2 stainless steel-321  
 NT1 steel-cr18ni11  
 NT2 steel-x6crni1811  
 NT1 steel-cr18ni11nb  
 NT2 stainless steel-347  
 NT1 steel-cr18ni11nbco  
 NT2 stainless steel-348  
 NT1 steel-cr18ni12  
 NT2 stainless steel-305  
 NT1 steel-cr18ni12ti  
 NT1 steel-cr18ni8  
 NT2 stainless steel-18-8  
 NT1 steel-cr18ni9  
 NT2 stainless steel-302  
 NT1 steel-cr18ni9ti  
 NT1 steel-cr19ni10  
 NT2 stainless steel-304  
 NT1 steel-cr19ni10-l  
 NT2 stainless steel-304l  
 NT1 steel-cr20ni11  
 NT2 stainless steel-308  
 NT1 steel-cr20ni11-l  
 NT2 stainless steel-308l  
 NT1 steel-cr21mn9ni6  
 NT2 stainless steel-21-6-9  
 NT1 steel-cr23ni14  
 NT2 stainless steel-309  
 NT2 stainless steel-309s  
 NT1 steel-cr23ni18  
 NT1 steel-cr25  
 NT2 stainless steel-446  
 NT1 steel-cr25ni20  
 NT2 alloy-hk-40  
 NT2 stainless steel-310  
 NT1 steel-cr2moninb  
 NT1 steel-cr2mov  
 NT1 steel-ni25cr20  
 NT2 stainless steel-20-25  
 NT1 steel-ni26cr15ti2moyalb  
 NT2 alloy-a-286  
 NT1 steel-nimocr  
 NT1 tophet  
 NT1 tribaloy 800  
 NT1 udimet alloys  
 NT2 alloy-ni53co19cr15mo5al4ti3  
 NT3 udimet 700  
 NT2 udimet 500  
 RT austenitic steels  
 RT refractories

RT refractory metals  
 RT stainless steels

## HEAT-SHOCK PROTEINS

INIS: 1994-08-04; ETDE: 1994-07-19

A group of highly conserved proteins involved in folding and assembly of proteins into functional macromolecules that are also crucial for a cell's adaptation to elevated temperatures.

UF chaperonins

\*BT1 proteins

RT biological adaptation

## HEAT SINKS

(From May 1981 to February 1997 COLD RECOVERY was a valid ETDE descriptor.)

SF cold recovery

BT1 sinks

RT heat sources

RT heat transfer

RT thermal effluents

RT thermodynamics

RT vapor condensers

RT waste heat

## HEAT SOURCES

INIS: 1993-02-05; ETDE: 1976-01-07

NT1 radioisotope heat sources

RT heat sinks

RT heat transfer

### heat sources (radioisotope)

USE radioisotope heat sources

### heat stability

INIS: 1984-04-04; ETDE: 2002-06-13

USE sensitivity

USE thermal degradation

## HEAT STORAGE

1979-01-18

UF thermal storage

\*BT1 energy storage

NT1 latent heat storage

NT1 seasonal thermal energy storage

NT1 sensible heat storage

NT1 thermochemical heat storage

RT cold storage

RT energy storage systems

RT regeneration

RT regenerators

RT rock beds

RT thermal energy storage equipment

RT thermic diode solar panels

### heat storage devices

INIS: 2000-04-12; ETDE: 1976-05-13

USE thermal energy storage equipment

### heat storage systems

INIS: 2000-04-12; ETDE: 1976-08-26

USE thermal energy storage equipment

## HEAT STRESS

2003-09-19

For biological heat stress only; for mechanical heat stress use THERMAL STRESSES.

BT1 biological stress

RT body temperature

RT droughts

RT fever

RT hyperthermia

RT transpiration

## HEAT TRANSFER

UF exchange (heat)

UF heat transmission

UF transfer (heat)

UF transmission (heat)

SF heat dissipation

BT1 energy transfer  
 NT1 convection  
 NT2 forced convection  
 NT2 natural convection  
 NT2 thermosyphon effect  
 NT1 heat gain  
 NT1 heat losses  
 NT1 radiant heat transfer  
 NT1 thermal conduction  
 RT ablation  
 RT boilers  
 RT boiling  
 RT burnout  
 RT calorimetry  
 RT continuity equations  
 RT coolant loops  
 RT cooling  
 RT critical heat flux  
 RT district heating  
 RT fluid flow  
 RT fourier heat equation  
 RT greenhouse effect  
 RT heat  
 RT heat exchangers  
 RT heat extraction  
 RT heat flux  
 RT heat pipes  
 RT heat pumps  
 RT heat recovery  
 RT heat sinks  
 RT heat sources  
 RT heat transfer fluids  
 RT heaters  
 RT heating  
 RT hot spots  
 RT nucleate boiling  
 RT prandtl number  
 RT reactor cooling systems  
 RT rewetting  
 RT righi-leduc effect  
 RT rosseland approximation  
 RT steam condensers  
 RT steam generators  
 RT thermal boundary resistance  
 RT thermal conductivity  
 RT thermal diffusion  
 RT thermal insulation  
 RT thermal radiation  
 RT thermodynamics  
 RT thermonuclear reactor cooling systems  
 RT thermosyphons  
 RT two-phase flow  
 RT u values  
 RT vapor condensation  
 RT working fluids

**HEAT TRANSFER FLUIDS**

INIS: 1999-12-07; ETDE: 1978-04-28

BT1 fluids  
 RT black liquids  
 RT heat transfer  
 RT working fluids

**heat transfer properties**

INIS: 2000-04-12; ETDE: 1976-08-24

USE thermodynamic properties

**heat transmission**

USE heat transfer

**HEAT TREATMENTS**

In metallurgy as well as for the biological effects of heat.

UF preheating  
 NT1 annealing  
 NT1 autohydrolysis  
 NT1 quench hardening  
 NT1 tempering  
 NT1 thermomechanical treatments

RT aging  
 RT controlled atmospheres  
 RT critical temperature  
 RT curing  
 RT decarburization  
 RT food processing  
 RT grain refinement  
 RT hardening  
 RT heating  
 RT nucleic acid denaturation  
 RT protein denaturation  
 RT quenching  
 RT recrystallization  
 RT stress relaxation  
 RT thermal shock

**heated effluents**

USE thermal effluents

**heater oil**

INIS: 2000-04-12; ETDE: 1976-03-11

USE heating oils

**HEATERS**

NT1 air heaters  
 NT2 solar air heaters  
 NT1 feedwater heaters  
 NT1 radiant heaters  
 NT1 space heaters  
 NT2 convectors  
 NT1 thermoelectric heaters  
 NT1 water heaters  
 NT2 solar water heaters  
 NT3 passive solar water heaters  
 NT4 thermic diode solar panels  
 RT heat  
 RT heat production  
 RT heat transfer

**HEATING**

1999-01-22

NT1 aerodynamic heating  
 NT1 baking  
 NT1 district heating  
 NT2 geothermal district heating  
 NT2 solar district heating  
 NT1 electric heating  
 NT2 joule heating  
 NT3 current-drive heating  
 NT2 radiant cable heating  
 NT1 flash heating  
 NT1 geothermal heating  
 NT2 geothermal district heating  
 NT2 geothermal space heating  
 NT2 geothermal water heating  
 NT1 microwave heating  
 NT1 plasma heating  
 NT2 adiabatic compression heating  
 NT2 beam injection heating  
 NT2 high-frequency heating  
 NT3 ecr heating  
 NT3 icr heating  
 NT3 lower hybrid heating  
 NT3 magnetic-pumping heating  
 NT4 acoustic heating  
 NT4 collisional heating  
 NT4 transit-time magnetic pumping  
 NT2 joule heating  
 NT3 current-drive heating  
 NT2 laser-radiation heating  
 NT2 shock heating  
 NT2 turbulent heating  
 NT1 radiation heating  
 NT1 solar heating  
 NT2 solar district heating  
 NT2 solar space heating  
 NT2 solar water heating  
 NT1 space heating  
 NT2 auxiliary heating  
 NT2 baseboard heating

NT2 geothermal space heating  
 NT2 solar space heating  
 NT1 superheating  
 NT2 nuclear superheating  
 NT1 water heating  
 NT2 geothermal water heating  
 NT2 solar water heating  
 RT air conditioning  
 RT air heaters  
 RT annual cycle energy system  
 RT blisters  
 RT boiling  
 RT cooling  
 RT heat  
 RT heat exchangers  
 RT heat pumps  
 RT heat transfer  
 RT heat treatments  
 RT heating rate  
 RT ices program  
 RT incubation  
 RT melting  
 RT retorting  
 RT subterrene penetrators  
 RT temperature control  
 RT thermal degradation

**heating floors**

2006-03-31

USE floors  
 USE heating systems

**HEATING LOAD**

INIS: 2000-04-12; ETDE: 1975-09-30

RT air conditioning  
 RT cooling load  
 RT enthalpy  
 RT heat  
 RT heat gain  
 RT load collector ratio  
 RT solar fraction  
 RT solar heating

**HEATING OILS**

INIS: 1992-01-09; ETDE: 1976-03-11

UF burner fuel oil  
 UF distillate fuel  
 UF distillate fuel oil  
 UF furnace oil  
 UF heater oil  
 UF no. 2 fuel oil  
 \*BT1 fuel oils  
 RT liquefied petroleum gases

**HEATING RATE**

INIS: 1986-03-04; ETDE: 1976-12-15

RT heating  
 RT time dependence

**HEATING SYSTEMS**

INIS: 1999-01-22; ETDE: 1977-05-07

UF heating floors  
 SF heat emission systems  
 SF thermally active structural components  
 BT1 energy systems  
 NT1 geothermal heating systems  
 NT1 solar heating systems  
 NT2 passive solar heating systems  
 NT3 bead walls  
 NT3 direct gain systems  
 NT3 drum walls  
 NT3 roof ponds  
 NT3 thermic diode solar panels  
 NT3 trombe walls  
 NT3 water walls  
 NT2 solar-assisted heat pumps  
 RT chemical heat pumps  
 RT district heating  
 RT space heating  
 RT space hvac systems

**heavy fuels**

INIS: 1992-05-21; ETDE: 1976-01-23  
USE residual fuels

**HEAVY ION ACCELERATORS**

INIS: 1976-02-11; ETDE: 1975-11-11  
Includes combined accelerator types for heavy ion acceleration.

BT1 accelerators  
NT1 brookhaven rhic  
NT1 calcutta cyclotron  
NT1 cracow u-120 cyclotron  
NT1 crnl superconducting cyclotron  
NT1 cyclone cyclotron  
NT1 ganil cyclotron  
NT1 hhirf accelerator  
NT1 hilacs  
NT2 atlas superconducting linac  
NT2 superhilac  
NT1 himac accelerator  
NT1 hirfl cyclotron  
NT1 ipcr cyclotron  
NT1 jinr u-400 cyclotron  
NT1 kvi cyclotron  
NT1 milan superconducting cyclotron  
NT1 munich suse cyclotron  
NT1 nac cyclotron  
NT1 numatron accelerator  
NT1 rnp cyclotron  
NT1 rilac  
NT1 sis synchrotron  
NT1 texas superconducting cyclotron  
NT1 tohoku cyclotron  
NT1 tokyo ins cyclotron  
NT1 unilac  
NT1 vicksi accelerator  
NT1 warsaw cyclotron  
RT heavy ions

**HEAVY ION DECAY****RADIOISOTOPES**

INIS: 1995-06-29; ETDE: 1989-06-23

\*BT1 radioisotopes  
NT1 carbon 12 decay radioisotopes  
NT2 barium 114  
NT1 carbon 14 decay radioisotopes  
NT2 radium 222  
NT2 radium 223  
NT2 radium 224  
NT2 radium 226  
NT1 magnesium 28 decay radioisotopes  
NT2 plutonium 236  
NT2 uranium 234  
NT1 neon 24 decay radioisotopes  
NT2 protactinium 231  
NT2 thorium 230  
NT2 uranium 232  
NT2 uranium 233  
NT2 uranium 234  
NT1 silicon 32 decay radioisotopes  
NT2 plutonium 238  
RT heavy ion emission decay

**HEAVY ION EMISSION DECAY**

INIS: 1986-03-04; ETDE: 1988-07-08

\*BT1 nuclear decay  
NT1 carbon 12 emission decay  
NT1 carbon 14 emission decay  
NT1 carbon 16 emission decay  
NT1 magnesium 28 emission decay  
NT1 magnesium 30 emission decay  
NT1 neon 24 emission decay  
NT1 oxygen 16 emission decay  
NT1 silicon 32 emission decay  
NT1 silicon 34 emission decay  
RT cold fission  
RT heavy ion decay radioisotopes

**HEAVY ION FUSION REACTIONS**

ETDE: 1977-01-31

Endoenergetic fusion reactions.

UF fusion reactions (endoenergetic)  
UF fusion reactions (heavy ion)  
SF fusion reactions  
\*BT1 heavy ion reactions  
\*BT1 nucleosynthesis  
RT compound-nucleus reactions  
RT deep inelastic heavy ion reactions  
RT incomplete fusion reactions  
RT quasi-fission  
RT thermonuclear reactions

**heavy ion linear accelerators**

USE hilacs

**HEAVY ION REACTIONS**

1995-05-03

BT1 nuclear reactions  
NT1 aluminium 27 reactions  
NT1 argon 36 reactions  
NT1 argon 40 reactions  
NT1 beryllium 11 reactions  
NT1 beryllium 7 reactions  
NT1 beryllium 8 reactions  
NT1 beryllium 9 reactions  
NT1 bismuth 209 reactions  
NT1 boron 10 reactions  
NT1 boron 11 reactions  
NT1 boron 8 reactions  
NT1 bromine 79 reactions  
NT1 bromine 81 reactions  
NT1 calcium 40 reactions  
NT1 calcium 42 reactions  
NT1 calcium 44 reactions  
NT1 calcium 48 reactions  
NT1 carbon 12 reactions  
NT1 carbon 13 reactions  
NT1 carbon 14 reactions  
NT1 chlorine 35 reactions  
NT1 chlorine 37 reactions  
NT1 chromium 52 reactions  
NT1 chromium 54 reactions  
NT1 cobalt 59 reactions  
NT1 copper 63 reactions  
NT1 copper 65 reactions  
NT1 deep inelastic heavy ion reactions  
NT1 dysprosium 161 reactions  
NT1 erbium 166 reactions  
NT1 fluorine 19 reactions  
NT1 gadolinium 155 reactions  
NT1 germanium 70 reactions  
NT1 germanium 74 reactions  
NT1 germanium 76 reactions  
NT1 gold 197 reactions  
NT1 heavy ion fusion reactions  
NT1 helium 6 reactions  
NT1 helium 8 reactions  
NT1 holmium 165 reactions  
NT1 incomplete fusion reactions  
NT1 iodine 127 reactions  
NT1 iron 54 reactions  
NT1 iron 56 reactions  
NT1 iron 58 reactions  
NT1 krypton 80 reactions  
NT1 krypton 82 reactions  
NT1 krypton 83 reactions  
NT1 krypton 84 reactions  
NT1 krypton 86 reactions  
NT1 lanthanum 139 reactions  
NT1 lead 206 reactions  
NT1 lead 208 reactions  
NT1 lithium 11 reactions  
NT1 lithium 6 reactions  
NT1 lithium 7 reactions  
NT1 lithium 8 reactions  
NT1 lithium 9 reactions  
NT1 magnesium 24 reactions

NT1 magnesium 25 reactions  
NT1 magnesium 26 reactions  
NT1 manganese 55 reactions  
NT1 molybdenum 100 reactions  
NT1 molybdenum 92 reactions  
NT1 molybdenum 96 reactions  
NT1 molybdenum 98 reactions  
NT1 neodymium 142 reactions  
NT1 neodymium 150 reactions  
NT1 neon 20 reactions  
NT1 neon 22 reactions  
NT1 neon 29 reactions  
NT1 nickel 58 reactions  
NT1 nickel 59 reactions  
NT1 nickel 60 reactions  
NT1 nickel 61 reactions  
NT1 nickel 62 reactions  
NT1 nickel 64 reactions  
NT1 niobium 93 reactions  
NT1 nitrogen 13 reactions  
NT1 nitrogen 14 reactions  
NT1 nitrogen 15 reactions  
NT1 oxygen 14 reactions  
NT1 oxygen 16 reactions  
NT1 oxygen 17 reactions  
NT1 oxygen 18 reactions  
NT1 palladium 110 reactions  
NT1 palladium 118 reactions  
NT1 phosphorus 31 reactions  
NT1 potassium 39 reactions  
NT1 quasi-fission  
NT1 ruthenium 104 reactions  
NT1 samarium 144 reactions  
NT1 samarium 154 reactions  
NT1 scandium 45 reactions  
NT1 selenium 76 reactions  
NT1 selenium 80 reactions  
NT1 selenium 82 reactions  
NT1 silicon 28 reactions  
NT1 silicon 29 reactions  
NT1 silicon 30 reactions  
NT1 silver 109 reactions  
NT1 sodium 23 reactions  
NT1 sulfur 32 reactions  
NT1 sulfur 33 reactions  
NT1 sulfur 34 reactions  
NT1 sulfur 36 reactions  
NT1 sulfur 39 reactions  
NT1 tellurium 130 reactions  
NT1 thallium 205 reactions  
NT1 thorium 232 reactions  
NT1 tin 112 reactions  
NT1 tin 116 reactions  
NT1 tin 118 reactions  
NT1 tin 120 reactions  
NT1 tin 122 reactions  
NT1 tin 124 reactions  
NT1 titanium 46 reactions  
NT1 titanium 48 reactions  
NT1 titanium 49 reactions  
NT1 titanium 50 reactions  
NT1 tungsten 183 reactions  
NT1 tungsten 184 reactions  
NT1 uranium 235 reactions  
NT1 uranium 238 reactions  
NT1 vanadium 51 reactions  
NT1 xenon 129 reactions  
NT1 xenon 132 reactions  
NT1 xenon 134 reactions  
NT1 xenon 136 reactions  
NT1 zinc 64 reactions  
NT1 zinc 68 reactions  
NT1 zinc 70 reactions  
NT1 zirconium 90 reactions  
NT1 zirconium 92 reactions  
NT1 zirconium 96 reactions  
RT anomalons  
RT hilacs  
RT nuclear fireball model

**heavy ion research facility lanzhou cyclotron***INIS: 1993-11-08; ETDE: 2002-06-13*

USE hirfl cyclotron

**HEAVY ION SPECTROMETERS**

\*BT1 spectrometers

**HEAVY IONS***Whenever appropriate use one of the specific terms listed under ION BEAMS.*

\*BT1 ions

RT ganil cyclotron  
RT heavy ion accelerators  
RT hhirf accelerator  
RT hilacs  
RT ion beams  
RT ion detection  
RT multicharged ions**HEAVY LEPTONS**

\*BT1 leptons

NT1 heavy neutral muons  
NT1 tau neutrinos  
NT1 tau particles**HEAVY LIQUID BUBBLE****CHAMBERS**

\*BT1 bubble chambers

**HEAVY MEDIA SEPARATION***INIS: 1992-07-20; ETDE: 1979-12-10*BT1 separation processes  
NT1 otisca process  
RT cleaning  
RT coal preparation  
RT washing**HEAVY METALS**

2006-06-01

*Metals with Z > 28, which are a major source of environmental pollution. Index the specific heavy metal(s) if appropriate.*

\*BT1 metals

RT environmental impacts  
RT pollution  
RT pollution abatement  
RT toxic materials**HEAVY NEUTRAL MUONS***INIS: 1993-03-24; ETDE: 1979-08-09*

UF muons, heavy neutral

\*BT1 heavy leptons

\*BT1 postulated particles  
RT muons**HEAVY NUCLEI**

1997-06-05

*For nuclei from mass 181 upwards.*

BT1 nuclei

NT1 actinide nuclei

NT2 actinium 207  
NT2 actinium 208  
NT2 actinium 209  
NT2 actinium 210  
NT2 actinium 211  
NT2 actinium 212  
NT2 actinium 213  
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NT2 actinium 234  
NT2 americium 232  
NT2 americium 233  
NT2 americium 234  
NT2 americium 235  
NT2 americium 236  
NT2 americium 237  
NT2 americium 238  
NT2 americium 239  
NT2 americium 240  
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NT2 americium 242  
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NT2 americium 244  
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NT2 americium 246  
NT2 americium 247  
NT2 berkelium 240  
NT2 berkelium 241  
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NT2 berkelium 251  
NT2 californium 238  
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NT2 californium 255  
NT2 californium 256  
NT2 curium 232  
NT2 curium 236  
NT2 curium 237  
NT2 curium 238  
NT2 curium 239  
NT2 curium 240  
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NT2 einsteinium 243  
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NT2 einsteinium 256  
NT2 fermium 242  
NT2 fermium 243  
NT2 fermium 244  
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NT2 fermium 246  
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NT2 fermium 248  
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NT2 fermium 250  
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NT2 fermium 253  
NT2 fermium 254  
NT2 fermium 255  
NT2 fermium 256  
NT2 fermium 257  
NT2 fermium 258  
NT2 fermium 259  
NT2 lawrencium 252  
NT2 lawrencium 253  
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NT2 lawrencium 259  
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NT2 lawrencium 263  
NT2 mendelevium 247  
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NT2 neptunium 225  
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NT2 neptunium 239  
NT2 neptunium 240  
NT2 neptunium 241  
NT2 neptunium 242  
NT2 neptunium 243  
NT2 neptunium 244  
NT2 nobelium 250  
NT2 nobelium 251  
NT2 nobelium 252  
NT2 nobelium 253  
NT2 nobelium 254  
NT2 nobelium 255

NT2	nobelium 256	NT2	thorium 233	NT1	bismuth 205
NT2	nobelium 257	NT2	thorium 234	NT1	bismuth 206
NT2	nobelium 258	NT2	thorium 235	NT1	bismuth 207
NT2	nobelium 259	NT2	thorium 236	NT1	bismuth 208
NT2	nobelium 260	NT2	thorium 237	NT1	bismuth 209
NT2	nobelium 261	NT2	thorium 238	NT1	bismuth 210
NT2	nobelium 262	NT2	uranium 218	NT1	bismuth 211
NT2	nobelium 264	NT2	uranium 219	NT1	bismuth 212
NT2	plutonium 228	NT2	uranium 222	NT1	bismuth 213
NT2	plutonium 229	NT2	uranium 223	NT1	bismuth 214
NT2	plutonium 230	NT2	uranium 224	NT1	bismuth 215
NT2	plutonium 231	NT2	uranium 225	NT1	bismuth 216
NT2	plutonium 232	NT2	uranium 226	NT1	bohrium 261
NT2	plutonium 233	NT2	uranium 227	NT1	bohrium 262
NT2	plutonium 234	NT2	uranium 228	NT1	bohrium 264
NT2	plutonium 235	NT2	uranium 229	NT1	bohrium 265
NT2	plutonium 236	NT2	uranium 230	NT1	bohrium 271
NT2	plutonium 237	NT2	uranium 231	NT1	darmstadtium 269
NT2	plutonium 238	NT2	uranium 232	NT1	darmstadtium 270
NT2	plutonium 239	NT2	uranium 233	NT1	darmstadtium 271
NT2	plutonium 240	NT2	uranium 234	NT1	dubnium 255
NT2	plutonium 241	NT2	uranium 235	NT1	dubnium 256
NT2	plutonium 242	NT2	uranium 236	NT1	dubnium 257
NT2	plutonium 243	NT2	uranium 237	NT1	dubnium 258
NT2	plutonium 244	NT2	uranium 238	NT1	dubnium 259
NT2	plutonium 245	NT2	uranium 239	NT1	dubnium 260
NT2	plutonium 246	NT2	uranium 240	NT1	dubnium 261
NT2	plutonium 247	NT2	uranium 241	NT1	dubnium 262
NT2	plutonium 248	NT2	uranium 242	NT1	dubnium 263
NT2	plutonium 250	NT1	astatine 191	NT1	element 112 277
NT2	protactinium 212	NT1	astatine 193	NT1	element 112 283
NT2	protactinium 213	NT1	astatine 194	NT1	francium 199
NT2	protactinium 214	NT1	astatine 195	NT1	francium 200
NT2	protactinium 215	NT1	astatine 196	NT1	francium 201
NT2	protactinium 216	NT1	astatine 197	NT1	francium 202
NT2	protactinium 217	NT1	astatine 198	NT1	francium 203
NT2	protactinium 218	NT1	astatine 199	NT1	francium 204
NT2	protactinium 219	NT1	astatine 200	NT1	francium 205
NT2	protactinium 220	NT1	astatine 201	NT1	francium 206
NT2	protactinium 221	NT1	astatine 202	NT1	francium 207
NT2	protactinium 222	NT1	astatine 203	NT1	francium 208
NT2	protactinium 223	NT1	astatine 204	NT1	francium 209
NT2	protactinium 224	NT1	astatine 205	NT1	francium 210
NT2	protactinium 225	NT1	astatine 206	NT1	francium 211
NT2	protactinium 226	NT1	astatine 207	NT1	francium 212
NT2	protactinium 227	NT1	astatine 208	NT1	francium 213
NT2	protactinium 228	NT1	astatine 209	NT1	francium 214
NT2	protactinium 229	NT1	astatine 210	NT1	francium 215
NT2	protactinium 230	NT1	astatine 211	NT1	francium 216
NT2	protactinium 231	NT1	astatine 212	NT1	francium 217
NT2	protactinium 232	NT1	astatine 213	NT1	francium 218
NT2	protactinium 233	NT1	astatine 214	NT1	francium 219
NT2	protactinium 234	NT1	astatine 215	NT1	francium 220
NT2	protactinium 235	NT1	astatine 216	NT1	francium 221
NT2	protactinium 236	NT1	astatine 217	NT1	francium 222
NT2	protactinium 237	NT1	astatine 218	NT1	francium 223
NT2	protactinium 238	NT1	astatine 219	NT1	francium 224
NT2	protactinium 239	NT1	astatine 220	NT1	francium 225
NT2	thorium 212	NT1	astatine 221	NT1	francium 226
NT2	thorium 213	NT1	astatine 222	NT1	francium 227
NT2	thorium 214	NT1	astatine 223	NT1	francium 228
NT2	thorium 215	NT1	bismuth 186	NT1	francium 229
NT2	thorium 216	NT1	bismuth 188	NT1	francium 230
NT2	thorium 217	NT1	bismuth 189	NT1	francium 231
NT2	thorium 218	NT1	bismuth 190	NT1	francium 232
NT2	thorium 219	NT1	bismuth 191	NT1	gold 181
NT2	thorium 220	NT1	bismuth 192	NT1	gold 182
NT2	thorium 221	NT1	bismuth 193	NT1	gold 183
NT2	thorium 222	NT1	bismuth 194	NT1	gold 184
NT2	thorium 223	NT1	bismuth 195	NT1	gold 185
NT2	thorium 224	NT1	bismuth 196	NT1	gold 186
NT2	thorium 225	NT1	bismuth 197	NT1	gold 187
NT2	thorium 226	NT1	bismuth 198	NT1	gold 188
NT2	thorium 227	NT1	bismuth 199	NT1	gold 189
NT2	thorium 228	NT1	bismuth 200	NT1	gold 190
NT2	thorium 229	NT1	bismuth 201	NT1	gold 191
NT2	thorium 230	NT1	bismuth 202	NT1	gold 192
NT2	thorium 231	NT1	bismuth 203	NT1	gold 193
NT2	thorium 232	NT1	bismuth 204	NT1	gold 194

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NT1	gold 195	NT1	lutetium 183	NT1	platinum 207
NT1	gold 196	NT1	lutetium 184	NT1	platinum 208
NT1	gold 197	NT1	lutetium 187	NT1	polonium 188
NT1	gold 198	NT1	meitnerium 266	NT1	polonium 190
NT1	gold 199	NT1	meitnerium 268	NT1	polonium 192
NT1	gold 200	NT1	mercury 181	NT1	polonium 193
NT1	gold 201	NT1	mercury 182	NT1	polonium 194
NT1	gold 202	NT1	mercury 183	NT1	polonium 195
NT1	gold 203	NT1	mercury 184	NT1	polonium 196
NT1	gold 204	NT1	mercury 185	NT1	polonium 197
NT1	gold 205	NT1	mercury 186	NT1	polonium 198
NT1	hafnium 181	NT1	mercury 187	NT1	polonium 199
NT1	hafnium 182	NT1	mercury 188	NT1	polonium 200
NT1	hafnium 183	NT1	mercury 189	NT1	polonium 201
NT1	hafnium 184	NT1	mercury 190	NT1	polonium 202
NT1	hafnium 185	NT1	mercury 191	NT1	polonium 203
NT1	hafnium 186	NT1	mercury 192	NT1	polonium 204
NT1	hassium 264	NT1	mercury 193	NT1	polonium 205
NT1	hassium 265	NT1	mercury 194	NT1	polonium 206
NT1	hassium 266	NT1	mercury 195	NT1	polonium 207
NT1	hassium 267	NT1	mercury 196	NT1	polonium 208
NT1	hassium 270	NT1	mercury 197	NT1	polonium 209
NT1	hassium 271	NT1	mercury 198	NT1	polonium 210
NT1	iridium 181	NT1	mercury 199	NT1	polonium 211
NT1	iridium 182	NT1	mercury 200	NT1	polonium 212
NT1	iridium 183	NT1	mercury 201	NT1	polonium 213
NT1	iridium 184	NT1	mercury 202	NT1	polonium 214
NT1	iridium 185	NT1	mercury 203	NT1	polonium 215
NT1	iridium 186	NT1	mercury 204	NT1	polonium 216
NT1	iridium 187	NT1	mercury 205	NT1	polonium 217
NT1	iridium 188	NT1	mercury 206	NT1	polonium 218
NT1	iridium 189	NT1	mercury 207	NT1	radium 205
NT1	iridium 190	NT1	mercury 208	NT1	radium 206
NT1	iridium 191	NT1	mercury 209	NT1	radium 207
NT1	iridium 192	NT1	mercury 210	NT1	radium 208
NT1	iridium 193	NT1	mercury 211	NT1	radium 209
NT1	iridium 194	NT1	mercury 212	NT1	radium 210
NT1	iridium 195	NT1	osmium 181	NT1	radium 211
NT1	iridium 196	NT1	osmium 182	NT1	radium 212
NT1	iridium 197	NT1	osmium 183	NT1	radium 213
NT1	iridium 198	NT1	osmium 184	NT1	radium 214
NT1	iridium 199	NT1	osmium 185	NT1	radium 215
NT1	lead 182	NT1	osmium 186	NT1	radium 216
NT1	lead 183	NT1	osmium 187	NT1	radium 217
NT1	lead 184	NT1	osmium 188	NT1	radium 218
NT1	lead 185	NT1	osmium 189	NT1	radium 219
NT1	lead 186	NT1	osmium 190	NT1	radium 220
NT1	lead 187	NT1	osmium 191	NT1	radium 221
NT1	lead 188	NT1	osmium 192	NT1	radium 222
NT1	lead 189	NT1	osmium 193	NT1	radium 223
NT1	lead 190	NT1	osmium 194	NT1	radium 224
NT1	lead 191	NT1	osmium 195	NT1	radium 225
NT1	lead 192	NT1	osmium 196	NT1	radium 226
NT1	lead 193	NT1	platinum 181	NT1	radium 227
NT1	lead 194	NT1	platinum 182	NT1	radium 228
NT1	lead 195	NT1	platinum 183	NT1	radium 229
NT1	lead 196	NT1	platinum 184	NT1	radium 230
NT1	lead 197	NT1	platinum 185	NT1	radium 231
NT1	lead 198	NT1	platinum 186	NT1	radium 232
NT1	lead 199	NT1	platinum 187	NT1	radium 233
NT1	lead 200	NT1	platinum 188	NT1	radium 234
NT1	lead 201	NT1	platinum 189	NT1	radon 196
NT1	lead 202	NT1	platinum 190	NT1	radon 197
NT1	lead 203	NT1	platinum 191	NT1	radon 199
NT1	lead 204	NT1	platinum 192	NT1	radon 200
NT1	lead 205	NT1	platinum 193	NT1	radon 201
NT1	lead 206	NT1	platinum 194	NT1	radon 202
NT1	lead 207	NT1	platinum 195	NT1	radon 203
NT1	lead 208	NT1	platinum 196	NT1	radon 204
NT1	lead 209	NT1	platinum 197	NT1	radon 205
NT1	lead 210	NT1	platinum 198	NT1	radon 206
NT1	lead 211	NT1	platinum 199	NT1	radon 207
NT1	lead 212	NT1	platinum 200	NT1	radon 208
NT1	lead 213	NT1	platinum 201	NT1	radon 209
NT1	lead 214	NT1	platinum 202	NT1	radon 210
NT1	lead 215	NT1	platinum 203	NT1	radon 211
NT1	lead 216	NT1	platinum 204	NT1	radon 212
NT1	lutetium 181	NT1	platinum 205	NT1	radon 213
NT1	lutetium 182	NT1	platinum 206	NT1	radon 214

NT1 radon 215  
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 NT1 rhenium 181  
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 NT1 roentgenium 272  
 NT1 roentgenium 279  
 NT1 roentgenium 280  
 NT1 rutherfordium 253  
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 NT1 rutherfordium 262  
 NT1 rutherfordium 263  
 NT1 seaborgium 259  
 NT1 seaborgium 260  
 NT1 seaborgium 261  
 NT1 seaborgium 262  
 NT1 seaborgium 263  
 NT1 seaborgium 265  
 NT1 seaborgium 266  
 NT1 tantalum 181  
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 NT1 thallium 182  
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NT1 thallium 208  
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 NT1 thallium 210  
 NT1 tungsten 181  
 NT1 tungsten 182  
 NT1 tungsten 183  
 NT1 tungsten 184  
 NT1 tungsten 185  
 NT1 tungsten 186  
 NT1 tungsten 187  
 NT1 tungsten 188  
 NT1 tungsten 189  
 NT1 tungsten 190  
 NT1 tungsten 192  
 RT nuclear structure

### heavy oils

*INIS: 2000-04-12; ETDE: 1981-01-27*

USE petroleum  
 USE viscosity

### HEAVY WATER

*1996-06-19*

*Restricted to the compounds D2O and HDO;  
 for DTO, HTO, and T2O, see the use  
 references at those entries.*

UF deuterium oxide  
 UF hdo  
 UF heavy water coolant  
 UF heavy water moderator  
 \*BT1 deuterium compounds  
 \*BT1 water  
 RT coolants  
 RT dual temperature process  
 RT heavy water plants  
 RT moderators  
 RT tritium extraction plants

### heavy water components test reactor

USE hwctr reactor

### heavy water coolant

USE heavy water

### HEAVY WATER COOLED REACTORS

BT1 reactors  
 NT1 alrr reactor  
 NT1 aquilon reactor  
 NT1 hbwr type reactors  
 NT2 hbwr reactor  
 NT2 marviken reactor  
 NT1 br-3-vn reactor  
 NT1 celestin reactor  
 NT1 cp-3 reactor  
 NT1 cp-3m reactor  
 NT1 cp-5 reactor  
 NT1 dca reactor  
 NT1 dhruva reactor  
 NT1 dido reactor  
 NT1 diorit reactor  
 NT1 dmtr reactor  
 NT1 dr-3 reactor  
 NT1 el-1 reactor  
 NT1 el-3 reactor  
 NT1 eole reactor  
 NT1 es-salam reactor  
 NT1 essor reactor  
 NT1 fr-2 reactor  
 NT1 frj-2 reactor  
 NT1 grenoble reactor  
 NT1 gtr reactor  
 NT1 hfbr reactor  
 NT1 hifar reactor  
 NT1 hwctr reactor  
 NT1 hwrr reactor  
 NT1 irr-2 reactor  
 NT1 ispra-1 reactor  
 NT1 jeep-2 reactor  
 NT1 jrr-2 reactor

NT1 jrr-3 reactor  
 NT1 mitr reactor  
 NT1 nbsr reactor  
 NT1 nora reactor  
 NT1 nru reactor  
 NT1 nrx reactor  
 NT1 pdp reactor  
 NT1 pelinduna reactor  
 NT1 phwr type reactors  
 NT2 agesta reactor  
 NT2 atucha-2 reactor  
 NT2 atucha reactor  
 NT2 bruce-1 reactor  
 NT2 bruce-2 reactor  
 NT2 bruce-3 reactor  
 NT2 bruce-4 reactor  
 NT2 bruce-5 reactor  
 NT2 bruce-6 reactor  
 NT2 bruce-7 reactor  
 NT2 bruce-8 reactor  
 NT2 cernavoda-1 reactor  
 NT2 cordoba reactor  
 NT2 cvtr reactor  
 NT2 darlington-1 reactor  
 NT2 darlington-2 reactor  
 NT2 darlington-3 reactor  
 NT2 darlington-4 reactor  
 NT2 douglas point ontario reactor  
 NT2 gentilly-2 reactor  
 NT2 kaiga-1 reactor  
 NT2 kaiga-2 reactor  
 NT2 kaiga-3 reactor  
 NT2 kaiga-4 reactor  
 NT2 kakrapar-1 reactor  
 NT2 kakrapar-2 reactor  
 NT2 kalpakkam-1 reactor  
 NT2 kalpakkam-2 reactor  
 NT2 kanupp reactor  
 NT2 mzfr reactor  
 NT2 narora-1 reactor  
 NT2 narora-2 reactor  
 NT2 npd reactor  
 NT2 pickering-1 reactor  
 NT2 pickering-2 reactor  
 NT2 pickering-3 reactor  
 NT2 pickering-4 reactor  
 NT2 pickering-5 reactor  
 NT2 pickering-6 reactor  
 NT2 pickering-7 reactor  
 NT2 pickering-8 reactor  
 NT2 point lepreau-1 reactor  
 NT2 point lepreau-2 reactor  
 NT2 rajasthan-1 reactor  
 NT2 rajasthan-2 reactor  
 NT2 rajasthan-3 reactor  
 NT2 rajasthan-4 reactor  
 NT2 rajasthan-5 reactor  
 NT2 rajasthan-6 reactor  
 NT2 tarapur-3 reactor  
 NT2 tarapur-4 reactor  
 NT2 wolsung-1 reactor  
 NT2 wolsung-2 reactor  
 NT2 wolsung-3 reactor  
 NT2 wolsung-4 reactor  
 NT1 pik reactor  
 NT1 pluto reactor  
 NT1 prr reactor  
 NT1 prtr reactor  
 NT1 pse reactor  
 NT1 r-1 reactor  
 NT1 r-a reactor  
 NT1 spert-2 reactor  
 NT1 taiwan research reactor  
 NT1 venus reactor  
 NT1 zed-2 reactor



**heavy water gas cooled reactor of slovakia**

INIS: 1993-11-08; ETDE: 2002-06-13  
USE bohunice a-1 reactor

**heavy water moderated and gas cooled reactors**

1993-11-08  
USE hwgcr type reactors

**heavy water moderated and water cooled reactors**

INIS: 1993-11-08; ETDE: 2002-06-13  
USE hwlwr type reactors

**HEAVY WATER MODERATED REACTORS**

BT1 reactors  
NT1 alrr reactor  
NT1 aquilon reactor  
NT1 bhwr type reactors  
NT2 hbwr reactor  
NT2 marviken reactor  
NT1 br-3-vn reactor  
NT1 c reactor  
NT1 candu type reactors  
NT2 bruce-1 reactor  
NT2 bruce-2 reactor  
NT2 bruce-3 reactor  
NT2 bruce-4 reactor  
NT2 bruce-5 reactor  
NT2 bruce-6 reactor  
NT2 bruce-7 reactor  
NT2 bruce-8 reactor  
NT2 cernavoda-1 reactor  
NT2 cordoba reactor  
NT2 darlington-1 reactor  
NT2 darlington-2 reactor  
NT2 darlington-3 reactor  
NT2 darlington-4 reactor  
NT2 douglas point ontario reactor  
NT2 embalse reactor  
NT2 gentilly-2 reactor  
NT2 gentilly reactor  
NT2 kaiga-1 reactor  
NT2 kaiga-2 reactor  
NT2 kakrapar-1 reactor  
NT2 kakrapar-2 reactor  
NT2 kanupp reactor  
NT2 npd reactor  
NT2 pickering-1 reactor  
NT2 pickering-2 reactor  
NT2 pickering-3 reactor  
NT2 pickering-4 reactor  
NT2 pickering-5 reactor  
NT2 pickering-6 reactor  
NT2 pickering-7 reactor  
NT2 pickering-8 reactor  
NT2 point lepreau-1 reactor  
NT2 point lepreau-2 reactor  
NT2 qinshan-3-1 reactor  
NT2 qinshan-3-2 reactor  
NT2 rajasthan-1 reactor  
NT2 rajasthan-2 reactor  
NT2 rajasthan-3 reactor  
NT2 rajasthan-4 reactor  
NT2 wolsung-1 reactor  
NT2 wolsung-2 reactor  
NT2 wolsung-3 reactor  
NT2 wolsung-4 reactor  
NT1 celestin reactor  
NT1 cirus reactor  
NT1 cp-3 reactor  
NT1 cp-3m reactor  
NT1 cp-5 reactor  
NT1 dca reactor  
NT1 dhruva reactor  
NT1 dido reactor  
NT1 dimple reactor  
NT1 diorit reactor  
NT1 dmtr reactor  
NT1 dr-3 reactor  
NT1 eco reactor  
NT1 el-1 reactor  
NT1 el-2 reactor  
NT1 el-3 reactor  
NT1 eole reactor  
NT1 es-salam reactor  
NT1 essor reactor  
NT1 fr-2 reactor  
NT1 fij-2 reactor  
NT1 frm-ii reactor  
NT1 grenoble reactor  
NT1 gtr reactor  
NT1 hfbr reactor  
NT1 hifar reactor  
NT1 hre-2 reactor  
NT1 hwctr reactor  
NT1 hwgcr type reactors  
NT2 bohunice a-1 reactor  
NT2 bohunice a-2 reactor  
NT2 el-4 reactor  
NT2 lucens reactor  
NT2 niederaichbach reactor  
NT1 hwlwr type reactors  
NT2 cirene reactor  
NT2 gentilly reactor  
NT2 jatr reactor  
NT1 hwrr reactor  
NT1 hwzpr reactor  
NT1 irr-2 reactor  
NT1 ispra-1 reactor  
NT1 jeep-2 reactor  
NT1 jrr-2 reactor  
NT1 jrr-3 reactor  
NT1 juno reactor  
NT1 k reactor  
NT1 l reactor  
NT1 maple reactor  
NT1 maple type reactors  
NT1 mitr reactor  
NT1 nbsr reactor  
NT1 nora reactor  
NT1 nru reactor  
NT1 nrx reactor  
NT1 p reactor  
NT1 pdp reactor  
NT1 pelinduna reactor  
NT1 phwr type reactors  
NT2 agesta reactor  
NT2 atucha-2 reactor  
NT2 atucha reactor  
NT2 bruce-1 reactor  
NT2 bruce-2 reactor  
NT2 bruce-3 reactor  
NT2 bruce-4 reactor  
NT2 bruce-5 reactor  
NT2 bruce-6 reactor  
NT2 bruce-7 reactor  
NT2 bruce-8 reactor  
NT2 cernavoda-1 reactor  
NT2 cordoba reactor  
NT2 cvtr reactor  
NT2 darlington-1 reactor  
NT2 darlington-2 reactor  
NT2 darlington-3 reactor  
NT2 darlington-4 reactor  
NT2 douglas point ontario reactor  
NT2 gentilly-2 reactor  
NT2 kaiga-1 reactor  
NT2 kaiga-2 reactor  
NT2 kaiga-3 reactor  
NT2 kaiga-4 reactor  
NT2 kakrapar-1 reactor  
NT2 kakrapar-2 reactor  
NT2 kalpakkam-1 reactor  
NT2 kalpakkam-2 reactor  
NT2 kanupp reactor

NT2 mzftr reactor  
NT2 narora-1 reactor  
NT2 narora-2 reactor  
NT2 npd reactor  
NT2 pickering-1 reactor  
NT2 pickering-2 reactor  
NT2 pickering-3 reactor  
NT2 pickering-4 reactor  
NT2 pickering-5 reactor  
NT2 pickering-6 reactor  
NT2 pickering-7 reactor  
NT2 pickering-8 reactor  
NT2 point lepreau-1 reactor  
NT2 point lepreau-2 reactor  
NT2 rajasthan-1 reactor  
NT2 rajasthan-2 reactor  
NT2 rajasthan-3 reactor  
NT2 rajasthan-4 reactor  
NT2 rajasthan-5 reactor  
NT2 rajasthan-6 reactor  
NT2 tarapur-3 reactor  
NT2 tarapur-4 reactor  
NT2 wolsung-1 reactor  
NT2 wolsung-2 reactor  
NT2 wolsung-3 reactor  
NT2 wolsung-4 reactor  
NT1 pik reactor  
NT1 pluto reactor  
NT1 prr reactor  
NT1 prtr reactor  
NT1 pse reactor  
NT1 r-1 reactor  
NT1 r-a reactor  
NT1 r-b reactor  
NT1 r reactor  
NT1 rb-3 reactor  
NT1 rtr reactor  
NT1 sghwr reactor  
NT1 spert-2 reactor  
NT1 taiwan research reactor  
NT1 tr-0 reactor  
NT1 venus reactor  
NT1 wr-1 reactor  
NT1 zed-2 reactor  
NT1 zeep reactor  
NT1 zerlina reactor

**heavy water moderator**

USE heavy water

**HEAVY WATER PLANTS**

INIS: 1978-11-24; ETDE: 1978-02-14

Plants for the production and/or upgrading of heavy water.

\*BT1 isotope separation plants  
RT heavy water  
RT isotope separation

**heavy water research reactor**

INIS: 2003-02-03; ETDE: 2003-01-24

CIAE, Beijing, China.

USE hwrr reactor

**heavy water zero power reactor**

2003-08-15

Esfahan Nuclear Technology Centre, Iran.

USE hwzpr reactor

**HEBER GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1975-10-01

BT1 geothermal fields  
RT california

**HECTOR REACTOR**

UKAEA, Winfrith, United Kingdom.

UF hot enriched carbon moderated thermal oscillator reactor

\*BT1 carbon dioxide cooled reactors  
\*BT1 enriched uranium reactors  
\*BT1 graphite moderated reactors  
\*BT1 materials testing reactors

- \*BT1 pulsed reactors
- \*BT1 research reactors
- \*BT1 thermal reactors

**hectorite**

USE montmorillonite

**HEDDUR**

2000-04-12

- \*BT1 aluminium base alloys
- \*BT1 copper alloys

**HEDENBERGITE**

INIS: 2000-04-12; ETDE: 1976-01-07

A black mineral of the clinopyroxene group.

- \*BT1 silicate minerals

**hedl**

INIS: 1985-12-10; ETDE: 2002-06-13

USE hanford engineering development laboratory

**HEDTA**

Hydroxyethylethylenediaminetriacetic acid.

UF hydroxyethylethylenediaminetriacetic acid

- \*BT1 amino acids
- BT1 chelating agents
- \*BT1 hydroxy acids

**HEF**

INIS: 1990-12-06; ETDE: 1980-10-27

To demonstrate breeder reactor fuel reprocessing.

(prior to December 1990, this concept was indexed by HOT EXPERIMENTAL FACILITY.)

UF hot experimental facility

- \*BT1 fuel reprocessing plants
- RT consolidated fuel reprocessing program
- RT pilot plants

**HEIDA**

UF hydroxyethyliminodiacetic acid

- \*BT1 amino acids
- BT1 chelating agents
- \*BT1 hydroxy acids

**heidelberg storage ring**

INIS: 1993-09-16; ETDE: 1993-11-08

USE tsr storage ring

**heidelberg triga-mk-1-dkfkz reactor**

INIS: 1993-11-08; ETDE: 2002-06-13

USE triga-1-heidelberg reactor

**HEIGHT**

2000-05-23

For elevation use LEVELS.

- BT1 dimensions
- NT1 scale height
- NT1 virtual height
- RT altitude
- RT levels

**HEINRICHITE**

2000-04-12

- \*BT1 oxide minerals
- \*BT1 uranium minerals
- RT arsenic oxides
- RT barium oxides
- RT uranium oxides

**HEISENBERG MODEL**

- \*BT1 crystal models
- RT electronic structure
- RT ferromagnetism
- RT phi4-field theory
- RT spin

**HEISENBERG PICTURE**

UF heisenberg representation

- RT quantum field theory
- RT quantum mechanics
- RT schroedinger picture

**heisenberg principle**

USE uncertainty principle

**heisenberg representation**

USE heisenberg picture

**heissdampfreaktoranlage**

USE hdr reactor

**HEITLER-LONDON THEORY**

1996-07-18

(Prior to March 1997 HEITLER-LONDON

WAVES was a valid ETDE descriptor.)

- UF heitler-london waves
- RT binding energy

**heitler-london waves**

2000-03-28

(Until July 1996 this was a valid descriptor.)

USE heitler-london theory

**HELA CELLS**

- \*BT1 tumor cells
- RT clone cells
- RT in vitro

**helac**

2000-04-12

(Prior to June 1991 this was a valid ETDE descriptor.)

USE linear accelerators

**HELIAC STELLARATORS**

INIS: 1995-09-14; ETDE: 1987-06-09

Helical magnetic axis stellarators.

- \*BT1 stellarators
- NT1 h-1 heliac
- NT1 hsx stellarator
- NT1 sheila heliac
- NT1 tj-ii heliac

**helianthus annuus**

USE sunflowers

**HELICAL CONFIGURATION**

- BT1 configuration
- RT dna
- RT magnetic field configurations
- RT molecular structure

**HELICAL INSTABILITY**

- UF screw instability
- \*BT1 plasma macroinstabilities

**HELICAL ROTARY SCREW EXPANDER**

INIS: 2000-04-12; ETDE: 1977-06-02

- UF lysholm engine
- RT rotary engines
- RT turbines

**HELICAL WAVEGUIDES**

BT1 waveguides

**HELICITY**

- BT1 particle properties
- RT angular momentum
- RT chirality
- RT spin

**HELICON RESONANCE**

- BT1 resonance
- RT superconductivity

**HELICON WAVES**

- \*BT1 electromagnetic radiation

**HELICOPTERS**

INIS: 1992-02-21; ETDE: 1982-04-09

BT1 aircraft

**HELIOS DEVICES**

- \*BT1 q devices

**HELIOS FACILITY**

INIS: 1995-03-28; ETDE: 1979-07-24

Large CO2 laser facility at Los Alamos for laser fusion experiments.

- RT antares facility
- RT carbon dioxide lasers
- RT lanl
- RT laser fusion reactors

**HELIOSPHERE**

INIS: 1987-02-25; ETDE: 1987-05-01

Influence zone of the sun in interstellar space, delimited by the ejected solar plasma.

- \*BT1 solar atmosphere

**HELIOSTATS**

INIS: 1992-03-27; ETDE: 1976-01-07

- \*BT1 solar equipment
- NT1 solar tracking systems
- RT central receiver test facility
- RT control systems
- RT solar tracking

**helioliths**

USE bollworm

**HELIOTRON**

1998-09-29

- \*BT1 closed plasma devices
- RT lhd device
- RT torsatron stellarators

**HELIOTRON-E STELLARATOR**

INIS: 1999-07-26; ETDE: 1999-09-03

Plasma Physics Laboratory, Kyoto University, Japan.

- \*BT1 stellarators

**HELIUM**

- \*BT1 rare gases
- RT cryogenic fluids
- RT helium embrittlement

**HELIUM 10**

- \*BT1 even-even nuclei
- \*BT1 helium isotopes
- \*BT1 light nuclei

**HELIUM 2**

INIS: 1980-02-26; ETDE: 1980-03-29

- \*BT1 helium isotopes
- \*BT1 light nuclei

**HELIUM 3**

- \*BT1 even-odd nuclei
- \*BT1 helium isotopes
- \*BT1 light nuclei
- \*BT1 stable isotopes
- NT1 helium 3 a
- NT1 helium 3 al
- NT1 helium 3 b
- RT helium 3 beams
- RT quantum fluids

**HELIUM 3 A**

INIS: 1975-10-23; ETDE: 1975-08-19

A phase of superfluid helium 3.

- \*BT1 helium 3
- RT superfluidity

**HELIUM 3 A1**

INIS: 1981-08-31; ETDE: 1977-06-02

A phase of superfluid helium 3.

- \*BT1 helium 3
- RT superfluidity

**HELIUM 3 B**

INIS: 1975-10-23; ETDE: 1975-08-19

A phase of superfluid helium 3.

- \*BT1 helium 3

*RT* superfluidity

**HELIUM 3 BEAMS**  
 \*BT1 ion beams  
*RT* helium 3

**HELIUM 3 REACTIONS**  
 \*BT1 charged-particle reactions

**HELIUM 3 TARGET**  
*ETDE: 1976-07-09*  
 BT1 targets

**HELIUM 4**  
 \*BT1 even-even nuclei  
 \*BT1 helium isotopes  
 \*BT1 light nuclei  
 \*BT1 stable isotopes  
 NT1 helium i  
 NT1 helium ii  
*RT* helium 4 beams  
*RT* lambda point  
*RT* quantum fluids

**HELIUM 4 BEAMS**  
 \*BT1 ion beams  
 NT1 alpha beams  
*RT* helium 4

*helium 4 reactions*  
 USE alpha reactions

**HELIUM 4 TARGET**  
*ETDE: 1976-07-09*  
 BT1 targets

**HELIUM 5**  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 helium isotopes  
 \*BT1 light nuclei

**HELIUM 6**  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 helium isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes

**HELIUM 6 REACTIONS**  
*INIS: 1985-07-22; ETDE: 1985-08-08*  
 \*BT1 heavy ion reactions

**HELIUM 6 TARGET**  
*INIS: 1986-01-21; ETDE: 1977-05-07*  
 BT1 targets

**HELIUM 7**  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 helium isotopes  
 \*BT1 light nuclei

**HELIUM 8**  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 helium isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes

**HELIUM 8 BEAMS**  
*INIS: 1985-05-15; ETDE: 1985-07-18*  
 \*BT1 radioactive ion beams  
 \*BT1 secondary beams

**HELIUM 8 REACTIONS**  
*INIS: 1985-07-22; ETDE: 1985-08-08*  
 \*BT1 heavy ion reactions

**HELIUM 9**  
 \*BT1 even-odd nuclei  
 \*BT1 helium isotopes  
 \*BT1 light nuclei

**HELIUM ASH**  
*INIS: 1990-02-28; ETDE: 1990-03-15*  
*A thermonuclear reaction product.*  
 \*BT1 helium ions  
*RT* alpha particles  
*RT* pumped limiters  
*RT* thermonuclear reactions

**HELIUM BURNING**  
*INIS: 1978-09-28; ETDE: 1978-10-20*  
*Astrophysical processes only.*  
 BT1 star burning  
*RT* dwarf stars  
*RT* nucleosynthesis  
*RT* red giant stars  
*RT* star evolution

**HELIUM CHLORIDES**  
 \*BT1 chlorides  
 \*BT1 helium compounds

**HELIUM COMPLEXES**  
 BT1 complexes

**HELIUM COMPOUNDS**  
*1996-06-28*  
*UF helium hydroxides*  
*UF helium oxides*  
 BT1 rare gas compounds  
 NT1 helium chlorides  
 NT1 helium hydrides  
 NT1 helium tritides

**HELIUM COOLED REACTORS**  
*1998-01-29*  
 \*BT1 gas cooled reactors  
 NT1 avr reactor  
 NT1 dragon reactor  
 NT1 ebor reactor  
 NT1 egcr reactor  
 NT1 fulton-1 reactor  
 NT1 fulton-2 reactor  
 NT1 gcr reactor  
 NT1 gcre reactor  
 NT1 htr-10 reactor  
 NT1 htr reactor  
 NT1 iea-zpr reactor  
 NT1 peach bottom-1 reactor  
 NT1 schmehausen-2 reactor  
 NT1 summit-1 reactor  
 NT1 summit-2 reactor  
 NT1 thtr-300 reactor  
 NT1 uhtrix reactor  
 NT1 vg-400 reactor  
 NT1 vgr-50 reactor  
 NT1 vhr reactor  
 NT1 vidal-1 reactor  
 NT1 vidal-2 reactor  
 NT1 vrain reactor  
*RT* htgr type reactors

**HELIUM DILUTION REFRIGERATION**  
 \*BT1 refrigeration  
*RT* cryogenics  
*RT* helium dilution refrigerators  
*RT* refrigerators

**HELIUM DILUTION REFRIGERATORS**  
*1982-06-09*  
 BT1 refrigerators  
*RT* cryostats  
*RT* helium dilution refrigeration

**HELIUM EMBRITTLEMENT**  
*INIS: 1992-06-17; ETDE: 1985-03-26*  
*A decrease in the fracture strength of metals due to the incorporation of helium in the metal lattice.*  
 BT1 embrittlement

*RT* brittleness  
*RT* fracture properties  
*RT* helium  
*RT* interstitial helium generation

*helium generation*  
*INIS: 1990-12-15; ETDE: 1983-04-28*  
 (Prior to December 1990, this was a valid descriptor.)  
 USE interstitial helium generation

**HELIUM HYDRIDES**  
 \*BT1 helium compounds  
 \*BT1 hydrides

*helium hydroxides*  
*1996-06-28*  
 (Until June 1996 this was a valid descriptor.)  
 USE helium compounds  
 USE hydroxides

**HELIUM I**  
*The phase of liquid helium-4 which is stable at temperatures above the lambda point (about 2.2 K).*  
 \*BT1 helium 4

**HELIUM II**  
*The phase of liquid helium-4 which is stable at temperatures between absolute zero and the lambda point (about 2.2 K).*  
 \*BT1 helium 4  
 \*BT1 quantum fluids  
*RT* film flow  
*RT* landau liquid helium theory  
*RT* superfluidity

**HELIUM IONS**  
 \*BT1 ions  
 NT1 helium ash  
*RT* alpha particles

**HELIUM ISOTOPES**  
*1999-07-16*  
 BT1 isotopes  
 NT1 helium 10  
 NT1 helium 2  
 NT1 helium 3  
 NT2 helium 3 a  
 NT2 helium 3 a1  
 NT2 helium 3 b  
 NT1 helium 4  
 NT2 helium i  
 NT2 helium ii  
 NT1 helium 5  
 NT1 helium 6  
 NT1 helium 7  
 NT1 helium 8  
 NT1 helium 9

*helium jet method*  
*INIS: 1984-04-04; ETDE: 2002-06-13*  
 USE reaction product transport systems

*helium method*  
 USE isotope dating

**HELIUM-NEON LASERS**  
*INIS: 1976-05-05; ETDE: 1976-06-07*  
 \*BT1 gas lasers

*helium oxides*  
*2000-04-12*  
 (Prior to July 1996 this was a valid ETDE descriptor.)  
 USE helium compounds  
 USE oxides

*helium production rates*  
*INIS: 2000-04-12; ETDE: 1979-09-26*  
 USE interstitial helium generation

**HELIUM TRITIDES**

1977-09-06

- \*BT1 helium compounds
- \*BT1 tritides

**HELIUM-XENON LASERS**

INIS: 1992-08-11; ETDE: 1980-05-06

- \*BT1 gas lasers

**helmholtz, free energy**

USE free energy

**HELMHOLTZ INSTABILITY**

UF kelvin-helmholtz instability

- \*BT1 plasma macroinstabilities
- RT fluid flow

**HELMHOLTZ THEOREM**

RT vectors

**helminths**

(Prior to September 2005 this was a valid descriptor.)

- SEE parasites
- SEE platyhelminths

**HELVITE**

2000-04-12

- \*BT1 silicate minerals
- RT beryllium silicates
- RT iron silicates
- RT manganese silicates

**hemagglutination**

USE hemagglutinins

**HEMAGGLUTININS**

UF hemagglutination

- \*BT1 agglutinins
- NT1 concanavalin a
- NT1 phytohemagglutinin
- RT blood groups
- RT erythrocytes

**hemangiomas**

USE angiomas

**hematin**

USE heme

**HEMATINICS**

INIS: 1993-08-26; ETDE: 1981-04-20

- \*BT1 hematologic agents
- NT1 folic acid
- NT1 intrinsic factor
- NT1 vitamin b-12
- RT anticoagulants
- RT blood substitutes
- RT coagulants
- RT fibrinolytic agents

**HEMATITE**

A common iron mineral.

- \*BT1 iron ores
- \*BT1 oxide minerals
- RT iron oxides
- RT limonite

**HEMATOLOGIC AGENTS**

INIS: 1984-05-24; ETDE: 1981-04-20

- BT1 drugs
- NT1 anticoagulants
  - NT2 coumarin
  - NT2 heparin
  - NT2 psoralen
- NT1 blood substitutes
  - NT2 dextran
  - NT2 pectins
  - NT2 pvp
- NT1 coagulants
  - NT2 protamines
- NT1 fibrinolytic agents

- NT2 fibrinolysin
- NT2 plasminogen
- NT2 urokinase
- NT1 hematinics
  - NT2 folic acid
  - NT2 intrinsic factor
  - NT2 vitamin b-12
- RT blood
- RT blood coagulation
- RT hemic diseases

**HEMATOLOGY**

- BT1 medicine
- RT hemic diseases

**HEMATOMAS**

INIS: 1995-09-18; ETDE: 1977-06-21

- RT blood coagulation
- RT hemorrhage
- RT injuries

**hematopoiesis**

USE blood formation

**HEMATOPOIETIC SYSTEM**

- BT1 body
- NT1 bone marrow
- RT blood formation
- RT erythropoiesis

**hematoporphyrin (heme)**

USE heme

**HEMATOPORPHYRINS**

- BT1 pigments
- \*BT1 porphyrins
- RT hemoglobin

**HEMATOXYLIN**

1996-06-28

- BT1 dyes
- \*BT1 polyphenols
- \*BT1 pyrans

**HEME**

- UF hematin
- UF hematoporphyrin (heme)
- UF hemin
- BT1 pigments
- \*BT1 porphyrins
- RT carboxyhemoglobin
- RT hemoglobin
- RT iron
- RT methemoglobin

**HEMIACETAL DEHYDROGENASES**

INIS: 2000-04-03; ETDE: 1981-01-12

Code number 1.1.

- \*BT1 oxidoreductases
- NT1 alcohol dehydrogenase
- NT1 lactate dehydrogenase

**HEMIC DISEASES**

- UF blood diseases
- BT1 diseases
- NT1 anemias
  - NT2 ischemia
  - NT2 megaloblastic anemia
  - NT2 sickle cell anemia
  - NT2 thalassemia
- NT1 hemophilia
- NT1 leukopenia
  - NT2 lymphopenia
- NT1 polycythemia
- NT1 purpura
  - RT blood
  - RT blood chemistry
  - RT hematologic agents
  - RT hematology
  - RT hemolysis
  - RT hemorrhage
  - RT malaria

RT splenomegaly

**HEMICELLULOSE**

INIS: 2000-04-12; ETDE: 1978-06-14

Group of complex carbohydrates, hexose and pentose sugars and sugar acids of uronic type, surrounding cellulose fibers of plant cells. No chemical relation to cellulose.

- \*BT1 polysaccharides
- NT1 xylans
  - RT biomass
  - RT cellulose
  - RT lignin
  - RT wood

**hemin**

USE heme

**HEMIPTERA**

- \*BT1 insects
- NT1 aphids

**HEMLOCKS**

INIS: 2000-04-12; ETDE: 1988-02-02

Tsuga.

- \*BT1 conifers

**HEMOCYANIN**

- \*BT1 metalloproteins
- RT blood

**HEMOGLOBIN**

- \*BT1 globins
- BT1 pigments
- \*BT1 porphyrins
- NT1 methemoglobin
  - RT anemias
  - RT carboxyhemoglobin
  - RT erythrocytes
  - RT hematoporphyrins
  - RT heme
  - RT hemosiderin
  - RT iron
  - RT protoporphyrins
  - RT respiration

**HEMOLYSINS**

1999-03-01

- BT1 antibodies
- RT complement
- RT hemolysis

**HEMOLYSIS**

The alteration, dissolution, or destruction of red blood cells in such a manner that hemoglobin is liberated into the medium in which the cells are suspended.

- \*BT1 decomposition
- BT1 lysis
- BT1 pathological changes
  - RT anemias
  - RT erythrocytes
  - RT hemic diseases
  - RT hemolysins
  - RT immunity

**HEMOPHILIA**

INIS: 1987-03-24; ETDE: 1987-11-24

- \*BT1 hemic diseases
- \*BT1 hereditary diseases
  - RT blood coagulation
  - RT hemorrhage

**hemophilus**

USE haemophilus

**hemopoiesis**

USE blood formation

**HEMORRHAGE**

- BT1 pathological changes
- BT1 symptoms
- RT anemias

RT blood  
 RT blood coagulation  
 RT blood vessels  
 RT hematomas  
 RT hemic diseases  
 RT hemophilia

**HEMOSIDERIN**

\*BT1 metalloproteins  
 BT1 pigments  
 \*BT1 porphyrins  
 RT blood  
 RT ferritin  
 RT hemoglobin  
 RT iron

**hemostatics**

INIS: 2000-04-12; ETDE: 1981-04-20

See also **BLOOD COAGULATION FACTORS**  
 and its narrower terms.

(Prior to March 1997 this was a valid ETDE  
 descriptor.)

USE coagulants

**hens**

USE chickens

**HEPARIN**

\*BT1 anticoagulants  
 \*BT1 mucopolysaccharides  
 \*BT1 organic sulfur compounds  
 RT mast cells

**heparin antagonists**

INIS: 2000-04-12; ETDE: 1981-04-20

(Prior to April 1994, this was a valid ETDE  
 descriptor.)

USE coagulants

**HEPATECTOMY**

\*BT1 surgery  
 RT digestive system diseases  
 RT liver

**HEPATITIS**

\*BT1 digestive system diseases  
 NT1 infectious hepatitis  
 RT jaundice  
 RT liver

**hepatitis (infectious)**

USE infectious hepatitis

**hepatocytes**

INIS: 1983-06-30; ETDE: 1982-07-08

USE liver cells

**HEPATOMAS**

\*BT1 carcinomas  
 RT liver

**HEPTANE**

\*BT1 alkanes

**HEPTANOIC ACID**

UF *enanthic acid*  
 UF *heptylic acid*  
 \*BT1 monocarboxylic acids

**HEPTENES**

\*BT1 alkenes

**HEPTYL RADICALS**

\*BT1 alkyl radicals

**heptylic acid**

USE heptanoic acid

**HERA STORAGE RING**

INIS: 1984-05-28; ETDE: 1984-06-14

*Hadron-Elektron-Ring Anlage.*

BT1 storage rings

**HERALD REACTOR**

*UK Ministry of Defence, Aldermaston,  
 Reading, Berkshire, United Kingdom.*

\*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

**HERBICIDES**

BT1 pesticides

**HERBIG-HARO OBJECTS**

INIS: 2000-04-12; ETDE: 1989-04-19

*Small faint patches of nebulosity seen on  
 surfaces of many dark clouds believed to be a  
 very early phase in stellar evolution.*

RT nebulae  
 RT star evolution

**HERBS**

1996-11-13

UF *coleus*  
 BT1 plants  
 NT1 marihuana  
 NT1 meadow foam

**HEREDITARY DISEASES**

UF *xeroderma pigmentosum*  
 BT1 diseases  
 NT1 downs syndrome  
 NT1 hemophilia  
 RT chromosomal aberrations  
 RT congenital diseases  
 RT genetics  
 RT mutants  
 RT mutations  
 RT sickle cell anemia  
 RT sister chromatid exchanges

**heredity**

USE genetics

**hermex process**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE reprocessing

**HERMITE POLYNOMIALS**

\*BT1 polynomials

**HERMITIAN MATRIX**

BT1 matrices

**HERMITIAN OPERATORS**

BT1 mathematical operators

**HERO REACTOR**

UF *hot experimental reactor zero energy*

\*BT1 carbon dioxide cooled reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 graphite moderated reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 zero power reactors

**HEROIN**

1996-07-08

UF *diacetylmorphine*  
 \*BT1 narcotics  
 RT codeine  
 RT morphine

**HERPES SIMPLEX**

\*BT1 skin diseases  
 \*BT1 viral diseases  
 RT viruses

**HERPES ZOSTER**

\*BT1 nervous system diseases  
 \*BT1 viral diseases  
 RT nerves  
 RT viruses

**HERTZSPRUNG-RUSSELL****DIAGRAM**

\*BT1 diagrams  
 RT star evolution

**hesperidin**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE flavones  
 USE glycosides

**HETEROCHROMATIN**

BT1 chromatin  
 RT chromosome breakage

**HETEROCHROMOSOMES**

UF *sex chromosomes*  
 BT1 chromosomes  
 NT1 x chromosome  
 NT2 human x chromosome  
 NT1 y chromosome  
 NT2 human y chromosome  
 RT chromosomal aberrations  
 RT sex

**HETEROCYCLIC ACIDS**

1996-10-22

UF *biliverdin*  
 UF *diodrast*  
 UF *iodopyracet*  
 UF *kynurenic acid*  
 UF *urobilinogen*  
 \*BT1 carboxylic acids  
 \*BT1 heterocyclic compounds  
 NT1 bilirubin  
 NT1 biotin  
 NT1 histidine  
 NT1 hydroxyproline  
 NT1 lysergic acid  
 NT1 nicotinic acid  
 NT1 orotic acid  
 NT1 picolinic acid  
 NT1 porphyrins  
 NT2 chlorins  
 NT2 chlorophyll  
 NT2 hematoporphyrins  
 NT2 heme  
 NT2 hemoglobin  
 NT3 methemoglobin  
 NT2 hemosiderin  
 NT2 myoglobin  
 NT2 protoporphyrins  
 NT1 proline  
 NT1 rhodamines  
 NT1 thioctic acid  
 NT1 tryptophan  
 NT1 urocanic acid  
 RT nicotinamide

**HETEROCYCLIC COMPOUNDS**

1996-10-23

UF *guanethidine*  
 BT1 organic compounds  
 NT1 azaarenes  
 NT2 acridines  
 NT3 acridine orange  
 NT3 flavines  
 NT4 acriflavine  
 NT4 proflavine  
 NT2 carbazoles  
 NT2 indoles  
 NT3 indigo  
 NT3 indocyanine green  
 NT3 lysergic acid  
 NT3 reserpine  
 NT3 strychnine  
 NT3 tryptamines  
 NT4 melatonin  
 NT4 serotonin  
 NT5 bufotenine

NT3 tryptophan  
 NT3 vinblastine  
 NT2 phenanthrolines  
 NT3 feroin  
 NT3 phenanthroline-ortho  
 NT2 pteridines  
 NT3 aminopterin  
 NT3 folic acid  
 NT2 purines  
 NT3 adenines  
 NT4 kinetin  
 NT3 guanine  
 NT3 guanosine  
 NT3 hypoxanthine  
 NT3 inosine  
 NT3 mercaptopurine  
 NT3 xanthines  
 NT4 caffeine  
 NT4 theobromine  
 NT4 theophylline  
 NT4 uric acid  
 NT2 quinolines  
 NT3 ferron  
 NT3 oxine  
 NT3 quinaldine  
 NT1 azines  
 NT2 phenothiazines  
 NT3 chlorpromazine  
 NT3 methylene blue  
 NT2 pyrazines  
 NT3 phenazine  
 NT3 piperazines  
 NT2 pyridazines  
 NT3 phthalazines  
 NT4 luminol  
 NT2 pyridines  
 NT3 acridines  
 NT4 acridine orange  
 NT4 flavines  
 NT5 acriflavine  
 NT5 proflavine  
 NT3 bipyridines  
 NT3 nicotinamide  
 NT3 nicotine  
 NT3 nicotinic acid  
 NT3 picolines  
 NT4 picolinic acid  
 NT3 piperidines  
 NT4 dipyrindamole  
 NT4 pethidine  
 NT4 triacetoneamine-n-oxyl  
 NT3 pyridine  
 NT3 pyridinium compounds  
 NT3 pyridoxal  
 NT3 pyridoxine  
 NT3 pyridoxylidene-glutamate  
 NT3 pyridylazonaphthol  
 NT3 pyridylazoresorcinol  
 NT3 quinolines  
 NT4 ferron  
 NT4 oxine  
 NT4 quinaldine  
 NT2 pyrimidines  
 NT3 alloxan  
 NT3 barbiturates  
 NT4 nembutal  
 NT4 phenobarbital  
 NT3 cytidine  
 NT3 cytosine  
 NT3 deoxycytidine  
 NT3 thiamine  
 NT3 thymidine  
 NT3 uracils  
 NT4 bromouracils  
 NT5 budr  
 NT4 chlorouracils  
 NT4 deoxyuridine  
 NT4 fluorouracils  
 NT5 fudr

NT4 iodouracils  
 NT5 iododeoxyuridine  
 NT4 orotic acid  
 NT4 thiouracil  
 NT4 thymine  
 NT4 uridine  
 NT2 triazines  
 NT3 cyanurates  
 NT3 melamine  
 NT1 azoles  
 NT2 carbazoles  
 NT2 imidazoles  
 NT3 allantoin  
 NT3 benzimidazoles  
 NT3 biotin  
 NT3 creatinine  
 NT3 histamine  
 NT3 histidine  
 NT3 hydantoins  
 NT3 metronidazole  
 NT3 misonidazole  
 NT3 urocanic acid  
 NT2 oxadiazoles  
 NT2 oxazoles  
 NT3 benzoxazoles  
 NT3 popop  
 NT2 pyrazoles  
 NT3 indazoles  
 NT3 pyrazolines  
 NT4 antipyrine  
 NT2 pyrroles  
 NT3 bilirubin  
 NT3 indoles  
 NT4 indigo  
 NT4 indocyanine green  
 NT4 lysergic acid  
 NT4 reserpine  
 NT4 strychnine  
 NT4 tryptamines  
 NT5 melatonin  
 NT5 serotonin  
 NT6 bufotenine  
 NT4 tryptophan  
 NT4 vinblastine  
 NT3 pyrrolidines  
 NT4 hydroxyproline  
 NT4 nicotine  
 NT4 proline  
 NT3 pyrrolidones  
 NT4 pvp  
 NT2 tetrazoles  
 NT3 tetrazolium  
 NT2 thiadiazoles  
 NT2 thiazoles  
 NT3 benzothiazoles  
 NT3 saccharin  
 NT3 thiamine  
 NT2 triazoles  
 NT1 bedt-ttf  
 NT1 dioxane  
 NT1 dioxin  
 NT1 furans  
 NT2 benzofurans  
 NT2 furfural  
 NT2 tetrahydrofuran  
 NT3 mthf  
 NT1 heterocyclic acids  
 NT2 bilirubin  
 NT2 biotin  
 NT2 histidine  
 NT2 hydroxyproline  
 NT2 lysergic acid  
 NT2 nicotinic acid  
 NT2 orotic acid  
 NT2 picolinic acid  
 NT2 porphyrins  
 NT3 chlorins  
 NT3 chlorophyll  
 NT3 hematoporphyrins

NT3 heme  
 NT3 hemoglobin  
 NT4 methemoglobin  
 NT3 hemosiderin  
 NT3 myoglobin  
 NT3 protoporphyrins  
 NT2 proline  
 NT2 rhodamines  
 NT2 thioctic acid  
 NT2 tryptophan  
 NT2 urocanic acid  
 NT1 heterocyclic oxygen compounds  
 NT2 pyrans  
 NT3 coumarin  
 NT3 hematoxylin  
 NT3 pyrones  
 NT3 quercetin  
 NT3 tetrahydropyran  
 NT1 imipramine  
 NT1 isoalloxazines  
 NT2 diaphorase  
 NT1 lactones  
 NT2 coumarin  
 NT2 gibberellic acid  
 NT1 morpholines  
 NT1 phthalocyanines  
 NT1 polycyclic sulfur heterocycles  
 NT1 psoralen  
 NT1 tetrathiafulvalene  
 NT1 thionaphthenes  
 NT1 thionine  
 NT1 thiophene  
 NT1 tmtsf  
 NT1 trioxanes  
 NT1 tta  
 NT1 ttf-tcnq  
 RT cyanine dyes  
 RT epoxides  
 RT lactams  
 RT squarylium dyes

## HETEROCYCLIC OXYGEN COMPOUNDS

INIS: 1984-04-04; ETDE: 1978-08-08

UF oxetane

UF polytetraoxane

\*BT1 heterocyclic compounds

\*BT1 organic oxygen compounds

NT1 pyrans

NT2 coumarin

NT2 hematoxylin

NT2 pyrones

NT2 quercetin

NT2 tetrahydropyran

RT furans

## HETERODYNE RECEIVERS

1976-02-11

UF superheterodyne receivers

\*BT1 microwave equipment

\*BT1 radio equipment

RT frequency converters

RT radiometers

## HETEROGENEOUS CATALYSIS

INIS: 1992-02-22; ETDE: 1984-07-20

Catalysis occurring at a phase boundary, usually a solid-fluid interface.

BT1 catalysis

## HETEROGENEOUS EFFECTS

Effects of dissimilar constituents on neutron diffusion in shielding or reactor cores.

RT absorption

RT homogenization methods

RT neutron flux

RT reactor kinetics

RT reservoir rock

RT shielding

**HETEROGENEOUS REACTOR CORES**

*INIS: 1981-05-11; ETDE: 1981-06-13*  
*Reactor cores using various types of fuel simultaneously.*

- \*BT1 reactor cores
- RT fbr type reactors

**HETEROJUNCTIONS**

*INIS: 1982-08-27; ETDE: 1981-07-18*  
 (Prior to July 1981, this concept in ETDE was indexed to SEMICONDUCTOR JUNCTIONS.)

- BT1 semiconductor junctions
- RT homojunctions
- RT quantum wells

**heteropoly acids**

*INIS: 2000-04-12; ETDE: 1979-08-08*  
*Complex acids of metals, whose specific gravity is >4, with phosphoric acid. See also MOLYBDOPHOSPHORIC ACID and TUNGSTOPHOSPHORIC ACID.*  
 (Prior to March 1997 this was a valid ETDE descriptor.)

- USE inorganic acids

**HETEROPOLYANIONS**

- \*BT1 anions
- BT1 complexes
- RT molybdophosphoric acid
- RT tungstophosphoric acid

**heterozygotes**

- USE hybridization

**HEULANDITE**

*INIS: 2000-04-12; ETDE: 1976-01-23*  
*A zeolite mineral.*

- \*BT1 zeolites

**HEUSLER ALLOYS**

- \*BT1 aluminium alloys
- \*BT1 copper base alloys
- \*BT1 corrosion resistant alloys
- \*BT1 manganese alloys
- RT brass
- RT bronze

**HEVEA**

- \*BT1 rubber trees

**HEW-305 REACTOR**

*2000-04-12*  
*US AEC, Richland, Washington, USA.*

- UF hanford 305 test reactor
- \*BT1 graphite moderated reactors
- \*BT1 natural uranium reactors
- \*BT1 research reactors
- \*BT1 test reactors
- \*BT1 thermal reactors

**hewlett-packard computers**

- USE hp computers

**HEXADECANE**

- \*BT1 alkanes

**HEXADECANOIC ACID**

- UF palmitic acid
- \*BT1 monocarboxylic acids

**HEXADECAPLES**

*1977-11-02*  
 BT1 multipoles

**hexagonal close packed**

- USE hcp lattices

**HEXAGONAL CONFIGURATION**

- BT1 configuration

**HEXAGONAL LATTICES**

- \*BT1 crystal lattices
- NT1 hcp lattices

**hexahydropyridines**

- USE piperidines

**hexamethylenediaminetetraacetic acid**

*1996-10-23*

(Prior to March 1997 HMDTA was used for this concept in ETDE.)

- USE amino acids
- USE chelating agents

**hexamethylenetetramine**

- USE urotropin

**HEXANE**

- \*BT1 alkanes
- RT cyclohexane

**HEXANOIC ACID**

- UF caproic acid
- \*BT1 monocarboxylic acids

**HEXANOLS**

- UF hexyl alcohols
- \*BT1 alcohols

**HEXAPOLAR CONFIGURATIONS**

- \*BT1 multipolar configurations

**HEXAPOLES**

- BT1 multipoles

**HEXENES**

- \*BT1 alkenes

**HEXOKINASE**

- \*BT1 phosphotransferases

**HEXOSAMINES**

- \*BT1 amines
- \*BT1 hexoses
- NT1 glucosamine

**HEXOSES**

- UF cycasin
- UF fucose
- \*BT1 monosaccharides
- NT1 fructose
- NT1 galactose
- NT1 glucose
- NT1 hexosamines
- NT2 glucosamine
- NT1 mannose
- NT1 sorbose

**HEXOSYL TRANSFERASES**

*INIS: 2000-04-12; ETDE: 1981-06-13*  
*Code number 2.4.1.*

- \*BT1 glycosyl transferases

**hexyl alcohols**

- USE hexanols

**HEXYL RADICALS**

- \*BT1 alkyl radicals

**HEYSHAM-A REACTOR**

*Heysham, Lancashire, United Kingdom.*

- \*BT1 agr type reactors
- \*BT1 carbon dioxide cooled reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**HEYSHAM-B REACTOR**

*Heysham, Lancashire, United Kingdom.*

- \*BT1 agr type reactors
- \*BT1 carbon dioxide cooled reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**hf radiation**

- USE short wave radiation

**HFBR REACTOR**

*Association of Universities Inc., Upton, New York, USA.*

- UF brookhaven high flux beam reactor
- \*BT1 enriched uranium reactors
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- RT tristan separator

**HFETR REACTOR**

*INIS: 1986-04-03; ETDE: 1986-06-12*

- UF high flux engineering test reactor
- \*BT1 enriched uranium reactors
- \*BT1 materials testing reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**HFIR REACTOR**

*ORNL, Oak Ridge, Tennessee, USA.*

- UF high flux isotope reactor
- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 test reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**HFR REACTOR**

*Commission of the European Communities, Joint Research Centre, Petten, Netherlands.*

- UF high flux reactor petten
- UF high-flux reactor petten
- UF petten high flux reactor
- \*BT1 enriched uranium reactors
- \*BT1 materials testing reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**hfs**

- USE hyperfine structure

**HG12 SEMICONDUCTOR DETECTORS**

*INIS: 1975-12-09; ETDE: 1976-01-26*  
*Mercury iodide semiconductor detectors.*

- UF mercuric iodide detectors
- \*BT1 semiconductor detectors

**hhirf**

*INIS: 2000-04-12; ETDE: 1977-07-23*  
 (Prior to July 1985, this was a valid ETDE descriptor.)

- USE hhirf accelerator

**HHIRF ACCELERATOR**

*INIS: 1978-08-14; ETDE: 1978-10-20*

- UF hhirf
- UF holifield heavy ion research facility
- \*BT1 heavy ion accelerators
- RT heavy ions
- RT ornl isochronous cyclotron

**HIBERNATION**

- UF aestivation
- RT hypothermia
- RT sleep





**high flux engineering test reactor**

INIS: 1993-11-08; ETDE: 2002-06-13  
USE hfetr reactor

**high flux isotope reactor**

USE hfir reactor

**high flux neutron source facility**

INIS: 1994-07-01; ETDE: 1977-10-20  
USE neutron source facilities

**high flux reactor petten**

USE hfr reactor

**high-flux reactor petten**

INIS: 1984-07-20; ETDE: 2002-06-13  
USE hfr reactor

**HIGH FREQUENCY AMPLIFIERS**

\*BT1 amplifiers

**HIGH-FREQUENCY DISCHARGES**

UF microwave discharges  
BT1 electric discharges  
RT high-frequency heating  
RT plasma production

**HIGH-FREQUENCY HEATING**

UF drift pumping  
\*BT1 plasma heating  
NT1 ecr heating  
NT1 icr heating  
NT1 lower hybrid heating  
NT1 magnetic-pumping heating  
NT2 acoustic heating  
NT2 collisional heating  
NT2 transit-time magnetic pumping  
RT high-frequency discharges

**high frequency radiation**

USE short wave radiation

**high-frequency radiation**

INIS: 1984-07-20; ETDE: 2002-06-13  
USE short wave radiation

**HIGH-HEAD HYDROELECTRIC POWER PLANTS**

INIS: 1997-10-03; ETDE: 1978-08-08  
Heads greater than 150 meters.  
\*BT1 hydroelectric power plants

**HIGH INCOME GROUPS**

INIS: 2000-04-12; ETDE: 1978-10-23  
\*BT1 minority groups  
RT income  
RT income distribution  
RT low income groups  
RT socio-economic factors

**HIGH-LEVEL RADIOACTIVE WASTES**

INIS: 1978-05-19; ETDE: 1978-01-23  
Wastes containing more than 100 microcuries/milliliter of radioactivity.  
\*BT1 radioactive wastes  
RT ceramic melters  
RT gorleben salt dome  
RT intermediate-level radioactive wastes  
RT low-level radioactive wastes  
RT monitored retrievable storage  
RT nuclear waste policy acts  
RT pamela plant  
RT us mrs project  
RT wipp

**high performance demonstration experiment**

INIS: 2000-04-12; ETDE: 1980-02-11  
USE mhd generator aedc

**HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY**

2004-07-16  
UF high-pressure liquid chromatography  
UF hplc  
\*BT1 liquid column chromatography

**high pressure**

(Prior to November 2003 this was a valid descriptor.)  
USE pressure range mega pa 10-100

**HIGH PRESSURE COOLANT INJECTION**

1979-01-18  
UF hpci  
\*BT1 eccs  
RT reactor safety

**high-pressure liquid chromatography**

2004-07-16  
USE high-performance liquid chromatography

**HIGH-PURITY GE DETECTORS**

INIS: 1975-12-09; ETDE: 1976-01-26  
UF ge detectors (high-purity)  
\*BT1 ge semiconductor detectors

**HIGH-RISE BUILDINGS**

2005-06-01  
Buildings at least 35 meters (12 stories) in height.  
UF multistory buildings  
UF skyscrapers  
BT1 buildings  
RT wind loads

**HIGH ROOMS**

2006-05-26  
Large, open spaces (usually more than 7m high) found in such structures as churches, concert halls, and industrial factories.  
SF halls  
RT atria  
RT buildings  
RT domed structures

**HIGH SEAS**

INIS: 1976-12-08; ETDE: 1994-08-10  
RT fishery laws  
RT maritime laws  
RT seas  
RT territorial waters

**HIGH SPIN STATES**

BT1 energy levels  
RT backbending  
RT spin

**high-sulfur crude oil**

INIS: 1993-03-23; ETDE: 1993-04-16  
USE sour crudes

**HIGH-TC SUPERCONDUCTORS**

INIS: 1990-08-24; ETDE: 1990-03-02  
Superconductors having critical temperature greater than 30 degrees Kelvin.  
\*BT1 type-ii superconductors  
RT chalcogenides  
RT hubbard model  
RT kosterlitz-thouless theory  
RT superconductivity

**high temperature**

1992-02-04  
(Prior to February 1992, this was a valid ETDE descriptor.)  
USE temperature range 0400-1000 k

**HIGH-TEMPERATURE FUEL CELLS**

1992-02-21  
\*BT1 fuel cells  
NT1 molten carbonate fuel cells  
NT1 solid oxide fuel cells

**high temperature gas cooled and graphite moderated reactors**

1993-11-08  
USE htgr type reactors

**high temperature lattice test reactor**

1993-11-08  
USE htltr reactor

**high temperature test reactor**

INIS: 1988-10-10; ETDE: 2002-06-13  
USE httr reactor

**high-temperature winkler process**

INIS: 2000-04-12; ETDE: 1982-10-05  
USE htw process

**high vacuum**

(Prior to November 2003 this was a valid descriptor.)  
SEE pressure range micro pa  
SEE pressure range milli pa

**high voltage alternating current systems**

INIS: 1996-01-30; ETDE: 1976-05-17  
USE hvac systems

**high voltage direct current systems**

2000-04-12  
USE hvdc systems

**HIGH-VOLTAGE PULSE GENERATORS**

\*BT1 pulse generators  
NT1 marx generators

**highland uranium mill**

1996-07-18  
(Until July 1996 this was a valid descriptor.)  
USE feed materials plants

**HIGHLY ENRICHED URANIUM**

80 - 100 per cent.  
\*BT1 enriched uranium

**highways**

1992-03-05  
USE roads

**HILACS**

UF heavy ion linear accelerators  
\*BT1 heavy ion accelerators  
\*BT1 linear accelerators  
NT1 atlas superconducting linac  
NT1 superhilac  
RT heavy ion reactions  
RT heavy ions

**HILBERT SPACE**

\*BT1 banach space

**HILBERT TRANSFORMATION**

\*BT1 integral transformations

**HILL EQUATION**

\*BT1 differential equations

**HILL-WHEELER THEORY**

RT collective model  
RT nuclear models

**HIMAC ACCELERATOR**

1993-10-03  
Heavy Ion Medical Accelerator, Chiba, Japan.  
\*BT1 heavy ion accelerators

\*BT1 synchrotrons

## HIMALAYAS

1977-11-02

BT1 mountains

## HINKLEY POINT-A REACTOR

*Hinkley Point, Somerset, United Kingdom.*

\*BT1 carbon dioxide cooled reactors  
\*BT1 magnox type reactors  
\*BT1 thermal reactors

## HINKLEY POINT-B REACTOR

*Hinkley Point, Somerset, United Kingdom.*

\*BT1 agr type reactors  
\*BT1 carbon dioxide cooled reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

## HIPERCO

2000-04-12

\*BT1 cobalt alloys  
\*BT1 iron base alloys

## HIPPOCAMPUS

1982-02-09

\*BT1 brain  
RT receptors

## HIPPURAN

UF iodohippurate  
UF iodohippurate-na  
UF n-o-iodobenzoylaminoacetate  
UF orthoiodohippurate  
UF sodium iodohippurate  
UF sodium n-o-iodobenzoylaminoacetate  
UF sodium orthoiodohippurate  
BT1 contrast media  
RT hippuric acid

## HIPPURIC ACID

UF benzoylaminoacetic acid  
UF benzoylglycine  
UF benzoylglycocol  
\*BT1 amino acids  
RT glycine  
RT hippuran

## hipure process

2000-04-12

*Process for gas purification if hydrogen sulfide must be removed to one ppm or less and carbon dioxide to only a few ppm.*

USE desulfurization

## hirfl

INIS: 2000-04-12; ETDE: 1983-03-24

*(Prior to July 1985, this was a valid ETDE descriptor.)*

USE hirfl cyclotron

## HIRFL CYCLOTRON

INIS: 1983-06-01; ETDE: 1983-07-07

*Heavy Ion Research Facility, Lanzhou, China.*

UF heavy ion research facility lanzhou cyclotron

UF hirfl  
UF lanzhou cyclotron

\*BT1 heavy ion accelerators  
\*BT1 isochronous cyclotrons

## hirohax process

INIS: 2000-04-12; ETDE: 1979-01-30

*Wet oxidation of adsorbed sulfur compounds to sulfuric acid and ammonium sulfate.*

*(Prior to January 1995, this was a valid ETDE descriptor.)*

USE desulfurization

## HIROSHIMA

\*BT1 japan  
RT a-bomb survivors  
RT little boy

RT nuclear explosions  
RT nuclear weapons

## HISPANIC AMERICANS

INIS: 2000-04-12; ETDE: 1982-01-21

UF american hispanics  
\*BT1 minority groups  
RT sociology

## HISPANIOLA

INIS: 1992-06-04; ETDE: 1980-02-11

\*BT1 greater antilles  
NT1 dominican republic  
NT1 haiti

## histaminase

1997-01-28

*(Until October 1996 this was a valid descriptor.)*

USE amine oxidases

## HISTAMINE

\*BT1 amines  
\*BT1 imidazoles  
RT allergy  
RT antihistaminics  
RT capillaries

## HISTIDINE

\*BT1 amino acids  
\*BT1 heterocyclic acids  
\*BT1 imidazoles

## HISTOCOMPATIBILITY COMPLEX

INIS: 2000-04-12; ETDE: 1988-04-15

BT1 antigens  
RT graft-host reaction  
RT immune system diseases  
RT immunosuppression  
RT lymphocytes

## HISTOLOGICAL TECHNIQUES

INIS: 1975-10-29; ETDE: 1975-12-16

RT animal tissues  
RT histology  
RT microscopy  
RT stains

## HISTOLOGY

RT animal tissues  
RT histological techniques  
RT microscopy

## HISTONES

\*BT1 proteins  
RT nucleoproteins  
RT nucleosomes

## HISTORICAL ASPECTS

INIS: 1983-06-02; ETDE: 1983-07-07

*For documents concerning the history of scientific and technical activities.*

RT archaeology  
RT cultural objects  
RT research programs  
RT sociology

## HITACHI COMPUTERS

INIS: 1992-08-18; ETDE: 1986-02-04

BT1 computers

## hitachi training reactor

USE htr reactor

## hitachi zosen process

INIS: 2000-04-12; ETDE: 1983-06-20

*A denitrification process in which ammonia is added to flue gas to selectively reduce nitrogen oxides to nitrogen in a catalytic reactor.*

*(Prior to January 1995, this was a valid ETDE descriptor.)*

SEE air pollution control

SEE denitrification

## HITREX-1 REACTOR

INIS: 1977-02-08; ETDE: 1977-04-13

\*BT1 graphite moderated reactors  
\*BT1 thermal reactors  
\*BT1 zero power reactors

## hitrex-2 reactor

INIS: 2000-04-12; ETDE: 1984-08-20

*(Prior to June 1991, this was a valid ETDE descriptor.)*

USE zero power reactors

## hiv

2004-05-28

USE aids virus

## hk 40

INIS: 2000-04-12; ETDE: 1979-08-09

USE steel-cr25ni20

## HL-1 TOKAMAK

INIS: 1989-12-08; ETDE: 1990-01-03

*Southwestern Institute of Physics, Leshan, Sichuan, China.*

\*BT1 tokamak devices

## HL-1M TOKAMAK

1998-09-24

*Southwestern Institute of Physics, Leshan, Sichuan, China.*

\*BT1 tokamak devices

## HL-2 TOKAMAK

1997-03-07

*Southwestern Institute of Physics, Leshan, Sichuan, China.*

\*BT1 tokamak devices

## HL-2A TOKAMAK

2003-01-17

*Southwestern Institute of Physics, Leshan, Sichuan, China.*

\*BT1 tokamak devices

## hmdta

1996-10-23

*Hexamethylenediaminetetraacetic acid.*

*(Until October 1996 this was a valid descriptor.)*

USE amino acids

USE chelating agents

## HNPf REACTOR

*US AEC, Hallam, Nebraska, USA.*

*Decommissioned in 1964.*

UF hallam nuclear power facility

\*BT1 enriched uranium reactors  
\*BT1 graphite moderated reactors  
\*BT1 power reactors  
\*BT1 sodium cooled reactors  
\*BT1 thermal reactors

## ho2

INIS: 1985-01-18; ETDE: 1982-11-08

USE hydroperoxy radicals

## HODGKINS DISEASE

UF lymphogranuloma malignum

UF lymphogranulomatosis

\*BT1 lymphomas

## HODOSCOPES

RT counting techniques

RT telescope counters

## hoelter process

INIS: 2000-04-12; ETDE: 1977-03-04

*Reaction of flue gas sulfur dioxide, dissolved in scrub water, with milk of lime in the presence of chloride ion to prevent the precipitation of carbonate and promote the*

*precipitation of calcium sulfite which is oxidized to calcium sulfate.*  
(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

### **hoffman process**

*INIS: 2000-04-12; ETDE: 1981-04-17*  
*Gasification process using entrained mixture of coal and alkali in superheated steam in ebullated catalyst bed.*  
(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

### **hog fuel**

*INIS: 2000-04-12; ETDE: 1979-04-11*  
USE wood wastes

### **hoger onderwijs reactor**

USE hor reactor

### **hoisting**

*INIS: 2000-04-12; ETDE: 1978-05-03*  
(Prior to March 1997 this was a valid ETDE descriptor.)

USE materials handling

### **HOISTS**

*1999-07-12*  
(Until July 1999 this information was indexed by CRANES.)

\*BT1 materials handling equipment

RT cranes

RT grabs

RT materials handling

RT winches

### **HOKURIKU-1 REACTOR**

*2000-04-12*  
\*BT1 power reactors

### **HOLE MOBILITY**

BT1 mobility

### **HOLES**

*Absence of electrons from otherwise filled electron bands; see also BLACK HOLES, CAVITIES, OPENINGS, BOREHOLES, and VOIDS.*

UF electron holes

RT charge carriers

RT electron-hole coupling

RT electron-hole droplets

RT point defects

RT quasi particles

RT trapping

RT traps

### **holifield heavy ion research facility**

*INIS: 1978-08-14; ETDE: 1977-07-23*  
USE hhirf accelerator

### **HOLLANDITE**

*INIS: 1981-09-18; ETDE: 1981-06-13*

\*BT1 oxide minerals

RT aluminium oxides

RT barium oxides

RT synroc process

RT titanium oxides

### **HOLLOW ANODES**

*2004-12-20*  
\*BT1 anodes

### **HOLLOW CATHODES**

\*BT1 cathodes

### **HOLLOW FUEL RODS**

\*BT1 fuel rods

### **holly event**

*INIS: 1994-10-14; ETDE: 1976-03-12*  
*A test made during PROJECT HARDTACK.*  
(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions

USE surface explosions

### **HOLMES-STRETFORD PROCESS**

*2000-04-12*  
*Process for removal of sulfur compounds from fuel gas manufactured from coal.*  
\*BT1 desulfurization

### **HOLMIUM**

\*BT1 rare earths

### **HOLMIUM 141**

*INIS: 2001-03-15; ETDE: 2001-02-12*  
\*BT1 holmium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 proton decay radioisotopes  
\*BT1 rare earth nuclei

### **HOLMIUM 143**

*2004-12-15*  
\*BT1 electron capture radioisotopes  
\*BT1 holmium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei

### **HOLMIUM 144**

*INIS: 1987-02-25; ETDE: 1987-05-01*  
\*BT1 holmium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei

### **HOLMIUM 145**

*INIS: 1988-04-15; ETDE: 1988-05-23*  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 holmium isotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

### **HOLMIUM 146**

*1981-09-17*  
\*BT1 beta-plus decay radioisotopes  
\*BT1 holmium isotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

### **HOLMIUM 147**

*1982-06-09*  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 holmium isotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei

### **HOLMIUM 148**

*INIS: 1979-09-18; ETDE: 1979-04-11*  
\*BT1 beta-plus decay radioisotopes  
\*BT1 holmium isotopes  
\*BT1 isomeric transition isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

### **HOLMIUM 149**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 holmium isotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

### **HOLMIUM 150**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 holmium isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

### **HOLMIUM 151**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 holmium isotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

### **HOLMIUM 152**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 holmium isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

### **HOLMIUM 153**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 holmium isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei

### **HOLMIUM 154**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 holmium isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei

### **HOLMIUM 155**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 holmium isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei

### **HOLMIUM 156**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 holmium isotopes  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei

### **HOLMIUM 157**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 holmium isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei

### **HOLMIUM 158**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 holmium isotopes  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei

**HOLMIUM 159**

- \*BT1 electron capture radioisotopes
- \*BT1 holmium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**HOLMIUM 160**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 holmium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**HOLMIUM 161**

- \*BT1 electron capture radioisotopes
- \*BT1 holmium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**HOLMIUM 162**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 holmium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**HOLMIUM 163**

- \*BT1 electron capture radioisotopes
- \*BT1 holmium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 years living radioisotopes

**HOLMIUM 164**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 holmium isotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**HOLMIUM 165**

- \*BT1 holmium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**HOLMIUM 165 REACTIONS**

*INIS: 1983-09-05; ETDE: 1982-07-08*  
 \*BT1 heavy ion reactions

**HOLMIUM 165 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**HOLMIUM 166**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 holmium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**HOLMIUM 167**

- \*BT1 beta-minus decay radioisotopes

- \*BT1 holmium isotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**HOLMIUM 168**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 holmium isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**HOLMIUM 169**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 holmium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**HOLMIUM 170**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 holmium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**HOLMIUM 171**

*INIS: 1988-03-08; ETDE: 1988-04-07*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**HOLMIUM 172**

*INIS: 1990-12-05; ETDE: 1991-01-14*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 holmium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**HOLMIUM ADDITIONS**

*Alloys containing not more than 1% Ho are listed here.*  
 \*BT1 holmium alloys  
 \*BT1 rare earth additions

**HOLMIUM ALLOYS**

*Alloys containing more than 1% Ho.*  
 \*BT1 rare earth alloys  
 NT1 holmium additions  
 NT1 holmium base alloys

**HOLMIUM BASE ALLOYS**

- \*BT1 holmium alloys

**HOLMIUM BORIDES**

- \*BT1 borides
- \*BT1 holmium compounds

**HOLMIUM BROMIDES**

- \*BT1 bromides
- \*BT1 holmium compounds

**HOLMIUM CARBIDES**

- \*BT1 carbides
- \*BT1 holmium compounds

**HOLMIUM CARBONATES**

*INIS: 2000-04-12; ETDE: 1989-05-11*  
 \*BT1 carbonates  
 \*BT1 holmium compounds

**HOLMIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 holmium compounds

**HOLMIUM COMPLEXES**

- \*BT1 rare earth complexes

**HOLMIUM COMPOUNDS**

*1997-06-17*

- BT1 rare earth compounds
- NT1 holmium borides
- NT1 holmium bromides
- NT1 holmium carbides
- NT1 holmium carbonates
- NT1 holmium chlorides
- NT1 holmium fluorides
- NT1 holmium hydrides
- NT1 holmium hydroxides
- NT1 holmium iodides
- NT1 holmium nitrates
- NT1 holmium nitrides
- NT1 holmium oxides
- NT1 holmium perchlorates
- NT1 holmium phosphates
- NT1 holmium phosphides
- NT1 holmium selenides
- NT1 holmium silicates
- NT1 holmium silicides
- NT1 holmium sulfates
- NT1 holmium sulfides
- NT1 holmium tellurides

**HOLMIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 holmium compounds

**HOLMIUM HYDRIDES**

- \*BT1 holmium compounds
- \*BT1 hydrides

**HOLMIUM HYDROXIDES**

- \*BT1 holmium compounds
- \*BT1 hydroxides

**HOLMIUM IODIDES**

- \*BT1 holmium compounds
- \*BT1 iodides

**HOLMIUM IONS**

- \*BT1 ions

**HOLMIUM ISOTOPES**

- BT1 isotopes
- NT1 holmium 141
- NT1 holmium 143
- NT1 holmium 144
- NT1 holmium 145
- NT1 holmium 146
- NT1 holmium 147
- NT1 holmium 148
- NT1 holmium 149
- NT1 holmium 150
- NT1 holmium 151
- NT1 holmium 152
- NT1 holmium 153
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- NT1 holmium 162
- NT1 holmium 163
- NT1 holmium 164
- NT1 holmium 165
- NT1 holmium 166
- NT1 holmium 167
- NT1 holmium 168
- NT1 holmium 169
- NT1 holmium 170
- NT1 holmium 171
- NT1 holmium 172

**HOLMIUM NITRATES**

- \*BT1 holmium compounds
- \*BT1 nitrates

**HOLMIUM NITRIDES**

- \*BT1 holmium compounds
- \*BT1 nitrides

**HOLMIUM OXIDES**

- \*BT1 holmium compounds
- \*BT1 oxides

**HOLMIUM PERCHLORATES**

- INIS: 2000-04-12; ETDE: 1975-10-28
- \*BT1 holmium compounds
  - \*BT1 perchlorates

**HOLMIUM PHOSPHATES**

- 1975-10-23
- \*BT1 holmium compounds
  - \*BT1 phosphates

**HOLMIUM PHOSPHIDES**

- INIS: 1978-07-03; ETDE: 1977-04-12
- \*BT1 holmium compounds
  - \*BT1 phosphides

**HOLMIUM SELENIDES**

- INIS: 1984-08-27; ETDE: 1977-12-22
- \*BT1 holmium compounds
  - \*BT1 selenides

**HOLMIUM SILICATES**

- INIS: 1990-07-24; ETDE: 1982-12-01
- \*BT1 holmium compounds
  - \*BT1 silicates

**HOLMIUM SILICIDES**

- INIS: 1975-10-29; ETDE: 1975-12-16
- \*BT1 holmium compounds
  - \*BT1 silicides

**HOLMIUM SULFATES**

- \*BT1 holmium compounds
- \*BT1 sulfates

**HOLMIUM SULFIDES**

- \*BT1 holmium compounds
- \*BT1 sulfides

**HOLMIUM TELLURIDES**

- INIS: 1988-02-02; ETDE: 1978-05-03
- \*BT1 holmium compounds
  - \*BT1 tellurides

**holocene epoch**

- INIS: 2000-04-12; ETDE: 1977-10-20
- USE quaternary period

**HOLOGRAPHY**

- RT photography

**HOLTSMARK THEORY**

- RT plasma

**holzheim process**

- 2000-04-12
- Process for the underground gasification of oil shale, making use of the total energy content of the shale. Waste heat is utilized in special steam generators and distillation columns.
- (Prior to January 1995, this was a valid ETDE descriptor.)
- USE in-situ gasification
  - USE oil shales

**HOMALITE**

- INIS: 1979-09-18; ETDE: 1979-03-27
- Brittle polyester used in photoelastic analysis of crack propagation in PWR pressure vessels under LOCA conditions.
- \*BT1 polyesters
  - RT araldite
  - RT photoelasticity
  - RT stress analysis

**HOME RANGE**

- INIS: 1999-09-01; ETDE: 1976-05-13
- The area to which the activities of an animal are confined.
- RT ecology
  - RT wild animals

**HOMEOSTASIS**

- RT biological recovery
- RT blood
- RT blood-brain barrier
- RT endocrine glands
- RT hormones
- RT hypothalamus
- RT physiology
- RT pituitary gland

**HOMOCYSTEINE**

- ETDE: 1997-03-15
- \*BT1 amino acids
  - RT cysteine

**homocystine**

- 1996-07-18
- (Until July 1996 this was a valid descriptor.)
- USE amino acids

**HOMOGENATES**

- RT animal cells
- RT animal tissues
- RT biological materials
- RT in vitro
- RT organs

**HOMOGENEOUS CATALYSIS**

- INIS: 1992-04-13; ETDE: 1984-07-20
- Catalysis occurring within a single phase, usually a gas or liquid.
- BT1 catalysis

**HOMOGENEOUS MIXTURES**

- 1999-10-11
- \*BT1 mixtures
  - NT1 solutions
  - NT2 aqueous solutions
  - NT2 fuel solutions
  - NT2 hypertonic solutions
  - NT2 isotonic solutions
  - NT2 leachates
  - NT2 process solutions
  - NT2 solid solutions

**HOMOGENEOUS PLASMA**

- BT1 plasma

**homogeneous reactor experiment 2**

- 2000-04-12
- USE hre-2 reactor

**HOMOGENEOUS REACTORS**

- BT1 reactors
- NT1 fuel dispersion reactors
- NT2 fluidized bed reactors
- NT2 slurry reactors
- NT1 gas fueled reactors
- NT2 coaxial flow reactors
- NT2 light bulb reactors
- NT2 plasma core assembly
- NT1 liquid homogeneous reactors
- NT2 aqueous homogeneous reactors
- NT3 ai-1-77 reactor
- NT3 argus reactor
- NT3 ber-2 reactor
- NT3 byu 1-77 reactor
- NT3 cesnef reactor
- NT3 dr-1 reactor
- NT3 frf reactor
- NT3 gidra reactor
- NT3 hre-2 reactor
- NT3 jrr-1 reactor
- NT3 kewb reactor

- NT3 kstr reactor
- NT3 ncsr-1 reactor
- NT3 nevada university reactor
- NT3 prnc-1-77 reactor
- NT3 supo reactor
- NT3 wrrr reactor

**NT1 solid homogeneous reactors**

- NT2 acpr reactor
- NT2 arojet-general nucleonics reactors
- NT2 akr-1 reactor
- NT2 anex reactor
- NT2 ebor reactor
- NT2 nsrr reactor
- NT2 pebble bed reactors
- NT3 avr reactor
- NT3 thtr-300 reactor
- NT3 vg-400 reactor
- NT3 vgr-50 reactor
- NT2 romashka reactor
- NT2 shca reactor
- NT2 sur-100 series reactor
- NT2 treat reactor
- NT2 triga type reactors
- NT3 affri reactor
- NT3 atrp reactor
- NT3 colorado triga-mk-3 reactor
- NT3 cornell triga-mk-2 reactor
- NT3 dow triga-mk-1 reactor
- NT3 fir-1 reactor
- NT3 frf-2 reactor
- NT3 frn reactor
- NT3 gulf triga-mk-3 reactor
- NT3 kartini-ppny reactor
- NT3 lopra reactor
- NT3 nscr reactor
- NT3 ostr reactor
- NT3 prpr reactor
- NT3 pstr reactor
- NT3 rtp reactor
- NT3 trico reactor
- NT3 triga-1-arizona reactor
- NT3 triga-1-california reactor
- NT3 triga-1-hanford reactor
- NT3 triga-1-hanover reactor
- NT3 triga-1-heidelberg reactor
- NT3 triga-1-michigan reactor
- NT3 triga-2-bandung reactor
- NT3 triga-2-bangladesh reactor
- NT3 triga-2-dalat reactor
- NT3 triga-2-illinois reactor
- NT3 triga-2-kansas reactor
- NT3 triga-2-ljubljana reactor
- NT3 triga-2-mainz reactor
- NT3 triga-2-musashi reactor
- NT3 triga-2-pavia reactor
- NT3 triga-2-pitesti reactor
- NT3 triga-2 reactor
- NT3 triga-2-rikkyo reactor
- NT3 triga-2-rome reactor
- NT3 triga-2-seoul reactor
- NT3 triga-2-vienna reactor
- NT3 triga-3-la jolla reactor
- NT3 triga-3-munich reactor
- NT3 triga-3-salazar reactor
- NT3 triga-3-seoul reactor
- NT3 triga-brazil reactor
- NT3 triga-texas reactor
- NT3 triga-veterans reactor
- NT3 ucbr reactor
- NT3 uwnr reactor
- NT3 wsur reactor

**HOMOGENIZATION METHODS**

- INIS: 1981-06-19; ETDE: 1981-08-04
- Methods in which the heterogeneities of the reactor core must be considered in separate calculations in which the equivalent homogenized parameters are produced for use

*in subsequent calculations of the overall flux distribution in the reactor.*

- BT1 calculation methods
- RT heterogeneous effects
- RT neutron diffusion equation
- RT neutron flux
- RT neutron transport theory
- RT reactor lattice parameters

## HOMOJUNCTIONS

INIS: 2000-04-12; ETDE: 1981-07-18

- BT1 semiconductor junctions
- RT heterojunctions

## HOMOPOLAR GENERATORS

INIS: 1984-04-04; ETDE: 1981-05-18

*D-C generators in which the poles presented to the armature are all of the same polarity.*

- UF homopolar machines
- \*BT1 electric generators
- RT direct current

## homopolar machines

INIS: 2000-04-12; ETDE: 1981-05-18

- USE homopolar generators

## homozygotes

ETDE: 2002-06-13

- USE hybridization

## HONDURAS

- \*BT1 central america
- BT1 developing countries

## HONEY

ETDE: 1975-09-11

- BT1 food

## HONEYCOMB STRUCTURES

INIS: 1993-03-11; ETDE: 1976-01-07

- BT1 mechanical structures
- RT solar collectors

## honeylocust trees

INIS: 2000-04-12; ETDE: 1981-05-18

*(Prior to March 1997 this was a valid ETDE descriptor.)*

- USE leguminosae
- USE trees

## HONEYWELL COMPUTERS

- BT1 computers

## HONG KONG

*Former British possession re-integrated into China in 1997.*

- \*BT1 china

## HONING

- BT1 machining
- RT grinding

## HOOKE LAW

- RT elasticity
- RT poisson ratio
- RT young modulus

## HOOKWORM

*(From 1974 till March 1997*

*NIPPOSTRONGYLUS was a valid ETDE descriptor.)*

- UF *nippostrongylus*
- \*BT1 nematodes
- BT1 parasites
- RT parasitic diseases

## HOPE CREEK-1 REACTOR

*PSEG Nuclear, LLC, Salem, New Jersey, USA.*

*(Prior to November 1973 known as NEWBOLD ISLAND-1 REACTOR for the initially planned site, and older material is so indexed.)*

- \*BT1 bwr type reactors
- NT1 newbold island-1 reactor

## HOPE CREEK-2 REACTOR

*Public Service Electric and Gas Co., Salem, New Jersey, USA. Canceled in 1981 before construction began.*

*(Prior to November 1973 known as NEWBOLD ISLAND-2 REACTOR for the initially planned site, and older material is so indexed.)*

- \*BT1 bwr type reactors
- NT1 newbold island-2 reactor

## HOPPERS

INIS: 2000-04-12; ETDE: 1977-03-04

- UF bunkers
- BT1 containers

## HOR REACTOR

*Interuniversitair Reactor Instituut/ Technische Hogeschool Delft, Delft, Netherlands.*

- UF *delft hoger onderwijs reactor*
- UF *hoger onderwijs reactor*
- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

## HORACE REACTOR

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 zero power reactors

## hordeum

- USE barley

## HORIZONTAL AXIS TURBINES

INIS: 1992-09-24; ETDE: 1985-08-22

- \*BT1 wind turbines
- RT diffuser augmented turbines
- RT tipvane rotors
- RT vortex augmented turbines

## horizontal concentration

INIS: 2000-04-12; ETDE: 1979-04-12

- USE horizontal integration

## horizontal diversification

INIS: 2000-04-12; ETDE: 1979-04-12

- USE horizontal integration

## HORIZONTAL DIVESTITURE

INIS: 2000-04-12; ETDE: 1977-09-19

- RT petroleum industry
- RT regulations

## HORIZONTAL INTEGRATION

INIS: 2000-05-04; ETDE: 1979-04-12

- UF *horizontal concentration*
- UF *horizontal diversification*
- RT competition
- RT industry
- RT petroleum industry

## hormone antagonists

INIS: 2000-04-12; ETDE: 1981-04-20

*Use the descriptor below or one of its narrower terms.*

*(Prior to March 1997 this was a valid ETDE descriptor.)*

- USE drugs

## HORMONES

- NT1 adrenal hormones
- NT2 adrenaline
- NT2 corticosteroids
- NT3 glucocorticoids
- NT4 corticosterone
- NT4 cortisone
- NT4 dexamethasone
- NT4 hydrocortisone
- NT4 prednisolone
- NT4 prednisone
- NT3 mineralocorticoids
- NT4 aldosterone
- NT2 noradrenaline
- NT1 peptide hormones
- NT2 calcitonin
- NT2 erythropoietin
- NT2 gastrin
- NT2 glucagon
- NT2 insulin
- NT2 leptin
- NT2 parathormone
- NT2 pituitary hormones
- NT3 acth
- NT3 gonadotropins
- NT4 fsh
- NT4 hcg
- NT4 lth
- NT4 luteinizing hormone
- NT3 liberins
- NT4 lh-rh
- NT3 oxytocin
- NT3 sth
- NT3 tsh
- NT3 vasopressin
- NT2 secretin
- NT2 thyroid hormones
- NT3 diiodothyronine
- NT3 thyrocalcitonin
- NT3 thyroxine
- NT3 triiodothyronine
- NT2 thyronine
- NT2 trh
- NT1 steroid hormones
- NT2 androgens
- NT3 androstenedione
- NT3 androsterone
- NT3 hydroxyandrostenone
- NT3 testosterone
- NT2 corticosteroids
- NT3 glucocorticoids
- NT4 corticosterone
- NT4 cortisone
- NT4 dexamethasone
- NT4 hydrocortisone
- NT4 prednisolone
- NT4 prednisone
- NT3 mineralocorticoids
- NT4 aldosterone
- NT2 estrogens
- NT3 estradiol
- NT3 estriol
- NT3 estrone
- NT2 progesterone
- RT abscisic acid
- RT biochemistry
- RT endocrine diseases
- RT endocrine glands
- RT homeostasis
- RT intrinsic factor
- RT physiology
- RT prostaglandins
- RT receptors
- RT somatostatin
- RT steroids
- RT stimulation

## HORNBLLENDE

- \*BT1 amphibole

RT granites  
RT peridotites

**hornfelses**

INIS: 2000-04-12; ETDE: 1980-08-12  
(Prior to January 1995, this was a valid ETDE descriptor.)

USE metamorphic rocks

**HORSES**

\*BT1 mammals

**HORTICULTURE**

INIS: 1992-02-18; ETDE: 1980-10-27  
*The science of growing fruits, vegetables, flowers and ornamental plants.*

BT1 agriculture  
RT gardening  
RT greenhouses  
RT harvesting

**HOSE INSTABILITY**

UF firehose instability  
UF gardenhose instability  
\*BT1 plasma microinstabilities

**HOSES**

INIS: 2000-04-12; ETDE: 1976-01-07  
BT1 tubes

**HOSKINS 875**

2000-04-12  
\*BT1 aluminium alloys  
\*BT1 chromium alloys  
\*BT1 iron base alloys

**HOSPITALS**

BT1 buildings  
BT1 medical establishments  
RT health services  
RT medicine  
RT public buildings

**HOST**

RT fungal diseases  
RT graft-host reaction  
RT parasitic diseases  
RT rickettsial diseases  
RT transplants  
RT viral diseases

**HOST-CELL REACTIVATION**

\*BT1 biological repair  
RT bacteria  
RT bacteriophages  
RT chemical radiation effects  
RT dna  
RT radiation injuries

**HOT ATOM CHEMISTRY**

*Chemical reactions of atoms or ions of high kinetic energies (more than 1 ev) resulting from nuclear transformations.*

UF chemical effects of nuclear transformations  
UF recoil chemistry  
\*BT1 radiochemistry  
NT1 szilard-chalmers reaction  
RT nuclear reactions  
RT recoils  
RT retention  
RT scavenging  
RT valence

**HOT CELLS**

*Shielded chambers for remote handling of radioactive materials.*

\*BT1 laboratory equipment  
RT gloveboxes  
RT hot labs  
RT manipulators  
RT periscopes  
RT radiation protection

RT remote handling  
RT remote handling equipment  
RT remote viewing equipment  
RT shielding

**HOT CHANNEL**

RT fuel channels  
RT hot channel factor  
RT reactor cooling systems

**HOT CHANNEL FACTOR**

BT1 dimensionless numbers  
RT hot channel  
RT reactor safety

**HOT DIPPING**

\*BT1 dip coating

**HOT-DRY-ROCK SYSTEMS**

1992-09-01  
UF impermeable dry rock  
BT1 energy systems  
BT1 geothermal systems  
RT hydraulic fractures

**hot enriched carbon moderated thermal oscillator reactor**

1993-11-08  
USE hector reactor

**hot experimental facility**

INIS: 1990-12-06; ETDE: 1980-10-27  
(Prior to December 1990, this was a valid descriptor.)  
USE hef

**hot experimental reactor zero energy**

1993-11-08  
USE hero reactor

**HOT GAS CLEANUP**

INIS: 1993-01-27; ETDE: 1978-04-27  
BT1 purification  
RT acoustic agglomerators  
RT coal gasification  
RT combined-cycle power plants  
RT desulfurization  
RT electrostatic precipitators  
RT filters  
RT filtration  
RT fuel gas

**hot isostatic pressing**

2003-06-26  
USE hot pressing

**HOT LABS**

UF radiochemical laboratories  
BT1 laboratories  
BT1 nuclear facilities  
RT hot cells  
RT laboratory equipment  
RT manipulators  
RT periscopes  
RT radiation hazards  
RT radiation protection  
RT radioactivity  
RT remote handling

**HOT NUCLEI**

1994-04-12  
*Nuclei with temperatures exceeding 4 MeV.*  
BT1 nuclei

**HOT PLASMA**

BT1 plasma

**HOT PRESSING**

UF hot isostatic pressing  
\*BT1 pressing  
RT hot working

**HOT SPOT FACTOR**

BT1 dimensionless numbers  
RT hot spots  
RT reactor safety

**HOT SPOTS**

RT burnout  
RT dryout  
RT fuel cans  
RT heat transfer  
RT hot spot factor  
RT reactor cooling systems  
RT rewetting  
RT volcanoes

**hot spots (biological)**

USE biological hot spots

**HOT SPRINGS**

2000-03-31  
*Springs whose temperature is above that of the human body.*  
SF geothermal springs  
SF thermal waters  
\*BT1 thermal springs  
NT1 geysers  
RT hydrothermal systems  
RT mineral springs

**HOT WATER**

INIS: 2000-07-24; ETDE: 1978-10-23  
\*BT1 water  
RT district heating  
RT water heating

**hot water heaters**

INIS: 2000-04-12; ETDE: 1981-01-27  
USE water heaters

**HOT-WATER PROCESSES**

2000-04-12  
*Processes used primarily in processing of oil (tar) sands to separate tar from sand.*  
BT1 fluid injection processes  
RT oil sands  
RT oil shales

**hot-water systems**

2000-04-12  
(Prior to August 1992 this was a valid ETDE descriptor.)  
USE geothermal hot-water systems

**HOT WIRE ANEMOMETERS**

\*BT1 anemometers

**HOT-WIRE GAGES**

\*BT1 pressure gages  
NT1 pirani gages

**HOT WORKING**

\*BT1 materials working  
RT extrusion  
RT forging  
RT hot pressing  
RT rolling

**HOTELS**

INIS: 2000-04-12; ETDE: 1979-12-17  
UF inns  
UF motels  
UF motor inns  
\*BT1 commercial buildings  
RT residential buildings  
RT tourism

**hough-powell devices**

USE flying spot digitizers

**HOURLY VARIATIONS**

INIS: 1981-07-08; ETDE: 1980-03-04  
*Variations from hour to hour.*  
BT1 variations

**HOURS LIVING RADIOISOTOPES**

<b>*BT1</b> radioisotopes	<b>NT1</b> gadolinium 159	<b>NT1</b> neodymium 139
<b>NT1</b> actinium 224	<b>NT1</b> gallium 66	<b>NT1</b> neodymium 141
<b>NT1</b> actinium 228	<b>NT1</b> gallium 68	<b>NT1</b> neodymium 149
<b>NT1</b> actinium 229	<b>NT1</b> gallium 72	<b>NT1</b> neptunium 236
<b>NT1</b> americium 237	<b>NT1</b> gallium 73	<b>NT1</b> neptunium 240
<b>NT1</b> americium 238	<b>NT1</b> germanium 66	<b>NT1</b> nickel 65
<b>NT1</b> americium 239	<b>NT1</b> germanium 75	<b>NT1</b> niobium 89
<b>NT1</b> americium 242	<b>NT1</b> germanium 77	<b>NT1</b> niobium 90
<b>NT1</b> americium 244	<b>NT1</b> germanium 78	<b>NT1</b> niobium 96
<b>NT1</b> americium 245	<b>NT1</b> gold 191	<b>NT1</b> niobium 97
<b>NT1</b> antimony 116	<b>NT1</b> gold 192	<b>NT1</b> osmium 181
<b>NT1</b> antimony 117	<b>NT1</b> gold 193	<b>NT1</b> osmium 182
<b>NT1</b> antimony 118	<b>NT1</b> gold 196	<b>NT1</b> osmium 183
<b>NT1</b> antimony 128	<b>NT1</b> gold 200	<b>NT1</b> osmium 189
<b>NT1</b> antimony 129	<b>NT1</b> hafnium 170	<b>NT1</b> osmium 191
<b>NT1</b> argon 41	<b>NT1</b> hafnium 171	<b>NT1</b> palladium 101
<b>NT1</b> arsenic 78	<b>NT1</b> hafnium 173	<b>NT1</b> palladium 109
<b>NT1</b> astatine 207	<b>NT1</b> hafnium 180	<b>NT1</b> palladium 111
<b>NT1</b> astatine 208	<b>NT1</b> hafnium 182	<b>NT1</b> palladium 112
<b>NT1</b> astatine 209	<b>NT1</b> hafnium 183	<b>NT1</b> platinum 185
<b>NT1</b> astatine 210	<b>NT1</b> hafnium 184	<b>NT1</b> platinum 186
<b>NT1</b> astatine 211	<b>NT1</b> holmium 160	<b>NT1</b> platinum 187
<b>NT1</b> barium 126	<b>NT1</b> holmium 161	<b>NT1</b> platinum 189
<b>NT1</b> barium 129	<b>NT1</b> holmium 162	<b>NT1</b> platinum 197
<b>NT1</b> barium 139	<b>NT1</b> holmium 167	<b>NT1</b> platinum 200
<b>NT1</b> berkelium 243	<b>NT1</b> indium 109	<b>NT1</b> plutonium 234
<b>NT1</b> berkelium 244	<b>NT1</b> indium 110	<b>NT1</b> plutonium 243
<b>NT1</b> berkelium 248	<b>NT1</b> indium 113	<b>NT1</b> plutonium 245
<b>NT1</b> berkelium 250	<b>NT1</b> indium 115	<b>NT1</b> polonium 204
<b>NT1</b> bismuth 201	<b>NT1</b> indium 117	<b>NT1</b> polonium 205
<b>NT1</b> bismuth 202	<b>NT1</b> iodine 120	<b>NT1</b> polonium 207
<b>NT1</b> bismuth 203	<b>NT1</b> iodine 121	<b>NT1</b> potassium 42
<b>NT1</b> bismuth 204	<b>NT1</b> iodine 123	<b>NT1</b> potassium 43
<b>NT1</b> bismuth 212	<b>NT1</b> iodine 130	<b>NT1</b> praseodymium 137
<b>NT1</b> bromine 75	<b>NT1</b> iodine 132	<b>NT1</b> praseodymium 138
<b>NT1</b> bromine 76	<b>NT1</b> iodine 133	<b>NT1</b> praseodymium 139
<b>NT1</b> bromine 80	<b>NT1</b> iodine 135	<b>NT1</b> praseodymium 142
<b>NT1</b> bromine 83	<b>NT1</b> iridium 184	<b>NT1</b> praseodymium 145
<b>NT1</b> cadmium 107	<b>NT1</b> iridium 185	<b>NT1</b> promethium 150
<b>NT1</b> cadmium 117	<b>NT1</b> iridium 186	<b>NT1</b> protactinium 228
<b>NT1</b> californium 247	<b>NT1</b> iridium 187	<b>NT1</b> protactinium 234
<b>NT1</b> californium 255	<b>NT1</b> iridium 190	<b>NT1</b> radium 230
<b>NT1</b> cerium 132	<b>NT1</b> iridium 194	<b>NT1</b> radon 210
<b>NT1</b> cerium 133	<b>NT1</b> iridium 195	<b>NT1</b> radon 211
<b>NT1</b> cerium 135	<b>NT1</b> iridium 196	<b>NT1</b> radon 224
<b>NT1</b> cerium 137	<b>NT1</b> iron 52	<b>NT1</b> rhenium 181
<b>NT1</b> cesium 127	<b>NT1</b> krypton 76	<b>NT1</b> rhenium 182
<b>NT1</b> cesium 134	<b>NT1</b> krypton 77	<b>NT1</b> rhenium 188
<b>NT1</b> chromium 48	<b>NT1</b> krypton 83	<b>NT1</b> rhenium 190
<b>NT1</b> cobalt 55	<b>NT1</b> krypton 85	<b>NT1</b> rhodium 100
<b>NT1</b> cobalt 58	<b>NT1</b> krypton 87	<b>NT1</b> rhodium 106
<b>NT1</b> cobalt 61	<b>NT1</b> krypton 88	<b>NT1</b> rhodium 99
<b>NT1</b> copper 61	<b>NT1</b> lanthanum 132	<b>NT1</b> rubidium 81
<b>NT1</b> copper 64	<b>NT1</b> lanthanum 133	<b>NT1</b> rubidium 82
<b>NT1</b> curium 238	<b>NT1</b> lanthanum 135	<b>NT1</b> ruthenium 105
<b>NT1</b> curium 239	<b>NT1</b> lanthanum 141	<b>NT1</b> ruthenium 95
<b>NT1</b> curium 249	<b>NT1</b> lanthanum 142	<b>NT1</b> samarium 142
<b>NT1</b> dysprosium 152	<b>NT1</b> lead 198	<b>NT1</b> samarium 156
<b>NT1</b> dysprosium 153	<b>NT1</b> lead 199	<b>NT1</b> scandium 43
<b>NT1</b> dysprosium 155	<b>NT1</b> lead 200	<b>NT1</b> scandium 44
<b>NT1</b> dysprosium 157	<b>NT1</b> lead 201	<b>NT1</b> selenium 73
<b>NT1</b> dysprosium 165	<b>NT1</b> lead 202	<b>NT1</b> silicon 31
<b>NT1</b> einsteinium 249	<b>NT1</b> lead 204	<b>NT1</b> silver 103
<b>NT1</b> einsteinium 250	<b>NT1</b> lead 209	<b>NT1</b> silver 104
<b>NT1</b> einsteinium 256	<b>NT1</b> lead 212	<b>NT1</b> silver 112
<b>NT1</b> erbium 158	<b>NT1</b> lutetium 176	<b>NT1</b> silver 113
<b>NT1</b> erbium 161	<b>NT1</b> lutetium 179	<b>NT1</b> sodium 24
<b>NT1</b> erbium 163	<b>NT1</b> magnesium 28	<b>NT1</b> strontium 80
<b>NT1</b> erbium 165	<b>NT1</b> manganese 56	<b>NT1</b> strontium 85
<b>NT1</b> erbium 171	<b>NT1</b> mendelevium 256	<b>NT1</b> strontium 87
<b>NT1</b> europium 150	<b>NT1</b> mendelevium 257	<b>NT1</b> strontium 91
<b>NT1</b> europium 152	<b>NT1</b> mendelevium 259	<b>NT1</b> strontium 92
<b>NT1</b> europium 157	<b>NT1</b> mercury 192	<b>NT1</b> sulfur 38
<b>NT1</b> fermium 251	<b>NT1</b> mercury 193	<b>NT1</b> tantalum 173
<b>NT1</b> fermium 254	<b>NT1</b> mercury 195	<b>NT1</b> tantalum 174
<b>NT1</b> fermium 255	<b>NT1</b> mercury 197	<b>NT1</b> tantalum 175
<b>NT1</b> fermium 256	<b>NT1</b> molybdenum 90	<b>NT1</b> tantalum 176
<b>NT1</b> fluorine 18	<b>NT1</b> molybdenum 93	<b>NT1</b> tantalum 178
	<b>NT1</b> neodymium 138	<b>NT1</b> tantalum 180



**NT1** tantalum 184  
**NT1** technetium 93  
**NT1** technetium 94  
**NT1** technetium 95  
**NT1** technetium 99  
**NT1** tellurium 116  
**NT1** tellurium 117  
**NT1** tellurium 119  
**NT1** tellurium 127  
**NT1** tellurium 129  
**NT1** terbium 147  
**NT1** terbium 148  
**NT1** terbium 149  
**NT1** terbium 150  
**NT1** terbium 151  
**NT1** terbium 152  
**NT1** terbium 154  
**NT1** terbium 156  
**NT1** thallium 195  
**NT1** thallium 196  
**NT1** thallium 197  
**NT1** thallium 198  
**NT1** thallium 199  
**NT1** thulium 163  
**NT1** thulium 166  
**NT1** thulium 173  
**NT1** tin 110  
**NT1** tin 127  
**NT1** titanium 45  
**NT1** tungsten 176  
**NT1** tungsten 177  
**NT1** uranium 240  
**NT1** xenon 122  
**NT1** xenon 123  
**NT1** xenon 125  
**NT1** xenon 135  
**NT1** ytterbium 164  
**NT1** ytterbium 177  
**NT1** ytterbium 178  
**NT1** yttrium 85  
**NT1** yttrium 86  
**NT1** yttrium 87  
**NT1** yttrium 90  
**NT1** yttrium 92  
**NT1** yttrium 93  
**NT1** zinc 62  
**NT1** zinc 69  
**NT1** zinc 71  
**NT1** zirconium 86  
**NT1** zirconium 87  
**NT1** zirconium 97  
**RT** half-life  
**RT** lifetime

**HOUSEHOLDS**

*INIS: 1992-10-23; ETDE: 1979-12-10*  
*Social unit comprised of those living together in the same house, apartment or other dwelling.*

**RT** apartment buildings  
**RT** houses  
**RT** mobile homes  
**RT** residential buildings  
**RT** residential sector  
**RT** sectoral analysis

**HOUSES**

*1985-07-22*  
**UF** residences  
**\*BT1** residential buildings  
**RT** households  
**RT** mobile homes

**hovercraft**

*INIS: 2000-04-12; ETDE: 1977-08-09*  
**USE** air cushion vehicles

**HP COMPUTERS**

**UF** hewlett-packard computers  
**BT1** computers

**hpci**

*1979-01-18*  
**USE** high pressure coolant injection

**hpd devices**

**USE** flying spot digitizers

**hpde**

*INIS: 2000-04-12; ETDE: 1980-02-11*  
**USE** mhd generator aedc

**HPL**

**UF** human placental lactogen  
**BT1** lactogens  
**RT** placenta  
**RT** pregnancy  
**RT** sth

**hplc**

*2004-07-16*  
**USE** high-performance liquid chromatography

**HPRR REACTOR**

*ORNL, Oak Ridge, Tennessee, USA. Shut down in 1991.*

**UF** health physics research reactor  
**\*BT1** air cooled reactors  
**\*BT1** enriched uranium reactors  
**\*BT1** fast reactors  
**\*BT1** pulsed reactors  
**\*BT1** research reactors

**HRE-2 REACTOR**

*2000-04-12*  
*ORNL, Oak Ridge, Tennessee, USA.*  
**UF** homogeneous reactor experiment 2  
**\*BT1** aqueous homogeneous reactors  
**\*BT1** enriched uranium reactors  
**\*BT1** experimental reactors  
**\*BT1** heavy water moderated reactors  
**\*BT1** power reactors  
**\*BT1** research reactors  
**\*BT1** test reactors

**HRON RIVER**

*2004-12-15*  
**\*BT1** rivers  
**RT** slovakia

**hsa**

*INIS: 1984-04-04; ETDE: 2002-06-13*  
*Human serum albumin.*  
**USE** albumins  
**USE** blood serum

**HSK PROCEDURE**

**UF** hylleraas-scherr-knight procedure  
**BT1** perturbation theory  
**\*BT1** variational methods  
**RT** electronic structure  
**RT** quantum mechanics

**HSX STELLARATOR**

*INIS: 1999-01-26; ETDE: 2000-01-25*  
*Helical Symmetry Experiment, University of Wisconsin, USA.*  
**\*BT1** heliac stellarators

**HT-2 TOKAMAK**

*INIS: 1999-07-26; ETDE: 1999-09-03*  
*Hitachi Tokamak, Ibaraki, Japan.*  
**\*BT1** tokamak devices

**HT-6B TOKAMAK**

*INIS: 1989-12-08; ETDE: 1990-01-03*  
*Academia Sinica, Hefei, Anhui, China.*  
**\*BT1** tokamak devices

**HT-6M TOKAMAK**

*INIS: 1989-12-08; ETDE: 1990-01-03*  
*Academia Sinica, Hefei, Anhui, China.*  
**\*BT1** tokamak devices

**HT-7 TOKAMAK**

*INIS: 1998-01-28; ETDE: 1998-02-24*  
*Academia Sinica, Hefei, Anhui, China.*  
**\*BT1** tokamak devices

**HT-7U TOKAMAK**

*2003-05-20*  
*Academia Sinica, Hefei, Anhui, China.*  
**UF** east tokamak  
**UF** experimental advanced superconducting tokamak  
**\*BT1** tokamak devices

**htgr peach bottom reactor**

**USE** peach bottom-1 reactor

**HTGR TYPE REACTORS**

*1998-01-29*  
**UF** high temperature gas cooled and graphite moderated reactors  
**\*BT1** gas cooled reactors  
**\*BT1** graphite moderated reactors  
**NT1** avr reactor  
**NT1** dragon reactor  
**NT1** fulton-1 reactor  
**NT1** fulton-2 reactor  
**NT1** ga standard reactor  
**NT1** htr-10 reactor  
**NT1** htr reactor  
**NT1** kahter reactor  
**NT1** peach bottom-1 reactor  
**NT1** schmehausen-2 reactor  
**NT1** summit-1 reactor  
**NT1** summit-2 reactor  
**NT1** thtr-300 reactor  
**NT1** vg-400 reactor  
**NT1** vgr-50 reactor  
**NT1** vhtr reactor  
**NT1** vidal-1 reactor  
**NT1** vidal-2 reactor  
**NT1** vrain reactor  
**RT** helium cooled reactors  
**RT** power reactors

**HTLTR REACTOR**

*Pacific Northwest Laboratory, Battelle Memorial Institute, Richland, Washington, USA. Shut down in 1971.*

**UF** high temperature lattice test reactor  
**\*BT1** enriched uranium reactors  
**\*BT1** graphite moderated reactors  
**\*BT1** nitrogen cooled reactors  
**\*BT1** research reactors  
**\*BT1** test reactors

**htly iii virus**

*INIS: 1986-05-23; ETDE: 2002-06-13*  
**USE** aids virus

**hto**

*1996-06-19*  
**USE** tritium oxides

**HTR-10 REACTOR**

*INIS: 1998-01-29; ETDE: 1998-02-24*  
*Tsinghua Univ., Beijing, China.*  
**\*BT1** enriched uranium reactors  
**\*BT1** experimental reactors  
**\*BT1** helium cooled reactors  
**\*BT1** htgr type reactors  
**\*BT1** test reactors

**HTR REACTOR**

*Tokyo Atomic Industrial Research Lab., Ltd, Kanagawa Prefecture, Japan.*  
**UF** hitachi training reactor

*UF* *japan htr*  
*UF* *kawasaki-hitachi training reactor*  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**HTTR REACTOR**

1988-10-10  
*Oarai Research Establishment of JAERI,  
 Oarai, Ibaraki, Japan.*  
*UF* *high temperature test reactor*  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 helium cooled reactors  
 \*BT1 htgr type reactors

**HTW PROCESS**

*INIS: 2000-04-12; ETDE: 1982-10-05*  
*Rheinische Braunkohlenwerke/FRG coal  
 gasification process which utilizes a fluidized  
 bed reactor with an after-reactor chamber and  
 operates at a pressure of approx. 10 bar and a  
 temperature of approx. 1100 C to produce a  
 high quality synthesis gas.*  
*UF* *high-temperature winkler process*  
 \*BT1 coal gasification  
 RT synthesis gas

**HUBBARD MODEL**

*INIS: 1992-04-24; ETDE: 1992-07-09*  
 \*BT1 crystal models  
 RT antiferromagnetism  
 RT band theory  
 RT electronic structure  
 RT ferromagnetism  
 RT high-*tc* superconductors  
 RT superconductivity

**HUBBLE EFFECT**

*UF* *hubble-humason shift*  
 RT cosmology  
 RT expansion  
 RT red shift  
 RT universe

***hubble-humason shift***

USE hubble effect

**HUDSON RIVER**

\*BT1 rivers  
 RT new jersey  
 RT new york

***huff and puff process***

*INIS: 2000-04-12; ETDE: 1976-06-07*  
 USE fluid injection processes

***hugenholtz-pines theory***

USE van hove-hugenholtz theory

**HULTHEN POTENTIAL**

1976-07-06  
 \*BT1 nuclear potential

***human cells***

USE animal cells

***human chorionic gonadotropin***

USE hcg

**HUMAN CHROMOSOME 1**

*INIS: 1994-01-04; ETDE: 1993-12-28*  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 12**

1993-02-17  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 13**

*INIS: 1994-01-04; ETDE: 1993-12-28*  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 14**

1993-02-17  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 15**

*INIS: 1994-01-04; ETDE: 1993-12-28*  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 16**

*INIS: 1992-01-14; ETDE: 1987-10-22*  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 17**

*INIS: 1991-12-11; ETDE: 1989-01-27*  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 18**

*INIS: 1991-12-11; ETDE: 1992-01-24*  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 19**

*INIS: 1991-12-11; ETDE: 1987-07-31*  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 2**

1992-10-28  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 21**

*INIS: 1991-12-11; ETDE: 1987-07-31*  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 22**

1992-09-24  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 3**

*INIS: 2000-04-12; ETDE: 1992-11-30*  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 5**

*INIS: 1991-12-11; ETDE: 1988-04-15*  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 6**

*INIS: 2000-04-12; ETDE: 1993-12-28*  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 7**

*INIS: 1994-01-04; ETDE: 1993-12-28*  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 8**

1993-02-17  
 \*BT1 human chromosomes

**HUMAN CHROMOSOME 9**

*INIS: 2000-04-12; ETDE: 1993-12-28*  
 \*BT1 human chromosomes

**HUMAN CHROMOSOMES**

*INIS: 1997-06-17; ETDE: 1991-12-05*  
 (Prior to October 1991, this was indexed by  
 CHROMOSOMES.)

BT1 chromosomes  
 NT1 human chromosome 1  
 NT1 human chromosome 12  
 NT1 human chromosome 13  
 NT1 human chromosome 14  
 NT1 human chromosome 15  
 NT1 human chromosome 16  
 NT1 human chromosome 17  
 NT1 human chromosome 18  
 NT1 human chromosome 19  
 NT1 human chromosome 2  
 NT1 human chromosome 21  
 NT1 human chromosome 22  
 NT1 human chromosome 3  
 NT1 human chromosome 5  
 NT1 human chromosome 6

NT1 human chromosome 7  
 NT1 human chromosome 8  
 NT1 human chromosome 9  
 NT1 human x chromosome  
 NT1 human y chromosome  
 NT1 philadelphia chromosome  
 RT banding techniques  
 RT cell nuclei  
 RT chromatids  
 RT chromatin  
 RT chromosomal aberrations  
 RT chromosome sorting  
 RT dna  
 RT dna repair  
 RT gene regulation  
 RT genes  
 RT genetic effects  
 RT genetic mapping  
 RT karyotype  
 RT mitosis  
 RT nucleoli  
 RT rflps

**HUMAN FACTORS**

1982-02-09  
*Aspects of human behavior which influence  
 events or situations, e.g. actions of operators  
 at nuclear power plants.*

*SF* *psychology*  
 RT accidents  
 RT aesthetics  
 RT attitudes  
 RT behavior  
 RT drug abuse  
 RT failures  
 RT man-machine systems  
 RT personnel  
 RT safety  
 RT safety culture  
 RT safety engineering  
 RT sociology

**HUMAN FACTORS ENGINEERING**

*INIS: 1995-01-23; ETDE: 1982-06-07*  
*Application of information on physical and  
 psychological characteristics of man to the  
 design of devices and systems for human use.*

*UF* *ergonomics*  
 BT1 engineering  
 RT accidents  
 RT equipment  
 RT hazards  
 RT man-machine systems  
 RT personnel  
 RT safety  
 RT working conditions

***human immune deficiency virus***

2004-05-28  
 USE aids virus

**HUMAN INTRUSION**

*INIS: 1985-07-23; ETDE: 1990-09-13*  
*Unauthorized entering of people into  
 restricted areas, facilities, etc. See also  
 BIOINTRUSION.*

*UF* *infiltration (by people)*  
*UF* *intrusion (human)*  
*SF* *intrusion*  
 RT entry control systems  
 RT fences  
 RT interest groups  
 RT nuclear facilities  
 RT physical protection  
 RT sabotage  
 RT security

***human placental lactogen***

USE hpl

**HUMAN POPULATIONS**

(From August 1980 till April 1997 DEMOGRAPHY was a valid ETDE descriptor.)

UF demography  
 UF humans  
 UF people  
 BT1 populations  
 NT1 a-bomb survivors  
 NT1 eskimos  
 NT1 minority groups  
 NT2 american indians  
 NT2 black americans  
 NT2 elderly people  
 NT2 handicapped people  
 NT2 high income groups  
 NT2 hispanic americans  
 NT2 lapps  
 NT2 low income groups  
 NT2 oriental americans  
 NT1 rural populations  
 NT1 urban populations  
 RT anthropology  
 RT boom towns  
 RT civil defense  
 RT communities  
 RT cuex  
 RT epidemiology  
 RT health services  
 RT icrp critical group  
 RT interest groups  
 RT man  
 RT occupants  
 RT patients  
 RT personnel  
 RT population dynamics  
 RT population relocation  
 RT public health  
 RT regional analysis  
 RT residential sector  
 RT sociology

**human serum albumin**

INIS: 1984-04-04; ETDE: 2002-06-13  
 USE albumins  
 USE blood serum

**human tissues**

INIS: 1997-01-28; ETDE: 1996-04-02  
 USE animal tissues

**HUMAN X CHROMOSOME**

INIS: 1992-01-08; ETDE: 1988-04-15  
 \*BT1 human chromosomes  
 \*BT1 x chromosome

**HUMAN Y CHROMOSOME**

INIS: 1992-01-08; ETDE: 1988-04-15  
 \*BT1 human chromosomes  
 \*BT1 y chromosome

**humans**

INIS: 2000-04-12; ETDE: 1981-06-16  
 USE human populations

**humboldt bay**

1996-07-18  
 (Until July 1996 this was a valid descriptor.)  
 USE california  
 USE pacific ocean

**HUMBOLDT BAY REACTOR**

Pacific Gas and Electric Co., Eureka, California, USA. Shut down in 1976; decommissioned in 1988.  
 \*BT1 bwr type reactors

**HUMBOLDT GASIFICATION****PROCESS**

INIS: 2000-04-12; ETDE: 1983-04-28  
 This process is based on the dissolution of carbon in molten iron. During the process the coal is completely converted leaving no by-products such as tar or other heavy hydrocarbons. The gas produced is practically sulfur free.  
 \*BT1 coal gasification

**humeca uranium mill**

INIS: 1996-07-18; ETDE: 1976-08-04  
 (Until July 1996 this was a valid descriptor.)  
 USE nuclear facilities

**HUMIC ACIDS**

\*BT1 organic acids  
 RT fulvic acids  
 RT humus  
 RT soils

**HUMIDIFIERS**

INIS: 2000-04-12; ETDE: 1977-06-21  
 RT dehumidifiers  
 RT electric appliances  
 RT humidity control

**HUMIDISTATS**

\*BT1 control equipment  
 RT humidity control

**HUMIDITY**

SF water content  
 BT1 moisture  
 RT dew point  
 RT humidity recovery  
 RT hygrometry  
 RT moisture gages  
 RT water vapor

**HUMIDITY CONTROL**

BT1 control  
 RT air conditioning  
 RT humidifiers  
 RT humidistats  
 RT humidity recovery  
 RT thermal comfort

**HUMIDITY RECOVERY**

2004-09-14  
 RT air conditioners  
 RT heat recovery  
 RT humidity  
 RT humidity control

**HUMUS**

Material resulting from partial decomposition of plant or animal matter and forming the organic portion of soil.  
 RT forest litter  
 RT fulvic acids  
 RT humic acids  
 RT soils

**HUNGARIAN ORGANIZATIONS**

1986-04-03  
 BT1 national organizations  
 NT1 atomki

**hungarian paks-1 reactor**

USE paks-1 reactor

**hungarian paks-2 reactor**

USE paks-2 reactor

**hungarian paks-3 reactor**

INIS: 1980-07-24; ETDE: 1980-08-12  
 USE paks-3 reactor

**hungarian paks-4 reactor**

INIS: 1980-07-24; ETDE: 1980-08-12  
 USE paks-4 reactor

**hungarian wwr-c reactor**

USE wwr-s-budapest reactor

**HUNGARY**

BT1 developing countries  
 \*BT1 eastern europe  
 RT danube river  
 RT oecd

**HUNTERSTON-A REACTOR**

Hunterston, Ayrshire, United Kingdom.  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 magnox type reactors  
 \*BT1 thermal reactors

**HUNTERSTON-B REACTOR**

Hunterston, Ayrshire, United Kingdom.  
 \*BT1 agr type reactors  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**HURRICANES**

BT1 storms  
 RT monsoons  
 RT turbulence  
 RT water waves  
 RT weather  
 RT wind

**HURWITZ EFFECT**

UF bethe-hurwitz effect  
 RT nuclear models

**hushed echo event**

INIS: 2000-04-12; ETDE: 1975-12-16  
 USE bedrock project

**husky ace event**

INIS: 2000-04-12; ETDE: 1975-09-11  
 A test made during PROJECT ARBOR. (Prior to January 1995, this was a valid ETDE descriptor.)  
 USE nuclear explosions  
 USE underground explosions

**husky pup event**

INIS: 2000-04-12; ETDE: 1977-06-21  
 USE anvil project

**hutch event**

1994-10-14  
 A test made during OPERATION MANDREL. (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE nuclear explosions  
 USE underground explosions

**hutchinson island-1 reactor**

USE lucie-1 reactor

**hutchinson island-2 reactor**

USE lucie-2 reactor

**huttonite**

1997-01-28  
 (Until October 1996 this was a valid descriptor.)  
 USE silicate minerals  
 USE thorium minerals

**HUYGENS PRINCIPLE**

RT wave propagation

**HVAC SYSTEMS**

INIS: 1996-01-31; ETDE: 1976-05-17  
 69 kV to 230 kV.  
 UF high voltage alternating current systems

\*BT1 ac systems

## HVDC SYSTEMS

1996-01-31

69 kV to 230 kV.

UF high voltage direct current systems

\*BT1 dc systems

## HWCTR REACTOR

Savannah River Plant, Aiken, South Carolina, USA. Shut down in 1964.

UF heavy water components test reactor

\*BT1 enriched uranium reactors

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 materials testing reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

## HWGCR TYPE REACTORS

UF heavy water moderated and gas cooled reactors

\*BT1 gas cooled reactors

\*BT1 heavy water moderated reactors

NT1 bohunice a-1 reactor

NT1 bohunice a-2 reactor

NT1 el-4 reactor

NT1 lucens reactor

NT1 niederaichbach reactor

RT power reactors

## HWLWR TYPE REACTORS

UF heavy water moderated and water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 water cooled reactors

NT1 cirene reactor

NT1 gentilly reactor

NT1 jatp reactor

RT power reactors

## HWRR REACTOR

INIS: 2003-02-03; ETDE: 2003-01-24

CIAE, Beijing, China.

UF heavy water research reactor

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 materials testing reactors

\*BT1 research reactors

## HWZPR REACTOR

2003-08-14

Esfahan nuclear technology centre, Iran.

UF heavy water zero power reactor

\*BT1 heavy water moderated reactors

\*BT1 natural uranium reactors

\*BT1 thermal reactors

\*BT1 zero power reactors

## HYALURONIC ACID

\*BT1 mucopolysaccharides

RT glucuronic acid

RT hyaluronidase

## HYALURONIDASE

Code numbers 3.2.1.35 and 3.2.1.36.

\*BT1 carbon-oxygen lyases

\*BT1 o-glycosyl hydrolases

RT hyaluronic acid

## HYBRID COMPUTERS

BT1 computers

## HYBRID ELECTRIC-POWERED VEHICLES

1992-04-14

\*BT1 electric-powered vehicles

RT electric batteries

RT hybrid systems

## HYBRID REACTORS

Devices in which controlled self-sustaining fission-fusion processes take place.

RT hybrid systems

RT lotus facility

RT reactors

RT thermonuclear reactors

## HYBRID RESONANCE

BT1 resonance

## HYBRID SYSTEMS

1992-04-14

Systems using two different types of components performing essentially the same function.

RT hybrid electric-powered vehicles

RT hybrid reactors

RT power transmission

RT thermonuclear reactors

## HYBRIDIZATION

UF heterozygotes

UF homozygotes

UF hybrids

UF mixing (genetic)

NT1 dna hybridization

NT2 dna-cloning

RT electronic structure

RT genetic engineering

RT genetics

RT wave functions

## HYBRIDOMAS

INIS: 1986-05-23; ETDE: 1984-01-27

Hybrid cells resulting from the fusion of myeloma cells with lymphocytes; often used in the production of monoclonal antibodies.

UF fused cells (animal)

BT1 animal cells

RT biotechnology

RT cell cultures

RT dna hybridization

RT lymphocytes

RT monoclonal antibodies

## hybrids

USE hybridization

## HYBTOK TOKAMAKS

INIS: 1991-08-12; ETDE: 1991-09-13

\*BT1 tokamak devices

## hycsos

INIS: 2000-04-12; ETDE: 1979-09-26

Chemical heat pump based on metal hydrides.

Hydride Conversion and Storage System.

USE chemical heat pumps

## HYDANTOINS

INIS: 2000-04-12; ETDE: 1985-05-07

\*BT1 imidazoles

RT urea

## HYDATIDOSIS

\*BT1 parasitic diseases

RT cestodes

RT parasites

## HYDRA

\*BT1 cnidaria

## hydra reactor

2004-09-09

Russian Research Center, Kurchatov Institute, Moscow, Russia.

USE gidra reactor

## HYDRANE PROCESS

2000-04-12

Production of pipeline gas from coal by direct conversion with H to give CH4. 1000 psi H

flows upward through free-falling pulverized coal at 725 degrees. Carbon, hydrogen sulfide, and dust are removed from product.

\*BT1 coal gasification

BT1 sng processes

## hydration

USE hydration

## hydrated electrons

USE hydration

USE solvated electrons

## HYDRATES

For chemical compounds or minerals.

NT1 gas hydrates

NT1 unh

RT water

## HYDRATION

Addition of water; for addition of hydrogen use HYDROGENATION.

UF hydration

UF hydrated electrons

BT1 solvation

## HYDRAULIC ACCUMULATORS

INIS: 2000-04-12; ETDE: 1979-08-07

Devices that store potential energy by accumulating a quantity of pressurized hydraulic fluid in a pressure vessel.

BT1 mechanical energy storage equipment

\*BT1 tanks

RT energy storage

RT hydraulic equipment

RT hydraulics

## HYDRAULIC CONDUCTIVITY

INIS: 1983-06-30; ETDE: 1982-03-10

Rate of water flow through porous rock, soil, etc.

UF meinzer unit

UF permeability coefficient (fluid mechanics)

RT fluid mechanics

RT ground water

RT hydrology

RT liquid flow

RT underground disposal

## HYDRAULIC CONTROL DEVICES

\*BT1 control equipment

\*BT1 hydraulic equipment

RT hydraulics

RT remote control

## HYDRAULIC EQUIPMENT

INIS: 1986-07-09; ETDE: 1977-01-28

BT1 equipment

NT1 hydraulic control devices

RT hydraulic accumulators

RT hydraulic fluids

RT hydraulics

RT natural gas wells

RT petroleum

RT well completion

RT well drilling

## HYDRAULIC FLUIDS

INIS: 1992-03-05; ETDE: 1981-11-24

\*BT1 working fluids

RT hydraulic equipment

## HYDRAULIC FRACTURES

INIS: 1992-05-12; ETDE: 1980-07-09

\*BT1 fractures

RT cracks

RT fracturing fluids

RT hot-dry-rock systems

RT hydraulic fracturing

**HYDRAULIC FRACTURING**

1975-12-09

*Fracturing of deep rock strata by hydraulic pressure, frequently for the deposition of radioactive wastes.*

BT1 fracturing  
 RT fluid injection  
 RT fractures  
 RT fracturing fluids  
 RT hydraulic fractures  
 RT waste disposal  
 RT well stimulation

**hydraulic fracturing fluids**

INIS: 2000-04-12; ETDE: 1982-10-05

USE fracturing fluids

**HYDRAULIC MINING**

INIS: 2000-04-12; ETDE: 1977-05-07

BT1 mining  
 RT auger mining  
 RT longwall mining  
 RT mining engineering

**hydraulic rams**

INIS: 2000-04-12; ETDE: 1977-01-10

USE pumps

**HYDRAULIC TRANSPORT**

INIS: 1984-02-22; ETDE: 1976-08-24

BT1 transport  
 RT hydraulics  
 RT materials handling  
 RT pipelines  
 RT slurries  
 RT slurry pipelines

**HYDRAULIC TURBINES**

INIS: 1992-02-19; ETDE: 1976-11-17

*Machines which convert the energy of an elevated water supply into mechanical energy of a rotating shaft.*

\*BT1 turbines  
 NT1 pump turbines  
 RT hydraulics  
 RT penstocks  
 RT turbogenerators  
 RT water wheels

**HYDRAULICS**

\*BT1 fluid mechanics  
 NT1 thermal hydraulics  
 RT flow rate  
 RT fluid flow  
 RT friction factor  
 RT hydraulic accumulators  
 RT hydraulic control devices  
 RT hydraulic equipment  
 RT hydraulic transport  
 RT hydraulic turbines  
 RT hydrodynamics  
 RT penstocks  
 RT pneumatics  
 RT solids flow  
 RT surges  
 RT water hammer

**HYDRAZIDES**

\*BT1 organic nitrogen compounds  
 NT1 isoniazid  
 RT hydrazine  
 RT organic acids

**HYDRAZINE**

1996-07-08

BT1 nitrogen compounds  
 RT dpsh  
 RT hydrazides  
 RT hydrazones

**HYDRAZINE FUEL CELLS**

2000-04-12

\*BT1 fuel cells

**HYDRAZOIC ACID**

INIS: 1988-06-22; ETDE: 1977-04-12

UF azomide

\*BT1 inorganic acids  
 RT azides

**HYDRAZONES**

\*BT1 organic nitrogen compounds  
 RT aldehydes  
 RT hydrazine  
 RT ketones

**HYDRIDATION**

BT1 chemical reactions  
 RT dehydridation  
 RT hydrides  
 RT hydrogen  
 RT hydrogen embrittlement

**HYDRIDE MODERATED REACTORS**

BT1 reactors  
 NT1 acpr reactor  
 NT1 anex reactor  
 NT1 nsrr reactor  
 NT1 stir reactor  
 NT1 szr type reactors  
 NT2 knk-2 reactor  
 NT2 knk reactor  
 NT1 topaz reactor  
 NT1 triga type reactors  
 NT2 afri reactor  
 NT2 atrp reactor  
 NT2 colorado triga-mk-3 reactor  
 NT2 cornell triga-mk-2 reactor  
 NT2 dow triga-mk-1 reactor  
 NT2 fir-1 reactor  
 NT2 fir-2 reactor  
 NT2 frn reactor  
 NT2 gulf triga-mk-3 reactor  
 NT2 kartini-ppny reactor  
 NT2 lopra reactor  
 NT2 nscr reactor  
 NT2 ostr reactor  
 NT2 prpr reactor  
 NT2 pstr reactor  
 NT2 rtp reactor  
 NT2 trico reactor  
 NT2 triga-1-arizona reactor  
 NT2 triga-1-california reactor  
 NT2 triga-1-hanford reactor  
 NT2 triga-1-hanover reactor  
 NT2 triga-1-heidelberg reactor  
 NT2 triga-1-michigan reactor  
 NT2 triga-2-bandung reactor  
 NT2 triga-2-bangladesh reactor  
 NT2 triga-2-dalat reactor  
 NT2 triga-2-illinois reactor  
 NT2 triga-2-kansas reactor  
 NT2 triga-2-ljubljana reactor  
 NT2 triga-2-mainz reactor  
 NT2 triga-2-musashi reactor  
 NT2 triga-2-pavia reactor  
 NT2 triga-2-pitesti reactor  
 NT2 triga-2 reactor  
 NT2 triga-2-rikkyo reactor  
 NT2 triga-2-rome reactor  
 NT2 triga-2-seoul reactor  
 NT2 triga-2-vienna reactor  
 NT2 triga-3-la jolla reactor  
 NT2 triga-3-munich reactor  
 NT2 triga-3-salazar reactor  
 NT2 triga-3-seoul reactor  
 NT2 triga-brazil reactor  
 NT2 triga-texas reactor  
 NT2 triga-veterans reactor  
 NT2 ucbr reactor

NT2 uwnr reactor

NT2 wsur reactor

NT1 xma-1 reactor

RT hydride moderators

**HYDRIDE MODERATORS**

BT1 moderators  
 RT hydride moderated reactors  
 RT hydrides  
 RT szr type reactors  
 RT topaz reactor  
 RT zirconium hydrides

**HYDRIDES**

1997-06-17

UF actinium hydrides  
 UF berkelium hydrides  
 UF curium hydrides  
 UF protactinium hydrides  
 UF xenon hydrides  
 BT1 hydrogen compounds  
 NT1 aluminium hydrides  
 NT1 americium hydrides  
 NT1 antimony hydrides  
 NT1 argon hydrides  
 NT1 arsenic hydrides  
 NT1 barium hydrides  
 NT1 beryllium hydrides  
 NT1 bismuth hydrides  
 NT1 boranes  
 NT1 boron hydrides  
 NT1 calcium hydrides  
 NT1 cerium hydrides  
 NT1 cesium hydrides  
 NT1 chromium hydrides  
 NT1 cobalt hydrides  
 NT1 copper hydrides  
 NT1 dysprosium hydrides  
 NT1 erbium hydrides  
 NT1 europium hydrides  
 NT1 gadolinium hydrides  
 NT1 germanium hydrides  
 NT1 gold hydrides  
 NT1 hafnium hydrides  
 NT1 helium hydrides  
 NT1 holmium hydrides  
 NT1 indium hydrides  
 NT1 iridium hydrides  
 NT1 iron hydrides  
 NT1 krypton hydrides  
 NT1 lanthanum hydrides  
 NT1 lead hydrides  
 NT1 lithium hydrides  
 NT2 lithium deuterides  
 NT2 lithium tritides  
 NT1 lutetium hydrides  
 NT1 magnesium hydrides  
 NT1 manganese hydrides  
 NT1 mercury hydrides  
 NT1 molybdenum hydrides  
 NT1 neodymium hydrides  
 NT1 neon hydrides  
 NT1 neptunium hydrides  
 NT1 nickel hydrides  
 NT1 niobium hydrides  
 NT1 nitrogen hydrides  
 NT2 ammonia  
 NT1 palladium hydrides  
 NT1 phosphorus hydrides  
 NT1 platinum hydrides  
 NT1 plutonium hydrides  
 NT1 potassium hydrides  
 NT1 praseodymium hydrides  
 NT1 rhenium hydrides  
 NT1 rhodium hydrides  
 NT1 rubidium hydrides  
 NT1 ruthenium hydrides  
 NT1 samarium hydrides  
 NT1 scandium hydrides  
 NT1 selenium hydrides

NT1 silanes  
 NT1 silver hydrides  
 NT1 sodium hydrides  
 NT1 strontium hydrides  
 NT1 tantalum hydrides  
 NT1 technetium hydrides  
 NT1 tellurium hydrides  
 NT1 terbium hydrides  
 NT1 thallium hydrides  
 NT1 thorium hydrides  
 NT1 thulium hydrides  
 NT1 tin hydrides  
 NT1 titanium hydrides  
 NT1 tungsten hydrides  
 NT1 uranium hydrides  
 NT1 vanadium hydrides  
 NT1 ytterbium hydrides  
 NT1 yttrium hydrides  
 NT1 zinc hydrides  
 NT1 zirconium hydrides  
 RT hydridation  
 RT hydride moderators  
 RT hydrogen additions  
 RT hydrogen storage

**HYDRIODIC ACID**

UF *hydrogen iodides*  
 \*BT1 inorganic acids  
 \*BT1 iodine compounds  
 RT iodides

**HYDRO-LYASES**

INIS: 1986-12-03; ETDE: 1981-01-12  
 Code number 4.2.1.  
 \*BT1 carbon-oxygen lyases  
 NT1 carbonic anhydrase

**HYDROAROMATICS**

INIS: 2000-04-12; ETDE: 1991-08-27  
 UF *naphthenes*  
 BT1 organic compounds  
 NT1 tetralin  
 RT aromatics  
 RT redox reactions

**HYDROBROMIC ACID**

UF *hydrogen bromides*  
 \*BT1 bromine compounds  
 \*BT1 inorganic acids  
 RT bromides

**HYDROCARBON FUEL CELLS**

1992-05-20  
 \*BT1 fuel cells

**hydrocarbon logging**

INIS: 2000-04-12; ETDE: 1979-03-27  
 USE gas meters  
 USE well logging

**HYDROCARBONS**

1996-10-22  
 UF *violanthrone*  
 BT1 organic compounds  
 NT1 acenaphthene  
 NT1 alkanes  
 NT2 2-2-dimethylpropane  
 NT2 2-methylbutane  
 NT2 2-methylpropane  
 NT2 butane  
 NT2 cycloalkanes  
 NT3 cyclohexane  
 NT3 decalin  
 NT2 decane  
 NT2 dodecane  
 NT2 ethane  
 NT2 heptane  
 NT2 hexadecane  
 NT2 hexane  
 NT2 methane  
 NT2 octane

NT2 paraffin  
 NT2 pentane  
 NT2 propane  
 NT2 squalane  
 NT1 alkenes  
 NT2 2-methylpropene  
 NT2 butenes  
 NT2 cycloalkenes  
 NT3 cyclopentadiene  
 NT3 norbornadiene  
 NT3 quadricyclene  
 NT2 ethylene  
 NT2 heptenes  
 NT2 hexenes  
 NT2 octenes  
 NT2 pentenes  
 NT2 propylene  
 NT1 alkynes  
 NT2 acetylene  
 NT2 cycloalkynes  
 NT2 propyne  
 NT1 anthracene  
 NT1 azulene  
 NT1 benzanthracene  
 NT1 benzene  
 NT1 benzopyrene  
 NT1 biphenyl  
 NT1 carotenoids  
 NT1 chrysene  
 NT1 cumene  
 NT1 cymene  
 NT1 divinylbenzene  
 NT1 durene  
 NT1 fluorene  
 NT1 indan  
 NT1 indene  
 NT1 mesitylene  
 NT1 naphthalene  
 NT1 oligophenylenes  
 NT1 pentacene  
 NT1 phenanthrene  
 NT1 polycyclic aromatic hydrocarbons  
 NT2 3-methylcholanthrene  
 NT1 polyenes  
 NT2 dienes  
 NT3 allene  
 NT3 butadiene  
 NT3 cyclopentadiene  
 NT3 ferrocene  
 NT3 isoprene  
 NT3 pentadienes  
 NT2 polyacetylenes  
 NT2 squalene  
 NT1 polyphenyls  
 NT2 terphenyls  
 NT3 terphenyl-ortho  
 NT3 terphenyl-para  
 NT1 pyrene  
 NT1 quaterphenyls  
 NT1 stilbene  
 NT1 styrene  
 NT1 tetracene  
 NT1 tetralin  
 NT1 tolan  
 NT1 toluene  
 NT1 triphenylene  
 NT1 xylenes  
 NT2 xylene-para  
 RT aromatics  
 RT bromoform  
 RT fischer-tropsch synthesis  
 RT fish oil  
 RT fluidized bed hydrogenation process  
 RT fluoroform  
 RT freons  
 RT iodoforn  
 RT meadow foam  
 RT oils  
 RT partial oxidation processes

RT petroleum  
 RT refrigerants  
 RT shell gasification process  
 RT turpentine

**hydrocephalus**

USE malformations

**HYDROCHLORIC ACID**

UF *hydrogen chlorides*  
 \*BT1 chlorine compounds  
 \*BT1 inorganic acids  
 RT aqua regia  
 RT chlorides

**HYDROCORTISONE**

UF *cortisol*  
 \*BT1 glucocorticoids

**HYDROCRACKING**

2000-05-08  
 \*BT1 cracking  
 RT catalytic cracking  
 RT thermal cracking

**HYDROCYANIC ACID**

UF *hydrogen cyanides*  
 \*BT1 inorganic acids  
 RT cyanides

**hydrocyclones**

INIS: 2000-04-12; ETDE: 1978-07-27  
 USE cyclone separators

**HYDRODYNAMIC MASS EFFECT**

INIS: 1976-03-17; ETDE: 1976-08-24  
*A virtual increase of the mass of solids when vibrating in fluids.*  
 UF *added mass effect*  
 UF *virtual mass effect*  
 RT damping  
 RT eigenfrequency  
 RT hydrodynamics  
 RT mechanical vibrations

**HYDRODYNAMIC MODEL**

*A model for particle production in high-energy collisions that applies relativistic hydrodynamics to the coalesced hadronic matter.*  
 \*BT1 thermodynamic model  
 RT nuclear models  
 RT particle production

**HYDRODYNAMICS**

\*BT1 fluid mechanics  
 NT1 electrohydrodynamics  
 NT1 magnetohydrodynamics  
 RT counterflow systems  
 RT crossflow systems  
 RT fluid flow  
 RT flute instability  
 RT hydraulics  
 RT hydrodynamic mass effect  
 RT liquid flow  
 RT rayleigh-taylor instability  
 RT working fluids

**HYDROELECTRIC POWER**

UF *hydroelectricity*  
 \*BT1 electric power  
 \*BT1 renewable energy sources  
 RT grand river  
 RT hydroelectric power plants  
 RT pumped storage power plants  
 RT water current power generators

**HYDROELECTRIC POWER PLANTS**

1997-10-03  
 BT1 power plants  
 NT1 high-head hydroelectric power plants  
 NT1 low-head hydroelectric power plants

**NT1** medium-head hydroelectric power plants  
**NT1** micro-scale hydroelectric power plants  
**NT1** pumped storage power plants  
**NT1** small-scale hydroelectric power plants  
*RT* altamaha river  
*RT* au sable river  
*RT* dams  
*RT* fish passage facilities  
*RT* flood control  
*RT* hydroelectric power  
*RT* lewis river  
*RT* little tennessee river  
*RT* menominee river  
*RT* peaking power plants  
*RT* penstocks  
*RT* pumped storage  
*RT* saginaw river  
*RT* skagit river  
*RT* spillways  
*RT* turbines  
*RT* water wheels

**hydroelectricity**

USE hydroelectric power

**HYDROFLUORIC ACID**

*UF* hydrogen fluorides  
 \*BT1 fluorine compounds  
 \*BT1 inorganic acids  
*RT* fluorides

**hydroformylation**

*INIS: 2000-04-12; ETDE: 1983-06-20*  
 USE carbonylation

**HYDROGELS**

2006-02-06  
*Two-phase colloidal systems in which the disperse phase (particles) has combined with water.*  
 \*BT1 gels  
*RT* polymers  
*RT* water

**HYDROGEN**

\*BT1 nonmetals  
*RT* balmer lines  
*RT* cryogenic fluids  
*RT* dehydration  
*RT* h1 regions  
*RT* hydridation  
*RT* hydrogen-based economy  
*RT* hydrogen embrittlement  
*RT* hydrogen fuels  
*RT* hydrogen meters  
*RT* hydrogen production  
*RT* hydrogen storage  
*RT* lyman lines

**HYDROGEN 1**

*UF* protium  
 \*BT1 hydrogen isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes  
*RT* hydrogen deuteride

**HYDROGEN 1 MINUS BEAMS**

*INIS: 1978-08-14; ETDE: 1978-10-19*  
*UF* hydrogen minus 1 beams  
 \*BT1 ion beams

**HYDROGEN 1 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**hydrogen 2**

USE deuterium

**hydrogen 3**

USE tritium

**HYDROGEN 4**

\*BT1 hydrogen isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei

**HYDROGEN 5**

\*BT1 hydrogen isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei

**HYDROGEN 6**

\*BT1 hydrogen isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei

**HYDROGEN 7**

\*BT1 hydrogen isotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei

**HYDROGEN ADDITIONS**

*RT* hydrides

**HYDROGEN-BASED ECONOMY**

2000-04-12  
*Energy industry based on hydrogen for energy storage, distribution, and utilization.*  
*RT* hydrogen  
*RT* hydrogen storage  
*RT* industry

**hydrogen bromides**

USE hydrobromic acid

**HYDROGEN BURNING**

*INIS: 1978-11-24; ETDE: 1980-07-23*  
*Astrophysical processes only.*  
*UF* pp chain  
*UF* proton-proton cycle  
 BT1 star burning  
*RT* main sequence stars  
*RT* nucleosynthesis  
*RT* star evolution  
*RT* star models

**hydrogen chlorides**

USE hydrochloric acid

**HYDROGEN COMPLEXES**

BT1 complexes

**HYDROGEN COMPOUNDS**

**NT1** borohydrides  
**NT2** uranium borohydrides  
**NT1** deuterium compounds  
**NT2** deuterides  
**NT3** hydrogen deuteride  
**NT3** lithium deuterides  
**NT2** deuterium tritide  
**NT2** heavy water  
**NT1** hydrides  
**NT2** aluminium hydrides  
**NT2** americium hydrides  
**NT2** antimony hydrides  
**NT2** argon hydrides  
**NT2** arsenic hydrides  
**NT2** barium hydrides  
**NT2** beryllium hydrides  
**NT2** bismuth hydrides  
**NT2** boranes  
**NT2** boron hydrides  
**NT2** calcium hydrides  
**NT2** cerium hydrides  
**NT2** cesium hydrides  
**NT2** chromium hydrides  
**NT2** cobalt hydrides  
**NT2** copper hydrides  
**NT2** dysprosium hydrides  
**NT2** erbium hydrides

**NT2** europium hydrides  
**NT2** gadolinium hydrides  
**NT2** germanium hydrides  
**NT2** gold hydrides  
**NT2** hafnium hydrides  
**NT2** helium hydrides  
**NT2** holmium hydrides  
**NT2** indium hydrides  
**NT2** iridium hydrides  
**NT2** iron hydrides  
**NT2** krypton hydrides  
**NT2** lanthanum hydrides  
**NT2** lead hydrides  
**NT2** lithium hydrides  
**NT3** lithium deuterides  
**NT3** lithium tritides  
**NT2** lutetium hydrides  
**NT2** magnesium hydrides  
**NT2** manganese hydrides  
**NT2** mercury hydrides  
**NT2** molybdenum hydrides  
**NT2** neodymium hydrides  
**NT2** neon hydrides  
**NT2** neptunium hydrides  
**NT2** nickel hydrides  
**NT2** niobium hydrides  
**NT2** nitrogen hydrides  
**NT3** ammonia  
**NT2** palladium hydrides  
**NT2** phosphorus hydrides  
**NT2** platinum hydrides  
**NT2** plutonium hydrides  
**NT2** potassium hydrides  
**NT2** praseodymium hydrides  
**NT2** rhenium hydrides  
**NT2** rhodium hydrides  
**NT2** rubidium hydrides  
**NT2** ruthenium hydrides  
**NT2** samarium hydrides  
**NT2** scandium hydrides  
**NT2** selenium hydrides  
**NT2** silanes  
**NT2** silver hydrides  
**NT2** sodium hydrides  
**NT2** strontium hydrides  
**NT2** tantalum hydrides  
**NT2** technetium hydrides  
**NT2** tellurium hydrides  
**NT2** terbium hydrides  
**NT2** thallium hydrides  
**NT2** thorium hydrides  
**NT2** thulium hydrides  
**NT2** tin hydrides  
**NT2** titanium hydrides  
**NT2** tungsten hydrides  
**NT2** uranium hydrides  
**NT2** vanadium hydrides  
**NT2** ytterbium hydrides  
**NT2** yttrium hydrides  
**NT2** zinc hydrides  
**NT2** zirconium hydrides  
**NT1** hydrogen peroxide  
**NT1** hydrogen sulfides  
**NT1** hydroxides  
**NT2** aluminium hydroxides  
**NT2** americium hydroxides  
**NT2** ammonium hydroxides  
**NT2** antimony hydroxides  
**NT2** barium hydroxides  
**NT2** beryllium hydroxides  
**NT2** bismuth hydroxides  
**NT2** boron hydroxides  
**NT2** cadmium hydroxides  
**NT2** calcium hydroxides  
**NT2** cerium hydroxides  
**NT2** cesium hydroxides  
**NT2** chromium hydroxides  
**NT2** cobalt hydroxides  
**NT2** copper hydroxides

NT2 dysprosium hydroxides  
 NT2 erbium hydroxides  
 NT2 europium hydroxides  
 NT2 gadolinium hydroxides  
 NT2 gallium hydroxides  
 NT2 hafnium hydroxides  
 NT2 holmium hydroxides  
 NT2 indium hydroxides  
 NT2 iron hydroxides  
 NT2 lanthanum hydroxides  
 NT2 lead hydroxides  
 NT2 lithium hydroxides  
 NT2 lutetium hydroxides  
 NT2 magnesium hydroxides  
 NT2 manganese hydroxides  
 NT2 molybdenum hydroxides  
 NT2 neodymium hydroxides  
 NT2 neptunium hydroxides  
 NT2 nickel hydroxides  
 NT2 niobium hydroxides  
 NT2 platinum hydroxides  
 NT2 plutonium hydroxides  
 NT2 potassium hydroxides  
 NT2 praseodymium hydroxides  
 NT2 promethium hydroxides  
 NT2 rubidium hydroxides  
 NT2 ruthenium hydroxides  
 NT2 samarium hydroxides  
 NT2 scandium hydroxides  
 NT2 silicon hydroxides  
 NT2 silver hydroxides  
 NT2 sodium hydroxides  
 NT2 strontium hydroxides  
 NT2 tantalum hydroxides  
 NT2 tellurium hydroxides  
 NT2 terbium hydroxides  
 NT2 thorium hydroxides  
 NT2 thulium hydroxides  
 NT2 tin hydroxides  
 NT2 titanium hydroxides  
 NT2 tungsten hydroxides  
 NT2 uranium hydroxides  
 NT2 vanadium hydroxides  
 NT2 ytterbium hydroxides  
 NT2 yttrium hydroxides  
 NT2 zinc hydroxides  
 NT2 zirconium hydroxides  
 NT1 inorganic acids  
 NT2 boric acid  
 NT2 broensted acids  
 NT2 bromic acid  
 NT2 carbonic acid  
 NT2 chloric acid  
 NT2 chlorous acid  
 NT2 chromic acid  
 NT2 fluoroboric acid  
 NT2 hydrazoic acid  
 NT2 hydroiodic acid  
 NT2 hydrobromic acid  
 NT2 hydrochloric acid  
 NT2 hydrocyanic acid  
 NT2 hydrofluoric acid  
 NT2 hypochlorous acid  
 NT2 hypofluorous acid  
 NT2 hypiodous acid  
 NT2 hypophosphorous acid  
 NT2 iodic acid  
 NT2 lewis acids  
 NT2 molybdic acid  
 NT2 molybdophosphoric acid  
 NT2 nitric acid  
 NT2 nitrous acid  
 NT2 perchloric acid  
 NT2 periodic acid  
 NT2 phosphoric acid  
 NT2 phosphorous acid  
 NT2 silicic acid  
 NT2 sulfamic acid  
 NT2 sulfuric acid

NT2 sulfurous acid  
 NT2 telluric acid  
 NT2 tungstophosphoric acid  
 NT1 tritium compounds  
 NT2 tritides  
 NT3 deuterium tritide  
 NT3 helium tritides  
 NT3 hydrogen tritide  
 NT3 lithium tritides  
 NT2 tritium oxides  
 NT1 water  
 NT2 drinking water  
 NT2 feedwater  
 NT2 fresh water  
 NT2 ground water  
 NT3 interstitial water  
 NT3 magmatic water  
 NT2 heavy water  
 NT2 hot water  
 NT2 rain water  
 NT3 throughfall  
 NT2 seawater  
 NT2 tritium oxides  
 NT2 waste water  
 NT3 shale tar water

### HYDROGEN COOLED REACTORS

\*BT1 gas cooled reactors  
 NT1 kiwi reactors  
 NT2 kiwi-tnt reactor  
 NT1 nerva reactor  
 NT1 nrx-a2 reactor  
 NT1 nrx-a3 reactor  
 NT1 nrx-a4-est reactor  
 NT1 nrx-a5 reactor  
 NT1 nrx-a6 reactor  
 NT1 pewee-1 reactor  
 NT1 pewee-2 reactor  
 NT1 pewee-3 reactor  
 NT1 pewee-4 reactor  
 NT1 phoebus-1a reactor  
 NT1 phoebus-1b reactor  
 NT1 phoebus-2a reactor  
 NT1 rover reactors  
 NT1 xe-prime reactor  
 RT nrx-a7 reactor  
 RT space propulsion reactors  
 RT xe-2 reactor

### hydrogen cyanides

INIS: 2000-04-12; ETDE: 1975-08-19  
 USE hydrocyanic acid

### HYDROGEN DEUTERIDE

1976-03-02  
 UF deuterium hydride  
 \*BT1 deuterides  
 RT deuterium  
 RT hydrogen 1

### hydrogen donor reactions

INIS: 1981-02-27; ETDE: 1978-10-23  
 USE hydrogen transfer

### HYDROGEN EMBRITTLEMENT

INIS: 1992-06-17; ETDE: 1980-06-06  
*A decrease in fracture strength of metals due to the incorporation of hydrogen in the metal lattice.*  
 BT1 embrittlement  
 RT brittleness  
 RT fracture properties  
 RT hydridation  
 RT hydrogen  
 RT interstitial hydrogen generation

### hydrogen fluorides

USE hydrofluoric acid

### HYDROGEN FUEL CELLS

1976-07-30  
 \*BT1 fuel cells

### HYDROGEN FUELS

1992-07-10  
 \*BT1 synthetic fuels  
 RT automotive fuels  
 RT hydrogen  
 RT jet engine fuels  
 RT slush

### hydrogen generation

INIS: 1990-12-15; ETDE: 1983-04-28  
 (Prior to December 1990, this was a valid descriptor.)  
 USE interstitial hydrogen generation

### HYDROGEN GENERATORS

2000-01-04  
*Devices for continuous production of small quantities of hydrogen.*  
 BT1 gas generators  
 RT hydrogen production

### hydrogen hydroxides

USE water

### hydrogen iodides

INIS: 2000-04-12; ETDE: 1983-02-09  
 USE hydriodic acid

### HYDROGEN IONS

\*BT1 ions  
 NT1 hydrogen ions 1 minus  
 NT1 hydrogen ions 1 plus  
 NT1 hydrogen ions 2 plus  
 NT1 hydrogen ions 3 plus

### HYDROGEN IONS 1 MINUS

*For monatomic negative hydrogen ions.*  
 \*BT1 anions  
 \*BT1 hydrogen ions

### HYDROGEN IONS 1 PLUS

*For monatomic positive hydrogen ions.*  
 UF proton-atom collisions  
 UF proton-molecule collisions  
 \*BT1 cations  
 \*BT1 hydrogen ions  
 RT h2 regions  
 RT oxonium ions  
 RT protons

### HYDROGEN IONS 2 PLUS

*For diatomic singly positive hydrogen ions.*  
 \*BT1 cations  
 \*BT1 hydrogen ions  
 \*BT1 molecular ions

### HYDROGEN IONS 3 PLUS

*For triatomic singly positive hydrogen ions.*  
 \*BT1 cations  
 \*BT1 hydrogen ions  
 \*BT1 molecular ions

### HYDROGEN ISOTOPES

1999-07-16  
 BT1 isotopes  
 NT1 deuterium  
 NT1 hydrogen 1  
 NT1 hydrogen 4  
 NT1 hydrogen 5  
 NT1 hydrogen 6  
 NT1 hydrogen 7  
 NT1 tritium

### hydrogen logs

INIS: 2000-04-12; ETDE: 1979-03-27  
 SEE neutron-gamma logging  
 SEE neutron logging  
 SEE neutron-neutron logging



**HYDROGEN METERS**

1977-10-17

- \*BT1 meters
- RT chemical analysis
- RT hydrogen

**hydrogen minus 1 beams**

INIS: 2000-04-12; ETDE: 1979-03-05  
USE hydrogen 1 minus beams

**hydrogen nitrates**

USE nitric acid

**HYDROGEN PEROXIDE**

- BT1 hydrogen compounds
- \*BT1 peroxides

**hydrogen phosphates**

USE phosphoric acid

**HYDROGEN PRODUCTION**

1994-10-13

For industrial hydrogen production only; see also INTERSTITIAL HYDROGEN PRODUCTION.

(Until October 1994 this concept was indexed to HYDROGEN and PRODUCTION.)

- UF production (hydrogen)
- RT autothermal reformer processes
- RT biophotolysis
- RT bosch process
- RT hydrogen
- RT hydrogen generators
- RT partial oxidation processes
- RT photoelectrolysis
- RT reformer processes
- RT steam-iron process
- RT steam reformer processes
- RT thermochemical processes
- RT water gas processes

**hydrogen production rates**

INIS: 2000-04-12; ETDE: 1979-09-26  
USE interstitial hydrogen generation

**hydrogen selenides**

INIS: 2000-04-12; ETDE: 1982-05-12  
USE selenium hydrides

**hydrogen silicates**

USE silicic acid

**HYDROGEN STORAGE**

1992-02-18

- BT1 storage
- RT chemisorption
- RT cryogenics
- RT energy storage
- RT hydrides
- RT hydrogen
- RT hydrogen-based economy
- RT tanks

**hydrogen sulfates**

USE sulfuric acid

**HYDROGEN SULFIDES**

- UF sulfur hydrides
- BT1 hydrogen compounds
- \*BT1 sulfides
- RT sour crudes

**HYDROGEN TRANSFER**

INIS: 1981-02-27; ETDE: 1978-10-23

- UF hydrogen donor reactions
- RT charge exchange
- RT chemical reactions
- RT isotopic exchange
- RT photochemical reactions

**HYDROGEN TRITIDE**

INIS: 1976-07-06; ETDE: 1976-02-19

- UF tritium hydride
- \*BT1 tritides

**hydrogenase**

1984-06-21

(Prior to July 1984 this was a valid descriptor, and older material is so indexed.)

USE hydrogenases

**HYDROGENASES**

INIS: 1984-06-21; ETDE: 1981-01-12

Code number 1.12.

- UF hydrogenase
- \*BT1 oxidoreductases

**HYDROGENATION**

- BT1 chemical reactions
- NT1 gulf hds process
- RT clean coke process
- RT cs-r process
- RT dehydrogenation
- RT deuteration
- RT fischer-tropsch synthesis
- RT flash hydrolysis process
- RT lc-fining

**HYDROLASES**

Code number 3.

- \*BT1 enzymes
- NT1 acid anhydrases
- NT2 gtp-ases
- NT2 phosphohydrolases
- NT3 atp-ase
- NT1 esterases
- NT2 carboxylesterases
- NT3 cholinesterase
- NT3 lipases
- NT2 phosphatases
- NT3 acid phosphatase
- NT3 alkaline phosphatase
- NT3 nucleotidases
- NT2 phosphodiesterases
- NT3 nucleases
- NT4 dna-ase
- NT5 endonucleases
- NT4 rna-ase
- NT1 glycosyl hydrolases
- NT2 o-glycosyl hydrolases
- NT3 amylase
- NT3 cellulase
- NT3 galactosidase
- NT3 glucosidase
- NT3 glucuronidase
- NT3 hyaluronidase
- NT3 lysozyme
- NT3 xylanase

- NT1 non-peptide c-n hydrolases
- NT2 amidases
- NT3 arginase
- NT3 urease
- NT2 amidinases
- NT1 peptide hydrolases
- NT2 acid proteinases
- NT3 pepsin
- NT2 aminopeptidases
- NT2 carboxypeptidases
- NT2 nonspecific peptidases
- NT3 renin
- NT3 urokinase
- NT2 serine proteinases
- NT3 chymotrypsin
- NT3 fibrinolysin
- NT3 kallikrein
- NT3 thrombin
- NT3 trypsin
- NT2 sh-proteinases
- NT3 cathepsins
- NT3 papain

NT3 streptococcal proteinase

RT enzymatic hydrolysis

**HYDROLOGY**

- RT aquifers
- RT drainage
- RT floods
- RT fluid injection
- RT ground water
- RT hydraulic conductivity
- RT lakes
- RT piezometry
- RT rivers
- RT site characterization
- RT surface waters
- RT water influx
- RT water springs
- RT water tables

**HYDROLYSIS**

1997-06-17

- BT1 lysis
- \*BT1 solvolysis
- NT1 acid hydrolysis
- NT1 alkaline hydrolysis
- NT1 autohydrolysis
- NT1 enzymatic hydrolysis
- NT1 saccharification
- NT1 saponification
- RT esters

**HYDROMAGNETIC WAVES**

- UF magnetohydrodynamic waves
- NT1 alfvén waves
- NT1 magnetoacoustic waves
- NT2 fast magnetoacoustic waves
- RT magnetoacoustics
- RT plasma surface waves
- RT plasma waves
- RT shock waves

**HYDROMETALLURGY**

- \*BT1 extractive metallurgy
- RT leaching
- RT precipitation
- RT solvent extraction

**hydronium ions**

INIS: 2000-04-12; ETDE: 1977-08-24  
USE oxonium ions

**HYDRONIUM RADICALS**

- BT1 radicals
- RT water

**HYDROPEROXY RADICALS**

HO2.

- UF ho2
- UF perhydroxyl radical
- BT1 radicals

**HYDROPHYLIC POLYMERS**

2000-01-11

- \*BT1 gels
- BT1 polymers
- RT shielding materials
- RT water

**HYDROPONIC CULTURE**

INIS: 1999-05-19; ETDE: 1976-05-13

Growing of plants in a nutrient solution with the mechanical support of an inert medium such as sand.

- BT1 cultivation techniques
- RT agriculture
- RT aquaculture
- RT crops
- RT greenhouses
- RT plant growth

**HYDRORETORTING ASSAY**

INIS: 2000-04-12; ETDE: 1984-10-10

RT oil shales  
RT shale oil

**HYDROSPHERE**

RT aquatic ecosystems  
RT atmospheric precipitations  
RT cryosphere  
RT environment  
RT glaciers  
RT limnology  
RT surface waters  
RT water

**HYDROSTATIC BEARINGS**

INIS: 1978-08-14; ETDE: 1978-10-19

BT1 bearings  
RT liquids  
RT lubrication

**HYDROSTATICS**

RT fluid mechanics  
RT pore pressure

**HYDROTHERMAL ALTERATION**

1994-10-13

*Alteration of rocks or minerals by the reaction of hydrothermal water with preexisting solid phases.*

(Until October 1994 this concept was indexed to METAMORPHISM.)

BT1 metamorphism  
RT hydrothermal stage  
RT rock-fluid interactions

**hydrothermal convective systems**

INIS: 2000-04-12; ETDE: 1976-03-11

USE hydrothermal systems

**HYDROTHERMAL STAGE**

*That stage in the cooling of a magma containing volatiles during which the residual fluid is strongly enriched in water and other volatiles.*

RT hydrothermal alteration  
RT metamorphism

**HYDROTHERMAL SYNTHESIS**

INIS: 1999-03-09; ETDE: 1975-12-16

*Mineral synthesis in presence of water at elevated temperatures.*

BT1 synthesis

**HYDROTHERMAL SYSTEMS**

1992-04-08

*Geothermal system where most of the heat is transferred by the convective circulation of water or steam.*

UF hydrothermal convective systems  
BT1 energy systems  
BT1 geothermal systems  
NT1 geothermal hot-water systems  
NT1 vapor-dominated systems  
RT fumaroles  
RT geothermal fluids  
RT geysers  
RT hot springs  
RT thermal springs  
RT warm springs

**HYDROTHERMITE**

2000-04-12

\*BT1 silicate minerals  
\*BT1 thorium minerals  
RT thorium silicates

**HYDROTORTING PROCESS**

2000-04-12

*Finely crushed oil shale is retorted under high pressure in presence of hydrogen; process developed by Texaco.*

RT oil shales  
RT retorting

**HYDROXAMIC ACIDS**

\*BT1 amines  
\*BT1 hydroxy compounds  
NT1 benzohydroxamic acid  
RT organic acids

**HYDROXIDE MODERATORS**

BT1 moderators  
RT hydroxides

**HYDROXIDES**

1997-06-19

UF actinium hydroxides  
UF alkalis (hydroxides)  
UF curium hydroxides  
UF germanium hydroxides  
UF helium hydroxides  
UF hydroxyl ions  
UF palladium hydroxides  
UF protactinium hydroxides  
UF rhenium hydroxides  
UF rhodium hydroxides  
UF thallium hydroxides  
BT1 hydrogen compounds  
BT1 oxygen compounds  
NT1 aluminium hydroxides  
NT1 americium hydroxides  
NT1 ammonium hydroxides  
NT1 antimony hydroxides  
NT1 barium hydroxides  
NT1 beryllium hydroxides  
NT1 bismuth hydroxides  
NT1 boron hydroxides  
NT1 cadmium hydroxides  
NT1 calcium hydroxides  
NT1 cerium hydroxides  
NT1 cesium hydroxides  
NT1 chromium hydroxides  
NT1 cobalt hydroxides  
NT1 copper hydroxides  
NT1 dysprosium hydroxides  
NT1 erbium hydroxides  
NT1 europium hydroxides  
NT1 gadolinium hydroxides  
NT1 gallium hydroxides  
NT1 hafnium hydroxides  
NT1 holmium hydroxides  
NT1 indium hydroxides  
NT1 iron hydroxides  
NT1 lanthanum hydroxides  
NT1 lead hydroxides  
NT1 lithium hydroxides  
NT1 lutetium hydroxides  
NT1 magnesium hydroxides  
NT1 manganese hydroxides  
NT1 molybdenum hydroxides  
NT1 neodymium hydroxides  
NT1 neptunium hydroxides  
NT1 nickel hydroxides  
NT1 niobium hydroxides  
NT1 platinum hydroxides  
NT1 plutonium hydroxides  
NT1 potassium hydroxides  
NT1 praseodymium hydroxides  
NT1 promethium hydroxides  
NT1 rubidium hydroxides  
NT1 ruthenium hydroxides  
NT1 samarium hydroxides  
NT1 scandium hydroxides  
NT1 silicon hydroxides  
NT1 silver hydroxides  
NT1 sodium hydroxides

NT1 strontium hydroxides  
NT1 tantalum hydroxides  
NT1 tellurium hydroxides  
NT1 terbium hydroxides  
NT1 thorium hydroxides  
NT1 thulium hydroxides  
NT1 tin hydroxides  
NT1 titanium hydroxides  
NT1 tungsten hydroxides  
NT1 uranium hydroxides  
NT1 vanadium hydroxides  
NT1 ytterbium hydroxides  
NT1 yttrium hydroxides  
NT1 zinc hydroxides  
NT1 zirconium hydroxides  
RT bases  
RT dawsonite  
RT hydroxide moderators  
RT hydroxyl radicals  
RT hydroxylation

**HYDROXY ACIDS**

1996-10-23

*For carboxylic acids only; for other acids see HYDROXY COMPOUNDS coordinated with the descriptor for the particular acid group, e.g., SULFONIC ACIDS.*

UF aluminon  
UF aurintricarboxylic acid  
UF chrome violet  
UF melilotic acid  
UF podophyllic acid  
UF trihydroxyglutaric acid  
UF trioxylglutaric acid  
\*BT1 carboxylic acids  
NT1 acetylsalicylic acid  
NT1 benzoic acid  
NT1 carnitine  
NT1 citric acid  
NT1 diiodotyrosine  
NT1 dopa  
NT1 eddha  
NT1 eosin  
NT1 fluorescein  
NT2 erythrosine  
NT1 galacturonic acid  
NT1 gallic acid  
NT1 gibberellic acid  
NT1 gluconic acid  
NT1 glucuronic acid  
NT1 glyceric acid  
NT1 glycolic acid  
NT1 hedta  
NT1 heida  
NT1 hydroxyproline  
NT1 hydroxytryptophan  
NT1 lactic acid  
NT1 malic acid  
NT1 mandelic acid  
NT1 methyl tyrosine  
NT1 mevalonic acid  
NT1 pantothenic acid  
NT1 rose bengal  
NT1 salicylic acid  
NT1 serine  
NT1 shikimic acid  
NT1 tartaric acid  
NT1 threonine  
NT1 thyronine  
NT1 tyrosine  
RT hydroxy compounds  
RT lactones

**hydroxy-alpha-alanine-beta**

USE serine

**HYDROXY COMPOUNDS**

1996-10-23

*For organic compounds only and excluding saccharides, glycosides and hydroxy acids.*

- UF dianabol*
- UF kymurenic acid*
- UF pregnanediol*
- UF pregnanetriol*
- UF tmpn*
- BT1** organic compounds
- NT1** alcohols
  - NT2** 2-methylpropanol
  - NT2** benzhydrol
  - NT2** benzyl alcohol
  - NT2** butanols
  - NT2** choline
  - NT2** cyclohexanol
  - NT2** decanols
  - NT2** enols
  - NT2** erythritol
  - NT2** ethanol
  - NT2** glycerol
  - NT2** glycols
    - NT3** butanediols
    - NT3** cellosolves
    - NT3** egta
    - NT3** pinacol
    - NT3** polyethylene glycols
      - NT4** carbowax
      - NT4** pluronics
  - NT2** hexanols
  - NT2** methanol
  - NT2** metronidazole
  - NT2** misonidazole
  - NT2** octanols
  - NT2** pentanols
  - NT2** propanols
  - NT2** pva
- NT1** alizarin
- NT1** androsterone
- NT1** bph
- NT1** carminic acid
- NT1** chromotropic acid
- NT1** corticosteroids
  - NT2** glucocorticoids
    - NT3** corticosterone
    - NT3** cortisone
    - NT3** dexamethasone
    - NT3** hydrocortisone
    - NT3** prednisolone
    - NT3** prednisone
  - NT2** mineralocorticoids
    - NT3** aldosterone
- NT1** cupferron
- NT1** ephedrine
- NT1** estradiol
- NT1** estriol
- NT1** estrone
- NT1** ferron
- NT1** folic acid
- NT1** guanine
- NT1** hydroxamic acids
  - NT2** benzohydroxamic acid
- NT1** hydroxyandrostenone
- NT1** hydroxypregnenone
- NT1** hydroxyurea
- NT1** hypoxanthine
- NT1** melanin
- NT1** oximes
  - NT2** benzoinoxime
  - NT2** dimethylglyoxime
- NT1** oxine
- NT1** phenols
  - NT2** cresols
  - NT2** dinitrophenol
  - NT2** eriochrome dyes
  - NT2** hydroxypropiophenone
  - NT2** naphthols
    - NT3** 1-nitroso-2-naphthol

- NT3** nitroso-r salt
- NT3** pyridylazonaphthol
- NT3** thorin
- NT3** trypan blue
- NT2** nitrophenol
- NT2** phenol
- NT2** phenolphthalein
- NT2** picric acid
- NT2** polyphenols
  - NT3** arsenazo
  - NT3** bromosulfophthalein
  - NT3** catecholamines
  - NT3** curcumin
  - NT3** dopamine
  - NT3** fluorescein
    - NT4** erythrosine
  - NT3** hematoxylin
  - NT3** morin
  - NT3** pyridylazoresorcinol
  - NT3** pyrocatechol
  - NT3** pyrogallol
  - NT3** quercetin
  - NT3** resorcinol
  - NT3** stilbestrol
  - NT3** tannic acid
  - NT3** tiron
- NT2** thymol
- NT2** tyramine
- NT2** xlenols
- NT1** pyridoxine
- NT1** quinizarin
- NT1** rhodizonic acid
- NT1** serotonin
  - NT2** bufotenine
- NT1** sterols
  - NT2** bile acids
    - NT3** cholic acid
  - NT2** cholesterol
  - NT2** ergosterol
  - NT2** sitosterol
- NT1** testosterone
- NT1** thiamine
- NT1** uracils
  - NT2** bromouracils
    - NT3** budr
  - NT2** chlorouracils
  - NT2** deoxyuridine
  - NT2** fluorouracils
    - NT3** fudr
  - NT2** iodouracils
    - NT3** iododeoxyuridine
  - NT2** orotic acid
  - NT2** thiouracil
  - NT2** thymine
  - NT2** uridine
- RT* hydroxy acids
- RT* hydroxylation
- RT* inositols

*hydroxy-para-cymene*  
USE thymol

*hydroxyacetic acid*  
USE glycolic acid

**HYDROXYANDROSTENONE**  
*UF dehydroepiandrosterone*  
\*BT1 androgens  
\*BT1 hydroxy compounds  
\*BT1 ketones

*hydroxybenzene*  
USE phenol

*hydroxybenzoic acid-ortho*  
USE salicylic acid

*hydroxydiphenylacetic acid*  
USE benzilic acid

*hydroxyethylethylenediaminetri-acetic acid*  
*Hydroxyethylethylenediaminetriacetic acid.*  
USE hedita

*hydroxyethyliminodiacetic acid*  
USE heida

**hydroxyl ions**  
USE anions  
USE hydroxides

**HYDROXYL RADICALS**  
**BT1** radicals  
*RT* hydroxides  
*RT* oxygen compounds

**HYDROXYLAMINE**  
\*BT1 amines  
*RT* oximes

**hydroxylase**  
2000-04-12  
(Prior to January 1981 this was a valid ETDE descriptor.)  
USE hydroxylases

**HYDROXYLASES**  
*INIS: 1982-02-10; ETDE: 1981-01-12*  
(Prior to February 1982 HYDROXYLASE was a valid term, and older information is so indexed.)  
*UF hydroxylase*  
\*BT1 oxidoreductases  
**NT1** tyrosinase

**HYDROXYLATION**  
*INIS: 1977-07-05; ETDE: 1976-12-16*  
**BT1** chemical reactions  
*RT* hydroxides  
*RT* hydroxy compounds

*hydroxynaphthalenes*  
USE naphthols

**HYDROXPREGNENONE**  
*UF pregnenolone*  
\*BT1 hydroxy compounds  
\*BT1 ketones  
\*BT1 pregnanes  
*RT* progesterone

**HYDROXYPROLINE**  
\*BT1 amino acids  
\*BT1 heterocyclic acids  
\*BT1 hydroxy acids  
\*BT1 pyrrolidines  
*RT* collagen  
*RT* proline

*hydroxypropionic acid-alpha*  
USE lactic acid

**HYDROXYPROPIOPHENONE**  
*ETDE: 2005-02-01*  
(Prior to January 2005 POP was used for this concept.)  
*UF paroxypropione*  
*UF pop (paroxypropione)*  
\*BT1 ketones  
\*BT1 phenols

*hydroxysuccinic acid*  
USE malic acid

*hydroxytoluenes*  
USE cresols

**HYDROXYTRYPTOPHAN**  
\*BT1 amino acids  
\*BT1 hydroxy acids  
\*BT1 radioprotective substances

RT tryptophan

## HYDROXYUREA

INIS: 2000-04-12; ETDE: 1976-03-11

\*BT1 amides  
\*BT1 hydroxy compounds

## hydroxyxylenes

2000-04-12

USE xylenols

## hyflex process

INIS: 2000-04-12; ETDE: 1981-07-06

In the HYFLEX process carbonaceous raw materials are concurrently heated with hydrogen or another gas in an entrained-flow reactor to pyrolysis temperatures, which produces a slate of products that can be varied by choosing different operating pressures and cracking severities.

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

## HYGAS PROCESS

2000-04-12

Institute of Gas Technology hydrogasification process for producing high-btu gas by slurrying the coal with light oil and using a three-stage gasifier.

UF igt hydrogasification process

\*BT1 coal gasification  
BT1 sng processes  
RT high btu gas

## HYGROMETRY

(From November 1981 till March 1997 PSYCHROMETRY was a valid ETDE descriptor.)

UF psychrometry

RT humidity  
RT moisture gages

## HYGROSCOPICITY

RT adsorption

## HYLEMYA ANTIQUA

\*BT1 flies  
RT onions

## HYLIFE CONVERTER

INIS: 1979-09-18; ETDE: 1979-01-30

High Yield Lithium Injection Fusion Energy Converter.

\*BT1 laser fusion reactors

## HYLLERAAS COORDINATES

BT1 coordinates  
RT quantum mechanics

## hylleraas-scherr-knight procedure

1993-11-08

USE hsk procedure

## hymenolepis

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE cestodes

## HYMENOPTERA

INIS: 1993-07-12; ETDE: 1981-06-16

\*BT1 insects  
NT1 ants  
NT1 bees  
NT1 wasps

## hyoscyamine

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE alkaloids

## hypaque

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE amides  
USE organic iodine compounds  
USE sodium compounds

## HYPERBOLIC CONFIGURATION

2004-09-09

BT1 configuration

## HYPERCHARGE

BT1 particle properties  
RT charm particles  
RT gauge invariance

## HYPERCUBE COMPUTERS

INIS: 1991-10-01; ETDE: 1987-10-22

Computer architecture in which each processor has its own memory and is connected to a number of other processors.

BT1 computers  
RT array processors  
RT supercomputers

## HYPERFINE STRUCTURE

UF hfs

RT spectra

## hyperfragments

USE hypernuclei

## HYPERGEOMETRIC FUNCTIONS

BT1 functions

## HYPERGLYCEMIA

RT saccharides

## HYPERNUCLEI

UF hyperfragments  
BT1 nuclear fragments  
BT1 nuclei  
RT hyperons

## HYPERON BEAMS

1996-07-18

(Prior to March 1997 OMEGA PARTICLE BEAMS was a valid ETDE descriptor; prior to August 1996 XI PARTICLE BEAMS was a valid ETDE descriptor.)

UF omega particle beams

UF xi particle beams

\*BT1 particle beams  
NT1 lambda particle beams  
NT1 sigma particle beams

## HYPERON-HYPERON INTERACTIONS

\*BT1 baryon-baryon interactions

## HYPERON REACTIONS

\*BT1 baryon reactions

## HYPERONS

UF strange baryons  
\*BT1 baryons  
\*BT1 strange particles  
NT1 antihyperons  
NT2 antilambda particles  
NT2 antiomega particles  
NT2 antisigma particles  
NT2 antixi particles  
NT1 lambda baryons  
NT2 lambda-1405 baryons  
NT2 lambda-1520 baryons  
NT2 lambda-1600 baryons  
NT2 lambda-1670 baryons  
NT2 lambda-1690 baryons  
NT2 lambda-1800 baryons  
NT2 lambda-1810 baryons  
NT2 lambda-1820 baryons

NT2 lambda-1830 baryons  
NT2 lambda-1890 baryons  
NT2 lambda-2100 baryons  
NT2 lambda-2110 baryons  
NT2 lambda particles  
NT3 antilambda particles  
NT1 lambda-n-2130 dibaryons  
NT1 omega baryons  
NT2 omega-2250 baryons  
NT2 omega particles  
NT3 antiomega particles  
NT3 omega minus particles  
NT1 sigma baryons  
NT2 sigma-1385 baryons  
NT2 sigma-1660 baryons  
NT2 sigma-1670 baryons  
NT2 sigma-1750 baryons  
NT2 sigma-1770 baryons  
NT2 sigma-1775 baryons  
NT2 sigma-1915 baryons  
NT2 sigma-1940 baryons  
NT2 sigma-2030 baryons  
NT2 sigma-2455 baryons  
NT2 sigma particles  
NT3 antisigma particles  
NT3 sigma minus particles  
NT3 sigma neutral particles  
NT3 sigma plus particles  
NT1 xi baryons  
NT2 xi-1530 baryons  
NT2 xi-1690 baryons  
NT2 xi-1820 baryons  
NT2 xi-1950 baryons  
NT2 xi-2030 baryons  
NT2 xi-2250 baryons  
NT2 xi-2500 baryons  
NT2 xi particles  
NT3 antixi particles  
NT3 xi minus particles  
NT3 xi neutral particles  
NT1 z\*baryons  
RT hypernuclei

## HYPERPARATHYROIDISM

1984-12-04

\*BT1 endocrine diseases  
RT bone tissues  
RT calcium  
RT parathyroid glands

## HYPERSONIC FLOW

BT1 fluid flow

## HYPERTENSION

\*BT1 cardiovascular diseases  
BT1 symptoms  
\*BT1 vascular diseases  
RT antihypertensive agents  
RT biological stress  
RT blood pressure

## HYPERTHERMIA

INIS: 1981-08-18; ETDE: 1976-07-07

BT1 body temperature  
RT fever  
RT heat stress  
RT hypothermia

## HYPERTHYROIDISM

UF basedow's disease  
UF thyrotoxicosis  
\*BT1 endocrine diseases  
RT antithyroid drugs  
RT goiter  
RT pbi  
RT thyroid hormones

## HYPERTONIC SOLUTIONS

\*BT1 solutions  
RT isotonic solutions  
RT osmosis

**HYPERTROPHY**

BT1 pathological changes

**HYPNOTICS AND SEDATIVES**

UF *sedatives*

\*BT1 central nervous system depressants

NT1 barbiturates

NT2 nembutal

NT2 phenobarbital

NT1 chlorpromazine

NT1 codeine

NT1 reserpine

RT analgesics

RT anesthetics

RT narcotics

RT sleep

RT tranquilizers

**HYPOCENTERS**

INIS: 2000-04-12; ETDE: 1978-10-25

*Subterranean sources of earthquakes; also, centers of subterranean areas in which the energy of earthquakes is supposed to be concentrated.*

RT earthquakes

**HYPOCHLOROUS ACID**

\*BT1 chlorine compounds

\*BT1 inorganic acids

BT1 oxygen compounds

**HYPOFLUOROUS ACID**

INIS: 1994-03-15; ETDE: 1977-12-22

\*BT1 fluorine compounds

\*BT1 inorganic acids

BT1 oxygen compounds

**HYPOIODOUS ACID**

INIS: 1980-12-01; ETDE: 1981-01-09

\*BT1 inorganic acids

\*BT1 iodine compounds

BT1 oxygen compounds

**hypophosphites**

*Specific hypophosphites should be indexed by coordination of a descriptor of the form*

*(CATION) COMPOUNDS and HYPOPHOSPHOROUS ACID.*

USE hypophosphorous acid

**HYPOPHOSPHOROUS ACID**

UF *hypophosphites*

\*BT1 inorganic acids

BT1 oxygen compounds

BT1 phosphorus compounds

**HYPOPHYSECTOMY**

\*BT1 surgery

RT hypothalamus

RT pituitary gland

RT pituitary hormones

**hypophysis**

USE pituitary gland

**HYPOTENSION**

RT biological stress

RT blood pressure

**HYPOTHALAMUS**

\*BT1 brain

RT autonomic nervous system

RT endocrine glands

RT homeostasis

RT hypophysectomy

RT metabolism

RT pituitary gland

RT trh

**HYPOTHERMIA**

BT1 body temperature

RT hibernation

RT hyperthermia

**HYPOTHESIS**

NT1 ergodic hypothesis

NT1 limiting fragmentation

NT1 mach principle

NT1 negative mass

RT comparative evaluations

RT functional models

RT hypothetical accidents

RT mathematical models

RT structural models

**HYPOTHETICAL ACCIDENTS**

2006-06-27

*For possible accidents which have not actually occurred. Coordinate with descriptor(s) for the specific accident, e.g.*

*LOSS OF FLOW, OIL SPILLS, if appropriate.*

BT1 accidents

RT hypothesis

RT reactor accident simulation

**HYPOTHYROIDISM**

UF *myxedema*

\*BT1 endocrine diseases

RT antithyroid drugs

RT goiter

RT pbi

RT thyroid hormones

**HYPOXANTHINE**

\*BT1 hydroxy compounds

\*BT1 purines

RT inosine

RT nucleotides

RT xanthines

**HYPOXANTHINE****PHOSPHORIBOSYLTRANSFERASE**

INIS: 2000-04-12; ETDE: 1981-06-13

UF *hypoxanthine*  
*phosphoribosyltransferase*

\*BT1 pentosyl transferases

**hypoxanthine guanine****phosphoribosyltransferase**

INIS: 2000-04-12; ETDE: 1981-06-13

USE hypoxanthine  
phosphoribosyltransferase

**hypoxia**

USE anoxia

**HYSTERESIS**

RT damping

RT energy losses

RT internal friction

RT tolerance

**HYTORT PROCESS**

INIS: 2000-04-12; ETDE: 1979-08-07

*Direct, non-catalytic hydrogeneration of kerozen at high pressures and controlled heat-up rates; developed by IGT.*

RT black shales

RT retorting

**HZ RANGE**

BT1 frequency range

**i-beam type reactors**

INIS: 1982-11-30; ETDE: 1976-09-15

USE ion beam fusion reactors

**I CENTERS**

*Interstitial halogen-ion centers.*

\*BT1 color centers

\*BT1 interstitials

**I CODES**

BT1 computer codes

**IG PROCESS**

2000-04-12

\*BT1 coal gasification

**i-inositol**

USE inositol

**i-v characteristic**

INIS: 1984-01-18; ETDE: 2002-06-13

USE electric conductivity

**IAEA**

UF *international atomic energy agency*

BT1 international organizations

NT1 ictp

NT1 monaco marine environment laboratory

NT1 seibersdorf iaea laboratory

RT austria

RT canare

RT cenna

RT cscnd

RT iaea agreements

RT iaea safeguards

RT inis

RT international convention on nuclear safety

RT recommendations

RT united nations

**IAEA AGREEMENTS**

\*BT1 international agreements

RT iaea

RT legal aspects

**iae marine environment laboratory, monaco**

INIS: 2004-06-11; ETDE: 2004-07-08

USE monaco marine environment laboratory

**IAEA SAFEGUARDS**

BT1 safeguards

RT iaea

**iae seibersdorf laboratory**

INIS: 1988-04-15; ETDE: 2002-06-13

USE seibersdorf iaea laboratory

**IAN**

INIS: 1987-05-26; ETDE: 1987-06-09

*Instituto de Asuntos Nucleares, Bogota.*

\*BT1 colombian organizations

**IAN-R1 REACTOR**

*Institute of Nuclear Affairs, Bogota, Colombia.*

UF *instituto de asuntos nucleares r1*

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**IANTHINITE**

2000-07-24

\*BT1 oxide minerals

\*BT1 uranium minerals

RT uranium oxides

**IBM COMPUTERS**

BT1 computers

**ibr-1 reactor**

1984-06-21

USE ifr reactor

**IBR-2 REACTOR**

1978-01-13

UF *dubna ibr-2 reactor*

UF *dubna pulsed reactor*

- \*BT1 fast reactors
- \*BT1 pulsed reactors
- \*BT1 research reactors

**IBR-30 REACTOR**

*Dubna, Russian Federation.*

- \*BT1 fast reactors
- \*BT1 pulsed reactors
- \*BT1 research reactors

**ICE**

- NT1** frost
- NT1** ice caps
- NT1** icebergs
- RT* antarctic regions
- RT* arctic regions
- RT* cryosphere
- RT* defrosting
- RT* glaciers
- RT* hail
- RT* slush
- RT* snow
- RT* water

**ICE CAPS**

*INIS: 1992-01-16; ETDE: 1986-07-25*

*Perennial cover of ice and snow on a land mass.*

- BT1** ice
- RT* antarctic regions
- RT* arctic regions
- RT* cryosphere
- RT* glaciers
- RT* icebergs
- RT* mountains

**ICE CONDENSERS**

*1977-01-25*

*A steam condenser using ice as the heat sink. Incorporated for example in the containment systems of McGuire, Watts Bar and other reactors.*

- UF* condensers (using ice)
- \*BT1 steam condensers
- RT* containment systems
- RT* cooling
- RT* reactor cooling systems

**ICEBERGS**

*INIS: 1992-07-21; ETDE: 1979-08-07*

- BT1** ice
- RT* cryosphere
- RT* ice caps

**icebreaker arktika reactor**

*INIS: 1984-08-27; ETDE: 1994-09-12*

- USE leonid brezhnev reactor

**icebreaker lenin reactor**

- USE lenin reactor

**icebreaker leonid brezhnev reactor**

*INIS: 1993-11-08; ETDE: 1994-09-12*

- USE leonid brezhnev reactor

**icebreaker sibir reactor**

*INIS: 1985-09-09; ETDE: 2002-06-13*

- USE sibir reactor

**ICELAND**

*1997-06-17*

- BT1** developing countries
- BT1** islands
- \*BT1 western europe
- RT* atlantic ocean
- RT* krafla geothermal field
- RT* namafjall geothermal field
- RT* oecd

**ices**

*INIS: 2000-04-12; ETDE: 1992-02-10*

*(Prior to February 1992, this was a valid ETDE descriptor.)*

- USE ices program

**ICES PROGRAM**

*INIS: 2000-04-12; ETDE: 1977-06-30*

*Program to develop community-scale energy systems, integrating community design planning and energy technology concepts.*

*(Prior to February 1992, this subject was indexed by ICES.)*

- UF* ices
- UF* integrated community energy systems
- BT1** energy systems
- NT1** thermal transmission ices
- RT* communities
- RT* energy facilities
- RT* heating
- RT* integrated energy utility systems
- RT* modular integrated utility systems
- RT* total energy systems

**ICF DEVICES**

*INIS: 1997-06-05; ETDE: 1984-10-24*

- UF* inertial confinement fusion devices
- BT1** thermonuclear devices
- NT1** angara-5 device
- RT* aurora facility
- RT* cascade reactors
- RT* diode-pumped solid state lasers
- RT* electron beam fusion reactors
- RT* inertial confinement
- RT* ion beam fusion reactors
- RT* laser fusion reactors
- RT* us national ignition facility

**icf targets**

*INIS: 1999-07-26; ETDE: 2002-06-13*

- SEE electron beam targets
- SEE ion beam targets
- SEE laser targets

**ICHTHAMMOL**

*2000-04-12*

*A brownish black viscous liquid prepared from a distillate of bituminous schists by sulfonation followed by neutralization with ammonia. It is used as an antiseptic and emollient.*

- UF* ichthyol
- RT* oil shales
- RT* shale oil

**ichthyol**

*2000-04-12*

- USE ichthammol

**ICHTHYOPLANKTON**

*INIS: 1993-06-02; ETDE: 1979-03-28*

*The microscopic free-floating eggs and larvae of fish.*

- \*BT1 plankton
- RT* anadromous fishes
- RT* eggs
- RT* fathead minnow
- RT* fishes
- RT* larvae

**ici process**

*2000-04-12*

*Process for removing fly ash and sulfur dioxide from flue gases. It is a development of the holden process and involves recovery of sulfur as liquefied sulfur dioxide or free sulfur. (Prior to March 1994, this was a valid ETDE descriptor.)*

- USE desulfurization

**ICL COMPUTERS**

- BT1** computers

**icns (international convention on nuclear safety)**

*INIS: 1999-12-23; ETDE: 2005-01-28*

*(Prior to January 2005 ICNS was a valid descriptor.)*

- USE international convention on nuclear safety

**iconoscopes**

*1996-06-28*

*(Until June 1996 this was a valid descriptor.)*

- USE camera tubes

**ICP MASS SPECTROSCOPY**

*INIS: 1993-10-01; ETDE: 1993-11-08*

*Inductively Coupled Plasma mass spectroscopy.*

- \*BT1 mass spectroscopy
- RT* chemical analysis
- RT* mass spectra
- RT* mass spectrometers
- RT* resonance ionization mass spectroscopy

**icr**

*INIS: 1983-12-01; ETDE: 1984-01-27*

- USE ion cyclotron-resonance

**ICR HEATING**

*UF* ion cyclotron-resonance heating

- \*BT1 high-frequency heating
- RT* cyclotron radiation
- RT* ion cyclotron-resonance

**ICRP**

*UF* international commission radiological protection

- BT1** international organizations
- RT* alara
- RT* cuex
- RT* icru
- RT* radiation protection
- RT* recommendations
- RT* reference man

**ICRP CRITICAL GROUP**

*Out of a general population, the group of persons most highly exposed to radiation by virtue of their occupations, diets, habits, etc.*

- UF* critical group (icrp)
- RT* body burden
- RT* diet
- RT* human populations
- RT* occupational exposure
- RT* occupations
- RT* radiation doses
- RT* radiation hazards
- RT* working conditions

**ICRU**

*UF* international commission on radiation units and measurements

- BT1** international organizations
- RT* dosimetry
- RT* icrp
- RT* radiation dose units
- RT* recommendations

**icsd**

*INIS: 1984-04-04; ETDE: 2002-06-13*

*Ionization chamber smoke detectors.*

- USE smoke detectors

**ICTP**

1979-11-02

*International Centre for Theoretical Physics, Trieste.*UF *international center for theoretical physics*

\*BT1 iaea

**IDAHO**

1997-06-19

\*BT1 usa

RT columbia river basin

RT raft river valley

RT snake river plain

RT western us overthrust belt

RT yellowstone national park

**idaho advanced test reactor**

USE atr reactor

**IDAHO CHEMICAL PROCESSING PLANT**

\*BT1 fuel reprocessing plants

\*BT1 us aec

\*BT1 us doe

\*BT1 us erda

**idaho materials testing reactor**

USE mtr reactor

**idaho national engineering and environmental laboratory**

2005-05-18

USE ineel

**idaho national engineering laboratory**

INIS: 1976-05-07; ETDE: 1975-12-16

Until 1976 known as *NRTS* and older material is so indexed.

USE ineel

**IDEAL FLOW**

1986-03-04

UF *frictionless flow*UF *inviscid flow*UF *nonviscous flow*

\*BT1 incompressible flow

\*BT1 steady flow

RT laminar flow

**IDENTIFICATION SYSTEMS**

INIS: 1985-12-10; ETDE: 1980-05-06

*For persons or objects. Not for systems for PARTICLE IDENTIFICATION.*

RT control systems

RT data acquisition systems

RT entry control systems

RT nuclear materials management

RT pattern recognition

RT physical protection devices

RT safeguards

RT secrecy protection

RT security

**iea**

INIS: 1977-04-07; ETDE: 1976-05-17

USE international energy agency

**IEA-ZPR REACTOR***Instituto de Energia Atomica, Sao Paulo, Brazil.*UF *instituto de energia atomica zpr*UF *sao paulo iea zero power reactor*

\*BT1 graphite moderated reactors

\*BT1 helium cooled reactors

\*BT1 research reactors

\*BT1 zero power reactors

RT enriched uranium reactors

RT thorium reactors

**IEAR-1 REACTOR***Instituto de Energia Atomica, Sao Paulo, Brazil.*UF *instituto de energia atomica r1*UF *sao paulo iear-1 reactor*

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**iec (international electrotechnical commission)**

2004-09-14

USE international electrotechnical commission

**ieus (integrated energy utility systems)**

INIS: 2000-04-12; ETDE: 2005-01-28

(Prior to January 2005 IEUS was a valid descriptor.)

USE integrated energy utility systems

**IFIEC**

INIS: 1991-12-11; ETDE: 1992-01-08

*International Federation of Industrial Energy Consumers.*UF *international federation of industrial energy consumers*

BT1 international organizations

RT industry

RT international cooperation

**IFIP**UF *international food irradiation project*

\*BT1 coordinated research programs

RT food

RT irradiation procedures

RT preservation

RT radappertization

RT radacidation

RT radurization

**ifp process**

2000-04-12

*Process for removal of hydrogen sulfide and sulfur dioxide from Claus unit tail gas to an sulfur dioxide level of 1, 500 to 2, 000 ppm (ifp-1) or 500 ppm or below (ifp-2) and stack gas clean-up to take sulfur dioxide down to or below 500 ppm (ifp-2).*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**IFR REACTOR**UF *ibr-1 reactor*

\*BT1 fast reactors

\*BT1 zero power reactors

**ifve**

INIS: 1984-06-21; ETDE: 2002-06-13

*Inst. Fiziki Vysokikh Ehnergij.*

USE ihep

**IGCAR**

INIS: 1989-02-24; ETDE: 1989-03-20

*Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamilnadu, India.*UF *kalpakkam reactor research center*UF *rrc, kalpakkam*

\*BT1 indian organizations

**IGNALINA-1 REACTOR**

INIS: 1997-09-16; ETDE: 1996-02-12

(Until February 1996 this descriptor was spelled *IGNALINSK-1 REACTOR*.)UF *ignalinsk-1 reactor*UF *rbmk-1500 reactor*

\*BT1 enriched uranium reactors

\*BT1 lwgr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**IGNALINA-2 REACTOR**

INIS: 1997-09-16; ETDE: 1996-02-12

(Until February 1996 this descriptor was spelled *IGNALINSK-2 REACTOR*.)UF *ignalinsk-2 reactor*

\*BT1 enriched uranium reactors

\*BT1 lwgr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**ignalinsk-1 reactor**

INIS: 1997-01-28; ETDE: 1984-09-20

(Until February 1996 this was a valid descriptor.)

USE ignalina-1 reactor

**ignalinsk-2 reactor**

INIS: 1997-01-28; ETDE: 1984-09-20

(Until February 1996 this was a valid descriptor.)

USE ignalina-2 reactor

**IGNEOUS ROCKS**UF *crystalline rocks*

BT1 rocks

NT1 lava

NT1 plutonic rocks

NT2 diorites

NT2 gabbros

NT3 anorthosites

NT2 granites

NT3 aplites

NT3 granodiorites

NT3 quartz monzonite

NT2 pegmatites

NT2 peridotites

NT3 kimberlites

NT2 syenites

NT1 volcanic rocks

NT2 andesites

NT2 basalt

NT3 diabases

NT2 lamprophyres

NT3 kimberlites

NT2 nepheline basalts

NT2 perlite

NT2 rhyolites

NT2 trachytes

NT2 tuff

RT basement rock

RT magma

RT magmatism

**IGNITION**

INIS: 1992-09-07; ETDE: 1975-08-19

RT combustion

RT combustion waves

RT detonation waves

RT flames

RT flammability

RT ignition systems

**ignition (thermonuclear)**

USE thermonuclear ignition

**IGNITION QUALITY**

2000-04-12

RT antiknock ratings

RT combustion

**IGNITION SPHERICAL TORUS**

INIS: 1999-03-02; ETDE: 1987-04-08

*Small aspect ratio device retaining only indispensable components along the major axis of a tokamak plasma, such as a cooled, normal conductor producing a toroidal magnetic field.*

\*BT1 tokamak devices

RT compact torus

**IGNITION SYSTEMS**

INIS: 1984-07-20; ETDE: 1976-05-17  
Not for THERMONUCLEAR IGNITION.

RT automobiles  
RT combustion  
RT combustors  
RT ignition  
RT internal combustion engines

**IGNITRONS**

\*BT1 gas discharge tubes  
\*BT1 rectifier tubes

**IGR REACTOR**

INIS: 2003-11-26; ETDE: 2003-12-03  
National Nuclear Center of the Republic of Kazakhstan, Kurchatov city, East Kazakhstan.

UF experimental graphite reactor  
UF impulse graphite reactor  
UF kazakhstan igr reactor  
UF pulsed graphite reactor  
\*BT1 enriched uranium reactors  
\*BT1 experimental reactors  
\*BT1 graphite moderated reactors  
\*BT1 materials testing reactors  
\*BT1 pulsed reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**igt biothermal gasification**

INIS: 2000-04-12; ETDE: 1981-12-14  
USE biothermegas process

**igt dehydrodesulfurization process**

INIS: 2000-04-12; ETDE: 1980-09-04  
Fine crushed coal is first treated in a fluidized bed reactor with air at 400 C and then with hydrogen at 800 C; atmospheric pressure in both reactors.  
(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**igt hydrogasification process**

2000-04-12  
USE hygas process

**igt waste process**

INIS: 2000-04-12; ETDE: 1975-10-28  
USE biogas process

**igy**

USE international geophysical year

**IHEP**

INIS: 1975-10-09; ETDE: 1975-12-16  
Institute for High Energy Physics, Serpukhov, Russian Federation.

UF ifve  
UF inst fiziki vysokikh ehnergij  
UF institute for high energy physics  
\*BT1 russian organizations  
RT serpukhov synchrotron

**iisnr reactor**

USE thetis reactor

**IKATA-2 REACTOR**

INIS: 1985-11-16; ETDE: 1985-12-11  
Shikoku Electric Power Co., Ikata, Ehime, Japan.

\*BT1 pwr type reactors

**IKATA-3 REACTOR**

INIS: 1989-10-27; ETDE: 1989-11-21  
Shikoku Electric Power Co., Ikata, Ehime, Japan.

\*BT1 pwr type reactors

**IKATA REACTOR**

Shikoku Electric Power Co., Ikata, Ehime, Japan.

\*BT1 pwr type reactors

**IKO**

INIS: 1978-07-31; ETDE: 1978-09-11  
UF inst v kernph onder amsterdam  
UF nuclear physics research institute amsterdam  
\*BT1 netherlands organizations

**IKO SYNCHROCYCLOTRON**

IKO - Nuclear Physics Research Institute, Amsterdam.

\*BT1 synchrocyotrons

**ileum**

USE small intestine

**illiac computers**

1996-07-18  
(Until July 1996 this was a valid descriptor.)  
USE computers

**illinium**

USE promethium

**ILLINOIS**

1995-01-27  
\*BT1 usa  
NT1 chicago  
RT anl  
RT chattanooga formation  
RT fermilab  
RT illinois basin  
RT mississippi river  
RT ohio river

**ILLINOIS BASIN**

INIS: 1992-06-12; ETDE: 1980-07-09  
The geographic area that includes all of the coal reserves of Illinois, Indiana, and the western part of Kentucky.  
RT coal deposits  
RT illinois  
RT indiana  
RT kentucky

**illinois university triga-mk-2 reactor**

INIS: 1993-11-08; ETDE: 2002-06-13  
USE triga-2-illinois reactor

**ILLITE**

A general term for the clay-mineral constituent of argillaceous sediments belonging to the mica group.  
\*BT1 clays

**ILLIUM**

2000-04-12  
\*BT1 chromium alloys  
\*BT1 copper alloys  
\*BT1 molybdenum alloys  
\*BT1 nickel base alloys

**ILLUMINANCE**

INIS: 1986-07-09; ETDE: 1981-10-24  
Density of luminous flux on a surface.  
UF illumination  
UF luminous flux density  
RT albedo  
RT brightness  
RT daylighting  
RT lighting requirements  
RT lighting systems  
RT optics

**illumination**

INIS: 1986-07-09; ETDE: 1981-10-24  
USE illuminance

**illumination systems**

2000-04-12  
USE lighting systems

**ILMENITE**

An iron-black, opaque, rhombohedral mineral.

\*BT1 oxide minerals  
RT iron oxides  
RT titanium oxides

**ilmr**

INIS: 1987-03-24; ETDE: 1987-11-24  
International Laboratory of Marine Radioactivity, Monaco.  
(Prior to June 2004 this was a valid descriptor.)  
USE monaco marine environment laboratory

**ILO**

UF international labour organisation  
BT1 international organizations  
RT united nations  
RT work

**ILVAITE**

INIS: 1978-02-23; ETDE: 1978-04-28  
\*BT1 silicate minerals  
RT calcium silicates  
RT iron silicates

**IMAGE CONVERTERS**

UF converters (image)  
BT1 image tubes  
RT image intensifiers  
RT image processing

**IMAGE INTENSIFIERS**

UF intensifiers (image)  
RT fluoroscopy  
RT image converters  
RT image processing  
RT radiation protection

**IMAGE PROCESSING**

INIS: 2000-02-01; ETDE: 1977-06-02  
Procedure for restoring or enhancing images, often by computer.  
UF processing (images)  
BT1 processing  
RT cat scanning  
RT computerized tomography  
RT data processing  
RT digital filters  
RT ecat scanning  
RT image converters  
RT image intensifiers  
RT image scanners  
RT images  
RT photocopying  
RT photography  
RT radioisotope scanners  
RT video tapes

**IMAGE SCANNERS**

UF optical scanners  
UF scanners (image)  
UF scanners (optical)  
RT computerized tomography  
RT data processing  
RT digitizers  
RT electronic equipment  
RT image processing  
RT particle tracks  
RT pattern recognition  
RT photographic films  
RT photon computed tomography  
RT proton computed tomography  
RT radioisotope scanners  
RT sequential scanning



**IMAGE STORAGE TUBES**

UF storage tubes  
BT1 image tubes

**IMAGE TUBES**

NT1 camera tubes  
NT2 vidicons  
NT1 image converters  
NT1 image storage tubes  
RT cathode ray tubes  
RT display devices  
RT electron tubes  
RT images  
RT pattern recognition  
RT photoelectric cells

**IMAGES**

UF autoradiographs  
UF photographs  
UF radiographs  
RT display devices  
RT image processing  
RT image tubes  
RT nuclear emulsions  
RT pattern recognition  
RT photographic films  
RT radioisotope scanners  
RT scintiscanning  
RT video tapes

**imatran voima-1 reactor**

INIS: 1976-08-13; ETDE: 2000-02-10  
USE loviisa-1 reactor

**imatran voima-2 reactor**

INIS: 1976-08-13; ETDE: 2000-02-10  
USE loviisa-2 reactor

**imatran voima power reactor**

INIS: 2000-04-12; ETDE: 2002-06-13  
USE loviisa-1 reactor

**imco**

International Maritime Consultative Organization.  
(Prior to July 2001, this was a valid descriptor.)  
USE imo

**IMIDAZOLES**

1996-10-22  
Compounds that contain a five-membered heterocyclic ring containing nitrogen atoms in the 1 and 3 positions.  
UF cmni  
UF parabanic acid  
\*BT1 azoles  
NT1 allantoin  
NT1 benzimidazoles  
NT1 biotin  
NT1 creatinine  
NT1 histamine  
NT1 histidine  
NT1 hydantoins  
NT1 metronidazole  
NT1 misonidazole  
NT1 urocanic acid

**IMIDES**

\*BT1 organic nitrogen compounds  
NT1 nem  
RT dicarboxylic acids

**imidines**

1996-07-18  
(Until July 1996 this was a valid descriptor.)  
USE organic nitrogen compounds

**IMINES**

1996-01-24  
For aldehyde and ketone derivatives only, i.e., for compounds containing the =N- group; for those containing the -NH- group, see ORGANIC NITROGEN COMPOUNDS or appropriate specific descriptors listed thereunder.  
\*BT1 organic nitrogen compounds  
NT1 creatinine  
NT1 schiff bases  
RT aldehydes  
RT guanidines  
RT ketones

**iminoamides**

USE amidines

**iminourea**

USE guanidines

**IMIPRAMINE**

\*BT1 amines  
\*BT1 antidepressants  
\*BT1 heterocyclic compounds  
\*BT1 organic nitrogen compounds

**immediate radiation effects**

USE early radiation effects

**immobilization (wastes)**

INIS: 1990-12-06; ETDE: 1983-11-09  
(Prior to December 1990, this was a valid descriptor.)  
SEE solidification  
SEE vitrification

**IMMOBILIZED CELLS**

INIS: 1999-03-01; ETDE: 1980-09-22  
Microbial cells which have been entrained on gels.  
SF cells (immobilized)  
RT biotechnology  
RT immobilized enzymes  
RT microorganisms

**IMMOBILIZED ENZYMES**

INIS: 2000-04-12; ETDE: 1980-01-24  
Stable, re-useable enzymes obtained by immobilizing naturally occurring enzymes onto solid supports by means of various chemical techniques.  
RT enzymes  
RT immobilized cells

**IMMUNE REACTIONS**

Limited to immune reactions to foreign antigens in vivo.  
RT aids virus  
RT antigen-antibody reactions  
RT immunity  
RT phagocytosis  
RT toxoids

**immune sera**

USE immune serums

**IMMUNE SERUMS**

UF antiserum  
UF immune sera  
UF serum (immune)  
RT antibodies  
RT blood serum  
RT inoculation

**IMMUNE SYSTEM DISEASES**

INIS: 1991-07-02; ETDE: 1988-06-27  
BT1 diseases  
NT1 aids  
NT1 leukemia  
NT2 myeloid leukemia  
NT1 leukopenia

NT2 lymphopenia

NT1 lupus

NT1 lymphomas

NT2 hodgkins disease

NT2 lymphosarcomas

RT allergy

RT asthma

RT complement

RT histocompatibility complex

RT leukopoiesis

RT lymph nodes

RT lymphocytes

RT reticuloendothelial system

RT spleen

RT thymus

**immune tolerance**

USE immunity

**IMMUNITY**

1996-07-23

UF c-reactive protein  
UF compatibility (immunological)  
UF immune tolerance  
RT aids  
RT aids virus  
RT allergy  
RT anaphylaxis  
RT antibodies  
RT antibody formation  
RT antigen-antibody reactions  
RT antigens  
RT chimeras  
RT disease resistance  
RT graft-host reaction  
RT hemolysis  
RT immune reactions  
RT immunoglobulins  
RT immunology  
RT immunosuppression  
RT inoculation  
RT interferon  
RT lymphocytes  
RT lymphokines  
RT natural killer cells  
RT preventive medicine  
RT radioimmunology  
RT receptors  
RT thymectomy  
RT toxoids  
RT transplants  
RT vaccines

**IMMUNOASSAY**

INIS: 1999-03-26; ETDE: 1987-04-08  
BT1 bioassay  
NT1 enzyme immunoassay  
NT1 radioimmunoassay

**IMMUNOGLOBULINS**

\*BT1 globulins  
RT gene amplification  
RT immunity

**IMMUNOLOGY**

NT1 radioimmunology  
RT immunity  
RT mitogens

**IMMUNOSUPPRESSION**

RT antimitotic drugs  
RT cyclosporine  
RT endoxan  
RT glucocorticoids  
RT histocompatibility complex  
RT immunity  
RT immunosuppressive drugs  
RT transplants

**IMMUNOSUPPRESSIVE DRUGS**

1992-07-16

- BT1 drugs
- NT1 cyclosporine
- NT1 endoxan
- RT immunosuppression
- RT immunotherapy

**IMMUNOTHERAPY**

INIS: 1981-05-11; ETDE: 1978-06-14

- \*BT1 therapy
- NT1 radioimmunotherapy
- RT corynebacterium parvum
- RT immunosuppressive drugs

**IMO**

2001-07-17

- UF imco
- UF inter-governmental maritime consultative organization
- UF international maritime consultative organization
- UF international maritime organization
- BT1 international organizations
- RT united nations

**IMP DEVICE**

- \*BT1 magnetic mirrors

**IMP SATELLITES**

- BT1 satellites

**IMPACT FUSION**

INIS: 1981-06-19; ETDE: 1979-10-23

Achieved by the acceleration of a DT-bearing projectile and subsequent impact with a stationary target or a similarly accelerated projectile.

- \*BT1 thermonuclear reactions
- RT inertial confinement
- RT magnetic gradient accelerators
- RT railgun accelerators

**IMPACT FUSION DRIVERS**

INIS: 1995-07-21; ETDE: 1980-01-15

Macroparticle accelerators to be used in inertial confinement fusion.

- BT1 inertial fusion drivers
- NT1 magnetic gradient accelerators
- RT accelerators
- RT plasma guns
- RT railgun accelerators

**IMPACT PARAMETER**

- RT nuclear reactions
- RT peripheral collisions
- RT scattering

**IMPACT SHOCK**

- UF shock (impact)
- RT damage
- RT failures
- RT impact strength
- RT missile protection
- RT potting
- RT shock absorbers
- RT shock waves
- RT water hammer

**IMPACT STRENGTH**

- UF strength (impact)
- BT1 mechanical properties
- RT impact shock
- RT impact tests

**IMPACT TESTS**

- \*BT1 mechanical tests
- NT1 charpy test
- RT destructive testing
- RT impact strength
- RT notches

**IMPEDANCE**

- NT1 electric impedance
- NT1 mechanical impedance

**imperfections**

- USE defects

**IMPERIAL VALLEY**

1997-06-19

- BT1 valleys
- RT california
- RT east mesa geothermal field
- RT geothermal fields
- RT salton sea
- RT watersheds

**impermeable dry rock**

2000-04-12

- USE hot-dry-rock systems

**IMPINGEMENT**

1996-05-23

(Until May 1996 this concept was indexed to FOULING and SCREENS.)

- RT entrainment
- RT fouling
- RT intake structures
- RT screens

**implanted sources**

INIS: 2000-04-12; ETDE: 1978-05-01

- USE radiation source implants

**IMPLANTS**

INIS: 1981-11-27; ETDE: 1978-07-05

For emplacement of materials into organisms; not for ION IMPLANTATION, CRYSTAL DOPING, etc.

- NT1 radiation source implants
- RT injection

**IMPLEMENTATION**

INIS: 1985-03-19; ETDE: 1976-10-13

Provision of instruments or means of accomplishing or carrying out plans, orders, laws, etc.

- RT administrative procedures
- RT agreements
- RT enforcement
- RT feasibility studies
- RT government policies
- RT legislation
- RT planning
- RT recommendations
- RT regulations

**IMPLOSIONS**

- NT1 laser implosions
- NT2 direct drive laser implosion
- NT2 indirect drive laser implosion
- RT explosions
- RT linus reactors
- RT shock waves

**import taxes**

INIS: 2000-04-12; ETDE: 1978-06-14

- USE tariffs

**importance function (neutron)**

- USE neutron importance function

**IMPORTS**

INIS: 1992-02-23; ETDE: 1978-06-14

Goods or services brought from another country.

(Until February 1992 this concept was indexed by TRADE.)

- BT1 trade
- RT domestic supplies
- RT exports
- RT foreign policy
- RT oil-importing countries

- RT sales
- RT tariffs

**IMPREGNATION**

The infusion or permeation of one substance into another.

- RT adsorption

**improvement ratio**

INIS: 2000-04-12; ETDE: 1983-01-21

- USE formation damage

**impulse**

2000-04-12

- USE pulses

**impulse (linear momentum)**

INIS: 1983-02-03; ETDE: 2002-06-13

- USE linear momentum

**impulse (pulses)**

INIS: 1983-02-03; ETDE: 2002-06-13

- USE pulses

**IMPULSE APPROXIMATION**

- \*BT1 approximations

- RT bound state
- RT coupling
- RT scattering

**impulse graphite reactor**

INIS: 2003-11-26; ETDE: 2003-12-03

Kurchatov city, East Kazakhstan.

- USE igr reactor

**IMPURITIES**

Unwanted constituents only, not for metal and nonmetal additions, or for the concepts covered by TRACE AMOUNTS and INTERFERING ELEMENTS.

- UF purity
- NT1 plasma impurities
- RT activation analysis
- RT contamination
- RT inclusions
- RT interfering elements
- RT jesse effect
- RT microanalysis
- RT plasma
- RT purification
- RT segregation
- RT stoichiometry
- RT trace amounts

**impurity study experimental tokamak**

INIS: 1993-11-08; ETDE: 2002-06-13

- USE isx tokamak

**ims**

INIS: 1977-04-07; ETDE: 1977-10-19

- USE international magnetospheric study

**IMS STELLARATOR**

INIS: 1990-12-15; ETDE: 1991-08-20

Interchangeable Module Stellarator at University of Wisconsin, Madison, Wisconsin, USA.

- \*BT1 stellarators

**in 519**

INIS: 2000-04-12; ETDE: 1979-08-09

(Prior to March 1997 ALLOY-IN-519 was used for this concept in ETDE.)

- USE chromium alloys
- USE iron base alloys
- USE nickel alloys
- USE niobium alloys

**IN-BEAM SPECTROSCOPY**

INIS: 1977-06-13; ETDE: 1977-10-20

- BT1 spectroscopy

**in-core fuel management**

USE fuel management

**IN CORE INSTRUMENTS***See also specific instruments plus FUEL ASSEMBLIES or REACTOR CORES.*

BT1 reactor instrumentation

NT1 noise thermometers

RT acoustic monitoring

RT in-service inspection

RT positioning

RT reactor cores

RT temperature monitoring

**in-core thermionic reactor**

2000-04-12

USE beryllium moderated reactors

USE enriched uranium reactors

USE thermionic reactors

USE zero power reactors

**IN-COUNTRY DETECTION**

INIS: 2000-04-12; ETDE: 1987-04-08

*That part of the test ban verification process in which seismic data are collected from locations within the country.*

\*BT1 seismic detection

RT nuclear explosion detection

RT nuclear explosions

RT on-site inspection

RT underground explosions

**IN PILE LOOPS**

UF loops (in pile)

\*BT1 reactor experimental facilities

RT experimental channels

RT irradiation capsules

**IN-SERVICE INSPECTION**

INIS: 1977-06-13; ETDE: 1977-04-12

BT1 inspection

RT in core instruments

RT nondestructive testing

RT reactor maintenance

**IN-SITU COMBUSTION**

INIS: 2000-04-12; ETDE: 1976-05-17

*Air is injected into a well ignition is caused to occur at the input well, and a combustion zone is propagated within the reservoir rock to nearby producing wells.*

UF fire flooding

\*BT1 combustion

\*BT1 in-situ processing

RT in-situ gasification

RT in-situ retorting

RT reverse combustion

RT thermal recovery

**IN-SITU GASIFICATION**

2000-04-12

UF holzheimer process

UF underground gasification

\*BT1 gasification

\*BT1 in-situ processing

RT coal gasification

RT electrolinking

RT in-situ combustion

**IN-SITU HYBRIDIZATION**

1996-05-03

\*BT1 nucleic acid hybridization

RT chromosomes

RT dna

RT dna hybridization

RT genes

RT genetic mapping

RT rna

**IN-SITU LIQUEFACTION**

2000-04-12

\*BT1 in-situ processing

\*BT1 liquefaction

**IN-SITU PROCESSING**

2000-02-01

BT1 processing

NT1 in-situ combustion

NT1 in-situ gasification

NT1 in-situ liquefaction

NT1 in-situ retorting

NT1 solution mining

RT leachates

RT leaching

RT modified in-situ processes

RT oil shales

RT ore processing

RT retorting

RT underground explosions

**IN-SITU RETORTING**

2000-04-12

UF jungstrom process

\*BT1 in-situ processing

\*BT1 retorting

RT in-situ combustion

RT oil shales

RT rise

**in utero irradiation**

USE prenatal irradiation

**IN-VESSEL HEAT EXCHANGERS**

BT1 heat exchangers

**IN VITRO***As opposite to in vivo.*

RT cell cultures

RT clone cells

RT culture media

RT hela cells

RT homogenates

RT l cells

RT tissue cultures

**IN VIVO***To be used only to differentiate from in vitro studies at the cellular or tissue level.*

RT animal tissues

RT cell division

RT cell proliferation

RT organs

RT plant cells

RT tumor cells

**INACTIVATION**

RT inhibition

RT preservation

RT sterilization

**incandescent lamps**

INIS: 2000-04-12; ETDE: 1986-07-08

USE light bulbs

**incentives**

INIS: 2000-04-12; ETDE: 1979-08-07

*(From August 1979 to March 1997 LEGAL INCENTIVES was a valid ETDE descriptor.)*

SEE financial incentives

**INCIDENCE ANGLE**

INIS: 1984-04-04; ETDE: 1980-01-24

*Use only when the incidence angle is a significant parameter.*

UF angle (incidence)

UF angle of incidence

RT angular distribution

RT inclination

RT optics

RT orientation

RT reflection

RT refraction

RT scattering

**incidents**

USE accidents

**incineration**

INIS: 2000-04-12; ETDE: 1982-03-11

USE combustion

**INCINERATORS**

UF kiln incinerators

NT1 waste incinerators

NT1 waterwall incinerators

RT burners

RT combustion

RT furnaces

**INCLINATION***Angle between velocity vector of a charged particle and the magnetic field in which particle moves.*

UF angle of inclination

UF pitch angle

RT geomagnetic field

RT incidence angle

RT tilt mechanisms

**INCLINED STRATA**

INIS: 1992-07-21; ETDE: 1980-03-29

\*BT1 geologic strata

RT coal seams

RT geologic deposits

**inclusion complexes**

USE clathrates

**INCLUSIONS**

RT castings

RT crystal defects

RT impurities

RT ion implantation

RT microstructure

RT trace amounts

**inclusive distribution**

USE distribution

USE inclusive interactions

**INCLUSIVE INTERACTIONS***The group of all interactions of two particles producing a specific final state.*

UF inclusive distribution

\*BT1 particle interactions

NT1 semi-inclusive interactions

RT exclusive interactions

RT limiting fragmentation

RT nuclear fireball model

**INCOHERENT PRODUCTION**

\*BT1 particle interactions

BT1 particle production

RT coherent tube model

**INCOHERENT SCATTERING**

BT1 scattering

RT diffuse scattering

RT inelastic scattering

**INCOLOY 800**

1993-10-03

UF alloy 800

\*BT1 alloy-fe46ni33cr21

**INCOLOY 800H**

INIS: 1993-10-03; ETDE: 1982-02-23

UF alloy 800h

UF alloy-800h (incoloy)

\*BT1 alloy-fe44ni33cr21

**INCOLOY 802**

INIS: 1993-10-03; ETDE: 1979-08-09

UF alloy-802 (incoloy)



**INDEMNIFICATION AGREEMENTS**

INIS: 1976-12-08; ETDE: 1994-08-10

Agreements whereby the State undertakes to compensate for nuclear damage involving the civil liability of the nuclear operator.

BT1 agreements  
RT liabilities  
RT workmens compensation

**INDENE**

\*BT1 condensed aromatics  
\*BT1 hydrocarbons

**independent-particle model**

USE single-particle model

**index of refraction**

INIS: 1982-12-07; ETDE: 2002-06-13

USE refractive index

**INDEXES**

Should be used to index all pieces of literature which are indexes.

BT1 document types  
RT directories  
RT information retrieval

**INDIA**

BT1 asia  
BT1 developing countries  
RT brahmaputra river  
RT ganga river

**india ink**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE inks  
USE pigments

**INDIAN OCEAN**

1997-06-19

\*BT1 seas  
NT1 arabian sea  
NT2 persian gulf  
NT3 strait of hormuz  
NT1 timor sea  
RT madagascar  
RT mauritius  
RT reunion island  
RT southern oscillation  
RT sri lanka  
RT tasmania

**INDIAN ORGANIZATIONS**

Not to be used for American Indian

Organizations.

BT1 national organizations  
NT1 barc  
NT1 igcar

**INDIAN POINT-1 REACTOR**

Consolidated Edison Co., Buchanan, New York, USA. Shut down in 1974.

UF consolidated edison thorium reactor  
\*BT1 pwr type reactors

**INDIAN POINT-2 REACTOR**

Energry Nuclear IP2 LLC, Buchanan, New York, USA.

\*BT1 pwr type reactors

**INDIAN POINT-3 REACTOR**

Energry Nuclear Operations, Inc., Buchanan, New York, USA.

\*BT1 pwr type reactors

**indian reservations**

INIS: 2000-04-12; ETDE: 1979-01-30

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE american indians

**INDIANA**

\*BT1 usa  
RT illinois basin  
RT ohio river

**indiana university cyclotron**

INIS: 1979-04-27; ETDE: 1979-05-25

USE iu cyclotron

**indians (american)**

INIS: 2000-04-12; ETDE: 1978-11-14

USE american indians

**indicator species**

INIS: 2000-04-12; ETDE: 1976-03-22

USE biological indicators

**INDICATORS**

1996-10-23

UF congo red  
UF erioglaucine  
UF neutral red  
UF tolylene red  
SF chemicals  
NT1 bromosulfophthalein  
NT1 eosin  
NT1 indocyanine green  
NT1 methyl orange  
NT1 methyl red  
NT1 methylthymol blue  
NT1 phenolphthalein  
NT1 pyrocatechol violet  
NT1 rose bengal  
NT1 xylenol orange

**INDIGO**

INIS: 2000-04-12; ETDE: 1983-01-21

UF indigo red

BT1 dyes  
\*BT1 indoles

**indigo red**

INIS: 2000-04-12; ETDE: 1983-01-21

USE indigo

**INDIRECT DRIVE ICF**

1999-09-15

Inertial confinement fusion in which the driver energy is converted into x-rays before being absorbed by the target capsule.

RT indirect drive laser implosion  
RT inertial confinement

**INDIRECT DRIVE LASER****IMPLOSION**

INIS: 1995-07-21; ETDE: 1992-06-11

Laser implosion where the driver energy is converted into x-rays before being absorbed by the target capsule.

\*BT1 laser implosions  
RT direct drive laser implosion  
RT indirect drive icf  
RT inertial fusion drivers  
RT laser fusion reactors  
RT laser-produced plasma  
RT laser-radiation heating  
RT laser targets  
RT pulsed fusion reactors

**INDIUM**

\*BT1 metals

**INDIUM 100**

1982-06-09

\*BT1 beta-plus decay radioisotopes  
\*BT1 indium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei

**INDIUM 101**

INIS: 1988-06-22; ETDE: 1988-07-15

\*BT1 indium isotopes

\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**INDIUM 102**

INIS: 1981-02-27; ETDE: 1981-03-13

\*BT1 electron capture radioisotopes  
\*BT1 indium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**INDIUM 103**

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 indium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

**INDIUM 104**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 indium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**INDIUM 105**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 indium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**INDIUM 106**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 indium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**INDIUM 107**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 indium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**INDIUM 108**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 indium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**INDIUM 109**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 indium isotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

**INDIUM 110**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 indium isotopes  
\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

### INDIUM 110 TARGET

ETDE: 1976-07-09

BT1 targets

### INDIUM 111

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

### INDIUM 112

\*BT1 beta-minus decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

### INDIUM 113

\*BT1 hours living radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 stable isotopes

### INDIUM 113 TARGET

ETDE: 1976-07-09

BT1 targets

### INDIUM 114

\*BT1 beta-minus decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

### INDIUM 115

\*BT1 beta-minus decay radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 years living radioisotopes

### INDIUM 115 TARGET

ETDE: 1976-07-09

BT1 targets

### INDIUM 116

\*BT1 beta-minus decay radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

### INDIUM 117

\*BT1 beta-minus decay radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

### INDIUM 118

\*BT1 beta-minus decay radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

### INDIUM 119

\*BT1 beta-minus decay radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

### INDIUM 120

\*BT1 beta-minus decay radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

### INDIUM 121

\*BT1 beta-minus decay radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

### INDIUM 122

\*BT1 beta-minus decay radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

### INDIUM 123

\*BT1 beta-minus decay radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

### INDIUM 124

\*BT1 beta-minus decay radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

### INDIUM 125

\*BT1 beta-minus decay radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

### INDIUM 126

\*BT1 beta-minus decay radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

### INDIUM 127

\*BT1 beta-minus decay radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

### INDIUM 127 TARGET

INIS: 1979-09-18; ETDE: 1979-10-23

BT1 targets

### INDIUM 128

\*BT1 beta-minus decay radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

### INDIUM 129

\*BT1 beta-minus decay radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes

### INDIUM 130

\*BT1 beta-minus decay radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

### INDIUM 131

INIS: 1976-07-30; ETDE: 1976-04-19

\*BT1 beta-minus decay radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

### INDIUM 132

\*BT1 beta-minus decay radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

### INDIUM 133

2002-06-11

\*BT1 beta-minus decay radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

### INDIUM 134

2002-06-11

\*BT1 beta-minus decay radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

### INDIUM 135

2002-06-11

\*BT1 beta-minus decay radioisotopes  
 \*BT1 indium isotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei

### INDIUM ADDITIONS

Alloys containing not more than 1% In are listed here.

\*BT1 indium alloys

### INDIUM ALLOYS

Alloys containing more than 1% In.

BT1 alloys

NT1 indium additions

NT1 indium base alloys

### indium antimonide detectors

INIS: 1988-04-15; ETDE: 2002-06-13

USE insb semiconductor detectors

### INDIUM ANTIMONIDES

INIS: 1989-05-29; ETDE: 1989-06-21

\*BT1 antimonides

BT1 indium compounds

### INDIUM ARSENIDES

\*BT1 arsenides

BT1 indium compounds  
**INDIUM BASE ALLOYS**

\*BT1 indium alloys

**INDIUM BORIDES**

\*BT1 borides  
 BT1 indium compounds

**INDIUM BROMIDES**

\*BT1 bromides  
 BT1 indium compounds

***indium carbides***

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE carbides  
 USE indium compounds

**INDIUM CHLORIDES**

\*BT1 chlorides  
 BT1 indium compounds

**INDIUM COMPLEXES**

BT1 complexes

**INDIUM COMPOUNDS**

1997-06-17

UF *indium carbides*  
 UF *indium silicates*  
 NT1 indium antimonides  
 NT1 indium arsenides  
 NT1 indium borides  
 NT1 indium bromides  
 NT1 indium chlorides  
 NT1 indium fluorides  
 NT1 indium hydrides  
 NT1 indium hydroxides  
 NT1 indium iodides  
 NT1 indium nitrates  
 NT1 indium nitrides  
 NT1 indium oxides  
 NT1 indium perchlorates  
 NT1 indium phosphates  
 NT1 indium phosphides  
 NT1 indium selenides  
 NT1 indium sulfates  
 NT1 indium sulfides  
 NT1 indium tellurides  
 NT1 indium tungstates

**INDIUM FLUORIDES**

\*BT1 fluorides  
 BT1 indium compounds

**INDIUM HYDRIDES**

\*BT1 hydrides  
 BT1 indium compounds

**INDIUM HYDROXIDES**

\*BT1 hydroxides  
 BT1 indium compounds

**INDIUM IODIDES**

BT1 indium compounds  
 \*BT1 iodides

**INDIUM IONS**

\*BT1 ions

**INDIUM ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 indium 100  
 NT1 indium 101  
 NT1 indium 102  
 NT1 indium 103  
 NT1 indium 104  
 NT1 indium 105  
 NT1 indium 106  
 NT1 indium 107  
 NT1 indium 108  
 NT1 indium 109

NT1 indium 110

NT1 indium 111

NT1 indium 112

NT1 indium 113

NT1 indium 114

NT1 indium 115

NT1 indium 116

NT1 indium 117

NT1 indium 118

NT1 indium 119

NT1 indium 120

NT1 indium 121

NT1 indium 122

NT1 indium 123

NT1 indium 124

NT1 indium 125

NT1 indium 126

NT1 indium 127

NT1 indium 128

NT1 indium 129

NT1 indium 130

NT1 indium 131

NT1 indium 132

NT1 indium 133

NT1 indium 134

NT1 indium 135

**INDIUM NITRATES**

BT1 indium compounds

\*BT1 nitrates

**INDIUM NITRIDES**

BT1 indium compounds

\*BT1 nitrides

**INDIUM OXIDES**

BT1 indium compounds

\*BT1 oxides

**INDIUM PERCHLORATES**

INIS: 1978-09-28; ETDE: 1977-11-28

BT1 indium compounds

\*BT1 perchlorates

**INDIUM PHOSPHATES**

INIS: 1978-09-28; ETDE: 1978-10-19

BT1 indium compounds

\*BT1 phosphates

**INDIUM PHOSPHIDE SOLAR CELLS**

INIS: 1992-05-28; ETDE: 1978-12-11

\*BT1 solar cells

**INDIUM PHOSPHIDES**

BT1 indium compounds

\*BT1 phosphides

**INDIUM SELENIDE SOLAR CELLS**

INIS: 1992-05-28; ETDE: 1981-07-18

\*BT1 solar cells

**INDIUM SELENIDES**

1976-03-17

BT1 indium compounds

\*BT1 selenides

***indium silicates***

INIS: 1996-07-18; ETDE: 1975-09-11

(Until July 1996 this was a valid descriptor.)

USE indium compounds

USE silicates

**INDIUM SULFATES**

BT1 indium compounds

\*BT1 sulfates

**INDIUM SULFIDES**

BT1 indium compounds

\*BT1 sulfides

**INDIUM TELLURIDES**

BT1 indium compounds

\*BT1 tellurides

**INDIUM TUNGSTATES**

INIS: 2000-04-12; ETDE: 1976-11-17

BT1 indium compounds

\*BT1 tungstates

**INDOCYANINE GREEN**

INIS: 1975-10-29; ETDE: 1975-12-16

\*BT1 condensed aromatics

BT1 dyes

BT1 indicators

\*BT1 indoles

\*BT1 sulfonates

**INDOLES**

UF *benzopyrroles*

\*BT1 azaarenes

\*BT1 pyrroles

NT1 indigo

NT1 indocyanine green

NT1 lysergic acid

NT1 reserpine

NT1 strychnine

NT1 tryptamines

NT2 melatonin

NT2 serotonin

NT3 bufotenine

NT1 tryptophan

NT1 vinblastine

RT ergotamine

**INDONESIA**

1997-06-19

UF *java (island)*

BT1 asia

BT1 developing countries

BT1 islands

RT dieng geothermal field

RT kamojang geothermal field

RT opec

RT pacific ocean

RT timor sea

**INDONESIAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

***indonesian triga-mk-2 reactor***

1997-01-28

USE triga-2-bandung reactor

**INDOOR AIR CONTAMINATION**

1994-02-28

*For radioactive contamination only. For non-radioactive materials use INDOOR AIR POLLUTION.*

BT1 contamination

RT indoors

**INDOOR AIR POLLUTION**

INIS: 1994-02-28; ETDE: 1978-09-13

*For non-radioactive pollution only. For radioactive materials such as radon use INDOOR AIR CONTAMINATION.*

\*BT1 air pollution

RT indoors

**INDOORS**

2004-11-02

*Only for documents where this concept is significant.*

RT indoor air contamination

RT indoor air pollution

RT outdoors

**INDUCED POLARIZATION LOGGING**

INIS: 2000-04-12; ETDE: 1979-03-29

*Exploration method involving measurement of the slow decay of voltage in the ground following the cessation of an excitation*

*current pulse or low frequency variations of earth impedance.*

\*BT1 electric logging  
RT electrical surveys

### induced radioactivity

USE radioactivity

### INDUCTANCE

1992-03-11

\*BT1 electrical properties  
RT capacitance  
RT electric conductivity

### INDUCTION

NT1 faraday induction  
RT llnl advanced test accelerator

### INDUCTION FURNACES

\*BT1 electric furnaces

### INDUCTION GENERATORS

INIS: 1992-02-23; ETDE: 1981-12-14

\*BT1 electric generators

### INDUCTION LOGGING

INIS: 1984-04-04; ETDE: 1976-06-07

UF magnetic induction logging  
\*BT1 electric logging  
RT magnetic surveys  
RT resistivity logging

### INDUCTION WELDING

\*BT1 welding

### inductors

USE solenoids

### INDUS-1

1994-06-13

450 MeV synchrotron radiation source at the Centre for Advanced Technology, Indore, India.

UF indus-i  
BT1 storage rings  
\*BT1 synchrotron radiation sources

### INDUS-2

1994-06-13

2 GeV synchrotron radiation source at the Centre for Advanced Technology, Indore, India.

UF indus-ii  
BT1 storage rings  
\*BT1 synchrotron radiation sources

### indus-i

INIS: 1994-06-13; ETDE: 1993-08-30

(Until June 1994 this was a valid descriptor.)

USE indus-1

### indus-ii

INIS: 1994-06-13; ETDE: 1993-08-30

(Until June 1994 this was a valid descriptor.)

USE indus-2

### INDUSTRIAL ACCIDENTS

BT1 accidents

### INDUSTRIAL MEDICINE

BT1 medicine  
RT accidents  
RT occupational diseases  
RT occupational safety  
RT personnel  
RT radiation protection  
RT working conditions

### industrial parks

INIS: 2000-04-12; ETDE: 1979-09-26

*Areas at a distance from a city center designed especially for communities of industries and businesses.*

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE energy parks  
SEE industry

### INDUSTRIAL PLANTS

1996-07-18

UF manufacturing facilities  
UF plants (industrial)  
NT1 biomass conversion plants  
NT1 chemical plants  
NT2 gasoline plants  
NT2 petrochemical plants  
NT1 cimarron plutonium production plant  
NT1 cimarron uranium fuel plant  
NT1 coal gasification plants  
NT1 coal liquefaction plants  
NT1 coal preparation plants  
NT1 coking plants  
NT1 desalination plants  
NT1 ethanol plants  
NT1 feed materials plants  
NT2 feed materials production center  
NT2 west valley uf6 facility  
NT1 foundries  
NT1 isotope separation plants  
NT2 centrifuge enrichment plants  
NT3 portsmouth centrifuge enrichment plant  
NT2 gaseous diffusion plants  
NT3 cogema pierrelatte  
NT3 orgdp  
NT3 paducah plant  
NT3 portsmouth gaseous diffusion plant  
NT2 heavy water plants  
NT2 tritium extraction plants  
NT1 lng plants  
NT1 methanol plants  
NT1 natural gas processing plants  
NT1 oil sand processing plants  
NT1 oil shale processing plants  
NT2 anvil points research facility  
NT2 glen davis facility  
NT1 oxygen plants  
NT1 petroleum refineries  
NT1 sequoyah uf6 production plant  
NT1 sng plants  
NT1 synthetic fuels refineries  
NT1 waste processing plants  
NT2 resource recovery facilities  
NT2 waste incinerators  
NT2 waste oil refineries  
RT demonstration plants  
RT fuel fabrication plants  
RT industry  
RT modular structures  
RT pilot plants

### INDUSTRIAL RADIOGRAPHY

1999-12-03

See also BIOMEDICAL RADIOGRAPHY.

UF radiography (industrial)

\*BT1 nondestructive testing  
NT1 beta radiography  
NT1 gamma radiography  
NT2 gamma fuel scanning  
NT1 neutron radiography  
NT1 proton radiography  
NT1 x-ray radiography  
RT autoradiography  
RT inspection  
RT microradiography  
RT radiation attenuation testing

RT radiological personnel  
RT tomography

### industrial relations

INIS: 2000-04-12; ETDE: 1979-06-06

USE labor relations

### industrial sector

INIS: 2000-04-12; ETDE: 1979-03-29

USE industry

### INDUSTRIAL WASTES

INIS: 1975-11-07; ETDE: 1975-10-01

UF municipal wastes (industrial)  
SF emissions (industrial)  
BT1 wastes  
NT1 spent liquors  
RT chemical effluents  
RT chemical wastes  
RT emissions tax  
RT emissions trading  
RT gaseous wastes  
RT liquid wastes  
RT organic wastes  
RT pollutants  
RT refuse derived fuels  
RT scrap  
RT scrap metals  
RT solid wastes

### industrialized countries

INIS: 1982-12-03; ETDE: 1978-03-03

USE developed countries

### INDUSTRY

(From September 1979 to March 1997 INDUSTRIAL PARKS was a valid ETDE descriptor.)

UF industrial sector  
SF end use sector  
SF industrial parks  
NT1 aerospace industry  
NT1 automotive industry  
NT1 beverage industry  
NT1 cement industry  
NT1 ceramics industry  
NT1 chemical industry  
NT1 coal industry  
NT1 construction industry  
NT1 electric power industry  
NT1 fertilizer industry  
NT1 fishing industry  
NT1 food industry  
NT2 dairy industry  
NT2 meat industry  
NT1 furniture industry  
NT1 geothermal industry  
NT1 glass industry  
NT1 metal industry  
NT1 mineral industry  
NT1 natural gas industry  
NT2 lng industry  
NT1 nuclear industry  
NT1 oil sand industry  
NT1 oil shale industry  
NT1 petroleum industry  
NT2 lpg industry  
NT1 plastics industry  
NT1 printing and publishing industry  
NT1 rubber industry  
NT1 solar industry  
NT1 sugar industry  
NT1 synthetic fuels industry  
NT1 textile industry  
NT1 wind power industry  
NT1 wood products industry  
NT2 paper industry  
RT business  
RT by-products  
RT commercialization



RT developing countries  
 RT economic development  
 RT fuel reprocessing plants  
 RT horizontal integration  
 RT hydrogen-based economy  
 RT ifiec  
 RT industrial plants  
 RT joint ventures  
 RT labor relations  
 RT manufacturers  
 RT manufacturing  
 RT marketers  
 RT mining  
 RT resellers  
 RT retailers  
 RT small businesses  
 RT technology assessment  
 RT technology impacts  
 RT technology transfer  
 RT technology utilization  
 RT tourism

**INEEL**

2005-05-18

Formerly known as Idaho National Engineering Laboratory, and before 1976 as NRTS.

UF idaho national engineering and environmental laboratory  
 UF idaho national engineering laboratory  
 UF inel  
 UF national reactor testing station  
 UF nrts  
 \*BT1 us doe

**inel**

INIS: 1984-06-21; ETDE: 2002-06-13  
 USE ineel

**inel safety research experimental facility reactor**

INIS: 1993-11-08; ETDE: 2002-06-13  
 USE saref reactor

**INELASTIC SCATTERING**

1996-01-24  
 BT1 scattering  
 NT1 deep inelastic scattering  
 NT1 delbruck scattering  
 NT1 resonance scattering  
 NT1 thomson scattering  
 RT anharmonic crystals  
 RT hauser-feshbach theory  
 RT incoherent scattering  
 RT skyrme potential  
 RT spin flip

**INERT ATMOSPHERE**

\*BT1 controlled atmospheres  
 NT1 cover gas  
 RT carbon dioxide  
 RT nitrogen  
 RT rare gases

**inertia**

USE moment of inertia

**INERTIAL CONFINEMENT**

INIS: 1999-09-15; ETDE: 1978-04-28  
 A dynamic plasma confinement by inertial forces.

\*BT1 plasma confinement  
 RT aurora facility  
 RT direct drive icf  
 RT electron beam fusion accelerator  
 RT electron beam fusion reactors  
 RT electron beam targets  
 RT icf devices  
 RT impact fusion  
 RT indirect drive icf

RT inertial fusion drivers  
 RT ion beam fusion reactors  
 RT ion beam targets  
 RT laser fusion reactors  
 RT laser implosions  
 RT laser targets  
 RT particle beam fusion accelerator  
 RT us national ignition facility

**inertial confinement fusion devices**

INIS: 1984-08-24; ETDE: 1984-10-24  
 USE icf devices

**inertial confinement fusion targets**

INIS: 1999-07-26; ETDE: 2002-06-13  
 SEE electron beam targets  
 SEE ion beam targets  
 SEE laser targets

**INERTIAL FUSION DRIVERS**

1995-07-21  
 NT1 impact fusion drivers  
 NT2 magnetic gradient accelerators  
 RT direct drive laser implosion  
 RT indirect drive laser implosion  
 RT inertial confinement  
 RT ion beam fusion reactors  
 RT laser fusion reactors

**INERTIAL GUIDANCE**

INIS: 2000-04-12; ETDE: 1975-11-11  
 RT electronic guidance  
 RT navigational instruments

**INERTIAL SEPARATORS**

INIS: 1976-10-07; ETDE: 1976-03-22  
 Separators that operate by imparting a centrifugal force to the particle to be removed from the carrier gas stream.  
 UF ash separators  
 UF centrifugal separators  
 UF separators (inertial)  
 \*BT1 separation equipment  
 NT1 cyclone separators  
 RT dust collectors  
 RT pollution control equipment

**INERTINITE**

INIS: 2000-04-12; ETDE: 1987-07-24  
 BT1 macerals

**ines**

1995-05-10  
 USE international nuclear event scale

**INFANTS**

SF newborns  
 \*BT1 children  
 RT life cycle  
 RT neonates

**INFECTIOUS DISEASES**

BT1 diseases  
 NT1 bacterial diseases  
 NT2 cholera  
 NT2 diphtheria  
 NT2 gonorrhoea  
 NT2 leprosy  
 NT2 syphilis  
 NT2 tetanus  
 NT2 tuberculosis  
 NT2 typhoid  
 NT1 fungal diseases  
 NT2 mycoses  
 NT2 tineas  
 NT1 parasitic diseases  
 NT2 fascioliasis  
 NT2 filariasis  
 NT2 hydatidosis  
 NT2 malaria  
 NT2 schistosomiasis  
 NT2 trichinosis

NT2 trypanosomiasis  
 NT1 rickettsial diseases  
 NT2 typhus  
 NT1 viral diseases  
 NT2 aids  
 NT2 herpes simplex  
 NT2 herpes zoster  
 NT2 infectious hepatitis  
 NT2 influenza  
 NT2 measles  
 NT2 newcastle disease  
 NT2 poliomyelitis  
 NT2 rabies

RT anti-infective agents  
 RT antibiotics  
 RT epidemiology  
 RT granulomas  
 RT incubation  
 RT inflammation  
 RT legionella anisa  
 RT legionella pneumophila  
 RT microorganisms  
 RT septicemia  
 RT virulence

**INFECTIOUS HEPATITIS**

INIS: 2000-03-28; ETDE: 1981-01-12  
 UF hepatitis (infectious)  
 \*BT1 hepatitis  
 \*BT1 viral diseases

**INFECTIVITY**

1997-06-17  
 RT bacteria  
 RT disinfectants  
 RT endotoxins  
 RT germicides

**infiltration (by people)**

INIS: 1985-07-23; ETDE: 2002-06-13  
 USE human intrusion

**infiltration (rock)**

INIS: 1985-07-23; ETDE: 2002-06-13  
 Deposition in rocks of mineral matter by permeation of water carrying the matter in solution. Coordinate the descriptor below with an appropriate descriptor from the work block of ROCKS.  
 USE water influx

**infiltration (water)**

INIS: 1985-07-23; ETDE: 2002-06-13  
 USE water influx

**INFLAMMATION**

BT1 pathological changes  
 BT1 symptoms  
 RT antipyretics  
 RT granulomas  
 RT infectious diseases  
 RT pneumonitis  
 RT trichinosis

**INFLATABLE COLLECTORS**

INIS: 2000-04-12; ETDE: 1979-02-27  
 \*BT1 solar collectors  
 RT solar ponds

**INFLATABLE SEALS**

BT1 seals

**INFLATION**

INIS: 1992-02-05; ETDE: 1978-07-06  
 RT cost  
 RT economic development  
 RT income

**INFLATIONARY UNIVERSE**

INIS: 1985-07-22; ETDE: 1987-08-14  
 Universe described by cosmological models which usually involve a very weakly-coupled

*scalar field which is displaced from the minimum of its potential. Regions of the universe where the scalar field is initially displaced from its minimum undergo inflation as the scalar field relaxes.*

- \*BT1 cosmological models
- RT space-time
- RT unified gauge models

## INFLUENZA

- \*BT1 viral diseases
- RT influenza viruses

## INFLUENZA VIRUSES

- \*BT1 viruses
- RT influenza

## *influx (particles)*

- 1995-07-03
- USE particle influx

## *influx (water)*

- INIS: 1985-10-23; ETDE: 2002-06-13
- USE water influx

## INFORMATION

(From July 1984 till April 1997 CRYPTOGRAPHY was a valid ETDE descriptor; from November 1981 till June 1992 TECHNICAL WRITING was a valid ETDE descriptor.)

- UF *information validation*
- SF *technical writing*
- NT1 classified information
- NT1 data
  - NT2 data compilation
  - NT2 numerical data
  - NT3 compiled data
  - NT3 evaluated data
  - NT3 experimental data
  - NT3 financial data
  - NT3 statistical data
  - NT3 theoretical data
- NT1 diagrams
  - NT2 bragg curve
  - NT2 electrocardiograms
  - NT2 engineering drawings
  - NT2 fermi plot
  - NT2 feynman diagram
  - NT2 flowsheets
  - NT2 goldstone diagrams
  - NT2 hertzprung-russell diagram
  - NT2 mollier diagrams
  - NT2 nomograms
  - NT2 nyquist diagrams
  - NT2 optical depth curve
    - NT3 spectroscopic curve of growth
  - NT2 phase diagrams
  - NT2 s-n diagram
  - NT2 scatterplots
    - NT3 argand diagrams
    - NT3 dalitz plot
    - NT3 prism plot
  - NT2 sun charts
  - NT2 thermochemical diagrams
  - NT2 young diagram
- NT1 proprietary information
- NT1 public information
- NT1 quantum information
  - NT2 qubits
- RT congressional inquiries
- RT cryptography
- RT data base management
- RT information centers
- RT information theory
- RT libraries
- RT manuals
- RT privacy act
- RT records management
- RT technology transfer

## INFORMATION CENTERS

- INIS: 1994-09-09; ETDE: 1976-04-19
- UF *technical information center*
- RT data compilation
- RT educational facilities
- RT information
- RT information systems
- RT libraries

## *information declassification*

- INIS: 2000-04-12; ETDE: 1983-03-24
- USE declassification

## INFORMATION DISSEMINATION

- INIS: 1995-10-27; ETDE: 1980-05-06
- RT information needs
- RT information systems
- RT internet
- RT knowledge management
- RT proprietary information
- RT public information
- RT technology transfer

## INFORMATION NEEDS

INIS: 1976-03-25; ETDE: 1976-08-24  
*Identification of subject areas or types of data on which information is needed in order to further specific areas of research. Coordinate with descriptors for the specific areas of research.*

- RT data
- RT information dissemination
- RT reporting requirements
- RT research programs
- RT us napap

## INFORMATION RETRIEVAL

- 1996-07-08
- (From June 1975 till August 1996 UNISIST was a valid ETDE descriptor.)
- UF *document retrieval*
- UF *records retrieval*
- SF *unisis*
- RT data base management
- RT data tagging
- RT documentation
- RT indexes
- RT information systems
- RT knowledge management
- RT standardized terminology

## INFORMATION SYSTEMS

- 1996-07-08
- (From June 1975 till August 1996 UNISIST was a valid ETDE descriptor.)
- SF *seedis*
- SF *unisis*
- NT1 agris
- NT1 cinda
- NT1 etde
- NT1 geographic information systems
- NT1 inis
- NT1 seidb
- NT1 wends
- RT computer networks
- RT data base management
- RT data compilation
- RT data tagging
- RT distributed data processing
- RT documentation
- RT information centers
- RT information dissemination
- RT information retrieval
- RT information theory
- RT knowledge management
- RT libraries
- RT nuclear data collections
- RT standardized terminology

## INFORMATION THEORY

- RT communications

- RT cybernetics
- RT data processing
- RT game theory
- RT information
- RT information systems
- RT quantum information
- RT redundancy
- RT set theory

## *information validation*

- INIS: 1982-10-29; ETDE: 1995-05-10
- USE information
- USE verification

## INFRARED DIVERGENCES

- UF *divergences (infrared)*
- RT quantum electrodynamics

## INFRARED RADIATION

- \*BT1 electromagnetic radiation
- NT1 far infrared radiation
- NT1 intermediate infrared radiation
- NT1 near infrared radiation
- RT infrared spectra
- RT infrared thermography
- RT thermal radiation
- RT thermography
- RT wavelengths

## INFRARED SPECTRA

- BT1 spectra
- RT absorption spectroscopy
- RT infrared radiation
- RT structural chemical analysis
- RT vibrational states

## INFRARED SPECTROMETERS

- 1976-02-11
- \*BT1 spectrometers
- NT1 photoacoustic spectrometers

## INFRARED SURVEYS

- 2000-01-21
- \*BT1 geophysical surveys
- RT geothermal exploration

## INFRARED THERMOGRAPHY

- INIS: 1978-07-03; ETDE: 1977-09-19
- A method for measuring the infrared radiation emitted from surfaces.*
- UF *thermal photography*
- \*BT1 thermography
- RT heat losses
- RT infrared radiation
- RT temperature monitoring

## INFUSION

- BT1 intake

## *inlinc*

- 1996-07-18
- Intense Neutron Generator Linac.*
- (Until July 1996 this was a valid descriptor.)
- USE linear accelerators
- USE neutron sources

## INGESTION

- BT1 intake
- RT beverages
- RT diet
- RT digestion
- RT drinking water
- RT food
- RT intestinal absorption
- RT oral administration
- RT oral cavity

## INHALATION

- BT1 intake
- RT aerosols
- RT air
- RT breath

RT dusts  
 RT intratracheal administration  
 RT maximum inhalation quantity  
 RT radionuclide administration  
 RT respiration  
 RT respirators  
 RT respiratory system

**inhalation exposure chambers**

INIS: 1978-09-28; ETDE: 1977-10-20  
 USE exposure chambers

**INHALATION TOXICOLOGY RESEARCH INSTITUTE**

INIS: 2000-04-12; ETDE: 1982-07-27  
 UF itri  
 UF lovelace biomedical and environmental research institute  
 \*BT1 us doe  
 RT new mexico

**INHIBITION**

UF extinguishment  
 UF growth inhibition  
 UF suppression  
 NT1 sprout inhibition  
 RT catalysis  
 RT enzyme inhibitors  
 RT flames  
 RT inactivation  
 RT stabilization

**inhibitors (corrosion)**

USE corrosion inhibitors

**inhibitors (enzyme)**

INIS: 1978-08-30; ETDE: 1976-03-11  
 USE enzyme inhibitors

**INHOMOGENEOUS FIELDS**

RT electric fields  
 RT electromagnetic fields  
 RT magnetic fields

**INHOMOGENEOUS PLASMA**

BT1 plasma

**INHOUR EQUATION**

1999-07-07  
 UF nordheim equation  
 BT1 equations  
 RT reactivity  
 RT reactor kinetics

**INHOURLS**

\*BT1 reactivity units

**INIS**

1996-04-19  
 UF international nuclear information system  
 BT1 information systems  
 RT iaea

**initial reservoir pressure**

INIS: 1986-07-09; ETDE: 1978-09-11  
 USE reservoir pressure

**INJECTION**

BT1 intake  
 NT1 intramuscular injection  
 NT1 intraperitoneal injection  
 NT1 intravenous injection  
 NT1 subcutaneous injection  
 RT implants  
 RT radionuclide administration  
 RT therapy

**injection (beams)**

USE beam injection

**injection (pellets)**

INIS: 1988-11-16; ETDE: 2002-06-13  
 USE pellet injection

**injection fluids**

INIS: 2000-04-12; ETDE: 1985-08-08  
 For oil and gas wells.  
 USE displacement fluids

**INJECTION WELLS**

1991-10-22  
 A well used for injecting fluids into underground strata.  
 UF input well  
 BT1 wells  
 RT geothermal wells  
 RT reinjection

**INJURIES**

UF trauma  
 UF traumatic shock  
 BT1 diseases  
 NT1 bone fractures  
 NT1 burns  
 NT2 flash burns  
 NT2 radiation burns  
 NT1 radiation injuries  
 NT2 osteoradionecrosis  
 NT2 radiation burns  
 NT2 radiodermatitis  
 NT1 wounds  
 RT accidents  
 RT first aid  
 RT health hazards  
 RT hematomas  
 RT safety  
 RT single intake

**INKS**

1996-07-18  
 UF india ink  
 RT dyes

**INLAND WATERWAYS**

UF canals (waterways)  
 BT1 surface waters  
 NT1 manivier canal  
 NT1 panama canal  
 NT1 suex canal  
 RT harbors  
 RT lakes  
 RT marinas  
 RT rivers  
 RT territorial waters  
 RT transport

**inlet event**

INIS: 2000-04-12; ETDE: 1977-06-21  
 USE anvil project

**inner bremsstrahlung**

USE internal bremsstrahlung

**inner mongolia**

INIS: 2000-04-12; ETDE: 1979-12-10  
 USE china

**INNER-SHELL EXCITATION**

INIS: 1987-11-02; ETDE: 1987-12-23  
 \*BT1 excitation  
 RT inner-shell ionization

**INNER-SHELL IONIZATION**

INIS: 1976-07-06; ETDE: 1976-08-24  
 BT1 ionization  
 RT auger effect  
 RT autoionization  
 RT coulomb ionization  
 RT inner-shell excitation

**inns**

INIS: 2000-04-12; ETDE: 1979-12-17  
 USE hotels

**INOCULATION**

RT immune serums  
 RT immunity  
 RT vaccines  
 RT viruses

**INOR-8**

1993-10-03  
 \*BT1 alloy-ni70mo17cr7fe5  
 RT inconel alloys

**INORGANIC ACIDS**

(From August 1979 to March 1997  
 HETEROPOLY ACIDS was a valid ETDE descriptor.)

UF acids (inorganic)  
 UF heteropoly acids  
 UF mineral acids  
 UF polythionic acids  
 BT1 hydrogen compounds  
 BT1 inorganic compounds  
 NT1 boric acid  
 NT1 broensted acids  
 NT1 bromic acid  
 NT1 carbonic acid  
 NT1 chloric acid  
 NT1 chlorous acid  
 NT1 chromic acid  
 NT1 fluoroboric acid  
 NT1 hydrazoic acid  
 NT1 hydriodic acid  
 NT1 hydrobromic acid  
 NT1 hydrochloric acid  
 NT1 hydrocyanic acid  
 NT1 hydrofluoric acid  
 NT1 hypochlorous acid  
 NT1 hypofluorous acid  
 NT1 hypoiodous acid  
 NT1 hypophosphorous acid  
 NT1 iodic acid  
 NT1 lewis acids  
 NT1 molybdic acid  
 NT1 molybdophosphoric acid  
 NT1 nitric acid  
 NT1 nitrous acid  
 NT1 perchloric acid  
 NT1 periodic acid  
 NT1 phosphoric acid  
 NT1 phosphorous acid  
 NT1 silicic acid  
 NT1 sulfamic acid  
 NT1 sulfuric acid  
 NT1 sulfurous acid  
 NT1 telluric acid  
 NT1 tungstophosphoric acid  
 RT acid carbonates  
 RT acid sulfates  
 RT acid sulfites  
 RT acidification  
 RT anhydrides  
 RT ph value

**INORGANIC COMPOUNDS**

1986-07-10  
 For very general papers only. Use of a more specific terms recommended.

UF compounds (inorganic)  
 SF chemicals  
 NT1 inorganic acids  
 NT2 boric acid  
 NT2 broensted acids  
 NT2 bromic acid  
 NT2 carbonic acid  
 NT2 chloric acid  
 NT2 chlorous acid  
 NT2 chromic acid

NT2 fluoroboric acid  
 NT2 hydrazoic acid  
 NT2 hydroiodic acid  
 NT2 hydrobromic acid  
 NT2 hydrochloric acid  
 NT2 hydrocyanic acid  
 NT2 hydrofluoric acid  
 NT2 hypochlorous acid  
 NT2 hypofluorous acid  
 NT2 hypoiodous acid  
 NT2 hypophosphorous acid  
 NT2 iodic acid  
 NT2 lewis acids  
 NT2 molybdic acid  
 NT2 molybdophosphoric acid  
 NT2 nitric acid  
 NT2 nitrous acid  
 NT2 perchloric acid  
 NT2 periodic acid  
 NT2 phosphoric acid  
 NT2 phosphorous acid  
 NT2 silicic acid  
 NT2 sulfamic acid  
 NT2 sulfuric acid  
 NT2 sulfurous acid  
 NT2 telluric acid  
 NT2 tungstophosphoric acid  
 RT chemical feedstocks

**INORGANIC ION EXCHANGERS**

UF *permutit (inorganic)*  
 \*BT1 ion exchange materials  
 NT1 bentonite  
 NT1 montmorillonite  
 NT1 mullite  
 NT1 vermiculite  
 NT1 zeolites  
 NT2 clinoptilolite  
 NT2 faujasite  
 NT2 heulandite  
 NT2 laumontite  
 NT2 mordenite  
 NT2 wairakite

**INORGANIC PHOSPHORS**

1999-08-23

BT1 phosphors  
 NT1 cadmium sulfides  
 NT1 cadmium tungstates  
 NT1 calcium tungstates  
 NT1 cesium iodides  
 NT1 lithium iodides  
 NT1 potassium iodides  
 NT1 sodium iodides  
 NT1 zinc sulfides  
 RT bismuth germanates  
 RT solid scintillation detectors

**INORGANIC POLYMERS**

BT1 polymers

**INOSINE**

\*BT1 nucleosides  
 \*BT1 purines  
 RT hypoxanthine

**INOSITOL**

UF *i-inositol*  
 \*BT1 inositols  
 \*BT1 lipotropic factors  
 RT phytic acid

**INOSITOLS**

\*BT1 monosaccharides  
 NT1 inositol  
 RT hydroxy compounds

**input-output**

INIS: 2000-04-12; ETDE: 1979-05-02

SEE material balance

**INPUT-OUTPUT ANALYSIS**

INIS: 1999-01-27; ETDE: 1978-04-06  
*A type of economic analysis.*  
 (Until January 1999, this concept was indexed by the broader term ECONOMIC ANALYSIS.)  
 SF *operations research*  
 \*BT1 economic analysis  
 RT developing countries  
 RT economy  
 RT energy analysis  
 RT regional analysis

**input well**

INIS: 2000-04-12; ETDE: 1976-03-31  
 USE injection wells

**INR CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-03-24  
*Institute of Nuclear Research, Academia Sinica, Shanghai.*  
 UF *institute of nuclear research (shanghai) cyclotron*  
 UF *shanghai inr cyclotron*  
 \*BT1 isochronous cyclotrons

**ins cyclotron (tokyo)**

INIS: 1983-06-01; ETDE: 2002-06-13  
 USE tokyo ins cyclotron

**INSB SEMICONDUCTOR DETECTORS**

INIS: 1988-04-15; ETDE: 1988-07-08  
*Indium antimonide semiconductor detectors.*  
 UF *indium antimonide detectors*  
 \*BT1 semiconductor detectors

**INSECT DISPERSAL**

UF *dispersal (insect)*  
 RT behavior  
 RT insects  
 RT sterile insect release  
 RT sterile male technique

**INSECTICIDES**

BT1 pesticides  
 NT1 aldrin  
 NT1 ddt  
 NT1 dieldrin  
 NT1 kepone  
 NT1 lindane  
 NT1 malathion  
 NT1 parathion  
 RT insects

**INSECTS**

1996-07-08  
 UF *caste (insects)*  
 UF *entomology*  
 \*BT1 arthropods  
 NT1 coleoptera  
 NT2 beetles  
 NT3 boll weevil  
 NT3 tribolium  
 NT1 dictyoptera  
 NT2 cockroaches  
 NT1 diptera  
 NT2 flies  
 NT3 fruit flies  
 NT4 anastrepha  
 NT4 ceratitis capitata  
 NT4 dacus  
 NT5 dacus oleae  
 NT4 drosophila  
 NT3 glossina  
 NT3 hylemya antiqua  
 NT3 screwworm fly  
 NT2 mosquitoes  
 NT1 ephemeroptera  
 NT1 hemiptera  
 NT2 aphids

NT1 hymenoptera  
 NT2 ants  
 NT2 bees  
 NT2 wasps  
 NT1 lepidoptera  
 NT2 moths  
 NT3 bollworm  
 NT3 codling moth  
 NT3 lymantria dispar  
 NT3 rice stem borers  
 NT3 silkworm  
 NT1 orthoptera  
 NT2 grasshoppers  
 NT3 locusts  
 RT chemical attractants  
 RT chemoreceptors  
 RT disease vectors  
 RT genetic control  
 RT grain disinfestation  
 RT insect dispersal  
 RT insecticides  
 RT larvae  
 RT mass rearing  
 RT parasites  
 RT pest control  
 RT pest eradication  
 RT pheromone  
 RT pupae  
 RT radiodisinfestation  
 RT rearing  
 RT rickettsiae  
 RT sterile male technique

**INSOLATION**

1984-04-04

RT diffuse solar radiation  
 RT direct solar radiation  
 RT solar flux  
 RT solar radiation  
 RT solar simulators  
 RT sun charts

**INSPECTION**

(Prior to May 1996 SURVEILLANCE was a valid ETDE descriptor.)

UF *control (inspection)*  
 SF *surveillance*  
 NT1 in-service inspection  
 NT1 on-site inspection  
 RT accuracy  
 RT audits  
 RT calibration  
 RT evaluation  
 RT gesellschaft fuer anlagen- und reaktorsicherheit  
 RT industrial radiography  
 RT legal aspects  
 RT licensing  
 RT materials testing  
 RT nondestructive testing  
 RT performance testing  
 RT post-irradiation examination  
 RT preventive medicine  
 RT quality control  
 RT radiation monitoring  
 RT radiation protection  
 RT reactor maintenance  
 RT recommendations  
 RT safeguards  
 RT sampling  
 RT specifications  
 RT testing  
 RT verification

**inspector general (us doe)**

INIS: 1994-09-29; ETDE: 1980-06-06

USE us doe inspector general

**inst fiziki vysokikh ehnergij**

INIS: 1984-06-21; ETDE: 2002-06-13  
USE ihep

**inst phys chem res rilac**

INIS: 1986-05-23; ETDE: 2002-06-13  
USE rilac

**inst v kernph onder amsterdam**

INIS: 2000-02-08; ETDE: 1978-09-11  
USE iko

**INSTABILITY**

- NT1 combustion instability
- NT1 pierce instability
- NT1 plasma instability
- NT2 absolute instabilities
- NT2 convective instabilities
- NT2 decay instability
- NT2 explosive instability
- NT2 gravitational instability
- NT2 plasma macroinstabilities
- NT3 ballooning instability
- NT3 edge localized modes
- NT3 fishbone instability
- NT3 flute instability
- NT3 helical instability
- NT3 helmholtz instability
- NT3 kink instability
- NT3 parametric instabilities
- NT3 sausage instability
- NT3 tearing instability
- NT3 tilting instability
- NT3 trapped-particle instability
- NT3 whistler instability
- NT2 plasma microinstabilities
- NT3 bump-in-tail instability
- NT3 cyclotron instability
- NT3 drift instability
- NT3 hose instability
- NT3 ion wave instability
- NT3 loss cone instability
- NT3 negative mass instability
- NT3 two-stream instability
- NT1 rayleigh-taylor instability
- RT bifurcation
- RT stability

**INSTABILITY GROWTH RATES**

- RT plasma instability
- RT time dependence

**INSTALLATION**

INIS: 1992-09-30; ETDE: 1976-05-13  
RT construction

**installation sites**

INIS: 1976-12-08; ETDE: 2002-06-13  
If appropriate use one of the specific types of facilities.  
USE nuclear facilities

**INSTANTONS**

INIS: 1978-01-13; ETDE: 1977-11-29  
Finite action solutions to Euclidean field equations, localized in time and space.  
UF pseudoparticles  
BT1 quasi particles  
RT field equations  
RT field theories  
RT gauge invariance  
RT higgs model  
RT lattice field theory  
RT merons  
RT quantum chromodynamics  
RT solitons  
RT su groups  
RT symmetry breaking  
RT vacuum states  
RT yang-mills theory

**institut fuer isotoopen- und strahlenforschung leipzig**

INIS: 1986-05-23; ETDE: 2002-06-13  
USE zfi leipzig

**institute for high energy physics**

INIS: 1993-11-08; ETDE: 2002-06-13  
USE ihep

**institute for nuclear studies cyclotron**

INIS: 1993-11-08; ETDE: 2002-06-13  
USE tokyo ins cyclotron

**institute for reactor safety**

INIS: 1977-09-06; ETDE: 1977-10-19  
USE gesellschaft fuer anlagen- und reaktorsicherheit

**institute of nuclear research (shanghai) cyclotron**

INIS: 1993-11-08; ETDE: 2002-06-13  
USE inr cyclotron

**institute of physical and chemical research cyclotron**

INIS: 1993-11-08; ETDE: 2002-06-13  
USE ipcr cyclotron

**INSTITUTIONAL FACTORS**

INIS: 1999-03-01; ETDE: 1979-05-25  
NT1 political aspects  
NT1 socio-economic factors  
RT government policies  
RT institutional sector  
RT public policy

**INSTITUTIONAL SECTOR**

INIS: 2000-04-12; ETDE: 1979-09-27  
RT institutional factors  
RT national government  
RT state government

**instituto de asuntos nucleares r1**

1993-11-08  
USE ian-r1 reactor

**instituto de energia atomica r1**

1993-11-08  
USE iear-1 reactor

**instituto de energia atomica zpr**

INIS: 1993-11-08; ETDE: 2002-06-13  
USE iea-zpr reactor

**instituto enghoria nuclear rio reactor**

1993-11-08  
USE rien-1 reactor

**instruments (measuring)**

USE measuring instruments

**insulating limiters**

USE limiters

**INSULATING OILS**

INIS: 1999-03-01; ETDE: 1980-07-23  
A high-quality oil whose high dielectric strength and high flash point allow it to be used in switches, circuit breakers, and transformers as an insulating and cooling medium.  
UF transformer oils  
\*BT1 oils  
RT circuit breakers  
RT dielectric materials  
RT dielectric properties  
RT electrical insulators  
RT switches  
RT transformers

**insulation (acoustic)**

INIS: 2000-04-12; ETDE: 1995-07-03  
USE acoustic insulation

**insulation (electrical, by dielectric materials)**

INIS: 1993-11-08; ETDE: 2002-06-13  
USE electrical insulation

**insulation (electrical, by magnetic fields)**

INIS: 1993-11-08; ETDE: 2002-06-13  
USE magnetic insulation

**insulation (electrical)**

INIS: 2000-04-12; ETDE: 1977-06-02  
USE electrical insulation

**insulation (magnetic)**

INIS: 2000-04-12; ETDE: 1980-11-08  
USE magnetic insulation

**insulation (thermal)**

USE thermal insulation

**insulators (electrical)**

USE electrical insulators

**INSULIN**

- \*BT1 peptide hormones
- RT diabetes mellitus
- RT glucose
- RT metabolism
- RT pancreas

**INSURANCE**

- UF health insurance
- UF insurance law
- UF marine insurance
- UF property insurance
- UF transport insurance
- NT1 accident insurance
- NT1 nuclear insurance
- RT financial security
- RT hazards
- RT legal aspects
- RT liabilities
- RT victims compensation

**insurance law**

INIS: 1990-12-15; ETDE: 2002-06-13  
(Prior to December 1990, this was a valid descriptor.)  
USE insurance  
USE legal aspects

**INTAKE**

- NT1 chronic intake
- NT1 infusion
- NT1 ingestion
- NT1 inhalation
- NT1 injection
- NT2 intramuscular injection
- NT2 intraperitoneal injection
- NT2 intravenous injection
- NT2 subcutaneous injection
- NT1 oral administration
- NT1 rectal administration
- NT1 single intake
- RT annual limit of intake
- RT maximum permissible intake
- RT radionuclide administration
- RT radionuclide kinetics
- RT uptake

**INTAKE CANALS**

2000-04-12  
RT auxiliary water systems  
RT intake structures

**INTAKE STRUCTURES**

1996-05-14

- BT1 mechanical structures
- RT cooling systems
- RT impingement
- RT intake canals
- RT screens

**INTEGRAL CALCULUS**

- UF *residues (mathematical)*
- BT1 mathematics
- RT poincare-bertrand formula

**INTEGRAL CROSS SECTIONS**

INIS: 1976-05-05; ETDE: 1976-06-07

*Cross sections integrated over all angles; a measure of the reaction probability, not of the angular distribution.*

- BT1 cross sections
- RT excitation functions
- RT nuclear reactions

**INTEGRAL DOSES**

- \*BT1 radiation doses
- RT cuex
- RT maximum permissible exposure
- RT spatial dose distributions
- RT temporal dose distributions

**INTEGRAL EQUATIONS**

- BT1 equations
- NT1 blankenbecler-sugar equations
- NT1 fredholm equation
- NT1 lippmann-schwinger equation
- NT1 quasipotential equation
- NT1 volterra integral equations
- RT differential equations
- RT integrals
- RT kernels
- RT mathematics
- RT point kernels

**INTEGRAL PAC**

UF *perturbed angular correlation (integral)*

- \*BT1 perturbed angular correlation

**INTEGRAL TRANSFORMATIONS**

- BT1 transformations
- NT1 fourier transformation
- NT1 hankel transform
- NT1 hilbert transformation
- NT1 laplace transformation
- NT1 mellin transform
- RT integrals
- RT mathematics

**INTEGRALS**

(From October 1975 till May 1996

SOMMERFELD INTEGRALS was a valid ETDE descriptor.)

- UF *sommerfeld integrals*
- NT1 action integral
- NT1 collision integrals
- NT1 path integrals
- NT2 feynman path integral
- NT1 resonance integrals
- NT1 talmi integrals
- RT integral equations
- RT integral transformations
- RT mathematics
- RT quadratures

**INTEGRATED CIRCUITS**

- \*BT1 microelectronic circuits

***integrated community energy systems***

INIS: 2000-04-12; ETDE: 1977-06-30

- USE ices program

**INTEGRATED COOLING SYSTEMS**

- \*BT1 reactor cooling systems

**INTEGRATED ENERGY UTILITY SYSTEMS**

INIS: 2000-04-12; ETDE: 2005-01-28

(Prior to January 2005 IEUS was used for this concept.)

- UF *ieus (integrated energy utility systems)*
- BT1 energy systems
- NT1 modular integrated utility systems
- RT ices program
- RT public utilities
- RT total energy systems

**INTEGRATED IN-SITU PROCESS**

INIS: 2000-04-12; ETDE: 1981-10-24

*Multe Mineral Corp. Process for producing shale oil, raw nahcolite, soda ash, and alumina.*

- BT1 modified in-situ processes
- RT aluminium oxides
- RT nahcolite
- RT oil shales

***integrated utility systems***

INIS: 1982-12-03; ETDE: 1977-09-19

- USE total energy systems

***integrators (pulse)***

- USE pulse integrators

***integrity (fuel)***

INIS: 1986-03-04; ETDE: 1985-03-26

- USE fuel integrity

**INTEGRO-DIFFERENTIAL EQUATIONS**

1995-09-06

- BT1 equations
- NT1 boltzmann equation

***intense neutron generator linac***

1996-07-18

(Prior to March 1997 ING LINAC was used for this concept in ETDE.)

- USE linear accelerators
- USE neutron sources

***intensifiers (image)***

- USE image intensifiers

***inter-governmental maritime consultative organization***

INIS: 2000-02-10; ETDE: 2002-06-13

- USE imo

**INTERACTING BOSON MODEL**

- \*BT1 shell models
- RT boson expansion
- RT boson-fermion symmetry
- RT bosons
- RT nuclear structure

**INTERACTION RANGE**

- UF *long-range interactions*
- UF *short-range interactions*
- BT1 distance
- RT interactions

**INTERACTIONS**

*For elementary particles and radiations only.*

*See also CONFIGURATION INTERACTION.*

- NT1 basic interactions
- NT2 electromagnetic interactions
- NT3 compton effect
- NT3 coulomb scattering
- NT3 electroproduction
- NT3 photon-hadron interactions
- NT4 photon-baryon interactions
- NT5 photon-hyperon interactions
- NT5 photon-nucleon interactions
- NT6 photon-neutron interactions

- NT6 photon-proton interactions
- NT4 photon-meson interactions
- NT3 photon-photon interactions
- NT3 photoproduction
- NT4 primakoff effect
- NT3 umklapp processes
- NT2 gravitational interactions
- NT2 strong interactions
- NT3 charge-exchange interactions
- NT3 peripheral collisions
- NT2 weak interactions
- NT3 fermi interactions
- NT3 leptonic decay
- NT1 configuration mixing
- NT1 exchange interactions
- NT1 final-state interactions
- NT1 finite-range interactions
- NT1 pair production
- NT2 internal pair production
- NT1 pairing interactions
- NT1 particle interactions
- NT2 annihilation
- NT2 charged-current interactions
- NT2 coherent production
- NT2 electron-quark interactions
- NT2 electroproduction
- NT2 exclusive interactions
- NT3 semi-exclusive interactions
- NT2 gluon-gluon interactions
- NT2 hadron-hadron interactions
- NT3 baryon-baryon interactions
- NT4 hyperon-hyperon interactions
- NT4 nucleon-antinucleon interactions
- NT5 antiproton-neutron interactions
- NT5 neutron-antineutron interactions
- NT5 proton-antineutron interactions
- NT5 proton-antiproton interactions
- NT4 nucleon-hyperon interactions
- NT4 nucleon-nucleon interactions
- NT5 neutron-neutron interactions
- NT5 proton-nucleon interactions
- NT6 proton-neutron interactions
- NT6 proton-proton interactions
- NT3 meson-baryon interactions
- NT4 meson-hyperon interactions
- NT5 kaon-hyperon interactions
- NT5 pion-hyperon interactions
- NT4 meson-nucleon interactions
- NT5 kaon-nucleon interactions
- NT6 kaon-neutron interactions
- NT7 kaon minus-neutron interactions
- NT7 kaon neutral-neutron interactions
- NT7 kaon plus-neutron interactions
- NT6 kaon-proton interactions
- NT7 kaon minus-proton interactions
- NT7 kaon neutral-proton interactions
- NT7 kaon plus-proton interactions
- NT5 pion-nucleon interactions
- NT6 pion-neutron interactions
- NT7 pion minus-neutron interactions
- NT7 pion plus-neutron interactions
- NT6 pion-proton interactions
- NT7 pion minus-proton interactions
- NT7 pion plus-proton interactions
- NT3 meson-meson interactions
- NT4 kaon-kaon interactions

**NT4** pion-kaon interactions  
**NT4** pion-pion interactions  
**NT2** inclusive interactions  
**NT3** semi-inclusive interactions  
**NT2** incoherent production  
**NT2** lepton-hadron interactions  
**NT3** lepton-baryon interactions  
**NT4** lepton-nucleon interactions  
**NT5** deep inelastic scattering  
**NT5** electron-nucleon interactions  
**NT6** electron-neutron interactions  
**NT6** electron-proton interactions  
**NT5** lepton-neutron interactions  
**NT6** antilepton-neutron interactions  
**NT7** antineutrino-neutron interactions  
**NT5** lepton-proton interactions  
**NT6** antilepton-proton interactions  
**NT7** antineutrino-proton interactions  
**NT5** muon-nucleon interactions  
**NT6** muon-neutron interactions  
**NT6** muon-proton interactions  
**NT5** neutrino-nucleon interactions  
**NT6** antineutrino-nucleon interactions  
**NT7** antineutrino-neutron interactions  
**NT7** antineutrino-proton interactions  
**NT6** neutrino-neutron interactions  
**NT7** antineutrino-neutron interactions  
**NT6** neutrino-proton interactions  
**NT7** antineutrino-proton interactions  
**NT3** lepton-meson interactions  
**NT4** electron-meson interactions  
**NT5** electron-pion interactions  
**NT4** muon-meson interactions  
**NT4** neutrino-meson interactions  
**NT2** lepton-lepton interactions  
**NT3** electron-electron interactions  
**NT3** electron-muon interactions  
**NT3** electron-positron interactions  
**NT3** muon-muon interactions  
**NT3** neutrino-electron interactions  
**NT4** antineutrino-electron interactions  
**NT3** neutrino-muon interactions  
**NT3** neutrino-neutrino interactions  
**NT3** positron-positron interactions  
**NT2** neutral-current interactions  
**NT2** photon-hadron interactions  
**NT3** photon-baryon interactions  
**NT4** photon-hyperon interactions  
**NT4** photon-nucleon interactions  
**NT5** photon-neutron interactions  
**NT5** photon-proton interactions  
**NT3** photon-meson interactions  
**NT2** photon-lepton interactions  
**NT3** photon-electron interactions  
**NT3** photon-muon interactions  
**NT3** photon-neutrino interactions  
**NT2** photon-photon interactions  
**NT2** photoproduction  
**NT3** primakoff effect  
**NT2** quark-antiquark interactions  
**NT2** quark-gluon interactions  
**NT2** quark-hadron interactions  
**NT2** quark-quark interactions  
**NT1** residual interactions  
*RT* abc effect  
*RT* beam luminosity  
*RT* capture  
*RT* capture-to-fission ratio  
*RT* colliding beams

*RT* collisions  
*RT* coupling  
*RT* decay  
*RT* effective range theory  
*RT* interaction range  
*RT* lorentz force  
*RT* nuclear molecules  
*RT* nucleon-nucleon potential  
*RT* pomeranchuk theorem  
*RT* scattering  
*RT* selection rules  
*RT* threshold energy  
*RT* transverse momentum  
*RT* wolfenstein parameters

## INTERACTIVE DISPLAY DEVICES

*UF* interactive graphics  
 \*BT1 display devices  
*RT* computer graphics

## interactive graphics

USE interactive display devices

## INTERAGENCY COOPERATION

*INIS*: 1994-06-27; *ETDE*: 1980-08-25  
 BT1 cooperation

## INTERATOMIC DISTANCES

BT1 distance  
*RT* molecular structure

## INTERATOMIC FORCES

*RT* binding energy  
*RT* buckingham potential  
*RT* lennard-jones potential  
*RT* morse potential  
*RT* potentials

## intercalates

*INIS*: 2000-04-12; *ETDE*: 1977-08-09  
 USE clathrates

## INTERCEPTION

*INIS*: 2000-04-12; *ETDE*: 1984-12-10  
*RT* acid rain  
*RT* atmospheric precipitations  
*RT* evaporation  
*RT* forests  
*RT* plants  
*RT* rain water  
*RT* runoff  
*RT* security  
*RT* throughfall  
*RT* water

## interchange instability

USE flute instability

## INTERCHANGEABILITY

*INIS*: 1993-02-18; *ETDE*: 1977-09-19  
*Ability to substitute one energy source, fuel or material for another.*  
*RT* compatibility  
*RT* energy sources  
*RT* fuel substitution  
*RT* fuels  
*RT* material substitution  
*RT* materials  
*RT* resource conservation

## INTERCONNECTED POWER SYSTEMS

*INIS*: 1992-03-17; *ETDE*: 1979-05-03  
*A system of two or more individual power systems normally operating with interconnecting tie lines enabling each system to draw on the other's reserves in time of need or for economic reasons.*  
*UF* power pools  
 \*BT1 power systems  
*RT* power factor  
*RT* power generation

*RT* power pooling  
*RT* power transmission  
*RT* sellback

## intercrystalline corrosion

USE intergranular corrosion

## INTEREST GROUPS

*INIS*: 1982-12-03; *ETDE*: 1980-12-08  
*For groups formed to further a particular interest, e.g. antinuclear groups, industry groups.*

*UF* antinuclear groups  
*UF* lobbies  
*UF* pressure groups  
*SF* adversaries  
*RT* consumer protection  
*RT* human intrusion  
*RT* human populations  
*RT* intervenors  
*RT* minority groups

## INTEREST RATE

*INIS*: 2000-04-12; *ETDE*: 1978-06-14  
*UF* discount rate  
*RT* charges  
*RT* debt collection  
*RT* financing  
*RT* investment

## INTERFACES

*Not in the sense of EQUIPMENT INTERFACES.*

**NT1** sediment-water interfaces  
*RT* surfaces

## interfaces (equipment)

USE equipment interfaces

## interfacial tension

*INIS*: 2000-04-12; *ETDE*: 1980-11-25  
 SEE surface tension

## INTERFERENCE

*RT* radio noise  
*RT* wave propagation

## INTERFERING ELEMENTS

*RT* impurities

## INTERFEROMETERS

*UF* vlb systems  
 BT1 measuring instruments  
**NT1** fabry-perot interferometer  
**NT1** mach-zehnder interferometer  
**NT1** michelson interferometer  
*RT* interferometry  
*RT* radio telescopes  
*RT* spectrometers  
*RT* squid devices

## INTERFEROMETRY

*RT* interferometers

## INTERFERON

1999-09-08

*A protein (lymphokine) released by cells in response to virus infection. When taken up by other cells, interferon inhibits the replication of viruses within them.*

\*BT1 lymphokines  
*RT* immunity  
*RT* viruses

## INTERGALACTIC SPACE

BT1 space  
*RT* nonluminous matter  
*RT* universe

**INTERGOVERNMENTAL COOPERATION***INIS: 1985-04-22; ETDE: 1979-12-17**Limited to cooperation between the national government and the government of one or more of the country's administrative subdivisions, or between the governments of some of the subdivisions. Not for INTERNATIONAL COOPERATION.*BT1 cooperation  
RT compact commissions**INTERGRANULAR CORROSION**UF *intercrystalline corrosion*\*BT1 corrosion  
RT grain boundaries**interim storage***INIS: 1982-12-06; ETDE: 2002-06-13*

USE waste storage

**INTERKOSMOS SATELLITES**BT1 satellites  
RT kosmos satellites  
RT proton satellites**INTERLABORATORY COMPARISONS***INIS: 1982-08-27; ETDE: 1982-09-10*RT calibration standards  
RT comparative evaluations  
RT cooperation  
RT coordinated research programs**interleukins***1995-07-03*

USE lymphokines

**INTERLOCKS***1986-05-23*RT control systems  
RT reactor control systems  
RT switches**INTERMEDIATE BOSONS**UF *w boson*BT1 bosons  
BT1 elementary particles  
NT1 intermediate vector bosons  
NT2 w minus bosons  
NT2 w plus bosons  
NT2 z neutral bosons**INTERMEDIATE BTU GAS***1992-05-22**250 to 900 btu per cubic foot.*UF *gobar gas*  
\*BT1 fuel gas  
NT1 carburetted water gas  
NT1 town gas  
NT1 water gas  
RT syngas process**INTERMEDIATE COUPLING**BT1 coupling  
NT1 j-j coupling  
NT1 l-s coupling  
RT tomonaga approximation**intermediate coupling approximation**

USE tomonaga approximation

**intermediate image spectrometer**

USE magnetic lens spectrometers

**INTERMEDIATE INFRARED RADIATION***INIS: 1976-05-05; ETDE: 1976-06-07**Wave length range 2.5-50 microns.*

\*BT1 infrared radiation

**INTERMEDIATE-LEVEL RADIOACTIVE WASTES***INIS: 1978-05-19; ETDE: 1978-01-23**Wastes containing from 5 x 10 exp(-5) to 100 microcuries/milliliter of radioactivity.*UF *medium-level wastes*  
\*BT1 radioactive wastes  
RT bohunice radioactive waste processing center  
RT high-level radioactive wastes  
RT konrad ore mine  
RT low-level radioactive wastes  
RT morsleben salt mine**INTERMEDIATE MASS NUCLEI***1998-01-27**For nuclei with mass 41-180.*BT1 nuclei  
NT1 antimony 104  
NT1 antimony 105  
NT1 antimony 106  
NT1 antimony 107  
NT1 antimony 108  
NT1 antimony 109  
NT1 antimony 110  
NT1 antimony 111  
NT1 antimony 112  
NT1 antimony 113  
NT1 antimony 114  
NT1 antimony 115  
NT1 antimony 116  
NT1 antimony 117  
NT1 antimony 118  
NT1 antimony 119  
NT1 antimony 120  
NT1 antimony 121  
NT1 antimony 122  
NT1 antimony 123  
NT1 antimony 124  
NT1 antimony 125  
NT1 antimony 126  
NT1 antimony 127  
NT1 antimony 128  
NT1 antimony 129  
NT1 antimony 130  
NT1 antimony 131  
NT1 antimony 132  
NT1 antimony 133  
NT1 antimony 134  
NT1 antimony 135  
NT1 antimony 136  
NT1 argon 41  
NT1 argon 42  
NT1 argon 43  
NT1 argon 44  
NT1 argon 45  
NT1 argon 46  
NT1 argon 47  
NT1 argon 49  
NT1 argon 50  
NT1 argon 51  
NT1 arsenic 64  
NT1 arsenic 65  
NT1 arsenic 66  
NT1 arsenic 67  
NT1 arsenic 68  
NT1 arsenic 69  
NT1 arsenic 70  
NT1 arsenic 71  
NT1 arsenic 72  
NT1 arsenic 73  
NT1 arsenic 74  
NT1 arsenic 75  
NT1 arsenic 76  
NT1 arsenic 77  
NT1 arsenic 78  
NT1 arsenic 79  
NT1 arsenic 80  
NT1 arsenic 81NT1 arsenic 82  
NT1 arsenic 83  
NT1 arsenic 84  
NT1 arsenic 85  
NT1 arsenic 86  
NT1 arsenic 87  
NT1 barium 114  
NT1 barium 115  
NT1 barium 116  
NT1 barium 117  
NT1 barium 118  
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NT1 hafnium 176  
NT1 hafnium 177

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NT1 hafnium 178	NT1 iridium 171	NT1 manganese 59
NT1 hafnium 179	NT1 iridium 172	NT1 manganese 60
NT1 hafnium 180	NT1 iridium 173	NT1 manganese 61
NT1 indium 100	NT1 iridium 174	NT1 manganese 62
NT1 indium 101	NT1 iridium 175	NT1 manganese 63
NT1 indium 102	NT1 iridium 176	NT1 manganese 64
NT1 indium 103	NT1 iridium 177	NT1 manganese 65
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NT1 indium 105	NT1 iridium 179	NT1 mercury 176
NT1 indium 106	NT1 iridium 180	NT1 mercury 177
NT1 indium 107	NT1 iron 45	NT1 mercury 178
NT1 indium 108	NT1 iron 46	NT1 mercury 179
NT1 indium 109	NT1 iron 47	NT1 mercury 180
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NT1 indium 133	NT1 krypton 71	NT1 molybdenum 96
NT1 indium 134	NT1 krypton 72	NT1 molybdenum 97
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NT1 iodine 131	NT1 krypton 97	NT1 nickel 72
NT1 iodine 132	NT1 krypton 98	NT1 nickel 73
NT1 iodine 133	NT1 lead 180	NT1 nickel 74
NT1 iodine 134	NT1 manganese 44	NT1 nickel 78
NT1 iodine 135	NT1 manganese 46	NT1 niobium 100
NT1 iodine 136	NT1 manganese 47	NT1 niobium 101
NT1 iodine 137	NT1 manganese 48	NT1 niobium 102
NT1 iodine 138	NT1 manganese 49	NT1 niobium 103
NT1 iodine 139	NT1 manganese 50	NT1 niobium 104
NT1 iodine 140	NT1 manganese 51	NT1 niobium 105
NT1 iodine 141	NT1 manganese 52	NT1 niobium 106
NT1 iodine 142	NT1 manganese 53	NT1 niobium 108
NT1 iridium 166	NT1 manganese 54	NT1 niobium 83
NT1 iridium 167	NT1 manganese 55	NT1 niobium 84
NT1 iridium 168	NT1 manganese 56	NT1 niobium 85
NT1 iridium 169	NT1 manganese 57	NT1 niobium 86
NT1 iridium 170	NT1 manganese 58	NT1 niobium 87

NT1	niobium 88	NT1	potassium 42	NT2	erbium 150
NT1	niobium 89	NT1	potassium 43	NT2	erbium 151
NT1	niobium 90	NT1	potassium 44	NT2	erbium 152
NT1	niobium 91	NT1	potassium 45	NT2	erbium 153
NT1	niobium 92	NT1	potassium 46	NT2	erbium 154
NT1	niobium 93	NT1	potassium 47	NT2	erbium 155
NT1	niobium 94	NT1	potassium 48	NT2	erbium 156
NT1	niobium 95	NT1	potassium 49	NT2	erbium 157
NT1	niobium 96	NT1	potassium 50	NT2	erbium 158
NT1	niobium 97	NT1	potassium 51	NT2	erbium 159
NT1	niobium 98	NT1	potassium 52	NT2	erbium 160
NT1	niobium 99	NT1	potassium 53	NT2	erbium 161
NT1	osmium 162	NT1	potassium 54	NT2	erbium 162
NT1	osmium 163	NT1	rare earth nuclei	NT2	erbium 163
NT1	osmium 164	NT2	cerium 121	NT2	erbium 164
NT1	osmium 165	NT2	cerium 123	NT2	erbium 165
NT1	osmium 166	NT2	cerium 124	NT2	erbium 166
NT1	osmium 167	NT2	cerium 125	NT2	erbium 167
NT1	osmium 168	NT2	cerium 126	NT2	erbium 168
NT1	osmium 169	NT2	cerium 127	NT2	erbium 169
NT1	osmium 170	NT2	cerium 128	NT2	erbium 170
NT1	osmium 171	NT2	cerium 129	NT2	erbium 171
NT1	osmium 172	NT2	cerium 130	NT2	erbium 172
NT1	osmium 173	NT2	cerium 131	NT2	erbium 173
NT1	osmium 174	NT2	cerium 132	NT2	erbium 174
NT1	osmium 175	NT2	cerium 133	NT2	erbium 175
NT1	osmium 176	NT2	cerium 134	NT2	europium 130
NT1	osmium 177	NT2	cerium 135	NT2	europium 131
NT1	osmium 178	NT2	cerium 136	NT2	europium 134
NT1	osmium 179	NT2	cerium 137	NT2	europium 135
NT1	osmium 180	NT2	cerium 138	NT2	europium 136
NT1	palladium 100	NT2	cerium 139	NT2	europium 137
NT1	palladium 101	NT2	cerium 140	NT2	europium 138
NT1	palladium 102	NT2	cerium 141	NT2	europium 139
NT1	palladium 103	NT2	cerium 142	NT2	europium 140
NT1	palladium 104	NT2	cerium 143	NT2	europium 141
NT1	palladium 105	NT2	cerium 144	NT2	europium 142
NT1	palladium 106	NT2	cerium 145	NT2	europium 143
NT1	palladium 107	NT2	cerium 146	NT2	europium 144
NT1	palladium 108	NT2	cerium 147	NT2	europium 145
NT1	palladium 109	NT2	cerium 148	NT2	europium 146
NT1	palladium 110	NT2	cerium 149	NT2	europium 147
NT1	palladium 111	NT2	cerium 150	NT2	europium 148
NT1	palladium 112	NT2	cerium 151	NT2	europium 149
NT1	palladium 113	NT2	cerium 152	NT2	europium 150
NT1	palladium 114	NT2	dysprosium 140	NT2	europium 151
NT1	palladium 115	NT2	dysprosium 141	NT2	europium 152
NT1	palladium 116	NT2	dysprosium 142	NT2	europium 153
NT1	palladium 117	NT2	dysprosium 143	NT2	europium 154
NT1	palladium 118	NT2	dysprosium 144	NT2	europium 155
NT1	palladium 119	NT2	dysprosium 145	NT2	europium 156
NT1	palladium 120	NT2	dysprosium 146	NT2	europium 157
NT1	palladium 93	NT2	dysprosium 147	NT2	europium 158
NT1	palladium 94	NT2	dysprosium 148	NT2	europium 159
NT1	palladium 95	NT2	dysprosium 149	NT2	europium 160
NT1	palladium 96	NT2	dysprosium 150	NT2	europium 161
NT1	palladium 97	NT2	dysprosium 151	NT2	europium 162
NT1	palladium 98	NT2	dysprosium 152	NT2	europium 162
NT1	palladium 99	NT2	dysprosium 153	NT2	gadolinium 135
NT1	phosphorus 41	NT2	dysprosium 154	NT2	gadolinium 137
NT1	phosphorus 42	NT2	dysprosium 155	NT2	gadolinium 138
NT1	phosphorus 43	NT2	dysprosium 156	NT2	gadolinium 139
NT1	phosphorus 44	NT2	dysprosium 157	NT2	gadolinium 140
NT1	phosphorus 45	NT2	dysprosium 158	NT2	gadolinium 141
NT1	phosphorus 46	NT2	dysprosium 159	NT2	gadolinium 142
NT1	platinum 168	NT2	dysprosium 160	NT2	gadolinium 143
NT1	platinum 169	NT2	dysprosium 161	NT2	gadolinium 144
NT1	platinum 170	NT2	dysprosium 162	NT2	gadolinium 145
NT1	platinum 171	NT2	dysprosium 163	NT2	gadolinium 146
NT1	platinum 172	NT2	dysprosium 164	NT2	gadolinium 147
NT1	platinum 173	NT2	dysprosium 165	NT2	gadolinium 148
NT1	platinum 174	NT2	dysprosium 166	NT2	gadolinium 149
NT1	platinum 175	NT2	dysprosium 167	NT2	gadolinium 150
NT1	platinum 176	NT2	dysprosium 168	NT2	gadolinium 151
NT1	platinum 177	NT2	dysprosium 169	NT2	gadolinium 152
NT1	platinum 178	NT2	erbium 145	NT2	gadolinium 153
NT1	platinum 179	NT2	erbium 147	NT2	gadolinium 154
NT1	platinum 180	NT2	erbium 148	NT2	gadolinium 155
NT1	potassium 41	NT2	erbium 149	NT2	gadolinium 156
				NT2	gadolinium 157

NT2	gadolinium 158	NT2	lutetium 160	NT2	praseodymium 146
NT2	gadolinium 159	NT2	lutetium 161	NT2	praseodymium 147
NT2	gadolinium 160	NT2	lutetium 162	NT2	praseodymium 148
NT2	gadolinium 161	NT2	lutetium 163	NT2	praseodymium 149
NT2	gadolinium 162	NT2	lutetium 164	NT2	praseodymium 150
NT2	gadolinium 163	NT2	lutetium 165	NT2	praseodymium 151
NT2	gadolinium 164	NT2	lutetium 166	NT2	praseodymium 152
NT2	gadolinium 165	NT2	lutetium 167	NT2	praseodymium 153
NT2	holmium 141	NT2	lutetium 168	NT2	praseodymium 154
NT2	holmium 143	NT2	lutetium 169	NT2	promethium 129
NT2	holmium 144	NT2	lutetium 170	NT2	promethium 130
NT2	holmium 145	NT2	lutetium 171	NT2	promethium 131
NT2	holmium 146	NT2	lutetium 172	NT2	promethium 132
NT2	holmium 147	NT2	lutetium 173	NT2	promethium 133
NT2	holmium 148	NT2	lutetium 174	NT2	promethium 134
NT2	holmium 149	NT2	lutetium 175	NT2	promethium 135
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NT2	holmium 153	NT2	lutetium 179	NT2	promethium 139
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NT2	holmium 155	NT2	lutetium 181	NT2	promethium 141
NT2	holmium 156	NT2	lutetium 182	NT2	promethium 142
NT2	holmium 157	NT2	lutetium 183	NT2	promethium 143
NT2	holmium 158	NT2	lutetium 184	NT2	promethium 144
NT2	holmium 159	NT2	neodymium 125	NT2	promethium 145
NT2	holmium 160	NT2	neodymium 127	NT2	promethium 146
NT2	holmium 161	NT2	neodymium 128	NT2	promethium 147
NT2	holmium 162	NT2	neodymium 129	NT2	promethium 148
NT2	holmium 163	NT2	neodymium 130	NT2	promethium 149
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NT2	holmium 165	NT2	neodymium 132	NT2	promethium 151
NT2	holmium 166	NT2	neodymium 133	NT2	promethium 152
NT2	holmium 167	NT2	neodymium 134	NT2	promethium 153
NT2	holmium 168	NT2	neodymium 135	NT2	promethium 154
NT2	holmium 169	NT2	neodymium 136	NT2	promethium 155
NT2	holmium 170	NT2	neodymium 137	NT2	promethium 156
NT2	holmium 171	NT2	neodymium 138	NT2	promethium 157
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NT2	lanthanum 120	NT2	neodymium 140	NT2	samarium 131
NT2	lanthanum 121	NT2	neodymium 141	NT2	samarium 133
NT2	lanthanum 122	NT2	neodymium 142	NT2	samarium 134
NT2	lanthanum 123	NT2	neodymium 143	NT2	samarium 135
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NT2	lanthanum 125	NT2	neodymium 145	NT2	samarium 137
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NT2	lanthanum 131	NT2	neodymium 151	NT2	samarium 143
NT2	lanthanum 132	NT2	neodymium 152	NT2	samarium 144
NT2	lanthanum 133	NT2	neodymium 153	NT2	samarium 145
NT2	lanthanum 134	NT2	neodymium 154	NT2	samarium 146
NT2	lanthanum 135	NT2	neodymium 155	NT2	samarium 147
NT2	lanthanum 136	NT2	neodymium 156	NT2	samarium 148
NT2	lanthanum 137	NT2	praseodymium 121	NT2	samarium 149
NT2	lanthanum 138	NT2	praseodymium 124	NT2	samarium 150
NT2	lanthanum 139	NT2	praseodymium 125	NT2	samarium 151
NT2	lanthanum 140	NT2	praseodymium 126	NT2	samarium 152
NT2	lanthanum 141	NT2	praseodymium 127	NT2	samarium 153
NT2	lanthanum 142	NT2	praseodymium 128	NT2	samarium 154
NT2	lanthanum 143	NT2	praseodymium 129	NT2	samarium 155
NT2	lanthanum 144	NT2	praseodymium 130	NT2	samarium 156
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NT2	lanthanum 146	NT2	praseodymium 132	NT2	samarium 158
NT2	lanthanum 147	NT2	praseodymium 133	NT2	samarium 159
NT2	lanthanum 148	NT2	praseodymium 134	NT2	samarium 160
NT2	lanthanum 149	NT2	praseodymium 135	NT2	terbium 139
NT2	lanthanum 150	NT2	praseodymium 136	NT2	terbium 140
NT2	lutetium 151	NT2	praseodymium 137	NT2	terbium 141
NT2	lutetium 152	NT2	praseodymium 138	NT2	terbium 143
NT2	lutetium 153	NT2	praseodymium 139	NT2	terbium 144
NT2	lutetium 154	NT2	praseodymium 140	NT2	terbium 145
NT2	lutetium 155	NT2	praseodymium 141	NT2	terbium 146
NT2	lutetium 156	NT2	praseodymium 142	NT2	terbium 147
NT2	lutetium 157	NT2	praseodymium 143	NT2	terbium 148
NT2	lutetium 158	NT2	praseodymium 144	NT2	terbium 149
NT2	lutetium 159	NT2	praseodymium 145	NT2	terbium 150

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 NT1 zirconium 99  
 RT nuclear structure

#### INTERMEDIATE NEUTRONS

\*BT1 neutrons  
 RT resonance neutrons

#### INTERMEDIATE REACTORS

\*BT1 epithermal reactors  
 NT1 thor reactor  
 RT resonance neutrons

#### INTERMEDIATE RESONANCE

BT1 resonance  
 RT cross sections  
 RT intermediate structure  
 RT nuclear reactions

#### INTERMEDIATE STATE

2000-04-12

*A state of partial superconductivity that occurs when a magnetic field of appropriate strength is applied to a superconducting material below its critical temperature.*

RT superconductivity

#### intermediate storage

INIS: 1982-12-06; ETDE: 2002-06-13  
 USE waste storage

#### INTERMEDIATE STRUCTURE

RT cross sections  
 RT intermediate resonance  
 RT nuclear reactions

#### intermediate technology

INIS: 2000-04-12; ETDE: 1978-06-14  
 USE appropriate technology

#### INTERMEDIATE VECTOR BOSONS

SF weak boson  
 \*BT1 intermediate bosons  
 NT1 w minus bosons  
 NT1 w plus bosons  
 NT1 z neutral bosons  
 RT electron-quark interactions  
 RT weinberg angle

#### intermediates (reaction)

INIS: 2000-04-12; ETDE: 1980-03-04  
 SEE reaction intermediates

#### INTERMETALLIC COMPOUNDS

1995-11-22

*Alloy of two or more metals in which a change in composition is accompanied by a progression of phases, differing in crystal structure. Index the constituent metals with descriptors of the form (METAL) ALLOYS.*

UF electron compounds  
 BT1 alloys  
 NT1 cementite  
 RT antimonides  
 RT arsenides  
 RT borides  
 RT laves phases  
 RT selenides  
 RT semimetals  
 RT silicides  
 RT tellurides

#### INTERMOLECULAR FORCES

RT binding energy  
 RT potentials  
 RT van der waals forces

#### INTERNAL BREMSSTRAHLUNG

UF inner bremsstrahlung  
 \*BT1 bremsstrahlung

#### INTERNAL COMBUSTION ENGINES

1997-06-19

UF gas engines  
 UF gasoline engines  
 \*BT1 heat engines  
 NT1 diesel engines  
 NT1 direct injection engines  
 NT1 dual-fuel engines  
 NT1 gas turbine engines  
 NT1 ramjet engines  
 NT1 rotary engines  
 NT2 wankel engines  
 NT1 spark ignition engines  
 NT2 wankel engines  
 NT1 stratified charge engines  
 NT1 turbofan engines  
 NT1 turbojet engines  
 RT aaps  
 RT carburetors  
 RT compression ratio  
 RT exhaust gases  
 RT ignition systems  
 RT knock control  
 RT pcv systems  
 RT pistons  
 RT superchargers

#### internal contamination

USE radionuclide kinetics

#### INTERNAL CONVERSION

BT1 conversion  
 \*BT1 nuclear decay  
 NT1 k conversion  
 NT1 l conversion  
 NT1 m conversion

*RT* energy levels  
*RT* gamma decay  
*RT* internal conversion radioisotopes  
*RT* internal pair production

## INTERNAL CONVERSION RADIOISOTOPES

\*BT1 radioisotopes  
**NT1** actinium 227  
**NT1** antimony 119  
**NT1** antimony 122  
**NT1** antimony 124  
**NT1** antimony 126  
**NT1** astatine 212  
**NT1** barium 131  
**NT1** barium 133  
**NT1** barium 135  
**NT1** berkelium 243  
**NT1** bromine 77  
**NT1** bromine 80  
**NT1** bromine 82  
**NT1** cadmium 111  
**NT1** cadmium 113  
**NT1** californium 247  
**NT1** californium 250  
**NT1** cerium 133  
**NT1** cerium 137  
**NT1** cesium 123  
**NT1** cesium 134  
**NT1** cesium 138  
**NT1** cobalt 58  
**NT1** cobalt 60  
**NT1** dysprosium 159  
**NT1** einsteinium 254  
**NT1** erbium 156  
**NT1** erbium 169  
**NT1** germanium 73  
**NT1** germanium 75  
**NT1** gold 191  
**NT1** gold 193  
**NT1** gold 195  
**NT1** gold 196  
**NT1** gold 197  
**NT1** hafnium 178  
**NT1** hafnium 179  
**NT1** hafnium 180  
**NT1** holmium 158  
**NT1** holmium 160  
**NT1** holmium 164  
**NT1** indium 112  
**NT1** indium 114  
**NT1** indium 115  
**NT1** indium 116  
**NT1** indium 121  
**NT1** iodine 125  
**NT1** iodine 129  
**NT1** iodine 130  
**NT1** iodine 132  
**NT1** iodine 133  
**NT1** iridium 190  
**NT1** iridium 191  
**NT1** iridium 192  
**NT1** iridium 193  
**NT1** krypton 79  
**NT1** krypton 83  
**NT1** lead 199  
**NT1** lead 202  
**NT1** lutetium 169  
**NT1** lutetium 170  
**NT1** lutetium 171  
**NT1** lutetium 172  
**NT1** lutetium 176  
**NT1** mercury 193  
**NT1** mercury 195  
**NT1** mercury 197  
**NT1** mercury 199  
**NT1** molybdenum 93  
**NT1** neodymium 147  
**NT1** neptunium 236

**NT1** niobium 91  
**NT1** niobium 93  
**NT1** niobium 94  
**NT1** osmium 180  
**NT1** osmium 189  
**NT1** osmium 190  
**NT1** osmium 191  
**NT1** osmium 194  
**NT1** palladium 112  
**NT1** platinum 193  
**NT1** platinum 195  
**NT1** platinum 197  
**NT1** platinum 199  
**NT1** plutonium 235  
**NT1** plutonium 237  
**NT1** polonium 199  
**NT1** polonium 201  
**NT1** polonium 202  
**NT1** polonium 203  
**NT1** polonium 205  
**NT1** polonium 206  
**NT1** polonium 207  
**NT1** praseodymium 142  
**NT1** promethium 145  
**NT1** radium 213  
**NT1** radium 225  
**NT1** radium 228  
**NT1** radium 230  
**NT1** radon 210  
**NT1** radon 211  
**NT1** rhenium 183  
**NT1** rhenium 184  
**NT1** rhenium 188  
**NT1** rhenium 189  
**NT1** rhodium 100  
**NT1** rhodium 101  
**NT1** rhodium 103  
**NT1** rhodium 105  
**NT1** rhodium 96  
**NT1** rubidium 81  
**NT1** samarium 145  
**NT1** samarium 151  
**NT1** scandium 46  
**NT1** selenium 79  
**NT1** selenium 81  
**NT1** silver 103  
**NT1** silver 105  
**NT1** silver 107  
**NT1** silver 109  
**NT1** silver 111  
**NT1** silver 99  
**NT1** tantalum 182  
**NT1** technetium 96  
**NT1** technetium 97  
**NT1** technetium 99  
**NT1** tellurium 121  
**NT1** tellurium 123  
**NT1** tellurium 125  
**NT1** terbium 151  
**NT1** terbium 157  
**NT1** terbium 158  
**NT1** thallium 198  
**NT1** thorium 234  
**NT1** thulium 159  
**NT1** thulium 161  
**NT1** tin 113  
**NT1** tin 119  
**NT1** tin 121  
**NT1** tungsten 176  
**NT1** tungsten 181  
**NT1** tungsten 185  
**NT1** uranium 230  
**NT1** uranium 235  
**NT1** uranium 240  
**NT1** xenon 125  
**NT1** xenon 129  
**NT1** xenon 131  
**NT1** xenon 133  
**NT1** ytterbium 164

**NT1** ytterbium 165  
**NT1** ytterbium 166  
**NT1** ytterbium 177  
**NT1** yttrium 86  
*RT* internal conversion

## INTERNAL ELECTROMAGNETIC PULSES

\*BT1 electromagnetic pulses  
*RT* electron emission

## INTERNAL FRICTION

*UF* friction (internal)  
**BT1** friction  
*RT* bordoni peak  
*RT* crystal defects  
*RT* damping  
*RT* hysteresis  
*RT* viscosity

## INTERNAL IONIZATION

**BT1** ionization  
*RT* beta decay

## INTERNAL IRRADIATION

*UF* absorbed fraction (internal irradiation)  
*UF* effective energy (internal irradiation)  
**BT1** irradiation  
*RT* afterloading  
*RT* brachytherapy  
*RT* critical organs  
*RT* dose commitments  
*RT* radiation source implants  
*RT* radionuclide kinetics  
*RT* unsealed sources

## INTERNAL MARKET

*INIS: 1995-03-02; ETDE: 1995-01-03*  
 (Until December 1994 this concept was indexed to COMMON MARKET.)  
*UF* common market  
*UF* european economic community  
*UF* single market  
 \*BT1 european union

## internal medicine

USE medicine

## INTERNAL PAIR PRODUCTION

*Creation of an electron-positron pair by internal conversion of a nucleus with excitation of more than 1.022 MeV.*  
*UF* pair conversion  
 \*BT1 pair production  
*RT* decay  
*RT* internal conversion

## internal revenue service

*INIS: 2000-04-12; ETDE: 1978-04-06*  
 USE us irs

## INTERNAL RING DEVICES

*1996-07-08*  
 \*BT1 closed plasma devices  
**NT1** fm devices  
**NT1** levitron devices  
**NT1** lm devices  
**NT1** spherator  
**NT1** tokapole devices  
**NT1** tornado devices  
*RT* minimum average-b configurations  
*RT* multipolar configurations

## INTERNAL WAVES

*INIS: 2000-04-12; ETDE: 1982-02-23*  
*A wave motion of a stably stratified fluid in which the maximum vertical motion takes place below the surface of the fluid.*  
*RT* energy transfer  
*RT* water waves  
*RT* wave propagation



**international affairs**

INIS: 1994-09-09; ETDE: 1980-05-06  
USE international relations

**INTERNATIONAL AGREEMENTS**

Including agreements involving international organizations. The countries or organizations parties to the agreement are also indexed if appropriate.

BT1 agreements  
NT1 atomic energy agreements  
NT1 bcoclmcnm  
NT1 bcolons  
NT1 bcstpc  
NT1 bilateral agreements  
NT1 canare  
NT1 cenna  
NT1 cppnm  
NT1 cscnd  
NT1 iaea agreements  
NT1 international convention on nuclear safety  
NT1 lcpmpdpw  
NT1 multilateral agreements  
NT2 kyoto protocol  
NT2 rio declaration  
NT1 pcotpl  
NT1 solas convention  
NT1 vcoclnd  
RT coordinated research programs  
RT foreign policy  
RT international cooperation  
RT international relations  
RT north star project  
RT nuclear freeze  
RT rarotonga treaty  
RT treaties

**international atomic energy agency**

1993-11-08  
USE iaea

**international center for theoretical physics**

INIS: 1993-11-08; ETDE: 2002-06-13  
USE ictp

**international commission on radiation units and measurements**

2006-05-22  
USE icru

**international commission radiological protection**

1993-11-08  
USE icrp

**INTERNATIONAL CONTROL**

\*BT1 atomic energy control  
RT international cooperation

**INTERNATIONAL CONVENTION ON NUCLEAR SAFETY**

INIS: 2002-02-04; ETDE: 2005-01-28  
(Prior to January 2005 ICNS was used for this concept.)

UF convention on nuclear safety  
UF icns (international convention on nuclear safety)  
UF nuclear safety convention  
\*BT1 international agreements  
RT iaea  
RT radiation protection  
RT reactor safety

**INTERNATIONAL COOPERATION**

1996-01-09  
The cooperating countries or organizations are also indexed if appropriate.  
BT1 cooperation

RT coordinated research programs  
RT dumand project  
RT embargoes  
RT euromarket  
RT foreign policy  
RT iftec  
RT international agreements  
RT international control  
RT international nuclear data committee  
RT international organizations  
RT international relations  
RT military assistance  
RT multinational enterprises  
RT technology transfer

**INTERNATIONAL ELECTROTECHNICAL COMMISSION**

2004-09-14

UF iec (international electrotechnical commission)  
BT1 international organizations  
RT iso  
RT recommendations  
RT standards  
RT standards document

**INTERNATIONAL ENERGY AGENCY**

INIS: 1977-04-07; ETDE: 1976-03-11

UF iea  
BT1 international organizations  
RT energy policy  
RT energy shortages  
RT etde  
RT oecd

**international federation of industrial energy consumers**

INIS: 1993-11-08; ETDE: 2002-06-13  
USE ifec

**international food irradiation project**

INIS: 1993-11-08; ETDE: 2002-06-13  
USE ifip

**international fusion superconducting magnet test facility**

INIS: 2000-04-12; ETDE: 1987-04-08  
IFSMTF.  
(From February 1979 to March 1997 LARGE COIL PROGRAM was a valid ETDE descriptor.)  
USE test facilities

**INTERNATIONAL GEOPHYSICAL YEAR**

UF igy  
RT geophysics  
RT sun

**international labour organisation**

1993-11-08  
USE ilo

**INTERNATIONAL LAWS**

1990-12-15  
(Prior to December 1990, this descriptor was spelled INTERNATIONAL LAW.)  
BT1 laws  
RT treaties

**INTERNATIONAL****MAGNETOSPHERIC STUDY**

INIS: 1990-12-15; ETDE: 1977-10-20

The study covers the years 1976-1978. (Prior to December 1990, this descriptor was spelled INTERNATL MAGNETOSPHERIC STUDY, and documents were indexed with this spelling.)

UF ims  
UF internatl magnetospheric study  
RT earth magnetosphere  
RT geomagnetic field  
RT magnetopause  
RT magnetosheath  
RT magnetotail  
RT plasmopause  
RT plasmasphere

**international maritime consultative organization**

1993-11-08  
USE imo

**international maritime organization**

2001-07-19  
USE imo

**INTERNATIONAL NUCLEAR DATA COMMITTEE**

INIS: 1976-07-16; ETDE: 1978-01-23

UF inde  
BT1 international organizations  
RT international cooperation  
RT nuclear data collections  
RT us nuclear data network

**INTERNATIONAL NUCLEAR EVENT SCALE**

1995-05-10  
UF ines  
RT emergency plans  
RT fission product release  
RT radiation accidents  
RT radiation protection  
RT reactor accidents  
RT reactor safety

**international nuclear information system**

1993-11-08  
USE inis

**INTERNATIONAL ORGANIZATIONS**

1998-06-10  
UF ccms  
UF oas  
UF organization of american states  
NT1 abacc  
NT1 arab atomic energy agency  
NT1 cen  
NT1 cern  
NT1 comecon  
NT1 ctbto  
NT1 esa  
NT1 esarda  
NT1 eurodif  
NT1 european union  
NT2 ecsc  
NT2 euratom  
NT2 internal market  
NT1 fao  
NT1 foratom  
NT1 iaea  
NT2 ictp  
NT2 monaco marine environment laboratory  
NT2 seibersdorf iaea laboratory  
NT1 icrp  
NT1 icru

**NT1** ifiec  
**NT1** ilo  
**NT1** imo  
**NT1** international electrotechnical commission  
**NT1** international energy agency  
**NT1** international nuclear data committee  
**NT1** irpa  
**NT1** iso  
**NT1** jinr  
**NT1** nato  
**NT1** oapec  
**NT1** oecd  
**NT2** nea  
**NT1** opec  
**NT1** undp  
**NT1** unep  
**NT1** unesco  
**NT1** unidir  
**NT1** unido  
**NT1** united nations  
**NT1** unscear  
**NT1** uranium institute  
**NT1** wano  
**NT1** wenra  
**NT1** who  
**NT1** wmo  
**NT1** world energy council  
*RT* coordinated research programs  
*RT* international cooperation  
*RT* member states  
*RT* national organizations

**INTERNATIONAL QUIET SUN YEAR**

*UF* iqsy  
*RT* sun

**international radiation protection association**

*INIS*: 1993-11-08; *ETDE*: 2002-06-13  
 USE irpa

**INTERNATIONAL REGULATIONS**

*INIS*: 1976-07-16; *ETDE*: 1976-09-15  
 \*BT1 regulations  
**NT1** oecd mcmsdrw

**INTERNATIONAL RELATIONS**

*INIS*: 1994-09-09; *ETDE*: 1980-05-06  
*Political aspects of affairs between countries.*  
*UF* balance of power  
*UF* international affairs  
*RT* international agreements  
*RT* international cooperation  
*RT* salt talks  
*RT* trade

**INTERNATIONAL SOLAR MAXIMUM YEAR**

*INIS*: 1990-12-17; *ETDE*: 1981-08-04  
*Began in October 1979.*  
 (Prior to December 1990, this descriptor was spelled INTERNATL SOLAR MAXIMUM YEAR, and documents were indexed with this spelling.)  
*UF* internatl solar maximum year  
*RT* solar cycle  
*RT* sun

**INTERNATIONAL SPACE STATION**

2005-10-13  
*UF* iss orbital station  
*RT* satellites  
*RT* space vehicles

**international standard organization**

1993-11-08  
 USE iso

**international tokamak reactor**

*INIS*: 1980-09-12; *ETDE*: 1980-10-07  
 USE intor tokamak

**internatl magnetospheric study**

*INIS*: 1990-12-15; *ETDE*: 2002-06-13  
 (Prior to December 1990, this was a valid descriptor.)  
 USE international magnetospheric study

**internatl solar maximum year**

*INIS*: 1990-12-17; *ETDE*: 2002-06-13  
 (Prior to December 1990, this was a valid descriptor.)  
 USE international solar maximum year

**INTERNET**

1995-10-27  
*For documents discussing the Internet.*  
**BT1** computer networks  
*RT* information dissemination

**INTERPLANETARY MAGNETIC FIELDS**

**BT1** magnetic fields  
*RT* interplanetary space

**INTERPLANETARY SPACE**

**BT1** space  
*RT* geocorona  
*RT* interplanetary magnetic fields  
*RT* solar system  
*RT* zodiacal light

**INTERPOLATION**

\*BT1 numerical solution  
*RT* extrapolation  
*RT* mathematics  
*RT* runge-kutta method  
*RT* spline functions

**intersecting beams**

USE colliding beams

**intersecting storage accelerator**

1993-11-08  
 USE isabelle storage rings

**INTERSTELLAR GRAINS**

**BT1** particles  
*RT* cosmic dust  
*RT* cosmic gases  
*RT* star accretion

**INTERSTELLAR MAGNETIC FIELDS**

**BT1** magnetic fields  
*RT* interstellar space

**INTERSTELLAR SPACE**

**BT1** space  
*RT* cosmic dust  
*RT* cosmic gases  
*RT* interstellar magnetic fields  
*RT* milky way  
*RT* star accretion

**interstitial cell stim hormone**

USE luteinizing hormone

**INTERSTITIAL HELIUM GENERATION**

*INIS*: 1990-12-15; *ETDE*: 1991-08-14  
*Generation of helium in the lattice structure of structural materials due to neutron irradiation.*  
 (Prior to December 1990, this concept was indexed by HELIUM GENERATION.)

*UF* helium generation  
*UF* helium production rates  
*SF* gas production rates  
 \*BT1 physical radiation effects

*RT* damaging neutron fluence  
*RT* helium embrittlement

**INTERSTITIAL HYDROGEN GENERATION**

*INIS*: 1990-12-15; *ETDE*: 1991-08-15  
*Generation of hydrogen in the lattice structure of structural materials due to neutron irradiation.*

(Prior to December 1990, this concept was indexed by HYDROGEN GENERATION.)

*UF* hydrogen generation  
*UF* hydrogen production rates  
*SF* gas production rates  
 \*BT1 physical radiation effects  
*RT* damaging neutron fluence  
*RT* hydrogen embrittlement

**INTERSTITIAL WATER**

*INIS*: 1994-08-26; *ETDE*: 1976-08-04  
*Subsurface water contained in pore spaces between the grains of rock and sediments.*

*UF* connate water  
*UF* formation water  
 \*BT1 ground water  
*RT* natural gas wells  
*RT* oil wells  
*RT* pore pressure  
*RT* reservoir fluids  
*RT* reservoir rock  
*RT* sandstones

**INTERSTITIALS**

1996-01-24  
 \*BT1 point defects  
**NT1** i centers  
*RT* crowdions

**interuniversitair reactor instituut**

*ETDE*: 1976-05-19  
*Delft, the Netherlands.*  
 USE iri

**INTERVENORS**

*INIS*: 2000-04-03; *ETDE*: 1977-09-19  
 (From July 1976 till February 1997 ADVERSARIES was a valid ETDE descriptor.)  
*SF* adversaries  
*RT* decision making  
*RT* interest groups  
*RT* legal aspects

**interventions**

*INIS*: 2000-04-12; *ETDE*: 1980-08-25  
 (Prior to April 1994, this was a valid ETDE descriptor.)  
 USE administrative procedures

**intervertebral disks**

*INIS*: 1984-04-04; *ETDE*: 2002-06-13  
 USE cartilage  
 USE vertebrae

**INTESTINAL ABSORPTION**

*UF* absorption (intestinal)  
 \*BT1 absorption  
**BT1** uptake  
*RT* digestion  
*RT* ingestion  
*RT* oral administration  
*RT* portal system  
*RT* rectal administration  
*RT* small intestine

**INTESTINES**

1996-07-18  
 \*BT1 gastrointestinal tract  
 \*BT1 organs  
**NT1** large intestine  
**NT2** rectum

**NT1** small intestine  
*RT* aerobacter  
*RT* ascaridae  
*RT* constipation  
*RT* crypt cells  
*RT* diarrhea  
*RT* enteritis  
*RT* escherichia coli  
*RT* portal system

**INTOR TOKAMAK**

*INIS: 1980-09-12; ETDE: 1979-12-10*  
*International tokamak reactor.*  
*UF* international tokamak reactor  
 \*BT1 tokamak devices

**INTRACELLULAR DIGESTION**

BT1 digestion  
*RT* animal cells  
*RT* phagocytosis

**INTRAMUSCULAR INJECTION**

\*BT1 injection

**intranuclear cascades**

USE nuclear cascades

**INTRAPERITONEAL INJECTION**

\*BT1 injection  
*RT* peritoneum

**INTRATRACHEAL ADMINISTRATION**

*RT* inhalation  
*RT* radionuclide administration  
*RT* trachea

**INTRAVENOUS INJECTION**

\*BT1 injection  
*RT* veins

**INTRINSIC FACTOR**

\*BT1 hematinics  
 \*BT1 mucoproteins  
*RT* anemias  
*RT* hormones  
*RT* stomach  
*RT* vitamin b-12

**INTRONS**

*INIS: 1995-06-09; ETDE: 1994-02-25*  
*RT* dna  
*RT* exons  
*RT* gene regulation  
*RT* genes  
*RT* rna  
*RT* splicing

**intrusion**

*INIS: 2000-04-12; ETDE: 1978-04-06*  
 (Prior to October 1990 this was a valid ETDE descriptor.)  
 SEE biointrusion  
 SEE human intrusion  
 SEE plutonic rocks  
 SEE water influx

**intrusion (animals)**

*INIS: 1985-07-23; ETDE: 2002-06-13*  
 USE biointrusion

**intrusion (human)**

*INIS: 1985-07-23; ETDE: 2002-06-13*  
 USE human intrusion

**intrusion (plants)**

*INIS: 1985-07-23; ETDE: 2002-06-13*  
 USE biointrusion

**intrusion (rock)**

*INIS: 1985-07-23; ETDE: 2002-06-13*  
*Process of emplacement of fluid material into pre-existing rock. Coordinate the descriptor*

*below with other appropriate descriptor(s), e.g. POSITIONING, PETROGENESIS.*  
 USE plutonic rocks

**intrusion (water)**

*INIS: 1985-07-23; ETDE: 2002-06-13*  
 USE water influx

**INTRUSION DETECTION SYSTEMS**

*INIS: 1999-01-05; ETDE: 1982-09-10*  
*SF* adaptive intrusion data systems  
 BT1 alarm systems  
*RT* detection  
*RT* motion detection systems  
*RT* nuclear materials management  
*RT* physical protection  
*RT* safeguards  
*RT* security

**intrusive rocks**

*INIS: 1985-10-23; ETDE: 1985-11-13*  
*Rocks formed from emplacement of fluid material into pre-existing rock.*  
 USE plutonic rocks

**INULIN**

\*BT1 polysaccharides  
*RT* polyacetals

**invap (argentina)**

2003-03-18  
 USE argentine invap

**INVAR**

\*BT1 iron base alloys  
 \*BT1 nickel alloys

**INVARIANCE PRINCIPLES**

NT1 c invariance  
 NT1 charge independence  
 NT1 conformal invariance  
 NT1 cp invariance  
 NT1 cpt theorem  
 NT1 g-parity invariance  
 NT1 gauge invariance  
 NT1 lorentz invariance  
 NT1 p invariance  
 NT1 rotational invariance  
 NT1 scale invariance  
 NT1 t invariance  
 NT2 detailed balance principle  
*RT* adiabatic invariance  
*RT* basic interactions  
*RT* conservation laws  
*RT* goldstone bosons  
*RT* symmetry

**INVARIANT IMBEDDING**

*RT* geometry  
*RT* topology  
*RT* transport theory

**invention secrecy act**

*INIS: 2000-04-12; ETDE: 1980-04-14*  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 SEE laws  
 SEE secrecy protection

**INVENTIONS**

*INIS: 1994-07-01; ETDE: 1979-10-23*  
*RT* patents  
*RT* technology transfer

**INVENTORIES**

*UF* petroleum stocks  
*UF* stocks  
*RT* accounting  
*RT* availability  
*RT* losses  
*RT* material balance  
*RT* material unaccounted for

*RT* safeguards  
*RT* shortages  
*RT* storage  
*RT* storage facilities

**inverse pinch devices (linear)**

USE linear hard core pinch devices

**INVERSE SCATTERING PROBLEM**

*Problem of determining scattering potential from phase shifts.*  
*RT* scattering

**inversions (temperature)**

*INIS: 1976-10-29; ETDE: 2002-06-13*  
 USE temperature inversions

**INVERTEBRATES**

1997-06-17

BT1 animals  
 NT1 annelids  
 NT1 arthropods  
 NT2 arachnids  
 NT3 mites  
 NT3 scorpions  
 NT3 spiders  
 NT3 ticks  
 NT2 crustaceans  
 NT3 branchiopods  
 NT4 artemia  
 NT4 daphnia  
 NT3 copepods  
 NT3 decapods  
 NT4 crabs  
 NT4 lobsters  
 NT4 prawns  
 NT4 shrimp  
 NT2 insects  
 NT3 coleoptera  
 NT4 beetles  
 NT5 boll weevil  
 NT5 tribolium  
 NT3 dictyoptera  
 NT4 cockroaches  
 NT3 diptera  
 NT4 flies  
 NT5 fruit flies  
 NT6 anastrepha  
 NT6 ceratitis capitata  
 NT6 dacus  
 NT7 dacus oleae  
 NT6 drosophila  
 NT5 glossina  
 NT5 hylemya antiqua  
 NT5 screwworm fly  
 NT4 mosquitoes  
 NT3 ephemeroptera  
 NT3 hemiptera  
 NT4 aphids  
 NT3 hymenoptera  
 NT4 ants  
 NT4 bees  
 NT4 wasps  
 NT3 lepidoptera  
 NT4 moths  
 NT5 bollworm  
 NT5 codling moth  
 NT5 lymantria dispar  
 NT5 rice stem borers  
 NT5 silkworm  
 NT3 orthoptera  
 NT4 grasshoppers  
 NT5 locusts  
 NT1 bryozoa  
 NT1 coelenterata  
 NT2 cnidaria  
 NT3 corals  
 NT3 hydra  
 NT1 echinoderms  
 NT2 sea urchins

**NT1** molluscs  
**NT2** clams  
**NT2** mussels  
**NT2** oysters  
**NT2** snails  
**NT1** nematodes  
**NT2** ascaridae  
**NT3** ascaris  
**NT2** dictyocaulus  
**NT2** hookworm  
**NT2** trichinella  
**NT1** platyhelminths  
**NT2** cestodes  
**NT2** trematodes  
**NT3** fasciola  
**NT3** schistosoma  
**NT2** turbellaria  
**NT3** planaria  
**NT1** protozoa  
**NT2** ciliata  
**NT3** paramecium  
**NT3** tetrahymena  
**NT2** mastigophora  
**NT3** dinoflagellate  
**NT3** euglena  
**NT3** trypanosoma  
**NT2** sarcodina  
**NT3** amoeba  
**NT3** foraminifera  
**NT2** sporozoa  
**NT3** babesidae  
**NT3** plasmodium  
**NT1** rotifera  
*RT* parasites

### INVERTED STEPANOV METHOD

*INIS: 1996-04-18; ETDE: 1980-02-11*

*An edge-defined film-growth method which uses nonwetted dies.*

*SF* stepanov method  
*BT1* crystal growth methods  
*RT* crystal growth  
*RT* efg method  
*RT* sheets

### INVERTERS

*INIS: 1976-09-06; ETDE: 1975-08-19*

*Excludes AC to DC converters for which use RECTIFIERS.*

*UF* dc to ac inverters  
**\*BT1** electrical equipment  
*RT* dc to dc converters  
*RT* power conditioning circuits  
*RT* power supplies

### investigations

*INIS: 2000-04-12; ETDE: 1980-07-09*

*For inquiries in the legalistic sense; not for scientific studies.*

*(Prior to March 1997 this was a valid ETDE descriptor.)*

SEE administrative procedures

### INVESTMENT

*RT* capital  
*RT* cost  
*RT* diversification  
*RT* economics  
*RT* euromarket  
*RT* financing  
*RT* interest rate  
*RT* payback period  
*RT* property values

### inviscid flow

*1986-03-04*

USE ideal flow

### INVOICES

*Itemized lists of goods shipped, usually specifying the price and the terms of sale.*

*RT* accounting  
*RT* charges

### IODATES

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

**\*BT1** iodine compounds  
**BT1** oxygen compounds  
*RT* iodic acid

### iodex process

*2000-04-12*

USE iodex process

### IODIC ACID

**\*BT1** inorganic acids  
**\*BT1** iodine compounds  
**BT1** oxygen compounds  
*RT* iodates

### IODIDES

*1997-06-17*

*UF* americium iodides  
*UF* astatine iodides  
*UF* beryllium iodides  
*UF* californium iodides  
*UF* einsteinium iodides  
*UF* fermium iodides  
*UF* polonium iodides  
*UF* promethium iodides  
*UF* protactinium iodides  
**\*BT1** halides

**\*BT1** iodine compounds  
**NT1** aluminium iodides  
**NT1** antimony iodides  
**NT1** argon iodides  
**NT1** arsenic iodides  
**NT1** barium iodides  
**NT1** bismuth iodides  
**NT1** boron iodides  
**NT1** cadmium iodides  
**NT1** calcium iodides  
**NT1** cerium iodides  
**NT1** cesium iodides  
**NT1** chromium iodides  
**NT1** cobalt iodides  
**NT1** copper iodides  
**NT1** curium iodides  
**NT1** dysprosium iodides  
**NT1** erbium iodides  
**NT1** europium iodides  
**NT1** gadolinium iodides  
**NT1** gallium iodides  
**NT1** germanium iodides  
**NT1** gold iodides  
**NT1** hafnium iodides  
**NT1** holmium iodides  
**NT1** indium iodides  
**NT1** iron iodides  
**NT1** lanthanum iodides  
**NT1** lead iodides  
**NT1** lithium iodides  
**NT1** lutetium iodides  
**NT1** magnesium iodides  
**NT1** manganese iodides  
**NT1** mercury iodides  
**NT1** molybdenum iodides  
**NT1** neodymium iodides  
**NT1** neon iodides  
**NT1** neptunium iodides  
**NT1** nickel iodides  
**NT1** niobium iodides  
**NT1** nitrogen iodides  
**NT1** palladium iodides  
**NT1** phosphorus iodides

**NT1** platinum iodides  
**NT1** plutonium iodides  
**NT1** potassium iodides  
**NT1** praseodymium iodides  
**NT1** rhenium iodides  
**NT1** rubidium iodides  
**NT1** samarium iodides  
**NT1** scandium iodides  
**NT1** selenium iodides  
**NT1** silicon iodides  
**NT1** silver iodides  
**NT1** sodium iodides  
**NT1** strontium iodides  
**NT1** tantalum iodides  
**NT1** technetium iodides  
**NT1** tellurium iodides  
**NT1** terbium iodides  
**NT1** thallium iodides  
**NT1** thorium iodides  
**NT1** thulium iodides  
**NT1** tin iodides  
**NT1** titanium iodides  
**NT1** tungsten iodides  
**NT1** uranium iodides  
**NT1** vanadium iodides  
**NT1** xenon iodides  
**NT1** ytterbium iodides  
**NT1** yttrium iodides  
**NT1** zinc iodides  
**NT1** zirconium iodides  
*RT* hydriodic acid  
*RT* oxyiodides

### IODINATED ALICYCLIC HYDROCARBONS

*2000-04-12*

**\*BT1** halogenated alicyclic hydrocarbons  
**\*BT1** organic iodine compounds

### IODINATED ALIPHATIC HYDROCARBONS

*1991-09-30*

*(Prior to October 1991, this concept was indexed by ORGANIC IODINE COMPOUNDS.)*

**\*BT1** halogenated aliphatic hydrocarbons  
**\*BT1** organic iodine compounds  
**NT1** iodoform  
**NT1** methyl iodide

### IODINATED AROMATIC HYDROCARBONS

*1991-10-01*

**\*BT1** halogenated aromatic hydrocarbons  
**\*BT1** organic iodine compounds

### iodinated hydrocarbons

*ETDE: 2002-06-13*

USE organic iodine compounds

### IODINATION

**\*BT1** halogenation  
*RT* deiodination

### IODINE

*UF* iodine iodides  
**\*BT1** halogens  
*RT* iodine additions  
*RT* iodex process  
*RT* lugol  
*RT* thyroglobulin  
*RT* thyroid  
*RT* thyroid hormones

### IODINE 108

*INIS: 1991-03-22; ETDE: 1991-04-09*

**\*BT1** alpha decay radioisotopes  
**\*BT1** intermediate mass nuclei  
**\*BT1** iodine isotopes  
**\*BT1** milliseconds living radioisotopes  
**\*BT1** odd-odd nuclei

**IODINE 109***INIS: 1984-06-21; ETDE: 1984-07-10*

- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 proton decay radioisotopes

**IODINE 110***INIS: 1978-02-23; ETDE: 1978-04-28*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**IODINE 111***INIS: 1978-02-23; ETDE: 1978-04-28*

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**IODINE 112***INIS: 1978-02-23; ETDE: 1978-04-28*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**IODINE 113***INIS: 1978-02-23; ETDE: 1978-04-28*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**IODINE 114***INIS: 1978-02-23; ETDE: 1978-03-08*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**IODINE 115***1978-07-03*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**IODINE 116**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**IODINE 117**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**IODINE 118**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**IODINE 119**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**IODINE 120**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**IODINE 121**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 odd-even nuclei

**IODINE 122**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**IODINE 123**

- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei

**IODINE 124**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-odd nuclei

**IODINE 125**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei

**IODINE 126**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-odd nuclei

**IODINE 127**

- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes

**IODINE 127 BEAMS***INIS: 1979-04-27; ETDE: 1979-05-25*

- \*BT1 ion beams

**IODINE 127 REACTIONS***1984-05-28*

- \*BT1 heavy ion reactions

**IODINE 127 TARGET***ETDE: 1976-07-09*

- BT1 targets

**IODINE 128**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**IODINE 128 TARGET***INIS: 1984-07-20; ETDE: 1984-08-20*

- BT1 targets

**IODINE 129**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei
- \*BT1 years living radioisotopes

**IODINE 129 TARGET***ETDE: 1976-07-09*

- BT1 targets

**IODINE 130**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 iodine isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**IODINE 131**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei

**IODINE 132**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 iodine isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei

**IODINE 133**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 iodine isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**IODINE 134**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**IODINE 135**

- \*BT1 beta-minus decay radioisotopes

- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei

**IODINE 136**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**IODINE 137**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**IODINE 138**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**IODINE 139**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**IODINE 140**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**IODINE 141**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**IODINE 142**

*INIS: 1986-04-28; ETDE: 1986-07-03*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iodine isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**IODINE ADDITIONS**

*INIS: 1976-07-16; ETDE: 1976-09-15*  
RT iodine

**IODINE BROMIDES**

- UF bromine iodides
- \*BT1 bromides
- \*BT1 iodine compounds

**IODINE CHLORIDES**

- UF chlorine iodides
- \*BT1 chlorides
- \*BT1 iodine compounds

**IODINE COMPLEXES**

- BT1 complexes

**IODINE COMPOUNDS**

- BT1 halogen compounds
- NT1 hydriodic acid
- NT1 hypoiodous acid
- NT1 iodates
- NT1 iodic acid
- NT1 iodides
  - NT2 aluminium iodides
  - NT2 antimony iodides
  - NT2 argon iodides

- NT2 arsenic iodides
- NT2 barium iodides
- NT2 bismuth iodides
- NT2 boron iodides
- NT2 cadmium iodides
- NT2 calcium iodides
- NT2 cerium iodides
- NT2 cesium iodides
- NT2 chromium iodides
- NT2 cobalt iodides
- NT2 copper iodides
- NT2 curium iodides
- NT2 dysprosium iodides
- NT2 erbium iodides
- NT2 europium iodides
- NT2 gadolinium iodides
- NT2 gallium iodides
- NT2 germanium iodides
- NT2 gold iodides
- NT2 hafnium iodides
- NT2 holmium iodides
- NT2 indium iodides
- NT2 iron iodides
- NT2 lanthanum iodides
- NT2 lead iodides
- NT2 lithium iodides
- NT2 lutetium iodides
- NT2 magnesium iodides
- NT2 manganese iodides
- NT2 mercury iodides
- NT2 molybdenum iodides
- NT2 neodymium iodides
- NT2 neon iodides
- NT2 neptunium iodides
- NT2 nickel iodides
- NT2 niobium iodides
- NT2 nitrogen iodides
- NT2 palladium iodides
- NT2 phosphorus iodides
- NT2 platinum iodides
- NT2 plutonium iodides
- NT2 potassium iodides
- NT2 praseodymium iodides
- NT2 rhenium iodides
- NT2 rubidium iodides
- NT2 samarium iodides
- NT2 scandium iodides
- NT2 selenium iodides
- NT2 silicon iodides
- NT2 silver iodides
- NT2 sodium iodides
- NT2 strontium iodides
- NT2 tantalum iodides
- NT2 technetium iodides
- NT2 tellurium iodides
- NT2 terbium iodides
- NT2 thallium iodides
- NT2 thorium iodides
- NT2 thulium iodides
- NT2 tin iodides
- NT2 titanium iodides
- NT2 tungsten iodides
- NT2 uranium iodides
- NT2 vanadium iodides
- NT2 xenon iodides
- NT2 ytterbium iodides
- NT2 yttrium iodides
- NT2 zinc iodides
- NT2 zirconium iodides
- NT1 iodine bromides
- NT1 iodine chlorides
- NT1 iodine fluorides
- NT1 iodine oxides
- NT1 oxyiodides
- NT1 periodates
- NT1 periodic acid
- RT organic iodine compounds

**IODINE FLUORIDES**

- UF fluorine iodides
- \*BT1 fluorides
- \*BT1 iodine compounds

**iodine iodides**

- USE iodine

**IODINE IONS**

- \*BT1 ions

**IODINE ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 iodine 108
- NT1 iodine 109
- NT1 iodine 110
- NT1 iodine 111
- NT1 iodine 112
- NT1 iodine 113
- NT1 iodine 114
- NT1 iodine 115
- NT1 iodine 116
- NT1 iodine 117
- NT1 iodine 118
- NT1 iodine 119
- NT1 iodine 120
- NT1 iodine 121
- NT1 iodine 122
- NT1 iodine 123
- NT1 iodine 124
- NT1 iodine 125
- NT1 iodine 126
- NT1 iodine 127
- NT1 iodine 128
- NT1 iodine 129
- NT1 iodine 130
- NT1 iodine 131
- NT1 iodine 132
- NT1 iodine 133
- NT1 iodine 134
- NT1 iodine 135
- NT1 iodine 136
- NT1 iodine 137
- NT1 iodine 138
- NT1 iodine 139
- NT1 iodine 140
- NT1 iodine 141
- NT1 iodine 142

**IODINE LASERS**

*1995-07-21*

- \*BT1 gas lasers

**IODINE NUMBER**

*2000-04-12*

*A measure of the unsaturation of a substance, as an oil or fat.*

- RT chemical composition

**IODINE OXIDES**

- \*BT1 iodine compounds
- \*BT1 oxides
- RT oxyiodides

**iodochloroquine**

*INIS: 1996-10-23; ETDE: 1981-09-22*

*(Until October 1996 this was a valid descriptor.)*

- USE organic chlorine compounds
- USE organic iodine compounds

**IODODEOXYURIDINE**

- UF iudr
- \*BT1 iodouracils
- \*BT1 nucleosides
- RT deoxyuridine

**IODOFORM**

- \*BT1 iodinated aliphatic hydrocarbons
- RT hydrocarbons

RT methane

### iodohippurate

INIS: 1975-10-23; ETDE: 2002-06-13

USE hippuran

### iodohippurate-na

INIS: 2000-04-12; ETDE: 1980-08-12

USE hippuran

### IODOMETRY

\*BT1 titration

### iodopyracet

1996-07-18

(Prior to March 1997 DIODRAST was used for this concept in ETDE.)

USE contrast media  
USE heterocyclic acids  
USE organic iodine compounds  
USE pyridines

### IODOURACILS

\*BT1 antimetabolites  
\*BT1 organic iodine compounds  
\*BT1 uracils  
NT1 iododeoxyuridine

### IODOX PROCESS

UF iodex process  
\*BT1 reprocessing  
RT iodine  
RT methyl iodide  
RT radioactive waste processing

### ioglycamic acid

INIS: 1996-10-23; ETDE: 1975-12-16

(Until October 1996 this was a valid descriptor.)

USE amides  
USE ethers  
USE monocarboxylic acids  
USE organic iodine compounds

### IOHEXOL

INIS: 1983-06-30; ETDE: 1983-07-20

BT1 contrast media

### ION ACOUSTIC WAVES

1997-04-30

Non-dispersive ion waves.

UF non-dispersive ion waves  
UF nondispersive ion waves  
\*BT1 ion waves  
RT sonic probes  
RT sound waves

### ION-ATOM COLLISIONS

UF proton-atom collisions  
\*BT1 atom collisions  
\*BT1 ion collisions  
RT electron-promotion model

### ION BEAM FUSION REACTORS

INIS: 1995-07-21; ETDE: 1983-02-09

UF i-beam type reactors  
UF ion beam type reactors  
BT1 thermonuclear reactors  
RT icf devices  
RT inertial confinement  
RT inertial fusion drivers  
RT particle beam fusion accelerator

### ION BEAM INJECTION

BT1 beam injection  
NT1 molecular ion beam injection

### ION BEAM TARGETS

INIS: 1982-11-30; ETDE: 1978-09-11

SF icf targets  
SF inertial confinement fusion targets  
BT1 targets  
RT electron beam targets

RT inertial confinement

RT laser targets

RT thermonuclear fuels

### ion beam type reactors

INIS: 1982-11-30; ETDE: 1976-09-15

USE ion beam fusion reactors

### ION BEAMS

1996-07-18

BT1 beams  
NT1 aluminium 27 beams  
NT1 argon 38 beams  
NT1 argon 40 beams  
NT1 beryllium 9 beams  
NT1 bismuth 209 beams  
NT1 boron 10 beams  
NT1 boron 11 beams  
NT1 bromine 79 beams  
NT1 calcium 40 beams  
NT1 calcium 48 beams  
NT1 carbon 12 beams  
NT1 carbon 13 beams  
NT1 chlorine 35 beams  
NT1 chlorine 37 beams  
NT1 copper 63 beams  
NT1 deuteron beams  
NT1 fluorine 19 beams  
NT1 gadolinium 155 beams  
NT1 germanium 74 beams  
NT1 germanium 76 beams  
NT1 gold 197 beams  
NT1 helium 3 beams  
NT1 helium 4 beams  
NT2 alpha beams  
NT1 hydrogen 1 minus beams  
NT1 iodine 127 beams  
NT1 iron 56 beams  
NT1 iron 58 beams  
NT1 krypton 84 beams  
NT1 krypton 86 beams  
NT1 lanthanum 139 beams  
NT1 lead 208 beams  
NT1 lithium 6 beams  
NT1 lithium 7 beams  
NT1 magnesium 24 beams  
NT1 magnesium 25 beams  
NT1 neon 20 beams  
NT1 neon 22 beams  
NT1 nickel 58 beams  
NT1 nickel 60 beams  
NT1 nitrogen 14 beams  
NT1 nitrogen 15 beams  
NT1 oxygen 16 beams  
NT1 oxygen 18 beams  
NT1 phosphorus 31 beams  
NT1 potassium 39 beams  
NT1 potassium 41 beams  
NT1 radioactive ion beams  
NT2 argon 39 beams  
NT2 beryllium 7 beams  
NT2 carbon 10 beams  
NT2 carbon 11 beams  
NT2 carbon 14 beams  
NT2 chlorine 39 beams  
NT2 helium 8 beams  
NT2 neon 19 beams  
NT2 nitrogen 13 beams  
NT2 sulfur 38 beams  
NT2 triton beams  
NT2 uranium 238 beams  
NT1 silicon 28 beams  
NT1 silicon 29 beams  
NT1 silver 107 beams  
NT1 sodium 23 beams  
NT1 sulfur 32 beams  
NT1 tin 120 beams  
NT1 titanium 48 beams  
NT1 titanium 50 beams  
NT1 tungsten 184 beams

NT1 xenon 129 beams

NT1 xenon 131 beams

NT1 xenon 132 beams

NT1 xenon 136 beams

RT anions

RT beam strippers

RT cations

RT charge distribution

RT charged particles

RT heavy ions

RT ion implantation

RT ion probes

RT ion scattering analysis

RT ion spectroscopy

RT ions

RT light ions

RT migma devices

RT particle beams

RT sputtering

### ion blocking

USE ion channeling

### ION CHANNELING

UF ion blocking  
BT1 channeling  
RT crystal lattices  
RT ions

### ion clusters

USE ion pairs

### ION COLLISIONS

BT1 collisions  
NT1 electron-ion collisions  
NT1 ion-atom collisions  
NT1 ion-ion collisions  
NT1 ion-molecule collisions  
NT1 photon-ion collisions  
NT1 positron-ion collisions

### ION CYCLOTRON-RESONANCE

INIS: 1983-12-01; ETDE: 1984-01-27

UF icr

\*BT1 cyclotron resonance

RT icr heating

### ion cyclotron-resonance heating

USE icr heating

### ION CYCLOTRON RESONANCE SPECTROSCOPY

INIS: 2000-04-12; ETDE: 1976-03-22

\*BT1 ion spectroscopy

RT cyclotron resonance

### ION DENSITY

UF density (ion)  
RT ions

### ION DETECTION

\*BT1 charged particle detection  
RT heavy ions  
RT ion dosimetry  
RT ions  
RT light ions

### ION DOSIMETRY

BT1 dosimetry  
RT ion detection

### ion-drag accelerators

USE electron-ring accelerators

### ION DRIFT

UF drift (ion)  
RT ambipolar diffusion  
RT ions

### ION EMISSION

BT1 emission  
RT field emission

**ION EXCHANGE**

- UF cation exchange capacity
- UF exchange (ion)
- UF ligand exchange
- RT demineralization
- RT desalination
- RT distribution functions
- RT ion exchange chromatography
- RT separation processes

**ION EXCHANGE****CHROMATOGRAPHY**

- \*BT1 chromatography
- RT distribution functions
- RT ion exchange
- RT ion exchange materials
- RT leaching
- RT resins

**ION EXCHANGE MATERIALS**

- UF decalco
- UF ion exchange membranes
- BT1 materials
- NT1 inorganic ion exchangers
  - NT2 bentonite
  - NT2 montmorillonite
  - NT2 mullite
  - NT2 vermiculite
  - NT2 zeolites
  - NT3 clinoptilolite
  - NT3 faujasite
  - NT3 heulandite
  - NT3 laumontite
  - NT3 mordenite
  - NT3 wairakite
- NT1 liquid ion exchangers
- NT1 mixed bed ion exchangers
- NT1 organic ion exchangers
  - NT2 polystyrene-dvb
- RT anions
- RT cations
- RT graft polymers
- RT ion exchange chromatography
- RT leaching
- RT resins
- RT silica gel

**ion exchange membranes**

- USE ion exchange materials
- USE membranes

**ION IMPLANTATION**

- RT crystal doping
- RT crystals
- RT doped materials
- RT inclusions
- RT ion beams
- RT ions
- RT trace amounts

**ION-ION COLLISIONS**

- \*BT1 ion collisions

**ION MICROPROBE ANALYSIS**

- UF sims
- BT1 microanalysis
- \*BT1 nondestructive analysis
- RT ion probes

**ION MICROSCOPES**

- BT1 microscopes

**ION MICROSCOPY**

- UF field emission microscopy
- UF field ion microscopy
- BT1 microscopy
- RT field emission

**ION MOBILITY**

- ETDE: 1975-07-29
- \*BT1 particle mobility

- RT ions

**ION-MOBILITY DETECTORS**

- INIS: 1999-12-31; ETDE: 1980-03-04
- Ionization chambers with a corona discharge
- ionization source for vapor analysis.
- BT1 measuring instruments
- RT drift chambers
- RT gas analysis
- RT ionization chambers

**ION-MOLECULE COLLISIONS**

- UF proton-molecule collisions
- \*BT1 ion collisions
- \*BT1 molecule collisions

**ION-NEUTRALIZATION SPECTROSCOPY**

- BT1 spectroscopy

**ION PAIRS**

- UF clusters (ion)
- UF ion clusters
- RT atomic clusters
- RT ions

**ION PLASMA WAVES**

- Dispersive ion waves.
- UF dispersive ion waves
- \*BT1 ion waves

**ION PROBES**

- BT1 probes
- RT chemical analysis
- RT deuteron probes
- RT ion beams
- RT ion microprobe analysis
- RT ion sources
- RT proton probes
- RT secondary beams
- RT secondary emission

**ION PROPULSION**

- INIS: 1976-02-18; ETDE: 1976-04-19
- Vehicular motion caused by reaction from the high-speed discharge of a beam of ions.
- BT1 propulsion
- RT ion thrusters

**ION RINGS**

- INIS: 1975-12-19; ETDE: 1976-08-24
- RT confinement
- RT magnetic confinement
- RT minimum-b configurations

**ION SCATTERING ANALYSIS**

- \*BT1 nondestructive analysis
- RT ion beams
- RT radiation scattering analysis
- RT scattering

**ION SELECTIVE ELECTRODE ANALYSIS**

- BT1 chemical analysis
- RT electrodes

**ION-SELECTIVE ELECTRODES**

- INIS: 2000-04-12; ETDE: 1982-07-27
- BT1 electrodes

**ION SOURCES**

- NT1 alpha sources
- NT1 duoplasmatrons
- NT1 ecr ion sources
- NT1 electron beam ion sources
- NT1 penning ion sources
- NT1 triplasmotrons
- RT atomic beam sources
- RT ion probes
- RT ions
- RT neutral beam sources
- RT particle sources

**ION SPECTROSCOPY**

- UF beam-foil spectroscopy
- UF beam-gas spectroscopy
- BT1 spectroscopy
- NT1 ion cyclotron resonance spectroscopy
- RT ion beams
- RT rutherford backscattering spectroscopy

**ION TEMPERATURE**

- UF plasma temperature
- UF temperature (ion)
- RT energy
- RT ions

**ION THRUSTERS**

- INIS: 1975-10-23; ETDE: 1975-12-16
- BT1 thrusters
- RT ion propulsion
- RT propulsion
- RT propulsion systems
- RT surface ionization

**ION WAVE INSTABILITY**

- \*BT1 plasma microinstabilities
- RT bernstein mode

**ION WAVES**

- BT1 plasma waves
- NT1 ion acoustic waves
- NT1 ion plasma waves
- RT bernstein mode

**IONIC COMPOSITION**

- RT chemical composition
- RT ionosphere
- RT ions
- RT plasma

**IONIC CONDUCTIVITY**

- \*BT1 electric conductivity

**IONIC CRYSTALS**

- BT1 crystals

**ionic potential**

- INIS: 2000-04-12; ETDE: 1979-02-23
- Valence divided by ionic radius.
- (Prior to March 1997 this was a valid ETDE descriptor.)
- USE valence

**ionic reactions**

- USE chemical reactions
- USE ions

**ionics electrolytic regeneration process**

- INIS: 2000-04-12; ETDE: 1977-04-12
- Electrolytic cell technology to convert sodium sulfate solution to caustic and sulfuric acid.
- Sulfate ions formed by oxidation are purged from the scrubbing loop as dilute sulfuric acid.
- (Prior to January 1995, this was a valid ETDE descriptor.)
- USE desulfurization

**IONIZATION**

- UF discharges (ionization)
- NT1 autoionization
- NT1 coulomb ionization
- NT1 inner-shell ionization
- NT1 internal ionization
- NT1 photoionization
- NT1 surface ionization
- NT2 adiabatic surface ionization
- RT beam neutralization
- RT bragg curve
- RT buildup
- RT charge exchange
- RT charge states



RT dissociation  
 RT electron attachment  
 RT electron detachment  
 RT electron loss  
 RT energy absorption  
 RT energy losses  
 RT fano factor  
 RT ionization potential  
 RT ionizing radiations  
 RT jesse effect  
 RT kerma  
 RT let  
 RT penning effect  
 RT plasma production  
 RT plasma seeding  
 RT radiation quality  
 RT wall effects

**ionization calorimeters**

2000-04-12

USE shower counters

**ionization chamber smoke detectors**

INIS: 1993-11-08; ETDE: 2002-06-13

USE smoke detectors

**IONIZATION CHAMBERS**

\*BT1 radiation detectors  
 NT1 boron coated ion chambers  
 NT1 bragg gray chambers  
 NT1 condenser ionization chambers  
 NT1 extrapolation chambers  
 NT1 fission chambers  
 NT1 liquid ionization chambers  
 NT1 multiwire ionization chambers  
 RT avalanche quenching  
 RT campbelling circuits  
 RT electron-capture detectors  
 RT ion-mobility detectors  
 RT multiwire proportional chambers  
 RT wall effects  
 RT wall-less counters

**IONIZATION FRONT****ACCELERATORS**

INIS: 1991-12-17; ETDE: 1979-05-25

*Collective effect accelerator that produces controlled motion of a potential well at the head of an intense relativistic electron beam.*

\*BT1 collective accelerators

**IONIZATION GAGES**

\*BT1 vacuum gages  
 NT1 bayard-alpert gages  
 NT1 philips gages  
 NT1 radioactive ionization gages

**ionization loss**

USE energy losses

**IONIZATION POTENTIAL**

RT binding energy  
 RT electric potential  
 RT electronegativity  
 RT ionization  
 RT plasma seeding

**IONIZED GASES**

\*BT1 gases  
 NT1 fully ionized gases  
 NT2 lorentz gas  
 NT1 strongly ionized gases  
 NT1 weakly ionized gases  
 RT fokker-planck equation  
 RT plasma

**IONIZING RADIATIONS**

BT1 radiations  
 NT1 alpha particles  
 NT2 cosmic alpha particles  
 NT2 delayed alpha particles

NT2 solar alpha particles  
 NT1 beta particles  
 NT1 cosmic radiation  
 NT2 cosmic neutrinos  
 NT2 cosmic photons  
 NT2 cosmic protons  
 NT2 hard component  
 NT2 primary cosmic radiation  
 NT3 cosmic alpha particles  
 NT3 cosmic gamma bursts  
 NT3 cosmic nuclei  
 NT3 cosmic x-ray bursts  
 NT2 secondary cosmic radiation  
 NT3 cosmic electrons  
 NT3 cosmic kaons  
 NT3 cosmic muons  
 NT3 cosmic neutrons  
 NT3 cosmic pions  
 NT3 cosmic positrons  
 NT3 cosmic showers  
 NT4 extensive air showers  
 NT2 soft component  
 NT1 gamma radiation  
 NT2 delayed gamma radiation  
 NT2 prompt gamma radiation  
 NT1 x radiation  
 NT2 hard x radiation  
 NT2 soft x radiation  
 RT buildup  
 RT delta rays  
 RT dose equivalents  
 RT energy losses  
 RT environmental exposure  
 RT ionization  
 RT mutagens  
 RT occupational exposure  
 RT teratogens

**IONOGRAPHIC IMAGING**

INIS: 1999-03-30; ETDE: 1976-08-24

*A process whereby a pattern of electrical charges is formed on a foil by the accumulation of ions from a gas of high atomic number ionized by the incident radiation.*

\*BT1 biomedical radiography

**ionophoresis**

USE electrophoresis

**IONOSONDES**

\*BT1 radio equipment  
 RT measuring instruments  
 RT space vehicles

**IONOSPHERE**

UF ionospheric effects

BT1 earth atmosphere

NT1 c region

NT1 d region

NT1 e region

NT2 sporadic e

NT1 f region

NT2 f1 layer

NT2 f2 layer

NT2 spread f

RT auroral hiss

RT auroral oval

RT auroral zones

RT critical frequency

RT harang discontinuity

RT ionic composition

RT midday aurorae

RT polar-cap aurorae

RT polar cusp

RT scale height

RT sudden ionospheric disturbance

RT travelling ionospheric disturbance

RT virtual height

**ionospheric effects**

INIS: 2000-04-12; ETDE: 1982-05-12

*(Prior to March 1997 this was a valid ETDE descriptor.)*

USE disturbances

USE ionosphere

**IONOSPHERIC STORMS**

1975-11-07

BT1 disturbances

NT1 sudden ionospheric disturbance

NT1 travelling ionospheric disturbance

RT f region

RT magnetic storms

**IONS**

1996-07-18

*Ions in liquid and solid solutions are indexed as compounds; ions in gases by the pre-coordinated descriptor consisting of the element name and the word IONS; ions in beams by assigning either the specific descriptor if available, e.g. ARGON 40 BEAMS or the isotope name together with ION BEAMS.*

UF ionic reactions

UF mendelevium ions

UF nobelium ions

BT1 charged particles

NT1 actinium ions

NT1 aluminium ions

NT1 americium ions

NT1 anions

NT2 heteropolyanions

NT2 hydrogen ions 1 minus

NT1 antimony ions

NT1 argon ions

NT1 arsenic ions

NT1 astatine ions

NT1 atomic ions

NT1 barium ions

NT1 berkelium ions

NT1 beryllium ions

NT1 bismuth ions

NT1 boron ions

NT1 bromine ions

NT1 cadmium ions

NT1 calcium ions

NT1 californium ions

NT1 carbon ions

NT1 cations

NT2 hydrogen ions 1 plus

NT2 hydrogen ions 2 plus

NT2 hydrogen ions 3 plus

NT1 cerium ions

NT1 cesium ions

NT1 chlorine ions

NT1 chromium ions

NT1 cobalt ions

NT1 copper ions

NT1 curium ions

NT1 deuterium ions

NT1 dysprosium ions

NT1 einsteinium ions

NT1 erbium ions

NT1 europium ions

NT1 fermium ions

NT1 fluorine ions

NT1 francium ions

NT1 gadolinium ions

NT1 gallium ions

NT1 germanium ions

NT1 gold ions

NT1 hafnium ions

NT1 heavy ions

NT1 helium ions

NT2 helium ash

NT1 holmium ions

NT1 hydrogen ions

**NT2** hydrogen ions 1 minus  
**NT2** hydrogen ions 1 plus  
**NT2** hydrogen ions 2 plus  
**NT2** hydrogen ions 3 plus  
**NT1** indium ions  
**NT1** iodine ions  
**NT1** iridium ions  
**NT1** iron ions  
**NT1** krypton ions  
**NT1** lanthanum ions  
**NT1** lead ions  
**NT1** light ions  
**NT1** lithium ions  
**NT1** lutetium ions  
**NT1** magnesium ions  
**NT1** manganese ions  
**NT1** mercury ions  
**NT1** molecular ions  
**NT2** hydrogen ions 2 plus  
**NT2** hydrogen ions 3 plus  
**NT2** oxonium ions  
**NT1** molybdenum ions  
**NT1** multicharged ions  
**NT1** muonic ions  
**NT1** neodymium ions  
**NT1** neon ions  
**NT1** neptunium ions  
**NT1** nickel ions  
**NT1** niobium ions  
**NT1** nitrogen ions  
**NT1** osmium ions  
**NT1** oxygen ions  
**NT1** palladium ions  
**NT1** phosphorus ions  
**NT1** platinum ions  
**NT1** plutonium ions  
**NT1** polonium ions  
**NT1** potassium ions  
**NT1** praseodymium ions  
**NT1** promethium ions  
**NT1** protactinium ions  
**NT1** radium ions  
**NT1** radon ions  
**NT1** rhenium ions  
**NT1** rhodium ions  
**NT1** rubidium ions  
**NT1** ruthenium ions  
**NT1** samarium ions  
**NT1** scandium ions  
**NT1** selenium ions  
**NT1** silicon ions  
**NT1** silver ions  
**NT1** sodium ions  
**NT1** strontium ions  
**NT1** sulfur ions  
**NT1** tail ions  
**NT1** tantalum ions  
**NT1** technetium ions  
**NT1** tellurium ions  
**NT1** terbium ions  
**NT1** thallium ions  
**NT1** thorium ions  
**NT1** thulium ions  
**NT1** tin ions  
**NT1** titanium ions  
**NT1** tritium ions  
**NT1** tungsten ions  
**NT1** uranium ions  
**NT1** vanadium ions  
**NT1** xenon ions  
**NT1** ytterbium ions  
**NT1** yttrium ions  
**NT1** zinc ions  
**NT1** zirconium ions  
**RT** battery charge state  
**RT** charge states  
**RT** charged-particle reactions  
**RT** ion beams  
**RT** ion channeling

**RT** ion density  
**RT** ion detection  
**RT** ion drift  
**RT** ion implantation  
**RT** ion mobility  
**RT** ion pairs  
**RT** ion sources  
**RT** ion temperature  
**RT** ionic composition  
**RT** translocation

**ions (atomic)**

*INIS: 2000-04-12; ETDE: 1975-12-16*  
 USE atomic ions

**ions (molecular)**

*INIS: 2000-04-12; ETDE: 1975-12-16*  
 USE molecular ions

**IOPAMIDOL**

*INIS: 1984-02-22; ETDE: 1984-03-06*  
**BT1** contrast media

**iota-1440 resonances**

*INIS: 1987-12-21; ETDE: 1984-12-26*  
 (Prior to December 1987 this was a valid descriptor.)  
 USE eta-1440 mesons

**IOWA**

**\*BT1** usa  
**RT** ames laboratory  
**RT** mississippi river  
**RT** missouri river

**IOWA UTR-10 REACTOR**

*University Test Reactor, Iowa State Univ., Ames, Iowa, USA.*  
**UF** ames, iowa state university utr-10 reactor  
**UF** utr-10 iowa state university reactor  
**\*BT1** graphite moderated reactors  
**\*BT1** training reactors  
**\*BT1** water cooled reactors

**IPCR CYCLOTRON**

*INIS: 1983-06-01; ETDE: 1983-03-24*  
*Separated-sector cyclotron of the Institute of Physical and Chemical Research, Saitama, Japan.*  
**UF** institute of physical and chemical research cyclotron  
**UF** riken ssc  
**UF** saitama cyclotron  
**\*BT1** heavy ion accelerators  
**\*BT1** isochronous cyclotrons

**ipcr linac**

*INIS: 1986-05-23; ETDE: 2002-06-13*  
 USE rilac

**IPEN-MB-1 REACTOR**

*INIS: 1991-08-15; ETDE: 1991-09-13*  
*Instituto de Pesquisas Energeticas e Nucleares, Sao Paulo, Brazil.*  
**\*BT1** zero power reactors

**IPNS-I SYNCHROTRON**

*INIS: 1980-11-07; ETDE: 1979-07-18*  
*Intense Pulsed Neutron Source; 500-MeV rapid cycling synchrotron at ANL.*  
**BT1** neutron source facilities  
**\*BT1** synchrotrons

**IPP GARCHING**

*Max-Planck-Institut fuer Plasmaphysik.*  
**UF** garching ipp  
**UF** max-planck-institut fuer plasmaphysik  
**\*BT1** german fr organizations

**ipr-1 reactor**

2005-02-09  
*Instituto de Pesquisas Radioativas Nuclebras, Cidade Universitaria-Pampulma, Minas Gerais, Brazil.*  
 USE triga-brazil reactor

**iproniazid**

1996-07-18  
 (Until July 1996 this was a valid descriptor.)  
 USE antidepressants  
 USE isoniazid

**iqsy**

USE international quiet sun year

**IR-100 REACTOR**

2005-06-02  
*Sevastopol Inst. of Nuclear Energy And Industry, Sevastopol, Ukraine.*  
**\*BT1** experimental reactors  
**\*BT1** pool type reactors  
**\*BT1** training reactors

**IRAN**

**BT1** asia  
**BT1** developing countries  
**BT1** middle east  
**RT** caspian sea  
**RT** opec

**IRAN-1 REACTOR**

*INIS: 1977-06-14; ETDE: 1977-10-20*  
**UF** bushehr-1 reactor  
**\*BT1** pwr type reactors

**IRAN-2 REACTOR**

*INIS: 1977-06-14; ETDE: 1977-10-20*  
**UF** bushehr-2 reactor  
**\*BT1** pwr type reactors

**IRANIAN ATOMIC ENERGY ORGANIZATION**

*INIS: 1976-10-07; ETDE: 1976-11-01*  
**\*BT1** iranian organizations

**IRANIAN ORGANIZATIONS**

*INIS: 1976-10-07; ETDE: 1976-11-01*  
**BT1** national organizations  
**NT1** iranian atomic energy organization  
**NT1** tehran nuclear research centre

**IRAQ**

**BT1** arab countries  
**BT1** asia  
**BT1** developing countries  
**BT1** middle east  
**RT** oapec  
**RT** opec  
**RT** tigris river

**IRAQI ATOMIC ENERGY COMMISSION**

*INIS: 1985-06-10; ETDE: 1985-07-19*  
**\*BT1** iraqi organizations  
**NT1** iraqi nuclear research centre

**IRAQI NUCLEAR RESEARCH CENTRE**

*INIS: 1985-06-10; ETDE: 1985-07-19*  
**\*BT1** iraqi atomic energy commission

**IRAQI ORGANIZATIONS**

*INIS: 1985-06-10; ETDE: 1985-07-18*  
**BT1** national organizations  
**NT1** iraqi atomic energy commission  
**NT2** iraqi nuclear research centre

**IRELAND**

1995-04-03  
**BT1** developed countries  
**\*BT1** western europe

RT oecd

**IRI**

*Interuniversitair Reactor Instituut, Delft, the Netherlands.*

UF *interuniversitair reactor instituut*  
\*BT1 *netherlands organizations*

**IRIDIUM**

\*BT1 platinum metals  
\*BT1 refractory metals

**IRIDIUM 166**

*INIS: 1986-05-08; ETDE: 1986-07-03*

\*BT1 alpha decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 iridium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei

**IRIDIUM 167**

*INIS: 1986-05-08; ETDE: 1986-07-03*

\*BT1 alpha decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 iridium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei

**IRIDIUM 168**

*INIS: 1978-11-24; ETDE: 1978-12-20*

\*BT1 alpha decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 iridium isotopes  
\*BT1 odd-odd nuclei

**IRIDIUM 169**

*INIS: 1978-11-24; ETDE: 1978-12-20*

\*BT1 alpha decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 iridium isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei

**IRIDIUM 170**

*INIS: 1978-02-23; ETDE: 1978-04-28*

\*BT1 alpha decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 iridium isotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**IRIDIUM 171**

\*BT1 alpha decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 iridium isotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**IRIDIUM 172**

\*BT1 alpha decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 iridium isotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**IRIDIUM 173**

\*BT1 alpha decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 iridium isotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**IRIDIUM 174**

\*BT1 alpha decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 iridium isotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**IRIDIUM 175**

\*BT1 alpha decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 iridium isotopes

\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**IRIDIUM 176**

\*BT1 alpha decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 iridium isotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**IRIDIUM 177**

\*BT1 alpha decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 iridium isotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**IRIDIUM 178**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 iridium isotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**IRIDIUM 179**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 iridium isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

**IRIDIUM 180**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 iridium isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**IRIDIUM 181**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 iridium isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

**IRIDIUM 182**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 iridium isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

**IRIDIUM 183**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 iridium isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei

**IRIDIUM 184**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 iridium isotopes  
\*BT1 odd-odd nuclei

**IRIDIUM 185**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 iridium isotopes  
\*BT1 odd-even nuclei

**IRIDIUM 186**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 iridium isotopes  
\*BT1 odd-odd nuclei

**IRIDIUM 187**

\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 iridium isotopes  
\*BT1 odd-even nuclei

**IRIDIUM 188**

\*BT1 beta-plus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 iridium isotopes  
\*BT1 odd-odd nuclei

**IRIDIUM 189**

\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 iridium isotopes  
\*BT1 odd-even nuclei

**IRIDIUM 189 TARGET**

*INIS: 1978-01-16; ETDE: 1978-03-03*

BT1 targets

**IRIDIUM 190**

\*BT1 beta-plus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 internal conversion radioisotopes  
\*BT1 iridium isotopes  
\*BT1 isomeric transition isotopes  
\*BT1 odd-odd nuclei

**IRIDIUM 190 TARGET**

*INIS: 2000-04-12; ETDE: 1978-11-14*

BT1 targets

**IRIDIUM 191**

\*BT1 heavy nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 iridium isotopes  
\*BT1 isomeric transition isotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 stable isotopes

**IRIDIUM 191 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**IRIDIUM 192**

\*BT1 beta-minus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 heavy nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 iridium isotopes  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 years living radioisotopes

**IRIDIUM 193**

\*BT1 days living radioisotopes  
\*BT1 heavy nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 iridium isotopes  
\*BT1 isomeric transition isotopes  
\*BT1 odd-even nuclei  
\*BT1 stable isotopes

**IRIDIUM 193 TARGET***ETDE: 1976-07-09*

BT1 targets

**IRIDIUM 194**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 iridium isotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**IRIDIUM 194 TARGET***INIS: 1987-06-29; ETDE: 1987-07-09*

BT1 targets

**IRIDIUM 195**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 iridium isotopes  
 \*BT1 odd-even nuclei

**IRIDIUM 196**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 iridium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**IRIDIUM 197**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 iridium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**IRIDIUM 198**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 iridium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes

**IRIDIUM 199***2004-12-15*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 heavy nuclei  
 \*BT1 iridium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei

**IRIDIUM ADDITIONS***Alloys containing not more than 1% Ir are listed here.*

\*BT1 iridium alloys

**IRIDIUM ALLOYS***Alloys containing more than 1% Ir.*

\*BT1 platinum metal alloys  
 NT1 iridium additions  
 NT1 iridium base alloys

**IRIDIUM BASE ALLOYS**

\*BT1 iridium alloys

**IRIDIUM BORIDES**

\*BT1 borides  
 \*BT1 iridium compounds

**IRIDIUM CARBIDES***1991-09-16*

\*BT1 carbides  
 \*BT1 iridium compounds

**IRIDIUM CHLORIDES**

\*BT1 chlorides  
 \*BT1 iridium compounds

**IRIDIUM COMPLEXES**

\*BT1 transition element complexes

**IRIDIUM COMPOUNDS***1997-06-17*

BT1 refractory metal compounds  
 BT1 transition element compounds  
 NT1 iridium borides  
 NT1 iridium carbides  
 NT1 iridium chlorides  
 NT1 iridium fluorides  
 NT1 iridium hydrides  
 NT1 iridium oxides  
 NT1 iridium silicides  
 NT1 iridium sulfates  
 NT1 iridium tellurides

**IRIDIUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 iridium compounds

**IRIDIUM HYDRIDES***1979-11-02*

\*BT1 hydrides  
 \*BT1 iridium compounds

**IRIDIUM IONS**

\*BT1 ions

**IRIDIUM ISOTOPES***1999-07-16*

BT1 isotopes  
 NT1 iridium 166  
 NT1 iridium 167  
 NT1 iridium 168  
 NT1 iridium 169  
 NT1 iridium 170  
 NT1 iridium 171  
 NT1 iridium 172  
 NT1 iridium 173  
 NT1 iridium 174  
 NT1 iridium 175  
 NT1 iridium 176  
 NT1 iridium 177  
 NT1 iridium 178  
 NT1 iridium 179  
 NT1 iridium 180  
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 NT1 iridium 187  
 NT1 iridium 188  
 NT1 iridium 189  
 NT1 iridium 190  
 NT1 iridium 191  
 NT1 iridium 192  
 NT1 iridium 193  
 NT1 iridium 194  
 NT1 iridium 195  
 NT1 iridium 196  
 NT1 iridium 197  
 NT1 iridium 198  
 NT1 iridium 199

**IRIDIUM OXIDES**

\*BT1 iridium compounds  
 \*BT1 oxides

**IRIDIUM SILICIDES***INIS: 1984-04-04; ETDE: 1984-05-09*

\*BT1 iridium compounds  
 \*BT1 silicides

**IRIDIUM SULFATES***INIS: 2000-04-12; ETDE: 1976-08-04*

\*BT1 iridium compounds  
 \*BT1 sulfates

**IRIDIUM TELLURIDES***INIS: 2000-04-12; ETDE: 1976-06-07*

\*BT1 iridium compounds  
 \*BT1 tellurides

**iriginite***1996-07-18**(Until July 1996 this was a valid descriptor.)*

USE oxide minerals  
 USE uranium minerals

**IRISH SEA***INIS: 1980-05-14; ETDE: 1977-05-07**UF celtic sea*

\*BT1 atlantic ocean  
 RT united kingdom

**IRL REACTOR***Industrial Reactor Laboratories, Inc., Plainsboro, New Jersey, USA. Shut down in 1975.**UF plainsboro irl pool type reactor*

\*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

**IRON***1996-07-18**(Prior to March 1997 IRON-BETA was a valid ETDE descriptor.)**UF iron-beta*

\*BT1 transition elements  
 NT1 iron-alpha  
 NT1 iron-delta  
 NT1 iron-gamma  
 RT ferritin  
 RT heme  
 RT hemoglobin  
 RT hemosiderin  
 RT steam-iron process

**IRON 45***INIS: 1997-02-07; ETDE: 1978-07-05*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 proton decay radioisotopes

**IRON 46***1993-01-13*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 milliseconds living radioisotopes

**IRON 47**

\*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes

**IRON 48**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes

**IRON 49**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes  
 \*BT1 milliseconds living radioisotopes

**IRON 50**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 iron isotopes

**IRON 51**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 milliseconds living radioisotopes

**IRON 52**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 seconds living radioisotopes

**IRON 53**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes

**IRON 54**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 stable isotopes

**IRON 54 REACTIONS**

- INIS: 1984-08-23; ETDE: 1984-09-05*  
\*BT1 heavy ion reactions

**IRON 54 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**IRON 55**

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 years living radioisotopes

**IRON 55 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**IRON 56**

- \*BT1 even-even nuclei
  - \*BT1 intermediate mass nuclei
  - \*BT1 iron isotopes
  - \*BT1 stable isotopes
- RT* iron 56 reactions

**IRON 56 BEAMS**

- \*BT1 ion beams

**IRON 56 REACTIONS**

- \*BT1 heavy ion reactions
- RT* iron 56

**IRON 56 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**IRON 57**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 stable isotopes

**IRON 57 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**IRON 58**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 stable isotopes

**IRON 58 BEAMS**

- INIS: 1976-08-17; ETDE: 1976-11-01*  
\*BT1 ion beams

**IRON 58 REACTIONS**

- INIS: 1976-08-17; ETDE: 1976-11-01*  
\*BT1 heavy ion reactions

**IRON 58 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**IRON 59**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes

**IRON 60**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 years living radioisotopes

**IRON 61**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 iron isotopes
- \*BT1 minutes living radioisotopes

**IRON 62**

- INIS: 1976-02-11; ETDE: 1975-10-01*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 iron isotopes  
\*BT1 minutes living radioisotopes

**IRON 63**

- 1980-11-07*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 iron isotopes  
\*BT1 seconds living radioisotopes

**IRON 64**

- 1980-11-07*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 iron isotopes  
\*BT1 seconds living radioisotopes

**IRON 65**

- INIS: 1986-08-19; ETDE: 1986-09-05*  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 iron isotopes

**IRON 66**

- INIS: 1986-08-19; ETDE: 1986-09-05*  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 iron isotopes

**IRON 67**

- INIS: 1986-08-19; ETDE: 1986-09-05*  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 iron isotopes

**IRON 68**

- INIS: 1986-08-19; ETDE: 1986-09-05*  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 iron isotopes

**IRON ADDITIONS**

- 1996-11-13*  
*Alloys containing not more than 1% Fe are listed here.*

- \*BT1 iron alloys
- NT1 alloy-al95cu4
- NT2 duralumin
- NT1 alloy-ni46cr23co19ti5al4
- NT2 alloy-in-939
- NT1 alloy-ni60co15cr10al6ti5mo3
- NT2 alloy-in-100
- NT1 alloy-ni73cr20mn3nb3
- NT2 inconel 82
- NT1 alloy-ni80cr20
- NT1 alloy-ti88mo8al3
- NT1 alloy-ti90al6mo3
- NT1 alloy-ti90al6v4
- NT1 alloy-ti91al4mo3
- NT1 alloy-ti91al5cr2
- NT1 alloy-zr98sn-2
- NT2 zircaloy 2
- NT1 alloy-zr98sn-4
- NT2 zircaloy 4
- NT1 aludur
- NT1 duranickel
- NT1 rene 95
- NT1 zamak

**IRON-AIR BATTERIES**

- INIS: 2000-04-12; ETDE: 1976-06-07*  
\*BT1 metal-gas batteries

**IRON ALLOYS**

- 1996-11-13*  
*Alloys containing more than 1% Fe.*
- UF* alloy-co52fe35v13
  - UF* alloy-ehp-496
  - UF* refractaloy
  - UF* vikalloy 1
  - UF* vikalloy 2
  - \*BT1 transition element alloys
  - NT1 alloy-co36cr22ni22w15fe3
  - NT2 haynes 188 alloy
  - NT1 alloy-co43cr20fe18ni13w3
  - NT2 havar
  - NT1 alloy-co52fe35v10
  - NT1 alloy-co54cr20w15ni10
  - NT2 alloy-hs-25
  - NT2 haynes 25 alloy
  - NT1 alloy-co60cr30w4
  - NT2 stellite 6
  - NT1 alloy-hs-31
  - NT1 alloy-in-102
  - NT1 alloy-khn50mbvyu
  - NT1 alloy-mo-re-1
  - NT1 alloy-ni41fe40cr16nb3
  - NT2 inconel 706
  - NT1 alloy-ni43fe30cr22mo3
  - NT2 incoloy 825
  - NT1 alloy-ni43fe33cr16mo3
  - NT2 nimonic pe16
  - NT1 alloy-ni45fe34cr20
  - NT1 alloy-ni49cr22fe18mo9
  - NT2 hastelloy x
  - NT1 alloy-ni50co20cr15al5mo5
  - NT2 nimonic 105
  - NT1 alloy-ni50cr22fe18mo9
  - NT2 hastelloy xr
  - NT1 alloy-ni53cr19fe19nb5mo3
  - NT2 inconel 718
  - NT1 alloy-ni54mo17cr16fe6w4
  - NT2 hastelloy c
  - NT1 alloy-ni58cr20co14mo4ti3
  - NT2 waspaloy
  - NT1 alloy-ni59cr20co17ti2
  - NT1 alloy-ni59cr30fe9
  - NT2 inconel 690
  - NT1 alloy-ni60fe24cr16
  - NT2 nichrome

- NT1** alloy-ni61cr22mo9nb4fe3  
**NT2** inconel 625  
**NT1** alloy-ni61cr23fe14  
**NT1** alloy-ni62cr16mo15fe3  
**NT2** hastelloy s  
**NT1** alloy-ni66cu32  
**NT2** monel 400  
**NT1** alloy-ni70mo17cr7fe5  
**NT2** hastelloy n  
**NT2** inor-8  
**NT1** alloy-ni73cr15fe7ti3  
**NT2** inconel x750  
**NT1** alloy-ni76cr15fe8  
**NT2** inconel 600  
**NT1** alloy-ni77cr20ti2  
**NT1** alloy-ni78cr21  
**NT1** alloy-ni79fe16mo4  
**NT1** alloy-ra-333  
**NT1** alloy-s-816  
**NT1** alloy-v-36  
**NT1** alloy-v87cr9fe3  
**NT1** alloy-yundk 25ba  
**NT1** austenite  
**NT1** colmonoy  
**NT1** ferrite  
**NT1** incoloy 901  
**NT1** iron additions  
**NT2** alloy-al95cu4  
**NT3** duralumin  
**NT2** alloy-ni46cr23co19ti5al4  
**NT3** alloy-in-939  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-in-100  
**NT2** alloy-ni73cr20mn3nb3  
**NT3** inconel 82  
**NT2** alloy-ni80cr20  
**NT2** alloy-ti88mo8al3  
**NT2** alloy-ti90al6mo3  
**NT2** alloy-ti90al6v4  
**NT2** alloy-ti91al4mo3  
**NT2** alloy-ti91al5cr2  
**NT2** alloy-zr98sn-2  
**NT3** zircaloy 2  
**NT2** alloy-zr98sn-4  
**NT3** zircaloy 4  
**NT2** aludur  
**NT2** duranickel  
**NT2** rene 95  
**NT2** zamak  
**NT1** iron base alloys  
**NT2** alloy-co50fe50  
**NT3** permendur  
**NT2** alloy-fe40ni35cr22  
**NT2** alloy-fe44ni33cr21  
**NT3** incoloy 800h  
**NT2** alloy-fe46ni33cr21  
**NT3** incoloy 800  
**NT3** incoloy 802  
**NT2** alloy-fe53ni29co18  
**NT3** kovar  
**NT2** alnico alloys  
**NT2** ascology  
**NT2** cast iron  
**NT2** discaloy  
**NT2** duriron  
**NT2** ge 2541  
**NT2** hiperco  
**NT2** hoskins 875  
**NT2** invar  
**NT2** kanthal  
**NT2** sicromo 9m  
**NT2** steel-cd-4mecu  
**NT2** steels  
**NT3** austenitic steels  
**NT4** steel-cr15ni15motib  
**NT4** steel-cr16ni13monbv  
**NT4** steel-cr16ni15mo3nb  
**NT4** steel-cr16ni16monb  
**NT4** steel-cr16ni8mo2  
**NT5** stainless steel-16-8-2  
**NT4** steel-cr17ni12mo3  
**NT5** stainless steel-316  
**NT4** steel-cr17ni12mo3-l  
**NT5** stainless steel-316l  
**NT5** stainless steel-zcnd17-13  
**NT4** steel-cr17ni12monb  
**NT4** steel-cr17ni13  
**NT4** steel-cr17ni13mo2ti  
**NT4** steel-cr17ni13mo3ti  
**NT4** steel-cr17ni7  
**NT5** stainless steel-301  
**NT4** steel-cr18ni10  
**NT5** stainless steel-18-10  
**NT4** steel-cr18ni10-l  
**NT4** steel-cr18ni10ti  
**NT5** stainless steel-321  
**NT4** steel-cr18ni11  
**NT5** steel-x6crni1811  
**NT4** steel-cr18ni11nb  
**NT5** stainless steel-347  
**NT4** steel-cr18ni11nbco  
**NT5** stainless steel-348  
**NT4** steel-cr18ni12  
**NT5** stainless steel-305  
**NT4** steel-cr18ni12ti  
**NT4** steel-cr18ni8  
**NT5** stainless steel-18-8  
**NT4** steel-cr18ni9  
**NT5** stainless steel-302  
**NT4** steel-cr18ni9ti  
**NT4** steel-cr19ni10  
**NT5** stainless steel-304  
**NT4** steel-cr19ni10-l  
**NT5** stainless steel-304l  
**NT4** steel-cr20ni11  
**NT5** stainless steel-308  
**NT4** steel-cr20ni11-l  
**NT5** stainless steel-308l  
**NT4** steel-cr21mn9ni6  
**NT5** stainless steel-21-6-9  
**NT4** steel-cr23ni14  
**NT5** stainless steel-309  
**NT5** stainless steel-309s  
**NT4** steel-cr23ni18  
**NT4** steel-cr25ni20  
**NT5** alloy-hk-40  
**NT5** stainless steel-310  
**NT4** steel-ni25cr20  
**NT5** stainless steel-20-25  
**NT4** steel-ni26cr15ti2moyalb  
**NT5** alloy-a-286  
**NT3** carbon steels  
**NT4** steel-astm-a105  
**NT4** steel-astm-a106  
**NT4** steel-astm-a212  
**NT4** steel-astm-a285  
**NT4** steel-astm-a516  
**NT4** steel-astm-a533-b  
**NT4** steel-in-787  
**NT4** steel-sae-1045  
**NT3** croloy  
**NT4** steel-cr13  
**NT5** stainless steel-410  
**NT4** steel-cr16  
**NT5** stainless steel-430  
**NT4** steel-cr18ni10  
**NT5** stainless steel-18-10  
**NT4** steel-cr2mo  
**NT5** steel-astm-a542  
**NT4** steel-cr5mo  
**NT3** ferritic steels  
**NT4** steel-cr12moniv  
**NT4** steel-cr13al  
**NT5** stainless steel-405  
**NT4** steel-cr16  
**NT5** stainless steel-430  
**NT4** steel-cr25  
**NT5** stainless steel-446  
**NT4** steel-cr9mo  
**NT4** steel-cr9monbv  
**NT3** high alloy steels  
**NT4** stainless steels  
**NT5** chromium-nickel steels  
**NT6** alloy-d-9  
**NT6** carpenter  
**NT6** chromium-nickel-molybdenum steels  
**NT7** alloy-m-813  
**NT7** steel-cr11ni10mo2ti-l  
**NT7** steel-cr15ni15motib  
**NT7** steel-cr16ni13monbv  
**NT7** steel-cr16ni15mo3nb  
**NT7** steel-cr16ni16monb  
**NT7** steel-cr16ni8mo2  
**NT8** stainless steel-16-8-2  
**NT7** steel-cr16ni9mo2  
**NT7** steel-cr17ni12mo3  
**NT8** stainless steel-316  
**NT7** steel-cr17ni13mo3-l  
**NT8** stainless steel-316l  
**NT8** stainless steel-zcnd17-13  
**NT7** steel-cr17ni12monb  
**NT7** steel-cr17ni13mo2ti  
**NT7** steel-cr17ni13mo3ti  
**NT7** steel-ni26cr15ti2moyalb  
**NT8** alloy-a-286  
**NT6** durco  
**NT6** enduro  
**NT6** stainless steel-17-7ph  
**NT6** stainless steel-303  
**NT6** stainless steel-329  
**NT6** stainless steel-ph-15-7-mo  
**NT6** steel-cr17ni13  
**NT6** steel-cr17ni7  
**NT7** stainless steel-301  
**NT6** steel-cr18ni10  
**NT7** stainless steel-18-10  
**NT6** steel-cr18ni10-l  
**NT6** steel-cr18ni10ti  
**NT7** stainless steel-321  
**NT6** steel-cr18ni11  
**NT7** steel-x6crni1811  
**NT6** steel-cr18ni11nb  
**NT7** stainless steel-347  
**NT6** steel-cr18ni11nbco  
**NT7** stainless steel-348  
**NT6** steel-cr18ni12  
**NT7** stainless steel-305  
**NT6** steel-cr18ni12ti  
**NT6** steel-cr18ni8  
**NT7** stainless steel-18-8  
**NT6** steel-cr18ni9  
**NT7** stainless steel-302  
**NT6** steel-cr18ni9ti  
**NT6** steel-cr19ni10  
**NT7** stainless steel-304  
**NT6** steel-cr19ni10-l  
**NT7** stainless steel-304l  
**NT6** steel-cr20ni11  
**NT7** stainless steel-308  
**NT6** steel-cr20ni11-l  
**NT7** stainless steel-308l  
**NT6** steel-cr23ni14  
**NT7** stainless steel-309  
**NT7** stainless steel-309s  
**NT6** steel-cr23ni18  
**NT6** steel-cr25ni20  
**NT7** alloy-hk-40  
**NT7** stainless steel-310  
**NT6** steel-ni25cr20  
**NT7** stainless steel-20-25  
**NT6** steel-ni36cr12ti3al-l  
**NT6** timken alloys  
**NT5** chromium steels  
**NT6** chromium-molybdenum steels

- NT7** chromium-nickel-molybdenum steels  
**NT8** alloy-m-813  
**NT8** steel-cr11ni10mo2ti-1  
**NT8** steel-cr15ni15motib  
**NT8** steel-cr16ni13monbv  
**NT8** steel-cr16ni15mo3nb  
**NT8** steel-cr16ni16monb  
**NT8** steel-cr16ni8mo2  
**NT9** stainless steel-16-8-2  
**NT8** steel-cr16ni9mo2  
**NT8** steel-cr17ni12mo3  
**NT9** stainless steel-316  
**NT8** steel-cr17ni12mo3-l  
**NT9** stainless steel-316l  
**NT9** stainless steel-zcnd17-13  
**NT8** steel-cr17ni12monb  
**NT8** steel-cr17ni13mo2ti  
**NT8** steel-cr17ni13mo3ti  
**NT8** steel-ni26cr15ti2movalb  
**NT9** alloy-a-286  
**NT6** magnet steel-ks  
**NT6** miduale  
**NT6** stainless steel-406  
**NT6** steel-cr10mo2  
**NT6** steel-cr12  
**NT7** stainless steel-403  
**NT6** steel-cr12moniv  
**NT6** steel-cr12mov  
**NT7** alloy-ht-9  
**NT6** steel-cr13  
**NT7** stainless steel-410  
**NT6** steel-cr13al  
**NT7** stainless steel-405  
**NT6** steel-cr16  
**NT7** stainless steel-430  
**NT6** steel-cr16ni  
**NT6** steel-cr17cu4ni4nb-l  
**NT7** stainless steel-17-4ph  
**NT6** steel-cr17mo  
**NT7** stainless steel-440  
**NT6** steel-cr17ni4mo3  
**NT6** steel-cr18  
**NT6** steel-cr25  
**NT7** stainless steel-446  
**NT6** steel-cr9mo  
**NT6** steel-cr9monbv  
**NT5** low carbon-high alloy steels  
**NT6** steel-cr11ni10mo2ti-1  
**NT6** steel-cr17cu4ni4nb-l  
**NT7** stainless steel-17-4ph  
**NT6** steel-cr17ni12mo3-l  
**NT7** stainless steel-316l  
**NT7** stainless steel-zcnd17-13  
**NT6** steel-cr18ni10-l  
**NT6** steel-cr19ni10-l  
**NT7** stainless steel-304l  
**NT6** steel-cr20ni11-l  
**NT7** stainless steel-308l  
**NT6** steel-ni36cr12ti3al-l  
**NT5** stainless steel-317  
**NT5** stainless steel-318  
**NT5** stainless steel-422  
**NT5** stainless steel-fv-548  
**NT5** stainless steel-jbk-75  
**NT5** stainless steel m-50  
**NT5** steel-cr21mn9ni6  
**NT6** stainless steel-21-6-9  
**NT5** sweetalloy  
**NT3** low alloy steels  
**NT4** steel-astm-a350  
**NT4** steel-astm-a387  
**NT4** steel-astm-a508  
**NT4** steel-astm-a533  
**NT4** steel-cr2mo  
**NT5** steel-astm-a542  
**NT4** steel-cr2moninb  
**NT4** steel-cr2mov  
**NT4** steel-cr2nimov  
**NT4** steel-cr5mo  
**NT4** steel-cralnimo  
**NT4** steel-crmo  
**NT4** steel-crmov  
**NT4** steel-crni  
**NT4** steel-mncumo  
**NT5** steel-astm-a537  
**NT4** steel-mnmo  
**NT5** steel-astm-a302  
**NT4** steel-mnnimo  
**NT5** steel-astm-a533-b  
**NT4** steel-mnnimov  
**NT4** steel-ni3cr  
**NT4** steel-ni3crmo  
**NT5** steel-astm-a543  
**NT4** steel-ni3crmov  
**NT4** steel-ni4crw  
**NT4** steel-nicr  
**NT4** steel-nicrmo  
**NT4** steel-nimocr  
**NT3** manganese steels  
**NT3** martensitic steels  
**NT4** maraging steels  
**NT4** steel-cr10mo2  
**NT4** steel-cr12  
**NT5** stainless steel-403  
**NT4** steel-cr12mov  
**NT5** alloy-ht-9  
**NT4** steel-cr13  
**NT5** stainless steel-410  
**NT4** steel-cr16ni  
**NT4** steel-cr17cu4ni4nb-l  
**NT5** stainless steel-17-4ph  
**NT4** steel-cr17mo  
**NT5** stainless steel-440  
**NT4** steel-cr18  
**NT3** nickel steels  
**NT4** sweatalloy  
**NT3** steel-astm-a572  
**NT1** konel  
**NT1** lynite  
**NT1** martensite  
**NT1** misco metal  
**NT1** ni-hard  
**NT1** orthonol  
**NT1** permalloy  
**NT1** rene 41  
**NT1** supertherm  
**NT1** tribaloy 400  
**NT1** tribaloy 800
- IRON-ALPHA**  
 \*BT1 iron  
 RT ferrite  
 RT martensite
- IRON ARSENIDES**  
 INIS: 1992-09-17; ETDE: 1978-09-11  
 \*BT1 arsenides  
 \*BT1 iron compounds
- IRON BASE ALLOYS**  
 1996-11-13  
 (Most of the UF terms below have been valid ETDE descriptors.)  
 UF alloy-fe31cr21co20ni20mo3w2  
 UF alloy-fe36ni33cr26  
 UF alloy-fe48cr24ni24  
 UF alloy-hd-556  
 UF alloy-in-519  
 UF alloy-ma-956  
 UF alloy-n-155  
 UF hd-556  
 UF in 519  
 UF ma 956  
 UF manaurite 36x  
 UF manaurite 900  
 UF rezistal  
 UF sichromal alloys  
 UF tikonol  
 SF alloy-0kh12n13m  
 \*BT1 iron alloys  
**NT1** alloy-co50fe50  
**NT2** permendur  
**NT1** alloy-fe40ni35cr22  
**NT1** alloy-fe44ni33cr21  
**NT2** incoloy 800h  
**NT1** alloy-fe46ni33cr21  
**NT2** incoloy 800  
**NT2** incoloy 802  
**NT1** alloy-fe53ni29co18  
**NT2** kovar  
**NT1** alnico alloys  
**NT1** ascology  
**NT1** cast iron  
**NT1** discaloy  
**NT1** duriron  
**NT1** ge 2541  
**NT1** hiperco  
**NT1** hoskins 875  
**NT1** invar  
**NT1** kanthal  
**NT1** sicromo 9m  
**NT1** steel-cd-4mco  
**NT1** steels  
**NT2** austenitic steels  
**NT3** steel-cr15ni15motib  
**NT3** steel-cr16ni13monbv  
**NT3** steel-cr16ni15mo3nb  
**NT3** steel-cr16ni16monb  
**NT3** steel-cr16ni8mo2  
**NT4** stainless steel-16-8-2  
**NT3** steel-cr17ni12mo3  
**NT4** stainless steel-316  
**NT3** steel-cr17ni12mo3-l  
**NT4** stainless steel-316l  
**NT4** stainless steel-zcnd17-13  
**NT3** steel-cr17ni12monb  
**NT3** steel-cr17ni13  
**NT3** steel-cr17ni13mo2ti  
**NT3** steel-cr17ni13mo3ti  
**NT3** steel-cr17ni7  
**NT4** stainless steel-301  
**NT3** steel-cr18ni10  
**NT4** stainless steel-18-10  
**NT3** steel-cr18ni10-l  
**NT3** steel-cr18ni10ti  
**NT4** stainless steel-321  
**NT3** steel-cr18ni11  
**NT4** steel-x6crni1811  
**NT3** steel-cr18ni11nb  
**NT4** stainless steel-347  
**NT3** steel-cr18ni11nbco  
**NT4** stainless steel-348  
**NT3** steel-cr18ni12  
**NT4** stainless steel-305  
**NT3** steel-cr18ni12ti  
**NT3** steel-cr18ni8  
**NT4** stainless steel-18-8  
**NT3** steel-cr18ni9  
**NT4** stainless steel-302  
**NT3** steel-cr18ni9ti  
**NT3** steel-cr19ni10  
**NT4** stainless steel-304  
**NT3** steel-cr19ni10-l  
**NT4** stainless steel-304l  
**NT3** steel-cr20ni11  
**NT4** stainless steel-308  
**NT3** steel-cr20ni11-l  
**NT4** stainless steel-308l  
**NT3** steel-cr21mn9ni6  
**NT4** stainless steel-21-6-9  
**NT3** steel-cr23ni14  
**NT4** stainless steel-309  
**NT4** stainless steel-309s  
**NT3** steel-cr23ni18  
**NT3** steel-cr25ni20  
**NT4** alloy-hk-40  
**NT4** stainless steel-310

- NT3** steel-ni25cr20  
**NT4** stainless steel-20-25  
**NT3** steel-ni26cr15ti2movalb  
**NT4** alloy-a-286  
**NT2** carbon steels  
**NT3** steel-astm-a105  
**NT3** steel-astm-a106  
**NT3** steel-astm-a212  
**NT3** steel-astm-a285  
**NT3** steel-astm-a516  
**NT3** steel-astm-a533-b  
**NT3** steel-in-787  
**NT3** steel-sae-1045  
**NT2** croloy  
**NT3** steel-cr13  
**NT4** stainless steel-410  
**NT3** steel-cr16  
**NT4** stainless steel-430  
**NT3** steel-cr18ni10  
**NT4** stainless steel-18-10  
**NT3** steel-cr2mo  
**NT4** steel-astm-a542  
**NT3** steel-cr5mo  
**NT2** ferritic steels  
**NT3** steel-cr12moniv  
**NT3** steel-cr13al  
**NT4** stainless steel-405  
**NT3** steel-cr16  
**NT4** stainless steel-430  
**NT3** steel-cr25  
**NT4** stainless steel-446  
**NT3** steel-cr9mo  
**NT3** steel-cr9monbv  
**NT2** high alloy steels  
**NT3** stainless steels  
**NT4** chromium-nickel steels  
**NT5** alloy-d-9  
**NT5** carpenter  
**NT5** chromium-nickel-molybdenum steels  
**NT6** alloy-m-813  
**NT6** steel-cr11ni10mo2ti-l  
**NT6** steel-cr15ni15motib  
**NT6** steel-cr16ni13monbv  
**NT6** steel-cr16ni15mo3nb  
**NT6** steel-cr16ni16monb  
**NT6** steel-cr16ni8mo2  
**NT7** stainless steel-16-8-2  
**NT6** steel-cr16ni9mo2  
**NT6** steel-cr17ni12mo3  
**NT7** stainless steel-316  
**NT6** steel-cr17ni12mo3-l  
**NT7** stainless steel-316l  
**NT7** stainless steel-zcnd17-13  
**NT6** steel-cr17ni12monb  
**NT6** steel-cr17ni13mo2ti  
**NT6** steel-cr17ni13mo3ti  
**NT6** steel-ni26cr15ti2movalb  
**NT7** alloy-a-286  
**NT5** durco  
**NT5** enduro  
**NT5** stainless steel-17-7ph  
**NT5** stainless steel-303  
**NT5** stainless steel-329  
**NT5** stainless steel-ph-15-7-mo  
**NT5** steel-cr17ni13  
**NT5** steel-cr17ni7  
**NT6** stainless steel-301  
**NT5** steel-cr18ni10  
**NT6** stainless steel-18-10  
**NT5** steel-cr18ni10-l  
**NT5** steel-cr18ni10ti  
**NT6** stainless steel-321  
**NT5** steel-cr18ni11  
**NT6** steel-x6crni1811  
**NT5** steel-cr18ni11nb  
**NT6** stainless steel-347  
**NT5** steel-cr18ni11nbco  
**NT6** stainless steel-348  
**NT5** steel-cr18ni12  
**NT6** stainless steel-305  
**NT5** steel-cr18ni12ti  
**NT5** steel-cr18ni8  
**NT6** stainless steel-18-8  
**NT5** steel-cr18ni9  
**NT6** stainless steel-302  
**NT5** steel-cr18ni9ti  
**NT5** steel-cr19ni10  
**NT6** stainless steel-304  
**NT5** steel-cr19ni10-l  
**NT6** stainless steel-304l  
**NT5** steel-cr20ni11  
**NT6** stainless steel-308  
**NT5** steel-cr20ni11-l  
**NT6** stainless steel-308l  
**NT5** steel-cr23ni14  
**NT6** stainless steel-309  
**NT6** stainless steel-309s  
**NT5** steel-cr23ni18  
**NT5** steel-cr25ni20  
**NT6** alloy-hk-40  
**NT6** stainless steel-310  
**NT5** steel-ni25cr20  
**NT6** stainless steel-20-25  
**NT5** steel-ni36cr12ti3al-l  
**NT5** timken alloys  
**NT4** chromium steels  
**NT5** chromium-molybdenum steels  
**NT6** chromium-nickel-molybdenum steels  
**NT7** alloy-m-813  
**NT7** steel-cr11ni10mo2ti-l  
**NT7** steel-cr15ni15motib  
**NT7** steel-cr16ni13monbv  
**NT7** steel-cr16ni15mo3nb  
**NT7** steel-cr16ni16monb  
**NT7** steel-cr16ni8mo2  
**NT8** stainless steel-16-8-2  
**NT7** steel-cr16ni9mo2  
**NT7** steel-cr17ni12mo3  
**NT8** stainless steel-316  
**NT7** steel-cr17ni12mo3-l  
**NT8** stainless steel-316l  
**NT8** stainless steel-zcnd17-13  
**NT7** steel-cr17ni12monb  
**NT7** steel-cr17ni13mo2ti  
**NT7** steel-cr17ni13mo3ti  
**NT7** steel-ni26cr15ti2movalb  
**NT8** alloy-a-286  
**NT5** magnet steel-ks  
**NT5** miduale  
**NT5** stainless steel-406  
**NT5** steel-cr10mo2  
**NT5** steel-cr12  
**NT6** stainless steel-403  
**NT5** steel-cr12moniv  
**NT5** steel-cr12mov  
**NT6** alloy-ht-9  
**NT5** steel-cr13  
**NT6** stainless steel-410  
**NT5** steel-cr13al  
**NT6** stainless steel-405  
**NT5** steel-cr16  
**NT6** stainless steel-430  
**NT5** steel-cr16ni  
**NT5** steel-cr17cu4ni4nb-l  
**NT6** stainless steel-17-4ph  
**NT5** steel-cr17mo  
**NT6** stainless steel-440  
**NT5** steel-cr17ni4mo3  
**NT5** steel-cr18  
**NT5** steel-cr25  
**NT6** stainless steel-446  
**NT5** steel-cr9mo  
**NT5** steel-cr9monbv  
**NT4** low carbon-high alloy steels  
**NT5** steel-cr11ni10mo2ti-l  
**NT5** steel-cr17cu4ni4nb-l  
**NT6** stainless steel-17-4ph  
**NT5** steel-cr17ni12mo3-l  
**NT6** stainless steel-316l  
**NT3** steel-astm-a387  
**NT3** steel-astm-a508  
**NT3** steel-astm-a533  
**NT3** steel-cr2mo  
**NT4** steel-astm-a542  
**NT3** steel-cr2moninb  
**NT3** steel-cr2mov  
**NT3** steel-cr2nimov  
**NT3** steel-cr5mo  
**NT3** steel-cralnimo  
**NT3** steel-crmo  
**NT3** steel-crmov  
**NT3** steel-crni  
**NT3** steel-mncumo  
**NT4** steel-astm-a537  
**NT3** steel-mnmo  
**NT4** steel-astm-a302  
**NT3** steel-mnnimo  
**NT4** steel-astm-a533-b  
**NT3** steel-mnnimov  
**NT3** steel-ni3cr  
**NT3** steel-ni3crmo  
**NT4** steel-astm-a543  
**NT3** steel-ni3crmov  
**NT3** steel-ni4crw  
**NT3** steel-nicr  
**NT3** steel-nicrmo  
**NT3** steel-nimocr  
**NT2** manganese steels  
**NT2** martensitic steels  
**NT3** maraging steels  
**NT3** steel-cr10mo2  
**NT3** steel-cr12  
**NT4** stainless steel-403  
**NT3** steel-cr12mov  
**NT4** alloy-ht-9  
**NT3** steel-cr13  
**NT4** stainless steel-410  
**NT3** steel-cr16ni  
**NT3** steel-cr17cu4ni4nb-l  
**NT4** stainless steel-17-4ph  
**NT3** steel-cr17mo  
**NT4** stainless steel-440  
**NT3** steel-cr18  
**NT2** nickel steels  
**NT3** sweetalloy  
**NT2** steel-astm-a572  
**NT6** stainless steel-17-4ph  
**NT5** steel-cr17ni12mo3-l  
**NT6** stainless steel-316l  
**NT6** stainless steel-zcnd17-13  
**NT5** steel-cr18ni10-l  
**NT5** steel-cr19ni10-l  
**NT6** stainless steel-304l  
**NT5** steel-cr20ni11-l  
**NT6** stainless steel-308l  
**NT4** stainless steel-317  
**NT4** stainless steel-318  
**NT4** stainless steel-422  
**NT4** stainless steel-fv-548  
**NT4** stainless steel-jbk-75  
**NT4** stainless steel m-50  
**NT4** steel-cr21mn9ni6  
**NT5** stainless steel-21-6-9  
**NT4** sweetalloy  
**NT2** low alloy steels  
**NT3** steel-astm-a350  
**NT3** steel-astm-a387  
**NT3** steel-astm-a508  
**NT3** steel-astm-a533  
**NT3** steel-cr2mo  
**NT4** steel-astm-a542  
**NT3** steel-cr2moninb  
**NT3** steel-cr2mov  
**NT3** steel-cr2nimov  
**NT3** steel-cr5mo  
**NT3** steel-cralnimo  
**NT3** steel-crmo  
**NT3** steel-crmov  
**NT3** steel-crni  
**NT3** steel-mncumo  
**NT4** steel-astm-a537  
**NT3** steel-mnmo  
**NT4** steel-astm-a302  
**NT3** steel-mnnimo  
**NT4** steel-astm-a533-b  
**NT3** steel-mnnimov  
**NT3** steel-ni3cr  
**NT3** steel-ni3crmo  
**NT4** steel-astm-a543  
**NT3** steel-ni3crmov  
**NT3** steel-ni4crw  
**NT3** steel-nicr  
**NT3** steel-nicrmo  
**NT3** steel-nimocr  
**NT2** manganese steels  
**NT2** martensitic steels  
**NT3** maraging steels  
**NT3** steel-cr10mo2  
**NT3** steel-cr12  
**NT4** stainless steel-403  
**NT3** steel-cr12mov  
**NT4** alloy-ht-9  
**NT3** steel-cr13  
**NT4** stainless steel-410  
**NT3** steel-cr16ni  
**NT3** steel-cr17cu4ni4nb-l  
**NT4** stainless steel-17-4ph  
**NT3** steel-cr17mo  
**NT4** stainless steel-440  
**NT3** steel-cr18  
**NT2** nickel steels  
**NT3** sweetalloy  
**NT2** steel-astm-a572  
**iron-beta**  
1996-07-18  
(Until July 1996 this was a valid descriptor.)  
USE iron  
**IRON BORIDES**  
\*BT1 borides  
\*BT1 iron compounds  
**IRON BROMIDES**  
\*BT1 bromides



\*BT1 iron compounds

**IRON CARBIDES**

\*BT1 carbides

\*BT1 iron compounds

NT1 cementite

NT1 ni-hard

RT cast iron

**IRON CARBONATES**

\*BT1 carbonates

\*BT1 iron compounds

RT ankerite

RT carbonate minerals

RT siderite

**IRON CHLORIDES**

\*BT1 chlorides

\*BT1 iron compounds

**IRON COMPLEXES**

\*BT1 transition element complexes

NT1 ferricyanides

NT1 ferritin

NT1 ferrocene

NT1 ferrocyanides

RT ferroin

RT lactoferrin

RT rubredoxin

**IRON COMPOUNDS**

UF ferric compounds

UF ferrous compounds

SF gadolinite

BT1 transition element compounds

NT1 ferrates

NT1 ferrites

NT1 iron arsenides

NT1 iron borides

NT1 iron bromides

NT1 iron carbides

NT2 cementite

NT2 ni-hard

NT1 iron carbonates

NT1 iron chlorides

NT1 iron fluorides

NT1 iron hydrides

NT1 iron hydroxides

NT1 iron iodides

NT1 iron nitrates

NT1 iron nitrides

NT1 iron oxides

NT1 iron perchlorates

NT1 iron phosphates

NT1 iron phosphides

NT1 iron selenides

NT1 iron silicates

NT1 iron silicides

NT1 iron sulfates

NT1 iron sulfides

NT1 iron tellurides

NT1 iron tungstates

**IRON-DELTA**

\*BT1 iron

**IRON FLUORIDES**

\*BT1 fluorides

\*BT1 iron compounds

**iron-free spectrometers**

USE flat magnetic spectrometers

**IRON-GAMMA**

\*BT1 iron

RT austenite

**iron garnets**

INIS: 2000-04-12; ETDE: 1982-09-10

USE ferrite garnets

**IRON HYDRIDES**

\*BT1 hydrides

\*BT1 iron compounds

**IRON HYDROXIDES**

\*BT1 hydroxides

\*BT1 iron compounds

**IRON IODIDES**

\*BT1 iodides

\*BT1 iron compounds

**IRON IONS**

\*BT1 ions

**IRON ISOTOPES**

1999-07-16

BT1 isotopes

NT1 iron 45

NT1 iron 46

NT1 iron 47

NT1 iron 48

NT1 iron 49

NT1 iron 50

NT1 iron 51

NT1 iron 52

NT1 iron 53

NT1 iron 54

NT1 iron 55

NT1 iron 56

NT1 iron 57

NT1 iron 58

NT1 iron 59

NT1 iron 60

NT1 iron 61

NT1 iron 62

NT1 iron 63

NT1 iron 64

NT1 iron 65

NT1 iron 66

NT1 iron 67

NT1 iron 68

**IRON METEORITES**

BT1 meteorites

RT troilite

**IRON-NICKEL BATTERIES**

2000-04-12

UF nickel-iron batteries

\*BT1 metal-metal oxide batteries

**IRON NITRATES**

\*BT1 iron compounds

\*BT1 nitrates

**IRON NITRIDES**

\*BT1 iron compounds

\*BT1 nitrides

**IRON ORES**

BT1 ores

NT1 hematite

NT1 limonite

NT1 magnetite

NT1 siderite

RT pyrite

**IRON OXIDES**

\*BT1 iron compounds

\*BT1 oxides

RT ferrates

RT ferrites

RT goethite

RT hematite

RT ilmenite

RT kahlerite

RT limonite

RT magnetite

RT oxide minerals

RT shales

RT tantalite

RT tapiolite

RT wolframite

**IRON PERCHLORATES**

INIS: 1983-10-14; ETDE: 1983-11-09

\*BT1 iron compounds

\*BT1 perchlorates

**IRON PHOSPHATES**

\*BT1 iron compounds

\*BT1 phosphates

**IRON PHOSPHIDES**

INIS: 1976-11-08; ETDE: 1975-10-01

\*BT1 iron compounds

\*BT1 phosphides

**IRON SELENIDES**

INIS: 1976-11-08; ETDE: 1976-12-16

\*BT1 iron compounds

\*BT1 selenides

**IRON SILICATES**

1996-11-13

\*BT1 iron compounds

\*BT1 silicates

RT epidotes

RT garnets

RT helvite

RT ilvaite

RT olivine

RT silicate minerals

RT vermiculite

**IRON SILICIDES**

INIS: 1977-01-26; ETDE: 1976-08-24

\*BT1 iron compounds

\*BT1 silicides

**IRON SULFATES**

\*BT1 iron compounds

\*BT1 sulfates

**IRON SULFIDES**

\*BT1 iron compounds

\*BT1 sulfides

RT chalcopyrite

RT marcasite

RT pyrite

RT pyrrhotite

RT sulfide minerals

**IRON TELLURIDES**

INIS: 1984-07-23; ETDE: 1978-09-11

\*BT1 iron compounds

\*BT1 tellurides

**IRON TUNGSTATES**

INIS: 1977-09-15; ETDE: 1977-06-02

\*BT1 iron compounds

\*BT1 tungstates

**IRPA**

International Radiation Protection Association.

UF international radiation protection association

BT1 international organizations

**IRR-1 REACTOR**

Soreq Nuclear Research Centre, Nahal Soreq, Israel.

UF israeli research reactor-1

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 test reactors

\*BT1 thermal reactors

**IRR-2 REACTOR**

Dimona, Israel.

UF israeli research reactor-2

\*BT1 heavy water cooled reactors

- \*BT1 heavy water moderated reactors
- \*BT1 research reactors
- \*BT1 tank type reactors

**irradiance**

INIS: 2006-03-03; ETDE: 2006-02-24  
USE radiant flux density

**irradiated fuel elements**

INIS: 1976-07-30; ETDE: 2002-06-13  
USE spent fuel elements

**irradiated fuels**

INIS: 1976-07-30; ETDE: 2002-06-13  
USE spent fuels

**IRRADIATION**

- UF accidental irradiation
- UF food irradiation
- NT1 acute irradiation
- NT1 chronic irradiation
- NT1 external irradiation
  - NT2 extracorporeal irradiation
  - NT2 partial body irradiation
  - NT2 whole-body irradiation
- NT1 fractionated irradiation
- NT1 internal irradiation
- NT1 lethal irradiation
- NT1 local irradiation
- NT1 low dose irradiation
- NT1 nonuniform irradiation
- NT1 perinatal irradiation
- NT1 prenatal irradiation
- NT1 pulsed irradiation
- NT1 radication
- NT1 radiodisinfestation
- NT1 radiopreservation
  - NT2 radurization
- NT1 radiosterilization
  - NT2 radappertization
- NT1 self-irradiation
- NT1 sublethal irradiation
- NT1 supralethal irradiation
- RT damaging neutron fluence
- RT equivalent fission fluence
- RT irradiation devices
- RT irradiation procedures
- RT neutronic damage functions
- RT plant breeding
- RT radiation dose distributions
- RT radiation doses
- RT radiation effects
- RT radiation hazards
- RT radiation sources
- RT radiations
- RT radioimmunology
- RT radiotherapy

**IRRADIATION CAPSULES**

- UF capsules (irradiation)
- RT experimental channels
- RT in pile loops
- RT radiation source implants

**irradiation channels**

- USE experimental channels

**IRRADIATION DEVICES**

- UF irradiation rigs
- RT external irradiation
- RT irradiation
- RT irradiation plants
- RT irradiation procedures
- RT pigmi facilities
- RT radiation sources

**IRRADIATION PLANTS**

- BT1 nuclear facilities
- NT1 isomed
- RT external irradiation
- RT irradiation devices

- RT irradiation procedures
- RT radiation sources

**IRRADIATION PROCEDURES**

- RT afterloading
- RT external irradiation
- RT ifip
- RT irradiation
- RT irradiation devices
- RT irradiation plants
- RT spatial dose distributions
- RT temporal dose distributions

**IRRADIATION REACTORS**

For isotope production and irradiation purposes; for producing fissile materials see PRODUCTION REACTORS.

- BT1 reactors
- NT1 chemonuclear reactors
- NT1 isotope production reactors
  - NT2 affri reactor
  - NT2 ai-l-77 reactor
  - NT2 alrr reactor
  - NT2 apsara reactor
  - NT2 astra reactor
  - NT2 atpr reactor
  - NT2 bepo reactor
  - NT2 ber-2 reactor
  - NT2 bgrr reactor
  - NT2 brr reactor
  - NT2 byu l-77 reactor
  - NT2 celestin reactor
  - NT2 cesnef reactor
  - NT2 cirus reactor
  - NT2 consort-2 reactor
  - NT2 cp-5 reactor
  - NT2 dhruva reactor
  - NT2 dido reactor
  - NT2 dmtr reactor
  - NT2 dow triga-mk-1 reactor
  - NT2 dr-2 reactor
  - NT2 dr-3 reactor
  - NT2 el-1 reactor
  - NT2 el-2 reactor
  - NT2 el-3 reactor
  - NT2 etr reactor
  - NT2 ewa reactor
  - NT2 fir-1 reactor
  - NT2 fnr reactor
  - NT2 fr-2 reactor
  - NT2 frf reactor
  - NT2 frg-2 reactor
  - NT2 frj-2 reactor
  - NT2 getr reactor
  - NT2 gtrr reactor
  - NT2 gulf triga-mk-3 reactor
  - NT2 hanaro reactor
  - NT2 hfir reactor
  - NT2 hifar reactor
  - NT2 htr reactor
  - NT2 hwrr reactor
  - NT2 ian-r1 reactor
  - NT2 irt-c reactor
  - NT2 irt-f reactor
  - NT2 irt reactor
  - NT2 irt-sofia reactor
  - NT2 ispra-1 reactor
  - NT2 jeep-2 reactor
  - NT2 jrr-1 reactor
  - NT2 jrr-3 reactor
  - NT2 jrr-3m reactor
  - NT2 kuhfr reactor
  - NT2 lprr reactor
  - NT2 maria reactor
  - NT2 melusine-1 reactor
  - NT2 mnr reactor
  - NT2 mrr reactor
  - NT2 nru reactor
  - NT2 nrx reactor
  - NT2 opal reactor

- NT2 ostr reactor
- NT2 pulstar-buffalo reactor
- NT2 r-1 reactor
- NT2 r-a reactor
- NT2 r2-0 reactor
- NT2 rtp reactor
- NT2 rts-1 reactor
- NT2 siloe reactor
- NT2 slowpoke type reactors
  - NT3 slowpoke-alberta reactor
  - NT3 slowpoke-dalhousie reactor
  - NT3 slowpoke-montreal reactor
  - NT3 slowpoke-ottawa reactor
  - NT3 slowpoke-toronto reactor
  - NT3 slowpoke-wmre reactor
- NT2 taiwan research reactor
- NT2 thetis reactor
- NT2 thor reactor
- NT2 tr-1 reactor
- NT2 trico reactor
- NT2 triga-1-california reactor
- NT2 triga-1-hanover reactor
- NT2 triga-1-michigan reactor
- NT2 triga-2-bandung reactor
- NT2 triga-2-bangladesh reactor
- NT2 triga-2-dalat reactor
- NT2 triga-2-illinois reactor
- NT2 triga-2-kansas reactor
- NT2 triga-2-ljubljana reactor
- NT2 triga-2-mainz reactor
- NT2 triga-2-musashi reactor
- NT2 triga-2-pavia reactor
- NT2 triga-2-pitesti reactor
- NT2 triga-2 reactor
- NT2 triga-2-rikkyo reactor
- NT2 triga-2-rome reactor
- NT2 triga-2-seoul reactor
- NT2 triga-2-vienna reactor
- NT2 triga-3-munich reactor
- NT2 triga-3-salazar reactor
- NT2 triga-3-seoul reactor
- NT2 triga-brazil reactor
- NT2 triga-texas reactor
- NT2 triga-veterans reactor
- NT2 tz1 reactor
- NT2 ucbr reactor
- NT2 ufr reactor
- NT2 uknr reactor
- NT2 uvar reactor
- NT2 uwnr reactor
- NT2 wtr reactor
- NT2 wwr-2 reactor
- NT2 wwr-m-kiiev reactor
- NT2 wwr-m-leningrad reactor
- NT2 wwr-s-budapest reactor
- NT2 wwr-s-moscow reactor
- NT2 wwr-sm rossendorf reactor
- NT2 x-10 reactor
- NT1 materials processing reactors
- NT1 materials testing reactors
  - NT2 atr reactor
  - NT2 br-2 reactor
  - NT2 cp-2 reactor
  - NT2 dido reactor
  - NT2 dmtr reactor
  - NT2 dr-3 reactor
  - NT2 el-3 reactor
  - NT2 ewg-1 reactor
  - NT2 frg-2 reactor
  - NT2 frj-2 reactor
  - NT2 ga siwabessy reactor
  - NT2 gleep reactor
  - NT2 hanaro reactor
  - NT2 hector reactor
  - NT2 hfetr reactor
  - NT2 hfr reactor
  - NT2 hifar reactor
  - NT2 hwctr reactor
  - NT2 hwrr reactor

**NT2** igr reactor  
**NT2** ivv-2m reactor  
**NT2** jmtr reactor  
**NT2** jrr-3 reactor  
**NT2** jrr-3m reactor  
**NT2** jules horowitz reactor  
**NT2** kstr reactor  
**NT2** lpr reactor  
**NT2** merlin reactor  
**NT2** mtr reactor  
**NT2** nbsr reactor  
**NT2** nrx reactor  
**NT2** osiris reactor  
**NT2** pbr reactor  
**NT2** pluto reactor  
**NT2** r-2 reactor  
**NT2** rv-1 reactor  
**NT2** sm-2 reactor  
**NT2** taiwan research reactor  
**NT2** triga-1-hanford reactor  
**NT2** wr-1 reactor  
**NT2** wwr-m-kiev reactor  
**NT2** wwr-m-leningrad reactor  
**NT2** zephyr reactor  
**NT1** tritium production reactors  
**NT2** celestin reactor

### irradiation rigs

USE irradiation devices

### IRREDUCIBLE REPRESENTATIONS

UF representations (irreducible)  
 RT group theory  
 RT nonunitary representations  
 RT symmetry groups

### IRREVERSIBLE PROCESSES

RT onsager relations  
 RT prigogine theorem  
 RT thermodynamics

### IRRIGATION

RT agriculture  
 RT cultivation techniques  
 RT drought resistance  
 RT fresh water  
 RT radionuclide migration  
 RT soil conservation  
 RT soils  
 RT surface waters  
 RT water use

### IRT-1 LIBYA REACTOR

2005-01-24

Tajoura Nuclear Research Center, Tajoura, Libya.

UF libyan irt-1 reactor  
 UF wwr-libyan reactor  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 wwr type reactors

### IRT-2000 DJAKARTA REACTOR

UF djakarta irt-2000 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

### IRT-2000 MOSCOW REACTOR

UF mifi irt-2000 reactor  
 UF moscow irt-2000 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

### irt-2000 sofia reactor

INIS: 1977-03-01; ETDE: 2002-06-13  
 USE irt-sofia reactor

### irt-5000 baghdad reactor

INIS: 1986-07-09; ETDE: 1994-08-10  
 IRT-Baghdad reactor after upgrading from 2 MW(th) to 5 MW(th).  
 USE irt-baghdad reactor

### IRT-BAGHDAD REACTOR

INIS: 1985-06-10; ETDE: 1994-08-10  
 (Prior to June 1985 WWR-S-BAGHDAD REACTOR was used.)

UF baghdad wwr-s reactor  
 UF irt-5000 baghdad reactor  
 UF wwr-c-baghdad reactor  
 UF wwr-s-baghdad reactor  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 wwr type reactors

### IRT-C REACTOR

2000-04-12

UF soviet research reactor irt-c  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

### IRT-F REACTOR

2000-04-12

UF soviet research reactor irt-f  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

### IRT-M REACTOR

2000-04-12

\*BT1 research reactors

### IRT REACTOR

Moscow, Russian Federation.

UF soviet research reactor irt  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

### IRT-SOFIA REACTOR

Institute for Nuclear Research and Nuclear Power, Sofia, Bulgaria.

UF bulgarian research reactor irt-2000  
 UF irt-2000 sofia reactor  
 UF sofia irt-2000 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

### irvine triga-mk-1 reactor

INIS: 1984-06-21; ETDE: 2002-06-13  
 USE triga-1-california reactor

### irvine triga reactor

2000-04-12

USE triga-1-california reactor

### isabelle

USE isabelle storage rings

### ISABELLE STORAGE RINGS

UF brookhaven intersecting storage accelerators  
 UF cba (brookhaven colliding beam accelerator)

UF intersecting storage accelerator  
 UF isabelle  
 BT1 storage rings  
 RT brookhaven rhic

### ISAR-2 REACTOR

1982-10-28

UF kernkraftwerk isar-2  
 UF kki isar-2  
 \*BT1 pwr type reactors

### ISAR DEVICES

\*BT1 linear theta pinch devices

### ISAR REACTOR

UF kernkraftwerk isar  
 UF kki isar  
 \*BT1 bwr type reactors

### ISCHEMIA

\*BT1 anemias  
 \*BT1 cardiovascular diseases  
 \*BT1 vascular diseases  
 RT anoxia  
 RT blood circulation  
 RT blood vessels  
 RT myocardial infarction  
 RT necrosis

### ISENTROPIC PROCESSES

Accomplished at constant value of the entropy.

UF processes (isentropic)  
 RT adiabatic processes  
 RT entropy  
 RT isothermal processes  
 RT thermodynamics

### ISING MODEL

\*BT1 crystal models  
 RT order-disorder transformations  
 RT phi4-field theory  
 RT two-dimensional calculations

### ISIS REACTOR

CEA/CEN de Saclay, Gif-sur-Yvette, France.

\*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

### islamabad reactor pakistan

USE parr-1 reactor

### ISLANDS

1995-11-22

NT1 aleutian islands  
 NT2 amchitka island area  
 NT1 american samoa  
 NT1 azores islands  
 NT1 bahrain  
 NT1 bermuda  
 NT1 canary islands  
 NT1 cape verde islands  
 NT1 cyprus  
 NT1 faeroe islands  
 NT1 fiji  
 NT1 greenland  
 NT1 hawaii  
 NT1 iceland  
 NT1 indonesia  
 NT1 kurile islands  
 NT1 madagascar  
 NT2 malagasy republic  
 NT1 malta  
 NT1 mauritius  
 NT1 micronesia  
 NT2 kiribati  
 NT2 marshall islands  
 NT3 bikini  
 NT3 eniwetok  
 NT2 nauru  
 NT2 tuvalu

**NT1** new guinea  
**NT2** papua new guinea  
**NT1** new hebrides islands  
**NT1** new zealand  
**NT1** newfoundland  
**NT1** novaya zemlya  
**NT1** okinawa  
**NT1** philippines  
**NT1** prince edward island  
**NT1** reunion island  
**NT1** singapore  
**NT1** sri lanka  
**NT1** taiwan  
**NT1** tasmania  
**NT1** trust territory of the pacific islands  
**NT2** mariana islands  
**NT3** guam  
**NT1** west indies  
**NT2** bahama islands  
**NT2** greater antilles  
**NT3** cuba  
**NT3** hispaniola  
**NT4** dominican republic  
**NT4** haiti  
**NT3** jamaica  
**NT3** puerto rico  
**NT2** lesser antilles  
**NT3** antigua and barbuda  
**NT3** barbados  
**NT3** grenada  
**NT3** martinique  
**NT3** netherlands antilles  
**NT3** saint kitts and nevis  
**NT3** trinidad and tobago  
**NT3** virgin islands  
**NT2** saint lucia  
**NT2** saint vincent and the grenadines  
**RT** oceania  
**RT** seas  
**RT** terrestrial ecosystems

**ISO**

**UF** *international standard organization*  
**BT1** international organizations  
**RT** international electrotechnical commission  
**RT** recommendations  
**RT** regulations  
**RT** standardized terminology  
**RT** standards document

**ISOALLOXAZINES**

2000-04-03

**UF** *flavins*  
**\*BT1** heterocyclic compounds  
**\*BT1** organic nitrogen compounds  
**\*BT1** organic oxygen compounds  
**NT1** diaphorase  
**RT** coenzymes

**isoamyl acetate**

1996-10-23

(Prior to March 1997 ISOPENTYL ACETATE was used for this concept in ETDE.)

**USE** acetic acid esters

**isoamylase**

**USE** amylase  
**USE** isoenzymes

**ISOBAR MODEL**

**UF** *isobaric model*  
**\*BT1** particle models

**ISOBARIC ANALOGS**

**UF** *analog resonances (isobaric)*  
**UF** *analog states*  
**BT1** energy levels  
**RT** isobaric nuclei  
**RT** nolen-schiff anomaly

**isobaric model**

**USE** isobar model

**ISOBARIC NUCLEI**

*Nuclei having identical mass number.*

**BT1** nuclei  
**RT** isobaric analogs  
**RT** mirror nuclei

**isobaric spin**

**USE** isospin

**isobars (nucleon)**

**USE** n\*baryons

**isobutane**

**USE** 2-methylpropane

**isobutyl alcohol**

**USE** 2-methylpropanol

**ISOBUTYL RADICALS**

**\*BT1** alkyl radicals

**isobutylene**

**USE** 2-methylpropene

**ISOBUTYRIC ACID**

**\*BT1** monocarboxylic acids

**ISOCHRONOUS CYCLOTRONS**

1996-07-18

(APACHE, CHICAGO CYCLOTRON, and CRACOW C-48 CYCLOTRON have been valid ETDE descriptors.)

**UF** *apache*  
**UF** *chicago cyclotron*  
**UF** *cracow c-48 cyclotron*  
**UF** *sector cyclotron*

**\*BT1** cyclotrons  
**NT1** aabo cyclotron  
**NT1** alice cyclotron  
**NT1** brookhaven cyclotron  
**NT1** cracow aic-144 cyclotron  
**NT1** crnl superconducting cyclotron  
**NT1** cyclone cyclotron  
**NT1** debrecen cyclotron  
**NT1** eindhoven cyclotron  
**NT1** ganil cyclotron  
**NT1** grenoble cyclotron  
**NT1** haizy cyclotron  
**NT1** hirfl cyclotron  
**NT1** inr cyclotron  
**NT1** ipcr cyclotron  
**NT1** iu cyclotron  
**NT1** jinr cyclotrons  
**NT2** jinr u-400 cyclotron  
**NT1** julic cyclotron  
**NT1** karlsruhe cyclotron  
**NT1** kazakhstan cyclotron  
**NT1** kiev cyclotron  
**NT1** kvi cyclotron  
**NT1** milan superconducting cyclotron  
**NT1** msu cyclotrons  
**NT1** munich compact cyclotron  
**NT1** munich suse cyclotron  
**NT1** nac cyclotron  
**NT1** nirs cyclotron  
**NT1** nrl cyclotron  
**NT1** ornl isochronous cyclotron  
**NT1** orsay cyclotron  
**NT1** oslo cyclotron  
**NT1** princeton cyclotron  
**NT1** renp cyclotron  
**NT1** sara cyclotron  
**NT1** sin cyclotron  
**NT1** texas a and m cyclotron  
**NT1** texas superconducting cyclotron  
**NT1** tohoku cyclotron  
**NT1** tokyo ins cyclotron  
**NT1** triumf cyclotron

**NT1** ucrl cyclotrons  
**NT2** lbl 88-inch cyclotron  
**NT1** warsaw cyclotron  
**RT** vicksi accelerator

**ISOCYANATES**

1995-01-11

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

(Until January 1995 this concept was indexed to CYANATES.)

**UF** *isocyanic acid*  
**\*BT1** carbonic acid derivatives  
**BT1** nitrogen compounds  
**RT** cyanates  
**RT** oxygen compounds

**isocyanic acid**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

**USE** isocyanates

**ISOCYANIC ACID ESTERS**

2000-04-12

**\*BT1** esters

**ISODOSE CURVES**

**RT** depth dose distributions  
**RT** nonuniform irradiation  
**RT** phantoms  
**RT** radiation dose distributions  
**RT** radiotherapy  
**RT** spatial dose distributions

**ISOELECTRONIC ATOMS**

**BT1** atoms  
**RT** electronic structure

**ISOENZYMES**

**UF** *isoamylase*  
**BT1** organic compounds  
**RT** enzymes

**isolated locations**

INIS: 1994-10-13; ETDE: 1978-06-14

**USE** remote areas

**ISOLATION CONDENSERS**

1994-08-26

**\*BT1** steam condensers  
**RT** heat exchangers  
**RT** reactor cooling systems

**ISOMED**

INIS: 1975-11-07; ETDE: 1975-12-16

*Radiation Plant for Sterilization of Medical Products.*

**\*BT1** irradiation plants  
**RT** medical supplies  
**RT** radiosterilization  
**RT** surgical materials

**ISOMER RATIO**

INIS: 1986-05-23; ETDE: 1985-11-19

*Ratio of cross sections for populating excited and ground states of the same nuclide in a nuclear reaction.*

**BT1** dimensionless numbers  
**RT** isomeric nuclei

**ISOMER SHIFT**

*Property shift between the isomeric and the ground states of a nucleus.*

**RT** isomeric nuclei

**ISOMERASES**

Code number 5.

**\*BT1** enzymes  
**RT** isomerization  
**RT** isomers

*RT* racemization

### ISOMERIC NUCLEI

*BT1* nuclei  
*RT* fission isomers  
*RT* isomer ratio  
*RT* isomer shift  
*RT* isomeric transition isotopes  
*RT* isomeric transitions

### ISOMERIC TRANSITION ISOTOPES

1997-02-07

\**BT1* radioisotopes  
*NT1* actinium 222  
*NT1* aluminium 24  
*NT1* americium 242  
*NT1* antimony 113  
*NT1* antimony 117  
*NT1* antimony 122  
*NT1* antimony 124  
*NT1* antimony 126  
*NT1* antimony 131  
*NT1* arsenic 75  
*NT1* astatine 202  
*NT1* barium 127  
*NT1* barium 131  
*NT1* barium 133  
*NT1* barium 135  
*NT1* barium 136  
*NT1* barium 137  
*NT1* barium 138  
*NT1* bismuth 198  
*NT1* bismuth 201  
*NT1* bismuth 208  
*NT1* bismuth 211  
*NT1* bromine 76  
*NT1* bromine 77  
*NT1* bromine 79  
*NT1* bromine 80  
*NT1* bromine 82  
*NT1* bromine 83  
*NT1* cadmium 100  
*NT1* cadmium 111  
*NT1* cadmium 113  
*NT1* cerium 135  
*NT1* cerium 137  
*NT1* cerium 138  
*NT1* cerium 139  
*NT1* cesium 121  
*NT1* cesium 123  
*NT1* cesium 134  
*NT1* cesium 135  
*NT1* cesium 136  
*NT1* cesium 138  
*NT1* chlorine 34  
*NT1* chlorine 38  
*NT1* cobalt 58  
*NT1* cobalt 60  
*NT1* copper 68  
*NT1* darmstadtium 271  
*NT1* dysprosium 140  
*NT1* dysprosium 147  
*NT1* dysprosium 149  
*NT1* dysprosium 165  
*NT1* erbium 151  
*NT1* erbium 167  
*NT1* europium 141  
*NT1* europium 152  
*NT1* europium 154  
*NT1* fermium 250  
*NT1* fermium 256  
*NT1* fluorine 18  
*NT1* francium 206  
*NT1* francium 211  
*NT1* francium 212  
*NT1* francium 213  
*NT1* francium 218  
*NT1* gadolinium 141  
*NT1* gadolinium 145  
*NT1* gadolinium 147

*NT1* gadolinium 148  
*NT1* gallium 72  
*NT1* gallium 74  
*NT1* germanium 71  
*NT1* germanium 73  
*NT1* germanium 75  
*NT1* germanium 77  
*NT1* gold 191  
*NT1* gold 193  
*NT1* gold 195  
*NT1* gold 196  
*NT1* gold 197  
*NT1* gold 198  
*NT1* gold 200  
*NT1* hafnium 156  
*NT1* hafnium 177  
*NT1* hafnium 178  
*NT1* hafnium 179  
*NT1* hafnium 180  
*NT1* hafnium 182  
*NT1* holmium 148  
*NT1* holmium 156  
*NT1* holmium 158  
*NT1* holmium 159  
*NT1* holmium 160  
*NT1* holmium 161  
*NT1* holmium 162  
*NT1* holmium 163  
*NT1* holmium 164  
*NT1* holmium 168  
*NT1* indium 104  
*NT1* indium 107  
*NT1* indium 109  
*NT1* indium 111  
*NT1* indium 112  
*NT1* indium 113  
*NT1* indium 114  
*NT1* indium 115  
*NT1* indium 116  
*NT1* indium 117  
*NT1* indium 118  
*NT1* indium 119  
*NT1* indium 121  
*NT1* iodine 116  
*NT1* iodine 121  
*NT1* iodine 122  
*NT1* iodine 130  
*NT1* iodine 132  
*NT1* iodine 133  
*NT1* iodine 134  
*NT1* iridium 190  
*NT1* iridium 191  
*NT1* iridium 192  
*NT1* iridium 193  
*NT1* iridium 194  
*NT1* iron 53  
*NT1* krypton 79  
*NT1* krypton 81  
*NT1* krypton 83  
*NT1* krypton 84  
*NT1* krypton 85  
*NT1* krypton 86  
*NT1* lanthanum 132  
*NT1* lead 194  
*NT1* lead 197  
*NT1* lead 199  
*NT1* lead 200  
*NT1* lead 201  
*NT1* lead 202  
*NT1* lead 203  
*NT1* lead 204  
*NT1* lead 205  
*NT1* lead 207  
*NT1* lutetium 153  
*NT1* lutetium 154  
*NT1* lutetium 161  
*NT1* lutetium 169  
*NT1* lutetium 170  
*NT1* lutetium 171

*NT1* lutetium 172  
*NT1* lutetium 174  
*NT1* lutetium 177  
*NT1* manganese 60  
*NT1* mercury 193  
*NT1* mercury 195  
*NT1* mercury 197  
*NT1* mercury 199  
*NT1* mercury 201  
*NT1* molybdenum 89  
*NT1* molybdenum 91  
*NT1* molybdenum 92  
*NT1* molybdenum 93  
*NT1* molybdenum 94  
*NT1* neodymium 137  
*NT1* neodymium 139  
*NT1* neodymium 141  
*NT1* neptunium 237  
*NT1* niobium 86  
*NT1* niobium 90  
*NT1* niobium 91  
*NT1* niobium 93  
*NT1* niobium 94  
*NT1* niobium 95  
*NT1* niobium 97  
*NT1* nobelium 254  
*NT1* osmium 182  
*NT1* osmium 183  
*NT1* osmium 189  
*NT1* osmium 190  
*NT1* osmium 191  
*NT1* osmium 192  
*NT1* palladium 107  
*NT1* palladium 109  
*NT1* palladium 111  
*NT1* palladium 117  
*NT1* platinum 184  
*NT1* platinum 193  
*NT1* platinum 195  
*NT1* platinum 197  
*NT1* platinum 199  
*NT1* plutonium 237  
*NT1* polonium 201  
*NT1* polonium 203  
*NT1* polonium 207  
*NT1* polonium 210  
*NT1* potassium 40  
*NT1* praseodymium 142  
*NT1* praseodymium 144  
*NT1* promethium 148  
*NT1* protactinium 234  
*NT1* radium 213  
*NT1* radon 197  
*NT1* radon 210  
*NT1* radon 211  
*NT1* rhenium 167  
*NT1* rhenium 169  
*NT1* rhenium 184  
*NT1* rhenium 186  
*NT1* rhenium 188  
*NT1* rhenium 190  
*NT1* rhodium 100  
*NT1* rhodium 101  
*NT1* rhodium 103  
*NT1* rhodium 104  
*NT1* rhodium 105  
*NT1* rhodium 95  
*NT1* rhodium 96  
*NT1* rhodium 97  
*NT1* rubidium 76  
*NT1* rubidium 78  
*NT1* rubidium 81  
*NT1* rubidium 84  
*NT1* rubidium 85  
*NT1* rubidium 86  
*NT1* rubidium 90  
*NT1* ruthenium 93  
*NT1* samarium 139  
*NT1* samarium 141

NT1 samarium 143  
 NT1 scandium 44  
 NT1 scandium 46  
 NT1 scandium 50  
 NT1 selenium 73  
 NT1 selenium 77  
 NT1 selenium 79  
 NT1 selenium 81  
 NT1 silver 101  
 NT1 silver 102  
 NT1 silver 103  
 NT1 silver 105  
 NT1 silver 107  
 NT1 silver 108  
 NT1 silver 109  
 NT1 silver 110  
 NT1 silver 111  
 NT1 silver 113  
 NT1 silver 116  
 NT1 silver 118  
 NT1 silver 120  
 NT1 silver 99  
 NT1 sodium 22  
 NT1 sodium 24  
 NT1 strontium 83  
 NT1 strontium 85  
 NT1 strontium 87  
 NT1 tantalum 182  
 NT1 technetium 102  
 NT1 technetium 93  
 NT1 technetium 95  
 NT1 technetium 96  
 NT1 technetium 97  
 NT1 technetium 99  
 NT1 tellurium 121  
 NT1 tellurium 123  
 NT1 tellurium 125  
 NT1 tellurium 127  
 NT1 tellurium 129  
 NT1 tellurium 131  
 NT1 tellurium 133  
 NT1 terbium 144  
 NT1 terbium 146  
 NT1 terbium 151  
 NT1 terbium 152  
 NT1 terbium 154  
 NT1 terbium 156  
 NT1 terbium 158  
 NT1 thallium 179  
 NT1 thallium 185  
 NT1 thallium 186  
 NT1 thallium 187  
 NT1 thallium 193  
 NT1 thallium 195  
 NT1 thallium 196  
 NT1 thallium 197  
 NT1 thallium 198  
 NT1 thallium 201  
 NT1 thallium 206  
 NT1 thallium 207  
 NT1 thulium 150  
 NT1 thulium 162  
 NT1 thulium 164  
 NT1 tin 102  
 NT1 tin 113  
 NT1 tin 117  
 NT1 tin 119  
 NT1 tin 121  
 NT1 tin 129  
 NT1 tin 131  
 NT1 tungsten 179  
 NT1 tungsten 180  
 NT1 tungsten 183  
 NT1 tungsten 185  
 NT1 uranium 235  
 NT1 xenon 125  
 NT1 xenon 127  
 NT1 xenon 129  
 NT1 xenon 131

NT1 xenon 133  
 NT1 xenon 135  
 NT1 ytterbium 153  
 NT1 ytterbium 169  
 NT1 ytterbium 175  
 NT1 ytterbium 176  
 NT1 ytterbium 177  
 NT1 yttrium 86  
 NT1 yttrium 87  
 NT1 yttrium 88  
 NT1 yttrium 89  
 NT1 yttrium 90  
 NT1 yttrium 91  
 NT1 yttrium 93  
 NT1 yttrium 97  
 NT1 zinc 69  
 NT1 zirconium 85  
 NT1 zirconium 87  
 NT1 zirconium 89  
 NT1 zirconium 90  
 RT isomeric nuclei  
 RT isomeric transitions

### ISOMERIC TRANSITIONS

BT1 energy-level transitions  
 RT decay  
 RT isomeric nuclei  
 RT isomeric transition isotopes

### ISOMERIZATION

INIS: 1976-07-06; ETDE: 1976-09-14  
*Process for converting hydrocarbon or other organic compound to an isomer.*  
 UF tautomerism  
 BT1 chemical reactions  
 RT isomerases

### ISOMERS

*Only for geometrical isomers and stereoisomers in chemistry; see also ISOMERIC NUCLEI.*  
 NT1 enantiomorphs  
 RT isomerases  
 RT stereochemistry

### ISONIAZID

1996-07-18  
 UF iproniazid  
 \*BT1 antimicrobial agents  
 \*BT1 hydrazides  
 RT pyridines

### ISONITRILES

\*BT1 carbonic acid derivatives  
 RT nitriles

### isopentane

INIS: 1983-09-06; ETDE: 1979-09-26  
 USE 2-methylbutane

### isopentyl acetate

1996-10-23  
 (Until October 1996 this was a valid descriptor.)  
 USE acetic acid esters

### ISOPRENE

UF 2-methylbutadiene  
 \*BT1 dienes  
 RT polyisoprene

### isopropyl cresol

USE thymol

### ISOPROPYL ETHER

UF di-(2-propyl) ether  
 UF diisopropyl ether  
 \*BT1 ethers  
 RT organic solvents

### ISOPROPYL RADICALS

\*BT1 alkyl radicals

### isopropylbenzene

USE cumene

### isopropyltoluene-para

USE cymene

### ISOSPIN

1996-01-24

UF isobaric spin  
 UF isotopic spin  
 BT1 particle properties  
 RT charm particles  
 RT yang-mills theory

### ISOTACHOPHORESIS

INIS: 1993-08-03; ETDE: 1983-04-07  
*Migration of ion species of the same sign, all with a common counter-ion, under the influence of an electric field.*  
 BT1 electrophoresis

### isotherm

INIS: 2000-04-12; ETDE: 1976-08-24  
 (Prior to July 1985, this was a valid ETDE descriptor.)  
 USE isotherms

### ISOTHERMAL PROCESSES

UF processes (isothermal)  
 RT adiabatic processes  
 RT isentropic processes  
 RT thermodynamics

### ISOTHERMS

INIS: 1983-02-03; ETDE: 1983-03-07  
*Lines connecting points of equal temperature.*  
 UF geoisotherms  
 UF isotherm  
 NT1 adsorption isotherms  
 RT temperature distribution  
 RT temperature measurement

### ISOTHIOCYANATES

1995-01-11  
*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*  
 (Until January 1995 this concept was indexed to THIOCYANATES.)  
 \*BT1 carbonic acid derivatives  
 BT1 nitrogen compounds  
 \*BT1 organic sulfur compounds  
 RT thiocyanates

### isotones

USE isotonic nuclei

### ISOTONIC NUCLEI

*Nuclei having identical number of neutrons.*  
 UF isotones  
 BT1 nuclei

### ISOTONIC SOLUTIONS

INIS: 1981-02-27; ETDE: 1981-03-13  
*Solutions having the same osmotic pressure.*  
 \*BT1 solutions  
 RT hypertonic solutions  
 RT osmosis

### isotope analysis (quantitative)

1995-11-10  
 USE isotope ratio

### ISOTOPE APPLICATIONS

NT1 tracer techniques  
 NT2 dual-isotope subtraction technique  
 NT2 isotope dilution  
 NT2 labelled pool techniques  
 NT2 radioactive tracer logging  
 NT2 radioimmunoassay  
 NT3 radioimmunoassay

**NT3** radioimmunosciintigraphy  
**NT2** radioreceptor assay  
*RT* labelling  
*RT* radiocolloids  
**isotope composition**  
*USE* isotope ratio  
**isotope composition (quantitative)**  
*USE* isotope ratio  
**ISOTOPE DATING**  
*UF* argon method  
*UF* helium method  
*UF* lead method  
*UF* radiocarbon dating  
**BT1** age estimation  
*RT* carbon 14  
**ISOTOPE DILUTION**  
**\*BT1** tracer techniques  
*RT* dilution  
*RT* quantitative chemical analysis  
*RT* substoichiometry  
**ISOTOPE EFFECTS**  
*UF* isotopic effects  
*RT* isotopes  
*RT* isotopic exchange  
**ISOTOPE ENRICHED MATERIALS**  
*UF* enriched materials (isotopes)  
**BT1** materials  
**NT1** enriched uranium  
**NT2** highly enriched uranium  
**NT2** moderately enriched uranium  
**NT2** slightly enriched uranium  
*RT* gas centrifugation  
*RT* isotope separation  
*RT* isotopic exchange  
**isotope enrichment**  
*USE* isotope separation  
**isotope exchange**  
*USE* isotopic exchange  
**ISOTOPE PRODUCTION**  
*UF* production (isotope)  
*RT* accelerators  
*RT* isotope production reactors  
*RT* isotopes  
*RT* production  
*RT* radioisotope generators  
*RT* transmutation  
**ISOTOPE PRODUCTION REACTORS**  
1995-01-10  
For the production of radioisotopes to be used in medicine, agriculture, industry, etc.; for the production of fissile materials, see also PRODUCTION REACTORS, and for the production of tritium, see also TRITIUM PRODUCTION REACTORS.  
**\*BT1** irradiation reactors  
**NT1** afri reactor  
**NT1** ai-l-77 reactor  
**NT1** alrr reactor  
**NT1** apsara reactor  
**NT1** astra reactor  
**NT1** atrp reactor  
**NT1** bepo reactor  
**NT1** ber-2 reactor  
**NT1** bgrr reactor  
**NT1** brr reactor  
**NT1** byu l-77 reactor  
**NT1** celestin reactor  
**NT1** cesnef reactor  
**NT1** cirus reactor  
**NT1** consort-2 reactor  
**NT1** cp-5 reactor  
**NT1** dhruva reactor

**NT1** dido reactor  
**NT1** dmtr reactor  
**NT1** dow triga-mk-1 reactor  
**NT1** dr-2 reactor  
**NT1** dr-3 reactor  
**NT1** el-1 reactor  
**NT1** el-2 reactor  
**NT1** el-3 reactor  
**NT1** etr reactor  
**NT1** ewa reactor  
**NT1** fir-1 reactor  
**NT1** fir reactor  
**NT1** fr-2 reactor  
**NT1** firf reactor  
**NT1** fig-2 reactor  
**NT1** firj-2 reactor  
**NT1** getr reactor  
**NT1** gtrr reactor  
**NT1** gulf triga-mk-3 reactor  
**NT1** hanaro reactor  
**NT1** hfir reactor  
**NT1** hifar reactor  
**NT1** htr reactor  
**NT1** hwrr reactor  
**NT1** ian-r1 reactor  
**NT1** irt-c reactor  
**NT1** irt-f reactor  
**NT1** irt reactor  
**NT1** irt-sofia reactor  
**NT1** ispra-1 reactor  
**NT1** jeep-2 reactor  
**NT1** jrr-1 reactor  
**NT1** jrr-3 reactor  
**NT1** jrr-3m reactor  
**NT1** kuhfr reactor  
**NT1** lptr reactor  
**NT1** maria reactor  
**NT1** melusine-1 reactor  
**NT1** mnr reactor  
**NT1** mrr reactor  
**NT1** nru reactor  
**NT1** nrx reactor  
**NT1** opal reactor  
**NT1** ostr reactor  
**NT1** pulstar-buffalo reactor  
**NT1** r-1 reactor  
**NT1** r-a reactor  
**NT1** r2-0 reactor  
**NT1** rtp reactor  
**NT1** rts-1 reactor  
**NT1** siloe reactor  
**NT1** slowpoke type reactors  
**NT2** slowpoke-alberta reactor  
**NT2** slowpoke-dalhousie reactor  
**NT2** slowpoke-montreal reactor  
**NT2** slowpoke-ottawa reactor  
**NT2** slowpoke-toronto reactor  
**NT2** slowpoke-wvre reactor  
**NT1** taiwan research reactor  
**NT1** thetis reactor  
**NT1** thor reactor  
**NT1** tr-1 reactor  
**NT1** trico reactor  
**NT1** triga-1-california reactor  
**NT1** triga-1-hanover reactor  
**NT1** triga-1-michigan reactor  
**NT1** triga-2-bandung reactor  
**NT1** triga-2-bangladesh reactor  
**NT1** triga-2-dalat reactor  
**NT1** triga-2-illinois reactor  
**NT1** triga-2-kansas reactor  
**NT1** triga-2-ljubljana reactor  
**NT1** triga-2-mainz reactor  
**NT1** triga-2-musashi reactor  
**NT1** triga-2-pavia reactor  
**NT1** triga-2-pitesti reactor  
**NT1** triga-2 reactor  
**NT1** triga-2-rikkyo reactor  
**NT1** triga-2-rome reactor

**NT1** triga-2-seoul reactor  
**NT1** triga-2-vienna reactor  
**NT1** triga-3-munich reactor  
**NT1** triga-3-salazar reactor  
**NT1** triga-3-seoul reactor  
**NT1** triga-brazil reactor  
**NT1** triga-texas reactor  
**NT1** triga-veterans reactor  
**NT1** tz1 reactor  
**NT1** ucbr reactor  
**NT1** ufr reactor  
**NT1** uknr reactor  
**NT1** uvar reactor  
**NT1** uwnr reactor  
**NT1** wtr reactor  
**NT1** wwr-2 reactor  
**NT1** wwr-m-kiev reactor  
**NT1** wwr-m-leningrad reactor  
**NT1** wwr-s-budapest reactor  
**NT1** wwr-s-moscow reactor  
**NT1** wwr-sm rossendorf reactor  
**NT1** x-10 reactor  
*RT* isotope production

### ISOTOPE RATIO

*UF* abundance (isotopic)  
*UF* isotope analysis (quantitative)  
*UF* isotope composition  
*UF* isotope composition (quantitative)  
*UF* isotopic analysis (quantitative)  
*UF* isotopic composition (quantitative)  
**BT1** dimensionless numbers  
*RT* abundance  
*RT* element abundance  
*RT* isotopes  
*RT* natural occurrence

### ISOTOPE SEPARATION

For separation of isotopes of the same element only.

*UF* column separation (isotopes)  
*UF* depletion (isotopic)  
*UF* enrichment (isotopic)  
*UF* enrichment (uranium)  
*UF* isotope enrichment  
*UF* isotopic separation  
*UF* uranium enrichment  
**BT1** separation processes  
**NT1** dual temperature process  
**NT1** electromagnetic isotope separation  
**NT1** gas centrifugation  
**NT1** gaseous diffusion process  
**NT1** laser isotope separation  
**NT1** separation nozzle method  
*RT* centrifugation  
*RT* electromagnetic isotope separators  
*RT* enrichment  
*RT* gas centrifuges  
*RT* heavy water plants  
*RT* isotope enriched materials  
*RT* isotope separators  
*RT* isotopes  
*RT* plasma centrifuges  
*RT* portsmouth centrifuge enrichment plant  
*RT* radioisotope generators  
*RT* thermal diffusion  
*RT* ultracentrifuges

### ISOTOPE SEPARATION PLANTS

INIS: 1976-04-03; ETDE: 1976-05-17

*UF* uranium enrichment plants  
**BT1** industrial plants  
**BT1** nuclear facilities  
**NT1** centrifuge enrichment plants  
**NT2** portsmouth centrifuge enrichment plant  
**NT1** gaseous diffusion plants  
**NT2** cogema pierrelatte  
**NT2** orgdp

NT2 paducah plant  
 NT2 portsmouth gaseous diffusion plant  
 NT1 heavy water plants  
 NT1 tritium extraction plants  
 RT isotope separators

**ISOTOPE SEPARATORS**

1994-04-12

UF cern isolate

\*BT1 separation equipment

RT isotope separation

RT isotope separation plants

**isotope shift**

USE spectral shift

**ISOTOPES**

(From October 1976 till February 1997

ALKALI METAL ISOTOPES was a valid

ETDE descriptor.)

UF alkali metal isotopes

UF nuclides

NT1 actinium isotopes

NT2 actinium 207

NT2 actinium 208

NT2 actinium 209

NT2 actinium 210

NT2 actinium 211

NT2 actinium 212

NT2 actinium 213

NT2 actinium 214

NT2 actinium 215

NT2 actinium 216

NT2 actinium 217

NT2 actinium 218

NT2 actinium 219

NT2 actinium 220

NT2 actinium 221

NT2 actinium 222

NT2 actinium 223

NT2 actinium 224

NT2 actinium 225

NT2 actinium 226

NT2 actinium 227

NT2 actinium 228

NT2 actinium 229

NT2 actinium 230

NT2 actinium 231

NT2 actinium 232

NT2 actinium 233

NT2 actinium 234

NT1 alkaline earth isotopes

NT2 barium isotopes

NT3 barium 114

NT3 barium 115

NT3 barium 116

NT3 barium 117

NT3 barium 118

NT3 barium 119

NT3 barium 120

NT3 barium 121

NT3 barium 122

NT3 barium 123

NT3 barium 124

NT3 barium 125

NT3 barium 126

NT3 barium 127

NT3 barium 128

NT3 barium 129

NT3 barium 130

NT3 barium 131

NT3 barium 132

NT3 barium 133

NT3 barium 134

NT3 barium 135

NT3 barium 136

NT3 barium 137

NT3 barium 138

NT3 barium 139

NT3 barium 140

NT3 barium 141

NT3 barium 142

NT3 barium 143

NT3 barium 144

NT3 barium 145

NT3 barium 146

NT3 barium 147

NT3 barium 148

NT3 barium 149

NT2 beryllium isotopes

NT3 beryllium 10

NT3 beryllium 11

NT3 beryllium 12

NT3 beryllium 13

NT3 beryllium 14

NT3 beryllium 5

NT3 beryllium 6

NT3 beryllium 7

NT3 beryllium 8

NT3 beryllium 9

NT2 calcium isotopes

NT3 calcium 35

NT3 calcium 36

NT3 calcium 37

NT3 calcium 38

NT3 calcium 39

NT3 calcium 40

NT3 calcium 41

NT3 calcium 42

NT3 calcium 43

NT3 calcium 44

NT3 calcium 45

NT3 calcium 46

NT3 calcium 47

NT3 calcium 48

NT3 calcium 49

NT3 calcium 50

NT3 calcium 51

NT3 calcium 52

NT3 calcium 53

NT2 magnesium isotopes

NT3 magnesium 19

NT3 magnesium 20

NT3 magnesium 21

NT3 magnesium 22

NT3 magnesium 23

NT3 magnesium 24

NT3 magnesium 25

NT3 magnesium 26

NT3 magnesium 27

NT3 magnesium 28

NT3 magnesium 29

NT3 magnesium 30

NT3 magnesium 31

NT3 magnesium 32

NT3 magnesium 33

NT3 magnesium 34

NT3 magnesium 35

NT3 magnesium 36

NT3 magnesium 39

NT3 magnesium 40

NT2 radium isotopes

NT3 radium 205

NT3 radium 206

NT3 radium 207

NT3 radium 208

NT3 radium 209

NT3 radium 210

NT3 radium 211

NT3 radium 212

NT3 radium 213

NT3 radium 214

NT3 radium 215

NT3 radium 216

NT3 radium 217

NT3 radium 218

NT3 radium 219

NT3 radium 220

NT3 radium 221

NT3 radium 222

NT3 radium 223

NT3 radium 224

NT3 radium 225

NT3 radium 226

NT3 radium 227

NT3 radium 228

NT3 radium 229

NT3 radium 230

NT3 radium 231

NT3 radium 232

NT3 radium 233

NT3 radium 234

NT2 strontium isotopes

NT3 strontium 100

NT3 strontium 101

NT3 strontium 102

NT3 strontium 75

NT3 strontium 76

NT3 strontium 77

NT3 strontium 78

NT3 strontium 79

NT3 strontium 80

NT3 strontium 81

NT3 strontium 82

NT3 strontium 83

NT3 strontium 84

NT3 strontium 85

NT3 strontium 86

NT3 strontium 87

NT3 strontium 88

NT3 strontium 89

NT3 strontium 90

NT3 strontium 91

NT3 strontium 92

NT3 strontium 93

NT3 strontium 94

NT3 strontium 95

NT3 strontium 96

NT3 strontium 97

NT3 strontium 98

NT3 strontium 99

NT1 aluminium isotopes

NT2 aluminium 22

NT2 aluminium 23

NT2 aluminium 24

NT2 aluminium 25

NT2 aluminium 26

NT2 aluminium 27

NT2 aluminium 28

NT2 aluminium 29

NT2 aluminium 30

NT2 aluminium 31

NT2 aluminium 32

NT2 aluminium 33

NT2 aluminium 34

NT2 aluminium 35

NT2 aluminium 36

NT2 aluminium 37

NT2 aluminium 38

NT2 aluminium 39

NT2 aluminium 40

NT1 americium isotopes

NT2 americium 232

NT2 americium 233

NT2 americium 234

NT2 americium 235

NT2 americium 236

NT2 americium 237

NT2 americium 238

NT2 americium 239

NT2 americium 240

NT2 americium 241

NT2 americium 242

NT2 americium 243

NT2 americium 244

NT2 americium 245

NT2 americium 246

NT2 americium 247



**NT1** antimony isotopes  
**NT2** antimony 104  
**NT2** antimony 105  
**NT2** antimony 106  
**NT2** antimony 107  
**NT2** antimony 108  
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**NT2** antimony 111  
**NT2** antimony 112  
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**NT2** antimony 131  
**NT2** antimony 132  
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**NT2** antimony 134  
**NT2** antimony 135  
**NT2** antimony 136  
**NT1** argon isotopes  
**NT2** argon 31  
**NT2** argon 32  
**NT2** argon 33  
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**NT2** argon 36  
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**NT2** argon 46  
**NT2** argon 47  
**NT2** argon 49  
**NT2** argon 50  
**NT2** argon 51  
**NT1** arsenic isotopes  
**NT2** arsenic 64  
**NT2** arsenic 65  
**NT2** arsenic 66  
**NT2** arsenic 67  
**NT2** arsenic 68  
**NT2** arsenic 69  
**NT2** arsenic 70  
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**NT2** arsenic 82  
**NT2** arsenic 83  
**NT2** arsenic 84  
**NT2** arsenic 85  
**NT2** arsenic 86

**NT2** arsenic 87  
**NT1** astatine isotopes  
**NT2** astatine 191  
**NT2** astatine 193  
**NT2** astatine 194  
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**NT2** astatine 221  
**NT2** astatine 222  
**NT2** astatine 223  
**NT1** berkelium isotopes  
**NT2** berkelium 240  
**NT2** berkelium 241  
**NT2** berkelium 242  
**NT2** berkelium 243  
**NT2** berkelium 244  
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**NT2** berkelium 249  
**NT2** berkelium 250  
**NT2** berkelium 251  
**NT1** bismuth isotopes  
**NT2** bismuth 186  
**NT2** bismuth 188  
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**NT2** bismuth 215  
**NT2** bismuth 216  
**NT1** bohrium isotopes

**NT2** bohrium 261  
**NT2** bohrium 262  
**NT2** bohrium 264  
**NT2** bohrium 265  
**NT2** bohrium 271  
**NT1** boron isotopes  
**NT2** boron 10  
**NT2** boron 11  
**NT2** boron 12  
**NT2** boron 13  
**NT2** boron 14  
**NT2** boron 15  
**NT2** boron 16  
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**NT2** boron 18  
**NT2** boron 19  
**NT2** boron 7  
**NT2** boron 8  
**NT2** boron 9  
**NT1** bromine isotopes  
**NT2** bromine 69  
**NT2** bromine 70  
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**NT2** bromine 91  
**NT2** bromine 92  
**NT2** bromine 93  
**NT1** cadmium isotopes  
**NT2** cadmium 100  
**NT2** cadmium 101  
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**NT2** cadmium 128  
**NT2** cadmium 130  
**NT2** cadmium 96  
**NT2** cadmium 97  
**NT2** cadmium 98

NT2	cadmium 99	NT2	cesium 122	NT2	cobalt 53
NT1	californium isotopes	NT2	cesium 123	NT2	cobalt 54
NT2	californium 238	NT2	cesium 124	NT2	cobalt 55
NT2	californium 239	NT2	cesium 125	NT2	cobalt 56
NT2	californium 240	NT2	cesium 126	NT2	cobalt 57
NT2	californium 241	NT2	cesium 127	NT2	cobalt 58
NT2	californium 242	NT2	cesium 128	NT2	cobalt 59
NT2	californium 243	NT2	cesium 129	NT2	cobalt 60
NT2	californium 244	NT2	cesium 130	NT2	cobalt 61
NT2	californium 245	NT2	cesium 131	NT2	cobalt 62
NT2	californium 246	NT2	cesium 132	NT2	cobalt 63
NT2	californium 247	NT2	cesium 133	NT2	cobalt 64
NT2	californium 248	NT2	cesium 134	NT2	cobalt 65
NT2	californium 249	NT2	cesium 135	NT2	cobalt 66
NT2	californium 250	NT2	cesium 136	NT2	cobalt 67
NT2	californium 251	NT2	cesium 137	NT2	cobalt 68
NT2	californium 252	NT2	cesium 138	NT2	cobalt 69
NT2	californium 253	NT2	cesium 139	NT2	cobalt 70
NT2	californium 254	NT2	cesium 140	NT1	copper isotopes
NT2	californium 255	NT2	cesium 141	NT2	copper 56
NT2	californium 256	NT2	cesium 142	NT2	copper 57
NT1	carbon isotopes	NT2	cesium 143	NT2	copper 58
NT2	carbon 10	NT2	cesium 144	NT2	copper 59
NT2	carbon 11	NT2	cesium 145	NT2	copper 60
NT2	carbon 12	NT2	cesium 146	NT2	copper 61
NT2	carbon 13	NT2	cesium 147	NT2	copper 62
NT2	carbon 14	NT2	cesium 148	NT2	copper 63
NT2	carbon 15	NT2	cesium 149	NT2	copper 64
NT2	carbon 16	NT2	cesium 150	NT2	copper 65
NT2	carbon 17	NT1	chlorine isotopes	NT2	copper 66
NT2	carbon 18	NT2	chlorine 31	NT2	copper 67
NT2	carbon 19	NT2	chlorine 32	NT2	copper 68
NT2	carbon 20	NT2	chlorine 33	NT2	copper 69
NT2	carbon 22	NT2	chlorine 34	NT2	copper 70
NT2	carbon 8	NT2	chlorine 35	NT2	copper 71
NT2	carbon 9	NT2	chlorine 36	NT2	copper 72
NT1	carrier-free isotopes	NT2	chlorine 37	NT2	copper 73
NT1	cerium isotopes	NT2	chlorine 38	NT2	copper 74
NT2	cerium 121	NT2	chlorine 39	NT2	copper 75
NT2	cerium 123	NT2	chlorine 40	NT2	copper 76
NT2	cerium 124	NT2	chlorine 41	NT2	copper 77
NT2	cerium 125	NT2	chlorine 42	NT2	copper 78
NT2	cerium 126	NT2	chlorine 43	NT2	copper 79
NT2	cerium 127	NT2	chlorine 44	NT1	curium isotopes
NT2	cerium 128	NT2	chlorine 45	NT2	curium 232
NT2	cerium 129	NT2	chlorine 46	NT2	curium 236
NT2	cerium 130	NT2	chlorine 47	NT2	curium 237
NT2	cerium 131	NT2	chlorine 48	NT2	curium 238
NT2	cerium 132	NT2	chlorine 49	NT2	curium 239
NT2	cerium 133	NT2	chlorine 51	NT2	curium 240
NT2	cerium 134	NT1	chromium isotopes	NT2	curium 241
NT2	cerium 135	NT2	chromium 42	NT2	curium 242
NT2	cerium 136	NT2	chromium 43	NT2	curium 243
NT2	cerium 137	NT2	chromium 44	NT2	curium 244
NT2	cerium 138	NT2	chromium 45	NT2	curium 245
NT2	cerium 139	NT2	chromium 46	NT2	curium 246
NT2	cerium 140	NT2	chromium 47	NT2	curium 247
NT2	cerium 141	NT2	chromium 48	NT2	curium 248
NT2	cerium 142	NT2	chromium 49	NT2	curium 249
NT2	cerium 143	NT2	chromium 50	NT2	curium 250
NT2	cerium 144	NT2	chromium 51	NT2	curium 251
NT2	cerium 145	NT2	chromium 52	NT2	curium 252
NT2	cerium 146	NT2	chromium 53	NT1	darmstadtium isotopes
NT2	cerium 147	NT2	chromium 54	NT2	darmstadtium 269
NT2	cerium 148	NT2	chromium 55	NT2	darmstadtium 270
NT2	cerium 149	NT2	chromium 56	NT2	darmstadtium 271
NT2	cerium 150	NT2	chromium 57	NT1	daughter products
NT2	cerium 151	NT2	chromium 58	NT1	dubnium isotopes
NT2	cerium 152	NT2	chromium 59	NT2	dubnium 255
NT1	cesium isotopes	NT2	chromium 60	NT2	dubnium 256
NT2	cesium 113	NT2	chromium 61	NT2	dubnium 257
NT2	cesium 114	NT2	chromium 62	NT2	dubnium 258
NT2	cesium 115	NT2	chromium 63	NT2	dubnium 259
NT2	cesium 116	NT2	chromium 64	NT2	dubnium 260
NT2	cesium 117	NT2	chromium 65	NT2	dubnium 261
NT2	cesium 118	NT2	chromium 66	NT2	dubnium 262
NT2	cesium 119	NT1	cobalt isotopes	NT2	dubnium 263
NT2	cesium 120	NT2	cobalt 50	NT1	dysprosium isotopes
NT2	cesium 121	NT2	cobalt 52	NT2	dysprosium 140

NT2	dysprosium 141	NT2	europium 134	NT2	francium 212
NT2	dysprosium 142	NT2	europium 135	NT2	francium 213
NT2	dysprosium 143	NT2	europium 136	NT2	francium 214
NT2	dysprosium 144	NT2	europium 137	NT2	francium 215
NT2	dysprosium 145	NT2	europium 138	NT2	francium 216
NT2	dysprosium 146	NT2	europium 139	NT2	francium 217
NT2	dysprosium 147	NT2	europium 140	NT2	francium 218
NT2	dysprosium 148	NT2	europium 141	NT2	francium 219
NT2	dysprosium 149	NT2	europium 142	NT2	francium 220
NT2	dysprosium 150	NT2	europium 143	NT2	francium 221
NT2	dysprosium 151	NT2	europium 144	NT2	francium 222
NT2	dysprosium 152	NT2	europium 145	NT2	francium 223
NT2	dysprosium 153	NT2	europium 146	NT2	francium 224
NT2	dysprosium 154	NT2	europium 147	NT2	francium 225
NT2	dysprosium 155	NT2	europium 148	NT2	francium 226
NT2	dysprosium 156	NT2	europium 149	NT2	francium 227
NT2	dysprosium 157	NT2	europium 150	NT2	francium 228
NT2	dysprosium 158	NT2	europium 151	NT2	francium 229
NT2	dysprosium 159	NT2	europium 152	NT2	francium 230
NT2	dysprosium 160	NT2	europium 153	NT2	francium 231
NT2	dysprosium 161	NT2	europium 154	NT2	francium 232
NT2	dysprosium 162	NT2	europium 155	NT1	gadolinium isotopes
NT2	dysprosium 163	NT2	europium 156	NT2	gadolinium 135
NT2	dysprosium 164	NT2	europium 157	NT2	gadolinium 137
NT2	dysprosium 165	NT2	europium 158	NT2	gadolinium 138
NT2	dysprosium 166	NT2	europium 159	NT2	gadolinium 139
NT2	dysprosium 167	NT2	europium 160	NT2	gadolinium 140
NT2	dysprosium 168	NT2	europium 161	NT2	gadolinium 141
NT2	dysprosium 169	NT2	europium 162	NT2	gadolinium 142
NT1	einsteinium isotopes	NT1	fermium isotopes	NT2	gadolinium 143
NT2	einsteinium 243	NT2	fermium 242	NT2	gadolinium 144
NT2	einsteinium 244	NT2	fermium 243	NT2	gadolinium 145
NT2	einsteinium 245	NT2	fermium 244	NT2	gadolinium 146
NT2	einsteinium 246	NT2	fermium 245	NT2	gadolinium 147
NT2	einsteinium 247	NT2	fermium 246	NT2	gadolinium 148
NT2	einsteinium 248	NT2	fermium 247	NT2	gadolinium 149
NT2	einsteinium 249	NT2	fermium 248	NT2	gadolinium 150
NT2	einsteinium 250	NT2	fermium 249	NT2	gadolinium 151
NT2	einsteinium 251	NT2	fermium 250	NT2	gadolinium 152
NT2	einsteinium 252	NT2	fermium 251	NT2	gadolinium 153
NT2	einsteinium 253	NT2	fermium 252	NT2	gadolinium 154
NT2	einsteinium 254	NT2	fermium 253	NT2	gadolinium 155
NT2	einsteinium 255	NT2	fermium 254	NT2	gadolinium 156
NT2	einsteinium 256	NT2	fermium 255	NT2	gadolinium 157
NT1	erbium isotopes	NT2	fermium 256	NT2	gadolinium 158
NT2	erbium 145	NT2	fermium 257	NT2	gadolinium 159
NT2	erbium 146	NT2	fermium 258	NT2	gadolinium 160
NT2	erbium 147	NT2	fermium 259	NT2	gadolinium 161
NT2	erbium 148	NT1	fission products	NT2	gadolinium 162
NT2	erbium 149	NT1	fluorine isotopes	NT2	gadolinium 163
NT2	erbium 150	NT2	fluorine 14	NT2	gadolinium 164
NT2	erbium 151	NT2	fluorine 15	NT2	gadolinium 165
NT2	erbium 152	NT2	fluorine 16	NT1	gallium isotopes
NT2	erbium 153	NT2	fluorine 17	NT2	gallium 60
NT2	erbium 154	NT2	fluorine 18	NT2	gallium 61
NT2	erbium 155	NT2	fluorine 19	NT2	gallium 62
NT2	erbium 156	NT2	fluorine 20	NT2	gallium 63
NT2	erbium 157	NT2	fluorine 21	NT2	gallium 64
NT2	erbium 158	NT2	fluorine 22	NT2	gallium 65
NT2	erbium 159	NT2	fluorine 23	NT2	gallium 66
NT2	erbium 160	NT2	fluorine 24	NT2	gallium 67
NT2	erbium 161	NT2	fluorine 25	NT2	gallium 68
NT2	erbium 162	NT2	fluorine 26	NT2	gallium 69
NT2	erbium 163	NT2	fluorine 27	NT2	gallium 70
NT2	erbium 164	NT2	fluorine 29	NT2	gallium 71
NT2	erbium 165	NT1	francium isotopes	NT2	gallium 72
NT2	erbium 166	NT2	francium 199	NT2	gallium 73
NT2	erbium 167	NT2	francium 200	NT2	gallium 74
NT2	erbium 168	NT2	francium 201	NT2	gallium 75
NT2	erbium 169	NT2	francium 202	NT2	gallium 76
NT2	erbium 170	NT2	francium 203	NT2	gallium 77
NT2	erbium 171	NT2	francium 204	NT2	gallium 78
NT2	erbium 172	NT2	francium 205	NT2	gallium 79
NT2	erbium 173	NT2	francium 206	NT2	gallium 80
NT2	erbium 174	NT2	francium 207	NT2	gallium 81
NT2	erbium 175	NT2	francium 208	NT2	gallium 82
NT1	europium isotopes	NT2	francium 209	NT2	gallium 83
NT2	europium 130	NT2	francium 210	NT2	gallium 84
NT2	europium 131	NT2	francium 211	NT1	germanium isotopes

NT2	germanium 61	NT2	hafnium 171	NT2	indium 100
NT2	germanium 62	NT2	hafnium 172	NT2	indium 101
NT2	germanium 64	NT2	hafnium 173	NT2	indium 102
NT2	germanium 65	NT2	hafnium 174	NT2	indium 103
NT2	germanium 66	NT2	hafnium 175	NT2	indium 104
NT2	germanium 67	NT2	hafnium 176	NT2	indium 105
NT2	germanium 68	NT2	hafnium 177	NT2	indium 106
NT2	germanium 69	NT2	hafnium 178	NT2	indium 107
NT2	germanium 70	NT2	hafnium 179	NT2	indium 108
NT2	germanium 71	NT2	hafnium 180	NT2	indium 109
NT2	germanium 72	NT2	hafnium 181	NT2	indium 110
NT2	germanium 73	NT2	hafnium 182	NT2	indium 111
NT2	germanium 74	NT2	hafnium 183	NT2	indium 112
NT2	germanium 75	NT2	hafnium 184	NT2	indium 113
NT2	germanium 76	NT2	hafnium 185	NT2	indium 114
NT2	germanium 77	NT2	hafnium 186	NT2	indium 115
NT2	germanium 78	NT1	hassium isotopes	NT2	indium 116
NT2	germanium 79	NT2	hassium 264	NT2	indium 117
NT2	germanium 80	NT2	hassium 265	NT2	indium 118
NT2	germanium 81	NT2	hassium 266	NT2	indium 119
NT2	germanium 82	NT2	hassium 267	NT2	indium 120
NT2	germanium 83	NT2	hassium 270	NT2	indium 121
NT2	germanium 84	NT2	hassium 271	NT2	indium 122
NT2	germanium 85	NT1	helium isotopes	NT2	indium 123
NT1	gold isotopes	NT2	helium 10	NT2	indium 124
NT2	gold 170	NT2	helium 2	NT2	indium 125
NT2	gold 171	NT2	helium 3	NT2	indium 126
NT2	gold 172	NT3	helium 3 a	NT2	indium 127
NT2	gold 173	NT3	helium 3 a1	NT2	indium 128
NT2	gold 174	NT3	helium 3 b	NT2	indium 129
NT2	gold 175	NT2	helium 4	NT2	indium 130
NT2	gold 176	NT3	helium i	NT2	indium 131
NT2	gold 177	NT3	helium ii	NT2	indium 132
NT2	gold 178	NT2	helium 5	NT2	indium 133
NT2	gold 179	NT2	helium 6	NT2	indium 134
NT2	gold 180	NT2	helium 7	NT2	indium 135
NT2	gold 181	NT2	helium 8	NT1	iodine isotopes
NT2	gold 182	NT2	helium 9	NT2	iodine 108
NT2	gold 183	NT1	holmium isotopes	NT2	iodine 109
NT2	gold 184	NT2	holmium 141	NT2	iodine 110
NT2	gold 185	NT2	holmium 143	NT2	iodine 111
NT2	gold 186	NT2	holmium 144	NT2	iodine 112
NT2	gold 187	NT2	holmium 145	NT2	iodine 113
NT2	gold 188	NT2	holmium 146	NT2	iodine 114
NT2	gold 189	NT2	holmium 147	NT2	iodine 115
NT2	gold 190	NT2	holmium 148	NT2	iodine 116
NT2	gold 191	NT2	holmium 149	NT2	iodine 117
NT2	gold 192	NT2	holmium 150	NT2	iodine 118
NT2	gold 193	NT2	holmium 151	NT2	iodine 119
NT2	gold 194	NT2	holmium 152	NT2	iodine 120
NT2	gold 195	NT2	holmium 153	NT2	iodine 121
NT2	gold 196	NT2	holmium 154	NT2	iodine 122
NT2	gold 197	NT2	holmium 155	NT2	iodine 123
NT2	gold 198	NT2	holmium 156	NT2	iodine 124
NT2	gold 199	NT2	holmium 157	NT2	iodine 125
NT2	gold 200	NT2	holmium 158	NT2	iodine 126
NT2	gold 201	NT2	holmium 159	NT2	iodine 127
NT2	gold 202	NT2	holmium 160	NT2	iodine 128
NT2	gold 203	NT2	holmium 161	NT2	iodine 129
NT2	gold 204	NT2	holmium 162	NT2	iodine 130
NT2	gold 205	NT2	holmium 163	NT2	iodine 131
NT1	hafnium isotopes	NT2	holmium 164	NT2	iodine 132
NT2	hafnium 154	NT2	holmium 165	NT2	iodine 133
NT2	hafnium 155	NT2	holmium 166	NT2	iodine 134
NT2	hafnium 156	NT2	holmium 167	NT2	iodine 135
NT2	hafnium 157	NT2	holmium 168	NT2	iodine 136
NT2	hafnium 158	NT2	holmium 169	NT2	iodine 137
NT2	hafnium 159	NT2	holmium 170	NT2	iodine 138
NT2	hafnium 160	NT2	holmium 171	NT2	iodine 139
NT2	hafnium 161	NT2	holmium 172	NT2	iodine 140
NT2	hafnium 162	NT1	hydrogen isotopes	NT2	iodine 141
NT2	hafnium 163	NT2	deuterium	NT2	iodine 142
NT2	hafnium 164	NT2	hydrogen 1	NT1	iridium isotopes
NT2	hafnium 165	NT2	hydrogen 4	NT2	iridium 166
NT2	hafnium 166	NT2	hydrogen 5	NT2	iridium 167
NT2	hafnium 167	NT2	hydrogen 6	NT2	iridium 168
NT2	hafnium 168	NT2	hydrogen 7	NT2	iridium 169
NT2	hafnium 169	NT2	tritium	NT2	iridium 170
NT2	hafnium 170	NT1	indium isotopes	NT2	iridium 171

NT2	iridium 172	NT2	krypton 94	NT2	lead 209
NT2	iridium 173	NT2	krypton 95	NT2	lead 210
NT2	iridium 174	NT2	krypton 96	NT2	lead 211
NT2	iridium 175	NT2	krypton 97	NT2	lead 212
NT2	iridium 176	NT2	krypton 98	NT2	lead 213
NT2	iridium 177	NT1	lanthanum isotopes	NT2	lead 214
NT2	iridium 178	NT2	lanthanum 120	NT2	lead 215
NT2	iridium 179	NT2	lanthanum 121	NT2	lead 216
NT2	iridium 180	NT2	lanthanum 122	NT1	lithium isotopes
NT2	iridium 181	NT2	lanthanum 123	NT2	lithium 10
NT2	iridium 182	NT2	lanthanum 124	NT2	lithium 11
NT2	iridium 183	NT2	lanthanum 125	NT2	lithium 12
NT2	iridium 184	NT2	lanthanum 126	NT2	lithium 13
NT2	iridium 185	NT2	lanthanum 127	NT2	lithium 3
NT2	iridium 186	NT2	lanthanum 128	NT2	lithium 4
NT2	iridium 187	NT2	lanthanum 129	NT2	lithium 5
NT2	iridium 188	NT2	lanthanum 130	NT2	lithium 6
NT2	iridium 189	NT2	lanthanum 131	NT2	lithium 7
NT2	iridium 190	NT2	lanthanum 132	NT2	lithium 8
NT2	iridium 191	NT2	lanthanum 133	NT2	lithium 9
NT2	iridium 192	NT2	lanthanum 134	NT1	lutetium isotopes
NT2	iridium 193	NT2	lanthanum 135	NT2	lutetium 151
NT2	iridium 194	NT2	lanthanum 136	NT2	lutetium 152
NT2	iridium 195	NT2	lanthanum 137	NT2	lutetium 153
NT2	iridium 196	NT2	lanthanum 138	NT2	lutetium 154
NT2	iridium 197	NT2	lanthanum 139	NT2	lutetium 155
NT2	iridium 198	NT2	lanthanum 140	NT2	lutetium 156
NT2	iridium 199	NT2	lanthanum 141	NT2	lutetium 157
NT1	iron isotopes	NT2	lanthanum 142	NT2	lutetium 158
NT2	iron 45	NT2	lanthanum 143	NT2	lutetium 159
NT2	iron 46	NT2	lanthanum 144	NT2	lutetium 160
NT2	iron 47	NT2	lanthanum 145	NT2	lutetium 161
NT2	iron 48	NT2	lanthanum 146	NT2	lutetium 162
NT2	iron 49	NT2	lanthanum 147	NT2	lutetium 163
NT2	iron 50	NT2	lanthanum 148	NT2	lutetium 164
NT2	iron 51	NT2	lanthanum 149	NT2	lutetium 165
NT2	iron 52	NT2	lanthanum 150	NT2	lutetium 166
NT2	iron 53	NT1	lawrencium isotopes	NT2	lutetium 167
NT2	iron 54	NT2	lawrencium 252	NT2	lutetium 168
NT2	iron 55	NT2	lawrencium 253	NT2	lutetium 169
NT2	iron 56	NT2	lawrencium 254	NT2	lutetium 170
NT2	iron 57	NT2	lawrencium 255	NT2	lutetium 171
NT2	iron 58	NT2	lawrencium 256	NT2	lutetium 172
NT2	iron 59	NT2	lawrencium 257	NT2	lutetium 173
NT2	iron 60	NT2	lawrencium 258	NT2	lutetium 174
NT2	iron 61	NT2	lawrencium 259	NT2	lutetium 175
NT2	iron 62	NT2	lawrencium 260	NT2	lutetium 176
NT2	iron 63	NT2	lawrencium 261	NT2	lutetium 177
NT2	iron 64	NT2	lawrencium 262	NT2	lutetium 178
NT2	iron 65	NT2	lawrencium 263	NT2	lutetium 179
NT2	iron 66	NT1	lead isotopes	NT2	lutetium 180
NT2	iron 67	NT2	lead 180	NT2	lutetium 181
NT2	iron 68	NT2	lead 182	NT2	lutetium 182
NT1	krypton isotopes	NT2	lead 183	NT2	lutetium 183
NT2	krypton 69	NT2	lead 184	NT2	lutetium 184
NT2	krypton 70	NT2	lead 185	NT2	lutetium 187
NT2	krypton 71	NT2	lead 186	NT1	manganese isotopes
NT2	krypton 72	NT2	lead 187	NT2	manganese 44
NT2	krypton 73	NT2	lead 188	NT2	manganese 46
NT2	krypton 74	NT2	lead 189	NT2	manganese 47
NT2	krypton 75	NT2	lead 190	NT2	manganese 48
NT2	krypton 76	NT2	lead 191	NT2	manganese 49
NT2	krypton 77	NT2	lead 192	NT2	manganese 50
NT2	krypton 78	NT2	lead 193	NT2	manganese 51
NT2	krypton 79	NT2	lead 194	NT2	manganese 52
NT2	krypton 80	NT2	lead 195	NT2	manganese 53
NT2	krypton 81	NT2	lead 196	NT2	manganese 54
NT2	krypton 82	NT2	lead 197	NT2	manganese 55
NT2	krypton 83	NT2	lead 198	NT2	manganese 56
NT2	krypton 84	NT2	lead 199	NT2	manganese 57
NT2	krypton 85	NT2	lead 200	NT2	manganese 58
NT2	krypton 86	NT2	lead 201	NT2	manganese 59
NT2	krypton 87	NT2	lead 202	NT2	manganese 60
NT2	krypton 88	NT2	lead 203	NT2	manganese 61
NT2	krypton 89	NT2	lead 204	NT2	manganese 62
NT2	krypton 90	NT2	lead 205	NT2	manganese 63
NT2	krypton 91	NT2	lead 206	NT2	manganese 64
NT2	krypton 92	NT2	lead 207	NT2	manganese 65
NT2	krypton 93	NT2	lead 208	NT1	meitnerium isotopes

NT2	meitnerium 266	NT2	molybdenum 94	NT2	nickel 52
NT2	meitnerium 268	NT2	molybdenum 95	NT2	nickel 53
NT1	mendelevium isotopes	NT2	molybdenum 96	NT2	nickel 54
NT2	mendelevium 247	NT2	molybdenum 97	NT2	nickel 55
NT2	mendelevium 248	NT2	molybdenum 98	NT2	nickel 56
NT2	mendelevium 249	NT2	molybdenum 99	NT2	nickel 57
NT2	mendelevium 250	NT1	neodymium isotopes	NT2	nickel 58
NT2	mendelevium 251	NT2	neodymium 125	NT2	nickel 59
NT2	mendelevium 252	NT2	neodymium 127	NT2	nickel 60
NT2	mendelevium 253	NT2	neodymium 128	NT2	nickel 61
NT2	mendelevium 254	NT2	neodymium 129	NT2	nickel 62
NT2	mendelevium 255	NT2	neodymium 130	NT2	nickel 63
NT2	mendelevium 256	NT2	neodymium 131	NT2	nickel 64
NT2	mendelevium 257	NT2	neodymium 132	NT2	nickel 65
NT2	mendelevium 258	NT2	neodymium 133	NT2	nickel 66
NT2	mendelevium 259	NT2	neodymium 134	NT2	nickel 67
NT2	mendelevium 260	NT2	neodymium 135	NT2	nickel 68
NT2	mendelevium 261	NT2	neodymium 136	NT2	nickel 69
NT1	mercury isotopes	NT2	neodymium 137	NT2	nickel 70
NT2	mercury 175	NT2	neodymium 138	NT2	nickel 71
NT2	mercury 176	NT2	neodymium 139	NT2	nickel 72
NT2	mercury 177	NT2	neodymium 140	NT2	nickel 73
NT2	mercury 178	NT2	neodymium 141	NT2	nickel 78
NT2	mercury 179	NT2	neodymium 142	NT1	niobium isotopes
NT2	mercury 180	NT2	neodymium 143	NT2	niobium 100
NT2	mercury 181	NT2	neodymium 144	NT2	niobium 101
NT2	mercury 182	NT2	neodymium 145	NT2	niobium 102
NT2	mercury 183	NT2	neodymium 146	NT2	niobium 103
NT2	mercury 184	NT2	neodymium 147	NT2	niobium 104
NT2	mercury 185	NT2	neodymium 148	NT2	niobium 105
NT2	mercury 186	NT2	neodymium 149	NT2	niobium 106
NT2	mercury 187	NT2	neodymium 150	NT2	niobium 108
NT2	mercury 188	NT2	neodymium 151	NT2	niobium 83
NT2	mercury 189	NT2	neodymium 152	NT2	niobium 84
NT2	mercury 190	NT2	neodymium 153	NT2	niobium 85
NT2	mercury 191	NT2	neodymium 154	NT2	niobium 86
NT2	mercury 192	NT2	neodymium 155	NT2	niobium 87
NT2	mercury 193	NT2	neodymium 156	NT2	niobium 88
NT2	mercury 194	NT1	neon isotopes	NT2	niobium 89
NT2	mercury 195	NT2	neon 16	NT2	niobium 90
NT2	mercury 196	NT2	neon 17	NT2	niobium 91
NT2	mercury 197	NT2	neon 18	NT2	niobium 92
NT2	mercury 198	NT2	neon 19	NT2	niobium 93
NT2	mercury 199	NT2	neon 20	NT2	niobium 94
NT2	mercury 200	NT2	neon 21	NT2	niobium 95
NT2	mercury 201	NT2	neon 22	NT2	niobium 96
NT2	mercury 202	NT2	neon 23	NT2	niobium 97
NT2	mercury 203	NT2	neon 24	NT2	niobium 98
NT2	mercury 204	NT2	neon 25	NT2	niobium 99
NT2	mercury 205	NT2	neon 26	NT1	nitrogen isotopes
NT2	mercury 206	NT2	neon 27	NT2	nitrogen 11
NT2	mercury 207	NT2	neon 28	NT2	nitrogen 12
NT2	mercury 208	NT2	neon 29	NT2	nitrogen 13
NT2	mercury 209	NT2	neon 30	NT2	nitrogen 14
NT2	mercury 210	NT2	neon 32	NT2	nitrogen 15
NT2	mercury 211	NT1	neptunium isotopes	NT2	nitrogen 16
NT2	mercury 212	NT2	neptunium 225	NT2	nitrogen 17
NT1	molybdenum isotopes	NT2	neptunium 226	NT2	nitrogen 18
NT2	molybdenum 100	NT2	neptunium 227	NT2	nitrogen 19
NT2	molybdenum 101	NT2	neptunium 228	NT2	nitrogen 20
NT2	molybdenum 102	NT2	neptunium 229	NT2	nitrogen 21
NT2	molybdenum 103	NT2	neptunium 230	NT2	nitrogen 22
NT2	molybdenum 104	NT2	neptunium 231	NT2	nitrogen 23
NT2	molybdenum 105	NT2	neptunium 232	NT1	nobelium isotopes
NT2	molybdenum 106	NT2	neptunium 233	NT2	nobelium 250
NT2	molybdenum 107	NT2	neptunium 234	NT2	nobelium 251
NT2	molybdenum 108	NT2	neptunium 235	NT2	nobelium 252
NT2	molybdenum 109	NT2	neptunium 236	NT2	nobelium 253
NT2	molybdenum 110	NT2	neptunium 237	NT2	nobelium 254
NT2	molybdenum 84	NT2	neptunium 238	NT2	nobelium 255
NT2	molybdenum 85	NT2	neptunium 239	NT2	nobelium 256
NT2	molybdenum 86	NT2	neptunium 240	NT2	nobelium 257
NT2	molybdenum 87	NT2	neptunium 241	NT2	nobelium 258
NT2	molybdenum 88	NT2	neptunium 242	NT2	nobelium 259
NT2	molybdenum 89	NT2	neptunium 243	NT2	nobelium 260
NT2	molybdenum 90	NT2	neptunium 244	NT2	nobelium 261
NT2	molybdenum 91	NT1	nickel isotopes	NT2	nobelium 262
NT2	molybdenum 92	NT2	nickel 49	NT2	nobelium 264
NT2	molybdenum 93	NT2	nickel 50	NT1	osmium isotopes

NT2	osmium 162	NT1	phosphorus isotopes	NT2	plutonium 239
NT2	osmium 163	NT2	phosphorus 21	NT2	plutonium 240
NT2	osmium 164	NT2	phosphorus 24	NT2	plutonium 241
NT2	osmium 165	NT2	phosphorus 25	NT2	plutonium 242
NT2	osmium 166	NT2	phosphorus 26	NT2	plutonium 243
NT2	osmium 167	NT2	phosphorus 27	NT2	plutonium 244
NT2	osmium 168	NT2	phosphorus 28	NT2	plutonium 245
NT2	osmium 169	NT2	phosphorus 29	NT2	plutonium 246
NT2	osmium 170	NT2	phosphorus 30	NT2	plutonium 247
NT2	osmium 171	NT2	phosphorus 31	NT2	plutonium 248
NT2	osmium 172	NT2	phosphorus 32	NT2	plutonium 250
NT2	osmium 173	NT2	phosphorus 33	NT1	polonium isotopes
NT2	osmium 174	NT2	phosphorus 34	NT2	polonium 188
NT2	osmium 175	NT2	phosphorus 35	NT2	polonium 190
NT2	osmium 176	NT2	phosphorus 36	NT2	polonium 192
NT2	osmium 177	NT2	phosphorus 37	NT2	polonium 193
NT2	osmium 178	NT2	phosphorus 38	NT2	polonium 194
NT2	osmium 179	NT2	phosphorus 39	NT2	polonium 195
NT2	osmium 180	NT2	phosphorus 40	NT2	polonium 196
NT2	osmium 181	NT2	phosphorus 41	NT2	polonium 197
NT2	osmium 182	NT2	phosphorus 42	NT2	polonium 198
NT2	osmium 183	NT2	phosphorus 43	NT2	polonium 199
NT2	osmium 184	NT2	phosphorus 44	NT2	polonium 200
NT2	osmium 185	NT2	phosphorus 45	NT2	polonium 201
NT2	osmium 186	NT2	phosphorus 46	NT2	polonium 202
NT2	osmium 187	NT1	platinum isotopes	NT2	polonium 203
NT2	osmium 188	NT2	platinum 168	NT2	polonium 204
NT2	osmium 189	NT2	platinum 169	NT2	polonium 205
NT2	osmium 190	NT2	platinum 170	NT2	polonium 206
NT2	osmium 191	NT2	platinum 171	NT2	polonium 207
NT2	osmium 192	NT2	platinum 172	NT2	polonium 208
NT2	osmium 193	NT2	platinum 173	NT2	polonium 209
NT2	osmium 194	NT2	platinum 174	NT2	polonium 210
NT2	osmium 195	NT2	platinum 175	NT2	polonium 211
NT2	osmium 196	NT2	platinum 176	NT2	polonium 212
NT1	oxygen isotopes	NT2	platinum 177	NT2	polonium 213
NT2	oxygen 12	NT2	platinum 178	NT2	polonium 214
NT2	oxygen 13	NT2	platinum 179	NT2	polonium 215
NT2	oxygen 14	NT2	platinum 180	NT2	polonium 216
NT2	oxygen 15	NT2	platinum 181	NT2	polonium 217
NT2	oxygen 16	NT2	platinum 182	NT2	polonium 218
NT2	oxygen 17	NT2	platinum 183	NT2	polonium 219
NT2	oxygen 18	NT2	platinum 184	NT2	polonium 220
NT2	oxygen 19	NT2	platinum 185	NT1	potassium isotopes
NT2	oxygen 20	NT2	platinum 186	NT2	potassium 35
NT2	oxygen 21	NT2	platinum 187	NT2	potassium 36
NT2	oxygen 22	NT2	platinum 188	NT2	potassium 37
NT2	oxygen 23	NT2	platinum 189	NT2	potassium 38
NT2	oxygen 24	NT2	platinum 190	NT2	potassium 39
NT2	oxygen 28	NT2	platinum 191	NT2	potassium 40
NT1	palladium isotopes	NT2	platinum 192	NT2	potassium 41
NT2	palladium 100	NT2	platinum 193	NT2	potassium 42
NT2	palladium 101	NT2	platinum 194	NT2	potassium 43
NT2	palladium 102	NT2	platinum 195	NT2	potassium 44
NT2	palladium 103	NT2	platinum 196	NT2	potassium 45
NT2	palladium 104	NT2	platinum 197	NT2	potassium 46
NT2	palladium 105	NT2	platinum 198	NT2	potassium 47
NT2	palladium 106	NT2	platinum 199	NT2	potassium 48
NT2	palladium 107	NT2	platinum 200	NT2	potassium 49
NT2	palladium 108	NT2	platinum 201	NT2	potassium 50
NT2	palladium 109	NT2	platinum 202	NT2	potassium 51
NT2	palladium 110	NT2	platinum 203	NT2	potassium 52
NT2	palladium 111	NT2	platinum 204	NT2	potassium 53
NT2	palladium 112	NT2	platinum 205	NT2	potassium 54
NT2	palladium 113	NT2	platinum 206	NT1	praseodymium isotopes
NT2	palladium 114	NT2	platinum 207	NT2	praseodymium 121
NT2	palladium 115	NT2	platinum 208	NT2	praseodymium 124
NT2	palladium 116	NT1	plutonium isotopes	NT2	praseodymium 125
NT2	palladium 117	NT2	plutonium 228	NT2	praseodymium 126
NT2	palladium 118	NT2	plutonium 229	NT2	praseodymium 127
NT2	palladium 119	NT2	plutonium 230	NT2	praseodymium 128
NT2	palladium 120	NT2	plutonium 231	NT2	praseodymium 129
NT2	palladium 93	NT2	plutonium 232	NT2	praseodymium 130
NT2	palladium 94	NT2	plutonium 233	NT2	praseodymium 131
NT2	palladium 95	NT2	plutonium 234	NT2	praseodymium 132
NT2	palladium 96	NT2	plutonium 235	NT2	praseodymium 133
NT2	palladium 97	NT2	plutonium 236	NT2	praseodymium 134
NT2	palladium 98	NT2	plutonium 237	NT2	praseodymium 135
NT2	palladium 99	NT2	plutonium 238	NT2	praseodymium 136

NT2	praseodymium 137	NT2	alpha decay radioisotopes	NT3	bismuth 211
NT2	praseodymium 138	NT3	actinium 207	NT3	bismuth 212
NT2	praseodymium 139	NT3	actinium 208	NT3	bismuth 213
NT2	praseodymium 140	NT3	actinium 209	NT3	bismuth 214
NT2	praseodymium 141	NT3	actinium 210	NT3	bohrium 261
NT2	praseodymium 142	NT3	actinium 211	NT3	bohrium 262
NT2	praseodymium 143	NT3	actinium 212	NT3	bohrium 264
NT2	praseodymium 144	NT3	actinium 213	NT3	bohrium 265
NT2	praseodymium 145	NT3	actinium 214	NT3	bohrium 271
NT2	praseodymium 146	NT3	actinium 215	NT3	boron 9
NT2	praseodymium 147	NT3	actinium 216	NT3	californium 239
NT2	praseodymium 148	NT3	actinium 217	NT3	californium 240
NT2	praseodymium 149	NT3	actinium 218	NT3	californium 241
NT2	praseodymium 150	NT3	actinium 219	NT3	californium 242
NT2	praseodymium 151	NT3	actinium 220	NT3	californium 243
NT2	praseodymium 152	NT3	actinium 221	NT3	californium 244
NT2	praseodymium 153	NT3	actinium 222	NT3	californium 245
NT2	praseodymium 154	NT3	actinium 223	NT3	californium 246
NT1	promethium isotopes	NT3	actinium 224	NT3	californium 247
NT2	promethium 129	NT3	actinium 225	NT3	californium 248
NT2	promethium 130	NT3	actinium 226	NT3	californium 249
NT2	promethium 131	NT3	actinium 227	NT3	californium 250
NT2	promethium 132	NT3	americium 232	NT3	californium 251
NT2	promethium 133	NT3	americium 237	NT3	californium 252
NT2	promethium 134	NT3	americium 238	NT3	californium 253
NT2	promethium 135	NT3	americium 239	NT3	californium 254
NT2	promethium 136	NT3	americium 240	NT3	curium 236
NT2	promethium 137	NT3	americium 241	NT3	curium 237
NT2	promethium 138	NT3	americium 242	NT3	curium 238
NT2	promethium 139	NT3	americium 243	NT3	curium 240
NT2	promethium 140	NT3	astatine 191	NT3	curium 241
NT2	promethium 141	NT3	astatine 193	NT3	curium 242
NT2	promethium 142	NT3	astatine 194	NT3	curium 243
NT2	promethium 143	NT3	astatine 196	NT3	curium 244
NT2	promethium 144	NT3	astatine 197	NT3	curium 245
NT2	promethium 145	NT3	astatine 198	NT3	curium 246
NT2	promethium 146	NT3	astatine 199	NT3	curium 247
NT2	promethium 147	NT3	astatine 200	NT3	curium 248
NT2	promethium 148	NT3	astatine 201	NT3	curium 250
NT2	promethium 149	NT3	astatine 202	NT3	darmstadtium 269
NT2	promethium 150	NT3	astatine 203	NT3	darmstadtium 270
NT2	promethium 151	NT3	astatine 204	NT3	darmstadtium 271
NT2	promethium 152	NT3	astatine 205	NT3	dubnium 255
NT2	promethium 153	NT3	astatine 206	NT3	dubnium 256
NT2	promethium 154	NT3	astatine 207	NT3	dubnium 257
NT2	promethium 155	NT3	astatine 208	NT3	dubnium 258
NT2	promethium 156	NT3	astatine 209	NT3	dubnium 260
NT2	promethium 157	NT3	astatine 210	NT3	dubnium 261
NT2	promethium 158	NT3	astatine 211	NT3	dubnium 262
NT1	protactinium isotopes	NT3	astatine 212	NT3	dubnium 263
NT2	protactinium 212	NT3	astatine 213	NT3	dysprosium 150
NT2	protactinium 213	NT3	astatine 214	NT3	dysprosium 151
NT2	protactinium 214	NT3	astatine 215	NT3	dysprosium 152
NT2	protactinium 215	NT3	astatine 216	NT3	dysprosium 153
NT2	protactinium 216	NT3	astatine 217	NT3	dysprosium 154
NT2	protactinium 217	NT3	astatine 218	NT3	einsteinium 243
NT2	protactinium 218	NT3	astatine 219	NT3	einsteinium 244
NT2	protactinium 219	NT3	astatine 220	NT3	einsteinium 245
NT2	protactinium 220	NT3	berkelium 243	NT3	einsteinium 246
NT2	protactinium 221	NT3	berkelium 244	NT3	einsteinium 247
NT2	protactinium 222	NT3	berkelium 245	NT3	einsteinium 248
NT2	protactinium 223	NT3	berkelium 247	NT3	einsteinium 249
NT2	protactinium 224	NT3	berkelium 249	NT3	einsteinium 251
NT2	protactinium 225	NT3	beryllium 8	NT3	einsteinium 252
NT2	protactinium 226	NT3	bismuth 186	NT3	einsteinium 253
NT2	protactinium 227	NT3	bismuth 188	NT3	einsteinium 254
NT2	protactinium 228	NT3	bismuth 189	NT3	einsteinium 255
NT2	protactinium 229	NT3	bismuth 190	NT3	element 112 277
NT2	protactinium 230	NT3	bismuth 191	NT3	erbium 152
NT2	protactinium 231	NT3	bismuth 192	NT3	erbium 153
NT2	protactinium 232	NT3	bismuth 193	NT3	erbium 154
NT2	protactinium 233	NT3	bismuth 194	NT3	erbium 155
NT2	protactinium 234	NT3	bismuth 195	NT3	europium 147
NT2	protactinium 235	NT3	bismuth 196	NT3	europium 148
NT2	protactinium 236	NT3	bismuth 197	NT3	fermium 243
NT2	protactinium 237	NT3	bismuth 199	NT3	fermium 245
NT2	protactinium 238	NT3	bismuth 201	NT3	fermium 246
NT2	protactinium 239	NT3	bismuth 203	NT3	fermium 247
NT1	radioisotopes	NT3	bismuth 210	NT3	fermium 248



NT3	fermium 249	NT3	iridium 171	NT3	nobelium 260
NT3	fermium 250	NT3	iridium 172	NT3	osmium 162
NT3	fermium 251	NT3	iridium 173	NT3	osmium 163
NT3	fermium 252	NT3	iridium 174	NT3	osmium 164
NT3	fermium 253	NT3	iridium 175	NT3	osmium 165
NT3	fermium 254	NT3	iridium 176	NT3	osmium 166
NT3	fermium 255	NT3	iridium 177	NT3	osmium 167
NT3	fermium 256	NT3	lawrencium 252	NT3	osmium 168
NT3	fermium 257	NT3	lawrencium 253	NT3	osmium 169
NT3	francium 199	NT3	lawrencium 254	NT3	osmium 170
NT3	francium 200	NT3	lawrencium 255	NT3	osmium 171
NT3	francium 201	NT3	lawrencium 256	NT3	osmium 172
NT3	francium 202	NT3	lawrencium 257	NT3	osmium 173
NT3	francium 203	NT3	lawrencium 258	NT3	osmium 174
NT3	francium 204	NT3	lawrencium 259	NT3	osmium 186
NT3	francium 205	NT3	lawrencium 260	NT3	platinum 168
NT3	francium 206	NT3	lead 180	NT3	platinum 169
NT3	francium 207	NT3	lead 182	NT3	platinum 170
NT3	francium 208	NT3	lead 183	NT3	platinum 171
NT3	francium 209	NT3	lead 184	NT3	platinum 172
NT3	francium 210	NT3	lead 185	NT3	platinum 173
NT3	francium 211	NT3	lead 186	NT3	platinum 174
NT3	francium 212	NT3	lead 187	NT3	platinum 175
NT3	francium 213	NT3	lead 188	NT3	platinum 176
NT3	francium 214	NT3	lead 189	NT3	platinum 177
NT3	francium 215	NT3	lead 190	NT3	platinum 178
NT3	francium 216	NT3	lead 191	NT3	platinum 179
NT3	francium 217	NT3	lead 192	NT3	platinum 180
NT3	francium 218	NT3	lead 210	NT3	platinum 181
NT3	francium 219	NT3	lithium 5	NT3	platinum 182
NT3	francium 220	NT3	lutetium 155	NT3	platinum 183
NT3	francium 221	NT3	lutetium 156	NT3	platinum 184
NT3	francium 222	NT3	lutetium 157	NT3	platinum 185
NT3	francium 223	NT3	lutetium 158	NT3	platinum 186
NT3	gadolinium 148	NT3	lutetium 159	NT3	platinum 188
NT3	gadolinium 149	NT3	meitnerium 266	NT3	platinum 190
NT3	gadolinium 150	NT3	meitnerium 268	NT3	plutonium 228
NT3	gadolinium 151	NT3	mendelevium 247	NT3	plutonium 229
NT3	gadolinium 152	NT3	mendelevium 248	NT3	plutonium 230
NT3	gold 171	NT3	mendelevium 249	NT3	plutonium 232
NT3	gold 172	NT3	mendelevium 250	NT3	plutonium 233
NT3	gold 173	NT3	mendelevium 251	NT3	plutonium 234
NT3	gold 174	NT3	mendelevium 255	NT3	plutonium 235
NT3	gold 175	NT3	mendelevium 256	NT3	plutonium 236
NT3	gold 176	NT3	mendelevium 257	NT3	plutonium 237
NT3	gold 177	NT3	mendelevium 258	NT3	plutonium 238
NT3	gold 178	NT3	mendelevium 259	NT3	plutonium 239
NT3	gold 179	NT3	mercury 175	NT3	plutonium 240
NT3	gold 181	NT3	mercury 176	NT3	plutonium 241
NT3	gold 183	NT3	mercury 177	NT3	plutonium 242
NT3	gold 184	NT3	mercury 178	NT3	plutonium 244
NT3	gold 185	NT3	mercury 179	NT3	polonium 188
NT3	hafnium 156	NT3	mercury 180	NT3	polonium 190
NT3	hafnium 157	NT3	mercury 181	NT3	polonium 192
NT3	hafnium 158	NT3	mercury 182	NT3	polonium 193
NT3	hafnium 159	NT3	mercury 183	NT3	polonium 194
NT3	hafnium 160	NT3	mercury 184	NT3	polonium 195
NT3	hafnium 161	NT3	mercury 185	NT3	polonium 196
NT3	hafnium 162	NT3	mercury 186	NT3	polonium 197
NT3	hafnium 174	NT3	mercury 187	NT3	polonium 198
NT3	hassium 264	NT3	mercury 188	NT3	polonium 199
NT3	hassium 265	NT3	neodymium 144	NT3	polonium 200
NT3	hassium 266	NT3	neptunium 225	NT3	polonium 201
NT3	hassium 267	NT3	neptunium 226	NT3	polonium 202
NT3	hassium 270	NT3	neptunium 227	NT3	polonium 203
NT3	hassium 271	NT3	neptunium 229	NT3	polonium 204
NT3	helium 5	NT3	neptunium 230	NT3	polonium 205
NT3	holmium 151	NT3	neptunium 231	NT3	polonium 206
NT3	holmium 152	NT3	neptunium 233	NT3	polonium 207
NT3	holmium 153	NT3	neptunium 235	NT3	polonium 208
NT3	holmium 154	NT3	neptunium 237	NT3	polonium 209
NT3	holmium 155	NT3	nobelium 251	NT3	polonium 210
NT3	iodine 108	NT3	nobelium 252	NT3	polonium 211
NT3	iodine 111	NT3	nobelium 253	NT3	polonium 212
NT3	iridium 166	NT3	nobelium 254	NT3	polonium 213
NT3	iridium 167	NT3	nobelium 255	NT3	polonium 214
NT3	iridium 168	NT3	nobelium 256	NT3	polonium 215
NT3	iridium 169	NT3	nobelium 257	NT3	polonium 216
NT3	iridium 170	NT3	nobelium 259	NT3	polonium 217

<b>NT3</b>	polonium 218	<b>NT3</b>	roentgenium 280	<b>NT3</b>	uranium 225
<b>NT3</b>	promethium 145	<b>NT3</b>	rutherfordium 253	<b>NT3</b>	uranium 226
<b>NT3</b>	protactinium 212	<b>NT3</b>	rutherfordium 254	<b>NT3</b>	uranium 227
<b>NT3</b>	protactinium 213	<b>NT3</b>	rutherfordium 255	<b>NT3</b>	uranium 228
<b>NT3</b>	protactinium 214	<b>NT3</b>	rutherfordium 256	<b>NT3</b>	uranium 229
<b>NT3</b>	protactinium 215	<b>NT3</b>	rutherfordium 257	<b>NT3</b>	uranium 230
<b>NT3</b>	protactinium 216	<b>NT3</b>	rutherfordium 258	<b>NT3</b>	uranium 231
<b>NT3</b>	protactinium 217	<b>NT3</b>	rutherfordium 259	<b>NT3</b>	uranium 232
<b>NT3</b>	protactinium 218	<b>NT3</b>	rutherfordium 261	<b>NT3</b>	uranium 233
<b>NT3</b>	protactinium 219	<b>NT3</b>	samarium 146	<b>NT3</b>	uranium 234
<b>NT3</b>	protactinium 220	<b>NT3</b>	samarium 147	<b>NT3</b>	uranium 235
<b>NT3</b>	protactinium 221	<b>NT3</b>	samarium 148	<b>NT3</b>	uranium 236
<b>NT3</b>	protactinium 222	<b>NT3</b>	seaborgium 259	<b>NT3</b>	uranium 238
<b>NT3</b>	protactinium 223	<b>NT3</b>	seaborgium 260	<b>NT3</b>	xenon 110
<b>NT3</b>	protactinium 224	<b>NT3</b>	seaborgium 261	<b>NT3</b>	xenon 111
<b>NT3</b>	protactinium 225	<b>NT3</b>	seaborgium 262	<b>NT3</b>	xenon 112
<b>NT3</b>	protactinium 226	<b>NT3</b>	seaborgium 263	<b>NT3</b>	ytterbium 154
<b>NT3</b>	protactinium 227	<b>NT3</b>	seaborgium 265	<b>NT3</b>	ytterbium 155
<b>NT3</b>	protactinium 228	<b>NT3</b>	seaborgium 266	<b>NT3</b>	ytterbium 156
<b>NT3</b>	protactinium 229	<b>NT3</b>	tantalum 157	<b>NT3</b>	ytterbium 157
<b>NT3</b>	protactinium 230	<b>NT3</b>	tantalum 158	<b>NT3</b>	ytterbium 158
<b>NT3</b>	protactinium 231	<b>NT3</b>	tantalum 159	<b>NT2</b>	beta decay radioisotopes
<b>NT3</b>	radium 205	<b>NT3</b>	tantalum 160	<b>NT3</b>	beta-minus decay radioisotopes
<b>NT3</b>	radium 206	<b>NT3</b>	tantalum 161	<b>NT4</b>	actinium 226
<b>NT3</b>	radium 207	<b>NT3</b>	tantalum 163	<b>NT4</b>	actinium 227
<b>NT3</b>	radium 208	<b>NT3</b>	tantalum 164	<b>NT4</b>	actinium 228
<b>NT3</b>	radium 209	<b>NT3</b>	tellurium 106	<b>NT4</b>	actinium 229
<b>NT3</b>	radium 210	<b>NT3</b>	tellurium 107	<b>NT4</b>	actinium 230
<b>NT3</b>	radium 211	<b>NT3</b>	tellurium 108	<b>NT4</b>	actinium 231
<b>NT3</b>	radium 212	<b>NT3</b>	tellurium 109	<b>NT4</b>	actinium 232
<b>NT3</b>	radium 213	<b>NT3</b>	tellurium 110	<b>NT4</b>	actinium 233
<b>NT3</b>	radium 214	<b>NT3</b>	terbium 149	<b>NT4</b>	actinium 234
<b>NT3</b>	radium 215	<b>NT3</b>	terbium 151	<b>NT4</b>	aluminium 28
<b>NT3</b>	radium 216	<b>NT3</b>	thallium 179	<b>NT4</b>	aluminium 29
<b>NT3</b>	radium 217	<b>NT3</b>	thallium 182	<b>NT4</b>	aluminium 30
<b>NT3</b>	radium 218	<b>NT3</b>	thallium 183	<b>NT4</b>	aluminium 31
<b>NT3</b>	radium 219	<b>NT3</b>	thallium 184	<b>NT4</b>	aluminium 32
<b>NT3</b>	radium 220	<b>NT3</b>	thallium 185	<b>NT4</b>	aluminium 34
<b>NT3</b>	radium 221	<b>NT3</b>	thallium 186	<b>NT4</b>	aluminium 36
<b>NT3</b>	radium 222	<b>NT3</b>	thallium 187	<b>NT4</b>	aluminium 37
<b>NT3</b>	radium 223	<b>NT3</b>	thorium 212	<b>NT4</b>	aluminium 40
<b>NT3</b>	radium 224	<b>NT3</b>	thorium 213	<b>NT4</b>	americium 242
<b>NT3</b>	radium 226	<b>NT3</b>	thorium 214	<b>NT4</b>	americium 244
<b>NT3</b>	radon 197	<b>NT3</b>	thorium 215	<b>NT4</b>	americium 245
<b>NT3</b>	radon 199	<b>NT3</b>	thorium 216	<b>NT4</b>	americium 246
<b>NT3</b>	radon 200	<b>NT3</b>	thorium 217	<b>NT4</b>	americium 247
<b>NT3</b>	radon 201	<b>NT3</b>	thorium 218	<b>NT4</b>	antimony 122
<b>NT3</b>	radon 202	<b>NT3</b>	thorium 219	<b>NT4</b>	antimony 124
<b>NT3</b>	radon 203	<b>NT3</b>	thorium 220	<b>NT4</b>	antimony 125
<b>NT3</b>	radon 204	<b>NT3</b>	thorium 221	<b>NT4</b>	antimony 126
<b>NT3</b>	radon 205	<b>NT3</b>	thorium 222	<b>NT4</b>	antimony 127
<b>NT3</b>	radon 206	<b>NT3</b>	thorium 223	<b>NT4</b>	antimony 128
<b>NT3</b>	radon 207	<b>NT3</b>	thorium 224	<b>NT4</b>	antimony 129
<b>NT3</b>	radon 208	<b>NT3</b>	thorium 225	<b>NT4</b>	antimony 130
<b>NT3</b>	radon 209	<b>NT3</b>	thorium 226	<b>NT4</b>	antimony 131
<b>NT3</b>	radon 210	<b>NT3</b>	thorium 227	<b>NT4</b>	antimony 132
<b>NT3</b>	radon 211	<b>NT3</b>	thorium 228	<b>NT4</b>	antimony 133
<b>NT3</b>	radon 212	<b>NT3</b>	thorium 229	<b>NT4</b>	antimony 134
<b>NT3</b>	radon 213	<b>NT3</b>	thorium 230	<b>NT4</b>	antimony 135
<b>NT3</b>	radon 214	<b>NT3</b>	thorium 232	<b>NT4</b>	antimony 136
<b>NT3</b>	radon 215	<b>NT3</b>	thulium 153	<b>NT4</b>	argon 39
<b>NT3</b>	radon 216	<b>NT3</b>	thulium 154	<b>NT4</b>	argon 41
<b>NT3</b>	radon 217	<b>NT3</b>	thulium 155	<b>NT4</b>	argon 42
<b>NT3</b>	radon 218	<b>NT3</b>	thulium 156	<b>NT4</b>	argon 43
<b>NT3</b>	radon 219	<b>NT3</b>	thulium 157	<b>NT4</b>	argon 44
<b>NT3</b>	radon 220	<b>NT3</b>	tungsten 158	<b>NT4</b>	argon 45
<b>NT3</b>	radon 221	<b>NT3</b>	tungsten 159	<b>NT4</b>	argon 46
<b>NT3</b>	radon 222	<b>NT3</b>	tungsten 160	<b>NT4</b>	arsenic 74
<b>NT3</b>	rhenium 161	<b>NT3</b>	tungsten 161	<b>NT4</b>	arsenic 76
<b>NT3</b>	rhenium 162	<b>NT3</b>	tungsten 162	<b>NT4</b>	arsenic 77
<b>NT3</b>	rhenium 163	<b>NT3</b>	tungsten 163	<b>NT4</b>	arsenic 78
<b>NT3</b>	rhenium 164	<b>NT3</b>	tungsten 164	<b>NT4</b>	arsenic 79
<b>NT3</b>	rhenium 165	<b>NT3</b>	tungsten 165	<b>NT4</b>	arsenic 80
<b>NT3</b>	rhenium 166	<b>NT3</b>	tungsten 166	<b>NT4</b>	arsenic 81
<b>NT3</b>	rhenium 167	<b>NT3</b>	uranium 218	<b>NT4</b>	arsenic 82
<b>NT3</b>	rhenium 168	<b>NT3</b>	uranium 219	<b>NT4</b>	arsenic 83
<b>NT3</b>	rhenium 169	<b>NT3</b>	uranium 222	<b>NT4</b>	arsenic 84
<b>NT3</b>	roentgenium 272	<b>NT3</b>	uranium 223	<b>NT4</b>	arsenic 85
<b>NT3</b>	roentgenium 279	<b>NT3</b>	uranium 224	<b>NT4</b>	arsenic 86

NT4	arsenic 87	NT4	carbon 15	NT4	dysprosium 168
NT4	astatine 217	NT4	carbon 16	NT4	dysprosium 169
NT4	astatine 218	NT4	carbon 17	NT4	einsteinium 254
NT4	astatine 219	NT4	carbon 18	NT4	einsteinium 255
NT4	astatine 220	NT4	cerium 141	NT4	einsteinium 256
NT4	astatine 221	NT4	cerium 143	NT4	erbium 169
NT4	astatine 222	NT4	cerium 144	NT4	erbium 171
NT4	astatine 223	NT4	cerium 145	NT4	erbium 172
NT4	barium 139	NT4	cerium 146	NT4	erbium 173
NT4	barium 140	NT4	cerium 147	NT4	erbium 174
NT4	barium 141	NT4	cerium 148	NT4	erbium 175
NT4	barium 142	NT4	cerium 149	NT4	europium 150
NT4	barium 143	NT4	cerium 150	NT4	europium 152
NT4	barium 144	NT4	cerium 151	NT4	europium 154
NT4	barium 145	NT4	cerium 152	NT4	europium 155
NT4	barium 146	NT4	cesium 130	NT4	europium 156
NT4	barium 147	NT4	cesium 132	NT4	europium 157
NT4	barium 148	NT4	cesium 134	NT4	europium 158
NT4	barium 149	NT4	cesium 135	NT4	europium 159
NT4	berkelium 248	NT4	cesium 136	NT4	europium 160
NT4	berkelium 249	NT4	cesium 137	NT4	europium 161
NT4	berkelium 250	NT4	cesium 138	NT4	europium 162
NT4	berkelium 251	NT4	cesium 139	NT4	fluorine 20
NT4	beryllium 10	NT4	cesium 140	NT4	fluorine 21
NT4	beryllium 11	NT4	cesium 141	NT4	fluorine 22
NT4	beryllium 12	NT4	cesium 142	NT4	fluorine 23
NT4	beryllium 14	NT4	cesium 143	NT4	fluorine 24
NT4	bismuth 210	NT4	cesium 144	NT4	fluorine 25
NT4	bismuth 211	NT4	cesium 145	NT4	fluorine 26
NT4	bismuth 212	NT4	cesium 146	NT4	fluorine 27
NT4	bismuth 213	NT4	cesium 147	NT4	francium 220
NT4	bismuth 214	NT4	cesium 148	NT4	francium 222
NT4	bismuth 215	NT4	cesium 149	NT4	francium 223
NT4	bismuth 216	NT4	cesium 150	NT4	francium 224
NT4	boron 12	NT4	chlorine 36	NT4	francium 225
NT4	boron 13	NT4	chlorine 38	NT4	francium 226
NT4	boron 14	NT4	chlorine 39	NT4	francium 227
NT4	boron 15	NT4	chlorine 40	NT4	francium 228
NT4	boron 16	NT4	chlorine 41	NT4	francium 229
NT4	boron 17	NT4	chromium 55	NT4	francium 230
NT4	boron 19	NT4	chromium 56	NT4	francium 231
NT4	bromine 80	NT4	chromium 57	NT4	gadolinium 159
NT4	bromine 82	NT4	chromium 58	NT4	gadolinium 161
NT4	bromine 83	NT4	chromium 59	NT4	gadolinium 162
NT4	bromine 84	NT4	chromium 60	NT4	gadolinium 163
NT4	bromine 85	NT4	chromium 62	NT4	gadolinium 164
NT4	bromine 86	NT4	chromium 63	NT4	gadolinium 165
NT4	bromine 87	NT4	chromium 64	NT4	gallium 70
NT4	bromine 88	NT4	chromium 65	NT4	gallium 72
NT4	bromine 89	NT4	chromium 66	NT4	gallium 73
NT4	bromine 90	NT4	cobalt 60	NT4	gallium 74
NT4	bromine 91	NT4	cobalt 61	NT4	gallium 75
NT4	bromine 92	NT4	cobalt 62	NT4	gallium 76
NT4	bromine 93	NT4	cobalt 63	NT4	gallium 77
NT4	cadmium 113	NT4	cobalt 64	NT4	gallium 78
NT4	cadmium 115	NT4	cobalt 65	NT4	gallium 79
NT4	cadmium 117	NT4	cobalt 66	NT4	gallium 80
NT4	cadmium 118	NT4	cobalt 67	NT4	gallium 81
NT4	cadmium 119	NT4	copper 64	NT4	gallium 82
NT4	cadmium 120	NT4	copper 66	NT4	gallium 83
NT4	cadmium 121	NT4	copper 67	NT4	gallium 84
NT4	cadmium 122	NT4	copper 68	NT4	germanium 75
NT4	cadmium 123	NT4	copper 69	NT4	germanium 77
NT4	cadmium 124	NT4	copper 70	NT4	germanium 78
NT4	cadmium 125	NT4	copper 71	NT4	germanium 79
NT4	cadmium 126	NT4	copper 72	NT4	germanium 80
NT4	cadmium 127	NT4	copper 73	NT4	germanium 81
NT4	cadmium 128	NT4	copper 74	NT4	germanium 82
NT4	cadmium 130	NT4	copper 75	NT4	germanium 83
NT4	calcium 45	NT4	copper 76	NT4	germanium 84
NT4	calcium 47	NT4	copper 77	NT4	germanium 85
NT4	calcium 49	NT4	copper 78	NT4	gold 196
NT4	calcium 50	NT4	copper 79	NT4	gold 198
NT4	calcium 51	NT4	curium 249	NT4	gold 199
NT4	calcium 52	NT4	curium 250	NT4	gold 200
NT4	calcium 53	NT4	curium 251	NT4	gold 201
NT4	californium 253	NT4	dysprosium 165	NT4	gold 202
NT4	californium 255	NT4	dysprosium 166	NT4	gold 203
NT4	carbon 14	NT4	dysprosium 167	NT4	gold 204

NT4	gold 205	NT4	lanthanum 138	NT4	neptunium 238
NT4	hafnium 181	NT4	lanthanum 140	NT4	neptunium 239
NT4	hafnium 182	NT4	lanthanum 141	NT4	neptunium 240
NT4	hafnium 183	NT4	lanthanum 142	NT4	neptunium 241
NT4	hafnium 184	NT4	lanthanum 143	NT4	neptunium 242
NT4	helium 6	NT4	lanthanum 144	NT4	neptunium 243
NT4	helium 7	NT4	lanthanum 145	NT4	neptunium 244
NT4	helium 8	NT4	lanthanum 146	NT4	neutron-rich isotopes
NT4	holmium 164	NT4	lanthanum 147	NT4	nickel 63
NT4	holmium 166	NT4	lanthanum 148	NT4	nickel 65
NT4	holmium 167	NT4	lanthanum 149	NT4	nickel 66
NT4	holmium 168	NT4	lanthanum 150	NT4	nickel 67
NT4	holmium 169	NT4	lead 209	NT4	nickel 69
NT4	holmium 170	NT4	lead 210	NT4	nickel 70
NT4	holmium 171	NT4	lead 211	NT4	nickel 71
NT4	holmium 172	NT4	lead 212	NT4	nickel 72
NT4	indium 112	NT4	lead 213	NT4	nickel 73
NT4	indium 114	NT4	lead 214	NT4	nickel 74
NT4	indium 115	NT4	lithium 11	NT4	niobium 100
NT4	indium 116	NT4	lithium 13	NT4	niobium 101
NT4	indium 117	NT4	lithium 8	NT4	niobium 102
NT4	indium 118	NT4	lithium 9	NT4	niobium 103
NT4	indium 119	NT4	lutetium 176	NT4	niobium 104
NT4	indium 120	NT4	lutetium 177	NT4	niobium 105
NT4	indium 121	NT4	lutetium 178	NT4	niobium 106
NT4	indium 122	NT4	lutetium 179	NT4	niobium 108
NT4	indium 123	NT4	lutetium 180	NT4	niobium 94
NT4	indium 124	NT4	lutetium 181	NT4	niobium 95
NT4	indium 125	NT4	lutetium 182	NT4	niobium 96
NT4	indium 126	NT4	lutetium 183	NT4	niobium 97
NT4	indium 127	NT4	lutetium 184	NT4	niobium 98
NT4	indium 128	NT4	lutetium 187	NT4	niobium 99
NT4	indium 129	NT4	magnesium 27	NT4	nitrogen 16
NT4	indium 130	NT4	magnesium 28	NT4	nitrogen 17
NT4	indium 131	NT4	magnesium 29	NT4	nitrogen 18
NT4	indium 132	NT4	magnesium 30	NT4	nitrogen 19
NT4	indium 133	NT4	magnesium 31	NT4	nitrogen 20
NT4	indium 134	NT4	magnesium 32	NT4	nitrogen 22
NT4	indium 135	NT4	magnesium 33	NT4	nitrogen 23
NT4	iodine 126	NT4	magnesium 34	NT4	osmium 191
NT4	iodine 128	NT4	magnesium 40	NT4	osmium 193
NT4	iodine 129	NT4	manganese 56	NT4	osmium 194
NT4	iodine 130	NT4	manganese 57	NT4	osmium 195
NT4	iodine 131	NT4	manganese 58	NT4	osmium 196
NT4	iodine 132	NT4	manganese 59	NT4	oxygen 19
NT4	iodine 133	NT4	manganese 60	NT4	oxygen 20
NT4	iodine 134	NT4	manganese 61	NT4	oxygen 21
NT4	iodine 135	NT4	manganese 62	NT4	oxygen 22
NT4	iodine 136	NT4	manganese 63	NT4	oxygen 23
NT4	iodine 137	NT4	mercury 203	NT4	oxygen 24
NT4	iodine 138	NT4	mercury 205	NT4	palladium 107
NT4	iodine 139	NT4	mercury 206	NT4	palladium 109
NT4	iodine 140	NT4	molybdenum 101	NT4	palladium 111
NT4	iodine 141	NT4	molybdenum 102	NT4	palladium 112
NT4	iodine 142	NT4	molybdenum 103	NT4	palladium 113
NT4	iridium 192	NT4	molybdenum 104	NT4	palladium 114
NT4	iridium 194	NT4	molybdenum 105	NT4	palladium 115
NT4	iridium 195	NT4	molybdenum 106	NT4	palladium 116
NT4	iridium 196	NT4	molybdenum 107	NT4	palladium 117
NT4	iridium 197	NT4	molybdenum 108	NT4	palladium 118
NT4	iridium 198	NT4	molybdenum 109	NT4	palladium 119
NT4	iridium 199	NT4	molybdenum 110	NT4	palladium 120
NT4	iron 59	NT4	molybdenum 99	NT4	phosphorus 32
NT4	iron 60	NT4	neodymium 147	NT4	phosphorus 33
NT4	iron 61	NT4	neodymium 149	NT4	phosphorus 34
NT4	iron 62	NT4	neodymium 151	NT4	phosphorus 35
NT4	iron 63	NT4	neodymium 152	NT4	phosphorus 36
NT4	iron 64	NT4	neodymium 153	NT4	phosphorus 37
NT4	krypton 85	NT4	neodymium 154	NT4	phosphorus 38
NT4	krypton 87	NT4	neodymium 155	NT4	phosphorus 40
NT4	krypton 88	NT4	neodymium 156	NT4	phosphorus 41
NT4	krypton 89	NT4	neon 23	NT4	phosphorus 42
NT4	krypton 90	NT4	neon 24	NT4	platinum 197
NT4	krypton 91	NT4	neon 25	NT4	platinum 199
NT4	krypton 92	NT4	neon 26	NT4	platinum 200
NT4	krypton 93	NT4	neon 27	NT4	platinum 201
NT4	krypton 94	NT4	neon 29	NT4	plutonium 241
NT4	krypton 95	NT4	neon 30	NT4	plutonium 243
NT4	krypton 97	NT4	neptunium 236	NT4	plutonium 245

NT4	plutonium 246	NT4	rhodium 109	NT4	silver 114
NT4	polonium 215	NT4	rhodium 110	NT4	silver 115
NT4	polonium 218	NT4	rhodium 111	NT4	silver 116
NT4	potassium 40	NT4	rhodium 112	NT4	silver 117
NT4	potassium 42	NT4	rhodium 113	NT4	silver 118
NT4	potassium 43	NT4	rhodium 114	NT4	silver 119
NT4	potassium 44	NT4	rhodium 115	NT4	silver 120
NT4	potassium 45	NT4	rhodium 116	NT4	silver 121
NT4	potassium 46	NT4	rhodium 117	NT4	silver 122
NT4	potassium 47	NT4	rhodium 118	NT4	silver 123
NT4	potassium 48	NT4	rubidium 100	NT4	sodium 24
NT4	potassium 49	NT4	rubidium 84	NT4	sodium 25
NT4	potassium 50	NT4	rubidium 86	NT4	sodium 26
NT4	potassium 51	NT4	rubidium 87	NT4	sodium 27
NT4	potassium 52	NT4	rubidium 88	NT4	sodium 28
NT4	potassium 53	NT4	rubidium 89	NT4	sodium 29
NT4	potassium 54	NT4	rubidium 90	NT4	sodium 30
NT4	praseodymium 142	NT4	rubidium 91	NT4	sodium 31
NT4	praseodymium 143	NT4	rubidium 92	NT4	sodium 32
NT4	praseodymium 144	NT4	rubidium 93	NT4	sodium 33
NT4	praseodymium 145	NT4	rubidium 94	NT4	sodium 34
NT4	praseodymium 146	NT4	rubidium 95	NT4	sodium 35
NT4	praseodymium 147	NT4	rubidium 96	NT4	strontium 100
NT4	praseodymium 148	NT4	rubidium 97	NT4	strontium 101
NT4	praseodymium 149	NT4	rubidium 98	NT4	strontium 102
NT4	praseodymium 150	NT4	rubidium 99	NT4	strontium 89
NT4	praseodymium 151	NT4	ruthenium 103	NT4	strontium 90
NT4	praseodymium 152	NT4	ruthenium 105	NT4	strontium 91
NT4	praseodymium 153	NT4	ruthenium 106	NT4	strontium 92
NT4	praseodymium 154	NT4	ruthenium 107	NT4	strontium 93
NT4	promethium 146	NT4	ruthenium 108	NT4	strontium 94
NT4	promethium 147	NT4	ruthenium 109	NT4	strontium 95
NT4	promethium 148	NT4	ruthenium 110	NT4	strontium 96
NT4	promethium 149	NT4	ruthenium 111	NT4	strontium 97
NT4	promethium 150	NT4	ruthenium 112	NT4	strontium 98
NT4	promethium 151	NT4	ruthenium 113	NT4	strontium 99
NT4	promethium 152	NT4	ruthenium 114	NT4	sulfur 35
NT4	promethium 153	NT4	samarium 151	NT4	sulfur 37
NT4	promethium 154	NT4	samarium 153	NT4	sulfur 38
NT4	promethium 155	NT4	samarium 155	NT4	sulfur 39
NT4	promethium 156	NT4	samarium 156	NT4	sulfur 40
NT4	promethium 157	NT4	samarium 157	NT4	sulfur 43
NT4	promethium 158	NT4	samarium 158	NT4	tantalum 180
NT4	protactinium 230	NT4	samarium 159	NT4	tantalum 182
NT4	protactinium 232	NT4	samarium 160	NT4	tantalum 183
NT4	protactinium 233	NT4	scandium 46	NT4	tantalum 184
NT4	protactinium 234	NT4	scandium 47	NT4	tantalum 185
NT4	protactinium 235	NT4	scandium 48	NT4	tantalum 186
NT4	protactinium 236	NT4	scandium 49	NT4	technetium 100
NT4	protactinium 237	NT4	scandium 50	NT4	technetium 101
NT4	protactinium 238	NT4	scandium 51	NT4	technetium 102
NT4	protactinium 239	NT4	scandium 52	NT4	technetium 103
NT4	radium 225	NT4	scandium 53	NT4	technetium 104
NT4	radium 227	NT4	scandium 57	NT4	technetium 105
NT4	radium 228	NT4	scandium 58	NT4	technetium 106
NT4	radium 229	NT4	selenium 79	NT4	technetium 107
NT4	radium 230	NT4	selenium 81	NT4	technetium 108
NT4	radium 231	NT4	selenium 83	NT4	technetium 109
NT4	radium 232	NT4	selenium 84	NT4	technetium 110
NT4	radon 221	NT4	selenium 85	NT4	technetium 111
NT4	radon 223	NT4	selenium 86	NT4	technetium 112
NT4	radon 224	NT4	selenium 87	NT4	technetium 113
NT4	radon 225	NT4	selenium 88	NT4	technetium 98
NT4	radon 226	NT4	selenium 89	NT4	technetium 99
NT4	radon 227	NT4	selenium 91	NT4	tellurium 127
NT4	radon 228	NT4	silicon 31	NT4	tellurium 129
NT4	rhenium 186	NT4	silicon 32	NT4	tellurium 131
NT4	rhenium 187	NT4	silicon 33	NT4	tellurium 132
NT4	rhenium 188	NT4	silicon 34	NT4	tellurium 133
NT4	rhenium 189	NT4	silicon 35	NT4	tellurium 134
NT4	rhenium 190	NT4	silicon 36	NT4	tellurium 135
NT4	rhenium 191	NT4	silicon 37	NT4	tellurium 136
NT4	rhenium 192	NT4	silicon 38	NT4	tellurium 137
NT4	rhodium 102	NT4	silicon 39	NT4	tellurium 138
NT4	rhodium 104	NT4	silver 108	NT4	terbium 156
NT4	rhodium 105	NT4	silver 110	NT4	terbium 158
NT4	rhodium 106	NT4	silver 111	NT4	terbium 160
NT4	rhodium 107	NT4	silver 112	NT4	terbium 161
NT4	rhodium 108	NT4	silver 113	NT4	terbium 162

NT4	terbium 163	NT4	xenon 145	NT4	astatine 205
NT4	terbium 164	NT4	ytterbium 175	NT4	astatine 206
NT4	terbium 165	NT4	ytterbium 177	NT4	barium 114
NT4	terbium 166	NT4	ytterbium 178	NT4	barium 115
NT4	thallium 204	NT4	ytterbium 179	NT4	barium 116
NT4	thallium 206	NT4	ytterbium 180	NT4	barium 117
NT4	thallium 207	NT4	yttrium 100	NT4	barium 118
NT4	thallium 208	NT4	yttrium 101	NT4	barium 119
NT4	thallium 209	NT4	yttrium 102	NT4	barium 120
NT4	thallium 210	NT4	yttrium 103	NT4	barium 121
NT4	thorium 231	NT4	yttrium 90	NT4	barium 122
NT4	thorium 233	NT4	yttrium 91	NT4	barium 123
NT4	thorium 234	NT4	yttrium 92	NT4	barium 124
NT4	thorium 235	NT4	yttrium 93	NT4	barium 125
NT4	thorium 236	NT4	yttrium 94	NT4	barium 126
NT4	thorium 237	NT4	yttrium 95	NT4	barium 127
NT4	thulium 168	NT4	yttrium 96	NT4	barium 129
NT4	thulium 170	NT4	yttrium 97	NT4	bismuth 194
NT4	thulium 171	NT4	yttrium 98	NT4	bismuth 197
NT4	thulium 172	NT4	yttrium 99	NT4	bismuth 200
NT4	thulium 173	NT4	zinc 69	NT4	bismuth 202
NT4	thulium 174	NT4	zinc 71	NT4	bismuth 203
NT4	thulium 175	NT4	zinc 72	NT4	bismuth 205
NT4	thulium 176	NT4	zinc 73	NT4	bismuth 206
NT4	thulium 177	NT4	zinc 74	NT4	bismuth 207
NT4	tin 121	NT4	zinc 75	NT4	boron 8
NT4	tin 123	NT4	zinc 76	NT4	bromine 69
NT4	tin 125	NT4	zinc 77	NT4	bromine 70
NT4	tin 126	NT4	zinc 78	NT4	bromine 71
NT4	tin 127	NT4	zinc 79	NT4	bromine 72
NT4	tin 128	NT4	zinc 80	NT4	bromine 73
NT4	tin 129	NT4	zinc 81	NT4	bromine 74
NT4	tin 130	NT4	zirconium 100	NT4	bromine 75
NT4	tin 131	NT4	zirconium 101	NT4	bromine 76
NT4	tin 132	NT4	zirconium 102	NT4	bromine 77
NT4	tin 133	NT4	zirconium 103	NT4	bromine 78
NT4	tin 134	NT4	zirconium 104	NT4	bromine 80
NT4	tin 135	NT4	zirconium 105	NT4	cadmium 100
NT4	tin 137	NT4	zirconium 109	NT4	cadmium 101
NT4	titanium 51	NT4	zirconium 93	NT4	cadmium 102
NT4	titanium 52	NT4	zirconium 95	NT4	cadmium 103
NT4	titanium 53	NT4	zirconium 97	NT4	cadmium 104
NT4	titanium 54	NT4	zirconium 98	NT4	cadmium 105
NT4	titanium 55	NT4	zirconium 99	NT4	cadmium 107
NT4	titanium 56	NT3	beta-plus decay radioisotopes	NT4	cadmium 97
NT4	titanium 58	NT4	aluminium 22	NT4	cadmium 98
NT4	titanium 59	NT4	aluminium 23	NT4	cadmium 99
NT4	titanium 60	NT4	aluminium 24	NT4	calcium 36
NT4	tritium	NT4	aluminium 25	NT4	calcium 37
NT4	tungsten 185	NT4	aluminium 26	NT4	calcium 38
NT4	tungsten 187	NT4	americium 235	NT4	calcium 39
NT4	tungsten 188	NT4	americium 236	NT4	carbon 10
NT4	tungsten 189	NT4	antimony 104	NT4	carbon 11
NT4	uranium 237	NT4	antimony 105	NT4	carbon 9
NT4	uranium 239	NT4	antimony 108	NT4	cerium 121
NT4	uranium 240	NT4	antimony 110	NT4	cerium 125
NT4	uranium 241	NT4	antimony 111	NT4	cerium 127
NT4	uranium 242	NT4	antimony 112	NT4	cerium 128
NT4	vanadium 50	NT4	antimony 113	NT4	cerium 129
NT4	vanadium 52	NT4	antimony 114	NT4	cerium 130
NT4	vanadium 53	NT4	antimony 115	NT4	cerium 131
NT4	vanadium 54	NT4	antimony 116	NT4	cerium 132
NT4	vanadium 55	NT4	antimony 117	NT4	cerium 133
NT4	vanadium 56	NT4	antimony 118	NT4	cerium 135
NT4	vanadium 57	NT4	antimony 120	NT4	cerium 137
NT4	vanadium 58	NT4	antimony 122	NT4	cesium 114
NT4	vanadium 61	NT4	argon 31	NT4	cesium 115
NT4	vanadium 62	NT4	argon 32	NT4	cesium 116
NT4	vanadium 63	NT4	argon 33	NT4	cesium 117
NT4	xenon 133	NT4	argon 34	NT4	cesium 118
NT4	xenon 135	NT4	argon 35	NT4	cesium 119
NT4	xenon 137	NT4	arsenic 66	NT4	cesium 120
NT4	xenon 138	NT4	arsenic 67	NT4	cesium 121
NT4	xenon 139	NT4	arsenic 68	NT4	cesium 122
NT4	xenon 140	NT4	arsenic 69	NT4	cesium 123
NT4	xenon 141	NT4	arsenic 70	NT4	cesium 124
NT4	xenon 142	NT4	arsenic 71	NT4	cesium 125
NT4	xenon 143	NT4	arsenic 72	NT4	cesium 126
NT4	xenon 144	NT4	arsenic 74	NT4	cesium 127

NT4 cesium 128	NT4 gadolinium 142	NT4 iodine 126
NT4 cesium 129	NT4 gadolinium 143	NT4 iodine 128
NT4 cesium 130	NT4 gadolinium 144	NT4 iridium 178
NT4 cesium 132	NT4 gadolinium 145	NT4 iridium 179
NT4 chlorine 31	NT4 gadolinium 146	NT4 iridium 180
NT4 chlorine 32	NT4 gadolinium 147	NT4 iridium 181
NT4 chlorine 33	NT4 gallium 60	NT4 iridium 182
NT4 chlorine 34	NT4 gallium 62	NT4 iridium 183
NT4 chlorine 36	NT4 gallium 63	NT4 iridium 184
NT4 chromium 42	NT4 gallium 64	NT4 iridium 185
NT4 chromium 45	NT4 gallium 65	NT4 iridium 186
NT4 chromium 46	NT4 gallium 66	NT4 iridium 188
NT4 chromium 47	NT4 gallium 68	NT4 iridium 190
NT4 chromium 49	NT4 germanium 61	NT4 iron 45
NT4 cobalt 52	NT4 germanium 64	NT4 iron 46
NT4 cobalt 53	NT4 germanium 65	NT4 iron 49
NT4 cobalt 54	NT4 germanium 66	NT4 iron 51
NT4 cobalt 55	NT4 germanium 67	NT4 iron 52
NT4 cobalt 56	NT4 germanium 69	NT4 iron 53
NT4 cobalt 58	NT4 gold 182	NT4 krypton 69
NT4 copper 56	NT4 gold 184	NT4 krypton 71
NT4 copper 57	NT4 gold 185	NT4 krypton 72
NT4 copper 58	NT4 gold 186	NT4 krypton 73
NT4 copper 59	NT4 gold 187	NT4 krypton 74
NT4 copper 60	NT4 gold 188	NT4 krypton 75
NT4 copper 61	NT4 gold 189	NT4 krypton 77
NT4 copper 62	NT4 gold 190	NT4 krypton 79
NT4 copper 64	NT4 gold 192	NT4 lanthanum 121
NT4 curium 232	NT4 gold 194	NT4 lanthanum 125
NT4 dysprosium 140	NT4 gold 196	NT4 lanthanum 126
NT4 dysprosium 145	NT4 hafnium 154	NT4 lanthanum 127
NT4 dysprosium 146	NT4 hafnium 155	NT4 lanthanum 128
NT4 dysprosium 147	NT4 hafnium 162	NT4 lanthanum 129
NT4 dysprosium 148	NT4 hafnium 163	NT4 lanthanum 130
NT4 dysprosium 149	NT4 hafnium 166	NT4 lanthanum 131
NT4 dysprosium 150	NT4 hafnium 167	NT4 lanthanum 132
NT4 dysprosium 151	NT4 hafnium 168	NT4 lanthanum 133
NT4 dysprosium 152	NT4 hafnium 169	NT4 lanthanum 134
NT4 dysprosium 153	NT4 holmium 145	NT4 lanthanum 135
NT4 dysprosium 155	NT4 holmium 146	NT4 lanthanum 136
NT4 dysprosium 157	NT4 holmium 147	NT4 lead 187
NT4 erbium 145	NT4 holmium 148	NT4 lead 188
NT4 erbium 146	NT4 holmium 149	NT4 lead 189
NT4 erbium 147	NT4 holmium 150	NT4 lead 190
NT4 erbium 148	NT4 holmium 151	NT4 lead 191
NT4 erbium 149	NT4 holmium 152	NT4 lead 192
NT4 erbium 150	NT4 holmium 153	NT4 lead 193
NT4 erbium 151	NT4 holmium 154	NT4 lead 194
NT4 erbium 152	NT4 holmium 155	NT4 lead 195
NT4 erbium 153	NT4 holmium 156	NT4 lead 199
NT4 erbium 154	NT4 holmium 157	NT4 lead 201
NT4 erbium 155	NT4 holmium 158	NT4 lutetium 153
NT4 erbium 156	NT4 holmium 160	NT4 lutetium 161
NT4 erbium 157	NT4 holmium 162	NT4 lutetium 162
NT4 erbium 158	NT4 indium 100	NT4 lutetium 163
NT4 erbium 159	NT4 indium 103	NT4 lutetium 164
NT4 erbium 161	NT4 indium 104	NT4 lutetium 165
NT4 erbium 163	NT4 indium 105	NT4 lutetium 166
NT4 europium 134	NT4 indium 106	NT4 lutetium 167
NT4 europium 135	NT4 indium 107	NT4 lutetium 168
NT4 europium 136	NT4 indium 108	NT4 lutetium 169
NT4 europium 138	NT4 indium 109	NT4 lutetium 170
NT4 europium 139	NT4 indium 110	NT4 lutetium 171
NT4 europium 140	NT4 indium 112	NT4 lutetium 174
NT4 europium 141	NT4 indium 114	NT4 magnesium 20
NT4 europium 142	NT4 iodine 110	NT4 magnesium 21
NT4 europium 143	NT4 iodine 111	NT4 magnesium 22
NT4 europium 144	NT4 iodine 112	NT4 magnesium 23
NT4 europium 145	NT4 iodine 113	NT4 manganese 48
NT4 europium 146	NT4 iodine 114	NT4 manganese 49
NT4 europium 147	NT4 iodine 115	NT4 manganese 50
NT4 europium 148	NT4 iodine 116	NT4 manganese 51
NT4 europium 150	NT4 iodine 117	NT4 manganese 52
NT4 europium 152	NT4 iodine 118	NT4 mercury 179
NT4 fluorine 17	NT4 iodine 119	NT4 mercury 181
NT4 fluorine 18	NT4 iodine 120	NT4 mercury 182
NT4 gadolinium 135	NT4 iodine 121	NT4 mercury 183
NT4 gadolinium 137	NT4 iodine 122	NT4 mercury 184
NT4 gadolinium 139	NT4 iodine 124	NT4 mercury 185

NT4 mercury 186	NT4 polonium 200	NT4 samarium 134
NT4 mercury 187	NT4 polonium 201	NT4 samarium 135
NT4 mercury 188	NT4 polonium 202	NT4 samarium 136
NT4 mercury 191	NT4 polonium 203	NT4 samarium 137
NT4 mercury 193	NT4 polonium 205	NT4 samarium 138
NT4 molybdenum 86	NT4 polonium 207	NT4 samarium 139
NT4 molybdenum 87	NT4 potassium 35	NT4 samarium 140
NT4 molybdenum 88	NT4 potassium 36	NT4 samarium 141
NT4 molybdenum 89	NT4 potassium 37	NT4 samarium 142
NT4 molybdenum 90	NT4 potassium 38	NT4 samarium 143
NT4 molybdenum 91	NT4 potassium 40	NT4 scandium 40
NT4 neodymium 127	NT4 praseodymium 126	NT4 scandium 41
NT4 neodymium 128	NT4 praseodymium 127	NT4 scandium 42
NT4 neodymium 129	NT4 praseodymium 129	NT4 scandium 43
NT4 neodymium 130	NT4 praseodymium 130	NT4 scandium 44
NT4 neodymium 131	NT4 praseodymium 131	NT4 selenium 65
NT4 neodymium 132	NT4 praseodymium 132	NT4 selenium 67
NT4 neodymium 133	NT4 praseodymium 133	NT4 selenium 68
NT4 neodymium 134	NT4 praseodymium 134	NT4 selenium 69
NT4 neodymium 135	NT4 praseodymium 135	NT4 selenium 70
NT4 neodymium 136	NT4 praseodymium 136	NT4 selenium 71
NT4 neodymium 137	NT4 praseodymium 137	NT4 selenium 73
NT4 neodymium 138	NT4 praseodymium 138	NT4 silicon 24
NT4 neodymium 139	NT4 praseodymium 139	NT4 silicon 25
NT4 neodymium 141	NT4 praseodymium 140	NT4 silicon 26
NT4 neon 17	NT4 promethium 132	NT4 silicon 27
NT4 neon 18	NT4 promethium 133	NT4 silver 100
NT4 neon 19	NT4 promethium 134	NT4 silver 101
NT4 neptunium 234	NT4 promethium 135	NT4 silver 102
NT4 nickel 49	NT4 promethium 136	NT4 silver 103
NT4 nickel 50	NT4 promethium 137	NT4 silver 104
NT4 nickel 52	NT4 promethium 138	NT4 silver 105
NT4 nickel 53	NT4 promethium 139	NT4 silver 106
NT4 nickel 55	NT4 promethium 140	NT4 silver 108
NT4 nickel 56	NT4 promethium 141	NT4 silver 94
NT4 nickel 57	NT4 promethium 142	NT4 silver 96
NT4 niobium 83	NT4 protactinium 230	NT4 silver 98
NT4 niobium 84	NT4 radon 207	NT4 silver 99
NT4 niobium 85	NT4 radon 209	NT4 sodium 19
NT4 niobium 87	NT4 rhenium 165	NT4 sodium 20
NT4 niobium 88	NT4 rhenium 170	NT4 sodium 21
NT4 niobium 89	NT4 rhenium 171	NT4 sodium 22
NT4 niobium 90	NT4 rhenium 172	NT4 strontium 75
NT4 niobium 92	NT4 rhenium 174	NT4 strontium 76
NT4 nitrogen 12	NT4 rhenium 175	NT4 strontium 77
NT4 nitrogen 13	NT4 rhenium 176	NT4 strontium 78
NT4 osmium 172	NT4 rhenium 177	NT4 strontium 79
NT4 osmium 173	NT4 rhenium 178	NT4 strontium 80
NT4 osmium 174	NT4 rhenium 179	NT4 strontium 81
NT4 osmium 175	NT4 rhenium 180	NT4 strontium 83
NT4 osmium 176	NT4 rhenium 182	NT4 sulfur 28
NT4 osmium 177	NT4 rhodium 100	NT4 sulfur 29
NT4 osmium 178	NT4 rhodium 102	NT4 sulfur 30
NT4 osmium 179	NT4 rhodium 91	NT4 sulfur 31
NT4 osmium 181	NT4 rhodium 92	NT4 tantalum 165
NT4 osmium 183	NT4 rhodium 93	NT4 tantalum 166
NT4 oxygen 13	NT4 rhodium 94	NT4 tantalum 167
NT4 oxygen 14	NT4 rhodium 95	NT4 tantalum 168
NT4 oxygen 15	NT4 rhodium 96	NT4 tantalum 169
NT4 palladium 101	NT4 rhodium 97	NT4 tantalum 170
NT4 palladium 93	NT4 rhodium 98	NT4 tantalum 171
NT4 palladium 94	NT4 rhodium 99	NT4 tantalum 172
NT4 palladium 95	NT4 rubidium 73	NT4 tantalum 173
NT4 palladium 97	NT4 rubidium 74	NT4 tantalum 174
NT4 palladium 98	NT4 rubidium 75	NT4 tantalum 175
NT4 palladium 99	NT4 rubidium 76	NT4 tantalum 176
NT4 phosphorus 26	NT4 rubidium 77	NT4 tantalum 177
NT4 phosphorus 28	NT4 rubidium 78	NT4 tantalum 178
NT4 phosphorus 29	NT4 rubidium 79	NT4 technetium 88
NT4 phosphorus 30	NT4 rubidium 80	NT4 technetium 89
NT4 platinum 174	NT4 rubidium 81	NT4 technetium 90
NT4 platinum 182	NT4 rubidium 82	NT4 technetium 91
NT4 platinum 183	NT4 rubidium 84	NT4 technetium 92
NT4 platinum 184	NT4 ruthenium 88	NT4 technetium 93
NT4 platinum 185	NT4 ruthenium 89	NT4 technetium 94
NT4 platinum 187	NT4 ruthenium 92	NT4 technetium 95
NT4 platinum 189	NT4 ruthenium 93	NT4 technetium 96
NT4 polonium 198	NT4 ruthenium 95	NT4 tellurium 107
NT4 polonium 199	NT4 samarium 133	NT4 tellurium 108



NT4	tellurium 109	NT4	vanadium 43	NT4	antimony 116
NT4	tellurium 110	NT4	vanadium 44	NT4	antimony 117
NT4	tellurium 111	NT4	vanadium 45	NT4	antimony 118
NT4	tellurium 112	NT4	vanadium 46	NT4	antimony 119
NT4	tellurium 113	NT4	vanadium 47	NT4	antimony 120
NT4	tellurium 114	NT4	vanadium 48	NT4	antimony 122
NT4	tellurium 115	NT4	xenon 110	NT4	argon 37
NT4	tellurium 116	NT4	xenon 111	NT4	arsenic 67
NT4	tellurium 117	NT4	xenon 112	NT4	arsenic 70
NT4	tellurium 118	NT4	xenon 113	NT4	arsenic 71
NT4	tellurium 119	NT4	xenon 114	NT4	arsenic 72
NT4	tellurium 121	NT4	xenon 115	NT4	arsenic 73
NT4	terbium 139	NT4	xenon 116	NT4	arsenic 74
NT4	terbium 141	NT4	xenon 117	NT4	astatine 195
NT4	terbium 143	NT4	xenon 118	NT4	astatine 197
NT4	terbium 144	NT4	xenon 119	NT4	astatine 199
NT4	terbium 145	NT4	xenon 120	NT4	astatine 200
NT4	terbium 146	NT4	xenon 121	NT4	astatine 201
NT4	terbium 147	NT4	xenon 122	NT4	astatine 202
NT4	terbium 148	NT4	xenon 123	NT4	astatine 203
NT4	terbium 149	NT4	xenon 125	NT4	astatine 204
NT4	terbium 150	NT4	ytterbium 153	NT4	astatine 205
NT4	terbium 151	NT4	ytterbium 158	NT4	astatine 206
NT4	terbium 152	NT4	ytterbium 160	NT4	astatine 207
NT4	terbium 153	NT4	ytterbium 161	NT4	astatine 208
NT4	terbium 154	NT4	ytterbium 162	NT4	astatine 209
NT4	terbium 156	NT4	ytterbium 163	NT4	astatine 210
NT4	thallium 182	NT4	ytterbium 165	NT4	astatine 211
NT4	thallium 184	NT4	ytterbium 167	NT4	barium 117
NT4	thallium 186	NT4	yttrium 79	NT4	barium 119
NT4	thallium 188	NT4	yttrium 80	NT4	barium 120
NT4	thallium 189	NT4	yttrium 81	NT4	barium 121
NT4	thallium 190	NT4	yttrium 82	NT4	barium 122
NT4	thallium 191	NT4	yttrium 83	NT4	barium 123
NT4	thallium 192	NT4	yttrium 84	NT4	barium 124
NT4	thallium 193	NT4	yttrium 85	NT4	barium 125
NT4	thallium 194	NT4	yttrium 86	NT4	barium 126
NT4	thallium 195	NT4	yttrium 87	NT4	barium 127
NT4	thallium 196	NT4	yttrium 88	NT4	barium 128
NT4	thallium 197	NT4	zinc 57	NT4	barium 129
NT4	thallium 198	NT4	zinc 59	NT4	barium 131
NT4	thallium 200	NT4	zinc 60	NT4	barium 133
NT4	thulium 148	NT4	zinc 61	NT4	berkelium 240
NT4	thulium 156	NT4	zinc 62	NT4	berkelium 242
NT4	thulium 157	NT4	zinc 63	NT4	berkelium 243
NT4	thulium 158	NT4	zinc 65	NT4	berkelium 244
NT4	thulium 159	NT4	zirconium 81	NT4	berkelium 245
NT4	thulium 160	NT4	zirconium 82	NT4	berkelium 246
NT4	thulium 161	NT4	zirconium 83	NT4	berkelium 248
NT4	thulium 162	NT4	zirconium 84	NT4	beryllium 7
NT4	thulium 163	NT4	zirconium 85	NT4	bismuth 190
NT4	thulium 164	NT4	zirconium 87	NT4	bismuth 191
NT4	thulium 165	NT4	zirconium 89	NT4	bismuth 192
NT4	thulium 166	NT3	electron capture radioisotopes	NT4	bismuth 193
NT4	tin 100	NT4	actinium 214	NT4	bismuth 194
NT4	tin 102	NT4	actinium 215	NT4	bismuth 195
NT4	tin 103	NT4	actinium 222	NT4	bismuth 196
NT4	tin 105	NT4	actinium 223	NT4	bismuth 197
NT4	tin 106	NT4	actinium 224	NT4	bismuth 198
NT4	tin 107	NT4	actinium 226	NT4	bismuth 199
NT4	tin 108	NT4	americium 232	NT4	bismuth 200
NT4	tin 109	NT4	americium 233	NT4	bismuth 201
NT4	tin 111	NT4	americium 234	NT4	bismuth 202
NT4	titanium 39	NT4	americium 235	NT4	bismuth 203
NT4	titanium 40	NT4	americium 236	NT4	bismuth 204
NT4	titanium 41	NT4	americium 237	NT4	bismuth 205
NT4	titanium 42	NT4	americium 238	NT4	bismuth 206
NT4	titanium 43	NT4	americium 239	NT4	bismuth 207
NT4	titanium 45	NT4	americium 240	NT4	bismuth 208
NT4	tungsten 168	NT4	americium 242	NT4	bromine 71
NT4	tungsten 169	NT4	americium 244	NT4	bromine 73
NT4	tungsten 170	NT4	antimony 107	NT4	bromine 74
NT4	tungsten 171	NT4	antimony 109	NT4	bromine 75
NT4	tungsten 172	NT4	antimony 110	NT4	bromine 76
NT4	tungsten 173	NT4	antimony 111	NT4	bromine 77
NT4	tungsten 175	NT4	antimony 112	NT4	bromine 78
NT4	tungsten 177	NT4	antimony 113	NT4	bromine 80
NT4	tungsten 190	NT4	antimony 114	NT4	cadmium 100
NT4	vanadium 42	NT4	antimony 115	NT4	cadmium 101

NT4 cadmium 102	NT4 dysprosium 159	NT4 germanium 71
NT4 cadmium 103	NT4 einsteinium 244	NT4 gold 180
NT4 cadmium 104	NT4 einsteinium 245	NT4 gold 181
NT4 cadmium 105	NT4 einsteinium 246	NT4 gold 182
NT4 cadmium 107	NT4 einsteinium 247	NT4 gold 183
NT4 cadmium 109	NT4 einsteinium 248	NT4 gold 184
NT4 cadmium 96	NT4 einsteinium 249	NT4 gold 185
NT4 cadmium 97	NT4 einsteinium 250	NT4 gold 186
NT4 calcium 41	NT4 einsteinium 251	NT4 gold 187
NT4 californium 241	NT4 einsteinium 252	NT4 gold 188
NT4 californium 243	NT4 einsteinium 254	NT4 gold 189
NT4 californium 245	NT4 erbium 146	NT4 gold 190
NT4 californium 247	NT4 erbium 147	NT4 gold 191
NT4 cerium 121	NT4 erbium 149	NT4 gold 192
NT4 cerium 123	NT4 erbium 150	NT4 gold 193
NT4 cerium 126	NT4 erbium 151	NT4 gold 194
NT4 cerium 127	NT4 erbium 152	NT4 gold 195
NT4 cerium 128	NT4 erbium 153	NT4 gold 196
NT4 cerium 129	NT4 erbium 154	NT4 hafnium 154
NT4 cerium 130	NT4 erbium 155	NT4 hafnium 155
NT4 cerium 131	NT4 erbium 156	NT4 hafnium 157
NT4 cerium 132	NT4 erbium 157	NT4 hafnium 158
NT4 cerium 133	NT4 erbium 158	NT4 hafnium 159
NT4 cerium 134	NT4 erbium 159	NT4 hafnium 160
NT4 cerium 135	NT4 erbium 160	NT4 hafnium 162
NT4 cerium 137	NT4 erbium 161	NT4 hafnium 163
NT4 cerium 139	NT4 erbium 163	NT4 hafnium 166
NT4 cesium 114	NT4 erbium 165	NT4 hafnium 167
NT4 cesium 115	NT4 europium 139	NT4 hafnium 168
NT4 cesium 116	NT4 europium 140	NT4 hafnium 169
NT4 cesium 117	NT4 europium 141	NT4 hafnium 170
NT4 cesium 118	NT4 europium 142	NT4 hafnium 171
NT4 cesium 119	NT4 europium 143	NT4 hafnium 172
NT4 cesium 120	NT4 europium 144	NT4 hafnium 173
NT4 cesium 121	NT4 europium 145	NT4 hafnium 175
NT4 cesium 122	NT4 europium 146	NT4 holmium 143
NT4 cesium 123	NT4 europium 147	NT4 holmium 145
NT4 cesium 124	NT4 europium 148	NT4 holmium 147
NT4 cesium 125	NT4 europium 149	NT4 holmium 149
NT4 cesium 126	NT4 europium 150	NT4 holmium 150
NT4 cesium 127	NT4 europium 152	NT4 holmium 151
NT4 cesium 128	NT4 europium 154	NT4 holmium 152
NT4 cesium 129	NT4 fermium 247	NT4 holmium 153
NT4 cesium 130	NT4 fermium 249	NT4 holmium 154
NT4 cesium 131	NT4 fermium 251	NT4 holmium 155
NT4 cesium 132	NT4 fermium 253	NT4 holmium 156
NT4 cesium 134	NT4 francium 204	NT4 holmium 157
NT4 chlorine 36	NT4 francium 206	NT4 holmium 158
NT4 chromium 48	NT4 francium 207	NT4 holmium 159
NT4 chromium 49	NT4 francium 208	NT4 holmium 160
NT4 chromium 51	NT4 francium 209	NT4 holmium 161
NT4 cobalt 55	NT4 francium 210	NT4 holmium 162
NT4 cobalt 56	NT4 francium 211	NT4 holmium 163
NT4 cobalt 57	NT4 francium 212	NT4 holmium 164
NT4 cobalt 58	NT4 francium 213	NT4 indium 102
NT4 copper 58	NT4 gadolinium 135	NT4 indium 103
NT4 copper 60	NT4 gadolinium 141	NT4 indium 104
NT4 copper 61	NT4 gadolinium 143	NT4 indium 105
NT4 copper 62	NT4 gadolinium 144	NT4 indium 106
NT4 copper 64	NT4 gadolinium 145	NT4 indium 107
NT4 curium 232	NT4 gadolinium 146	NT4 indium 108
NT4 curium 238	NT4 gadolinium 147	NT4 indium 109
NT4 curium 239	NT4 gadolinium 149	NT4 indium 110
NT4 curium 241	NT4 gadolinium 151	NT4 indium 111
NT4 dubnium 258	NT4 gadolinium 153	NT4 indium 112
NT4 dysprosium 140	NT4 gallium 62	NT4 indium 114
NT4 dysprosium 141	NT4 gallium 63	NT4 iodine 110
NT4 dysprosium 143	NT4 gallium 64	NT4 iodine 111
NT4 dysprosium 144	NT4 gallium 65	NT4 iodine 112
NT4 dysprosium 145	NT4 gallium 66	NT4 iodine 113
NT4 dysprosium 147	NT4 gallium 67	NT4 iodine 114
NT4 dysprosium 148	NT4 gallium 68	NT4 iodine 115
NT4 dysprosium 149	NT4 gallium 70	NT4 iodine 116
NT4 dysprosium 150	NT4 germanium 64	NT4 iodine 117
NT4 dysprosium 151	NT4 germanium 65	NT4 iodine 118
NT4 dysprosium 152	NT4 germanium 66	NT4 iodine 119
NT4 dysprosium 153	NT4 germanium 67	NT4 iodine 120
NT4 dysprosium 155	NT4 germanium 68	NT4 iodine 121
NT4 dysprosium 157	NT4 germanium 69	NT4 iodine 122

NT4	iodine 123	NT4	lutetium 158	NT4	nickel 57
NT4	iodine 124	NT4	lutetium 159	NT4	nickel 59
NT4	iodine 125	NT4	lutetium 160	NT4	niobium 84
NT4	iodine 126	NT4	lutetium 161	NT4	niobium 85
NT4	iodine 128	NT4	lutetium 162	NT4	niobium 86
NT4	iridium 178	NT4	lutetium 163	NT4	niobium 87
NT4	iridium 179	NT4	lutetium 164	NT4	niobium 88
NT4	iridium 180	NT4	lutetium 165	NT4	niobium 90
NT4	iridium 181	NT4	lutetium 166	NT4	niobium 91
NT4	iridium 182	NT4	lutetium 167	NT4	niobium 92
NT4	iridium 183	NT4	lutetium 168	NT4	nitrogen 13
NT4	iridium 184	NT4	lutetium 169	NT4	nobelium 253
NT4	iridium 185	NT4	lutetium 170	NT4	nobelium 254
NT4	iridium 186	NT4	lutetium 171	NT4	nobelium 255
NT4	iridium 187	NT4	lutetium 172	NT4	nobelium 259
NT4	iridium 188	NT4	lutetium 173	NT4	osmium 166
NT4	iridium 189	NT4	lutetium 174	NT4	osmium 167
NT4	iridium 190	NT4	manganese 51	NT4	osmium 168
NT4	iridium 192	NT4	manganese 52	NT4	osmium 169
NT4	iron 45	NT4	manganese 53	NT4	osmium 170
NT4	iron 52	NT4	manganese 54	NT4	osmium 171
NT4	iron 53	NT4	mendelevium 248	NT4	osmium 172
NT4	iron 55	NT4	mendelevium 249	NT4	osmium 173
NT4	krypton 69	NT4	mendelevium 250	NT4	osmium 174
NT4	krypton 71	NT4	mendelevium 251	NT4	osmium 175
NT4	krypton 72	NT4	mendelevium 252	NT4	osmium 176
NT4	krypton 73	NT4	mendelevium 253	NT4	osmium 177
NT4	krypton 74	NT4	mendelevium 254	NT4	osmium 178
NT4	krypton 75	NT4	mendelevium 255	NT4	osmium 179
NT4	krypton 76	NT4	mendelevium 256	NT4	osmium 180
NT4	krypton 77	NT4	mendelevium 257	NT4	osmium 181
NT4	krypton 79	NT4	mendelevium 258	NT4	osmium 182
NT4	krypton 81	NT4	mercury 177	NT4	osmium 183
NT4	lanthanum 120	NT4	mercury 178	NT4	osmium 185
NT4	lanthanum 121	NT4	mercury 179	NT4	palladium 100
NT4	lanthanum 122	NT4	mercury 180	NT4	palladium 101
NT4	lanthanum 123	NT4	mercury 181	NT4	palladium 103
NT4	lanthanum 124	NT4	mercury 182	NT4	palladium 94
NT4	lanthanum 125	NT4	mercury 183	NT4	palladium 95
NT4	lanthanum 126	NT4	mercury 184	NT4	palladium 96
NT4	lanthanum 127	NT4	mercury 185	NT4	palladium 97
NT4	lanthanum 128	NT4	mercury 186	NT4	palladium 98
NT4	lanthanum 129	NT4	mercury 187	NT4	palladium 99
NT4	lanthanum 130	NT4	mercury 188	NT4	platinum 173
NT4	lanthanum 131	NT4	mercury 189	NT4	platinum 174
NT4	lanthanum 132	NT4	mercury 190	NT4	platinum 175
NT4	lanthanum 133	NT4	mercury 191	NT4	platinum 176
NT4	lanthanum 134	NT4	mercury 192	NT4	platinum 177
NT4	lanthanum 135	NT4	mercury 193	NT4	platinum 178
NT4	lanthanum 136	NT4	mercury 194	NT4	platinum 179
NT4	lanthanum 137	NT4	mercury 195	NT4	platinum 180
NT4	lanthanum 138	NT4	mercury 197	NT4	platinum 181
NT4	lawrencium 254	NT4	molybdenum 87	NT4	platinum 182
NT4	lawrencium 255	NT4	molybdenum 88	NT4	platinum 183
NT4	lawrencium 256	NT4	molybdenum 89	NT4	platinum 184
NT4	lead 186	NT4	molybdenum 90	NT4	platinum 185
NT4	lead 187	NT4	molybdenum 91	NT4	platinum 186
NT4	lead 188	NT4	molybdenum 93	NT4	platinum 187
NT4	lead 189	NT4	neodymium 125	NT4	platinum 188
NT4	lead 190	NT4	neodymium 129	NT4	platinum 189
NT4	lead 191	NT4	neodymium 130	NT4	platinum 191
NT4	lead 192	NT4	neodymium 132	NT4	platinum 193
NT4	lead 193	NT4	neodymium 133	NT4	plutonium 232
NT4	lead 194	NT4	neodymium 134	NT4	plutonium 233
NT4	lead 195	NT4	neodymium 135	NT4	plutonium 234
NT4	lead 196	NT4	neodymium 136	NT4	plutonium 235
NT4	lead 197	NT4	neodymium 137	NT4	plutonium 237
NT4	lead 198	NT4	neodymium 138	NT4	polonium 196
NT4	lead 199	NT4	neodymium 139	NT4	polonium 197
NT4	lead 200	NT4	neodymium 140	NT4	polonium 198
NT4	lead 201	NT4	neodymium 141	NT4	polonium 199
NT4	lead 202	NT4	neptunium 230	NT4	polonium 200
NT4	lead 203	NT4	neptunium 231	NT4	polonium 201
NT4	lead 205	NT4	neptunium 232	NT4	polonium 202
NT4	lutetium 153	NT4	neptunium 233	NT4	polonium 203
NT4	lutetium 154	NT4	neptunium 234	NT4	polonium 204
NT4	lutetium 155	NT4	neptunium 235	NT4	polonium 205
NT4	lutetium 156	NT4	neptunium 236	NT4	polonium 206
NT4	lutetium 157	NT4	nickel 56	NT4	polonium 207

NT4 polonium 208	NT4 rhodium 90	NT4 tantalum 174
NT4 polonium 209	NT4 rhodium 91	NT4 tantalum 175
NT4 potassium 40	NT4 rhodium 92	NT4 tantalum 176
NT4 praseodymium 125	NT4 rhodium 93	NT4 tantalum 177
NT4 praseodymium 127	NT4 rhodium 95	NT4 tantalum 178
NT4 praseodymium 128	NT4 rhodium 96	NT4 tantalum 179
NT4 praseodymium 129	NT4 rhodium 97	NT4 tantalum 180
NT4 praseodymium 130	NT4 rhodium 98	NT4 technetium 90
NT4 praseodymium 132	NT4 rhodium 99	NT4 technetium 91
NT4 praseodymium 133	NT4 rubidium 76	NT4 technetium 92
NT4 praseodymium 134	NT4 rubidium 77	NT4 technetium 93
NT4 praseodymium 135	NT4 rubidium 78	NT4 technetium 94
NT4 praseodymium 136	NT4 rubidium 79	NT4 technetium 95
NT4 praseodymium 137	NT4 rubidium 81	NT4 technetium 96
NT4 praseodymium 138	NT4 rubidium 82	NT4 technetium 97
NT4 praseodymium 139	NT4 rubidium 83	NT4 tellurium 107
NT4 praseodymium 140	NT4 rubidium 84	NT4 tellurium 108
NT4 praseodymium 142	NT4 rubidium 86	NT4 tellurium 109
NT4 promethium 129	NT4 ruthenium 90	NT4 tellurium 110
NT4 promethium 130	NT4 ruthenium 91	NT4 tellurium 111
NT4 promethium 131	NT4 ruthenium 92	NT4 tellurium 112
NT4 promethium 132	NT4 ruthenium 93	NT4 tellurium 113
NT4 promethium 133	NT4 ruthenium 94	NT4 tellurium 114
NT4 promethium 134	NT4 ruthenium 95	NT4 tellurium 115
NT4 promethium 135	NT4 ruthenium 97	NT4 tellurium 116
NT4 promethium 136	NT4 samarium 133	NT4 tellurium 117
NT4 promethium 137	NT4 samarium 134	NT4 tellurium 118
NT4 promethium 138	NT4 samarium 135	NT4 tellurium 119
NT4 promethium 139	NT4 samarium 136	NT4 tellurium 121
NT4 promethium 140	NT4 samarium 137	NT4 tellurium 123
NT4 promethium 141	NT4 samarium 138	NT4 terbium 139
NT4 promethium 142	NT4 samarium 139	NT4 terbium 141
NT4 promethium 143	NT4 samarium 140	NT4 terbium 143
NT4 promethium 144	NT4 samarium 141	NT4 terbium 144
NT4 promethium 145	NT4 samarium 142	NT4 terbium 146
NT4 promethium 146	NT4 samarium 143	NT4 terbium 147
NT4 protactinium 226	NT4 samarium 145	NT4 terbium 148
NT4 protactinium 227	NT4 scandium 44	NT4 terbium 149
NT4 protactinium 228	NT4 selenium 69	NT4 terbium 150
NT4 protactinium 229	NT4 selenium 70	NT4 terbium 151
NT4 protactinium 230	NT4 selenium 71	NT4 terbium 152
NT4 radium 213	NT4 selenium 72	NT4 terbium 153
NT4 radium 214	NT4 selenium 73	NT4 terbium 154
NT4 radon 200	NT4 selenium 75	NT4 terbium 155
NT4 radon 201	NT4 silver 100	NT4 terbium 156
NT4 radon 202	NT4 silver 101	NT4 terbium 157
NT4 radon 203	NT4 silver 102	NT4 terbium 158
NT4 radon 204	NT4 silver 103	NT4 thallium 184
NT4 radon 205	NT4 silver 104	NT4 thallium 186
NT4 radon 206	NT4 silver 105	NT4 thallium 187
NT4 radon 207	NT4 silver 106	NT4 thallium 188
NT4 radon 208	NT4 silver 108	NT4 thallium 189
NT4 radon 209	NT4 silver 110	NT4 thallium 190
NT4 radon 210	NT4 silver 95	NT4 thallium 191
NT4 radon 211	NT4 silver 96	NT4 thallium 192
NT4 rhenium 163	NT4 silver 97	NT4 thallium 193
NT4 rhenium 164	NT4 silver 98	NT4 thallium 194
NT4 rhenium 165	NT4 silver 99	NT4 thallium 195
NT4 rhenium 168	NT4 strontium 76	NT4 thallium 196
NT4 rhenium 170	NT4 strontium 78	NT4 thallium 197
NT4 rhenium 171	NT4 strontium 79	NT4 thallium 198
NT4 rhenium 172	NT4 strontium 80	NT4 thallium 199
NT4 rhenium 173	NT4 strontium 81	NT4 thallium 200
NT4 rhenium 174	NT4 strontium 82	NT4 thallium 201
NT4 rhenium 175	NT4 strontium 83	NT4 thallium 202
NT4 rhenium 176	NT4 strontium 85	NT4 thallium 204
NT4 rhenium 177	NT4 strontium 87	NT4 thorium 225
NT4 rhenium 178	NT4 tantalum 158	NT4 thulium 148
NT4 rhenium 179	NT4 tantalum 159	NT4 thulium 152
NT4 rhenium 180	NT4 tantalum 160	NT4 thulium 153
NT4 rhenium 181	NT4 tantalum 165	NT4 thulium 154
NT4 rhenium 182	NT4 tantalum 166	NT4 thulium 155
NT4 rhenium 183	NT4 tantalum 167	NT4 thulium 156
NT4 rhenium 184	NT4 tantalum 168	NT4 thulium 157
NT4 rhenium 186	NT4 tantalum 169	NT4 thulium 158
NT4 rhodium 100	NT4 tantalum 170	NT4 thulium 159
NT4 rhodium 101	NT4 tantalum 171	NT4 thulium 160
NT4 rhodium 102	NT4 tantalum 172	NT4 thulium 161
NT4 rhodium 104	NT4 tantalum 173	NT4 thulium 162

NT4	thulium 163	NT4	yttrium 81	NT3	einsteinium 254
NT4	thulium 164	NT4	yttrium 83	NT3	einsteinium 255
NT4	thulium 165	NT4	yttrium 84	NT3	erbium 160
NT4	thulium 166	NT4	yttrium 85	NT3	erbium 169
NT4	thulium 167	NT4	yttrium 86	NT3	erbium 172
NT4	thulium 168	NT4	yttrium 87	NT3	europium 145
NT4	thulium 170	NT4	yttrium 88	NT3	europium 146
NT4	tin 100	NT4	zinc 60	NT3	europium 147
NT4	tin 102	NT4	zinc 61	NT3	europium 148
NT4	tin 106	NT4	zinc 62	NT3	europium 149
NT4	tin 107	NT4	zinc 63	NT3	europium 156
NT4	tin 108	NT4	zinc 65	NT3	fermium 252
NT4	tin 109	NT4	zirconium 84	NT3	fermium 253
NT4	tin 110	NT4	zirconium 85	NT3	fermium 257
NT4	tin 111	NT4	zirconium 86	NT3	gadolinium 146
NT4	tin 113	NT4	zirconium 87	NT3	gadolinium 147
NT4	titanium 44	NT4	zirconium 88	NT3	gadolinium 149
NT4	titanium 45	NT4	zirconium 89	NT3	gadolinium 151
NT4	tungsten 161	NT2	bone seekers	NT3	gadolinium 153
NT4	tungsten 162	NT2	days living radioisotopes	NT3	gallium 67
NT4	tungsten 163	NT3	actinium 225	NT3	germanium 68
NT4	tungsten 164	NT3	actinium 226	NT3	germanium 69
NT4	tungsten 165	NT3	americium 240	NT3	germanium 71
NT4	tungsten 166	NT3	antimony 119	NT3	gold 194
NT4	tungsten 168	NT3	antimony 120	NT3	gold 195
NT4	tungsten 169	NT3	antimony 122	NT3	gold 196
NT4	tungsten 170	NT3	antimony 124	NT3	gold 198
NT4	tungsten 171	NT3	antimony 126	NT3	gold 199
NT4	tungsten 172	NT3	antimony 127	NT3	hafnium 175
NT4	tungsten 173	NT3	argon 37	NT3	hafnium 179
NT4	tungsten 174	NT3	arsenic 71	NT3	hafnium 181
NT4	tungsten 175	NT3	arsenic 72	NT3	holmium 166
NT4	tungsten 176	NT3	arsenic 73	NT3	indium 111
NT4	tungsten 177	NT3	arsenic 74	NT3	indium 114
NT4	tungsten 178	NT3	arsenic 76	NT3	iodine 124
NT4	tungsten 179	NT3	arsenic 77	NT3	iodine 125
NT4	tungsten 181	NT3	barium 128	NT3	iodine 126
NT4	uranium 228	NT3	barium 131	NT3	iodine 131
NT4	uranium 229	NT3	barium 133	NT3	iridium 188
NT4	uranium 231	NT3	barium 135	NT3	iridium 189
NT4	vanadium 42	NT3	barium 140	NT3	iridium 190
NT4	vanadium 45	NT3	berkelium 245	NT3	iridium 192
NT4	vanadium 47	NT3	berkelium 246	NT3	iridium 193
NT4	vanadium 48	NT3	berkelium 249	NT3	iridium 194
NT4	vanadium 49	NT3	beryllium 7	NT3	iron 59
NT4	vanadium 50	NT3	bismuth 205	NT3	krypton 79
NT4	xenon 110	NT3	bismuth 206	NT3	lanthanum 140
NT4	xenon 111	NT3	bismuth 210	NT3	lead 203
NT4	xenon 112	NT3	bromine 77	NT3	lutetium 169
NT4	xenon 113	NT3	bromine 82	NT3	lutetium 170
NT4	xenon 114	NT3	cadmium 115	NT3	lutetium 171
NT4	xenon 115	NT3	calcium 45	NT3	lutetium 172
NT4	xenon 116	NT3	calcium 47	NT3	lutetium 174
NT4	xenon 117	NT3	californium 246	NT3	lutetium 177
NT4	xenon 118	NT3	californium 248	NT3	manganese 52
NT4	xenon 119	NT3	californium 253	NT3	manganese 54
NT4	xenon 120	NT3	californium 254	NT3	mendelevium 258
NT4	xenon 121	NT3	cerium 134	NT3	mercury 195
NT4	xenon 122	NT3	cerium 137	NT3	mercury 197
NT4	xenon 123	NT3	cerium 139	NT3	mercury 203
NT4	xenon 125	NT3	cerium 141	NT3	molybdenum 99
NT4	xenon 127	NT3	cerium 143	NT3	neodymium 140
NT4	ytterbium 153	NT3	cerium 144	NT3	neodymium 147
NT4	ytterbium 155	NT3	cesium 129	NT3	neptunium 234
NT4	ytterbium 156	NT3	cesium 131	NT3	neptunium 238
NT4	ytterbium 157	NT3	cesium 132	NT3	neptunium 239
NT4	ytterbium 158	NT3	cesium 136	NT3	nickel 56
NT4	ytterbium 159	NT3	chromium 51	NT3	nickel 57
NT4	ytterbium 160	NT3	cobalt 56	NT3	nickel 66
NT4	ytterbium 161	NT3	cobalt 57	NT3	niobium 91
NT4	ytterbium 162	NT3	cobalt 58	NT3	niobium 92
NT4	ytterbium 163	NT3	copper 67	NT3	niobium 95
NT4	ytterbium 164	NT3	curium 240	NT3	osmium 185
NT4	ytterbium 165	NT3	curium 241	NT3	osmium 191
NT4	ytterbium 166	NT3	curium 242	NT3	osmium 193
NT4	ytterbium 167	NT3	dysprosium 159	NT3	palladium 100
NT4	ytterbium 169	NT3	dysprosium 166	NT3	palladium 103
NT4	yttrium 79	NT3	einsteinium 251	NT3	phosphorus 32
NT4	yttrium 80	NT3	einsteinium 253	NT3	phosphorus 33

NT3	platinum 188	NT3	thulium 165	NT3	astatine 210
NT3	platinum 191	NT3	thulium 167	NT3	astatine 211
NT3	platinum 193	NT3	thulium 168	NT3	barium 126
NT3	platinum 195	NT3	thulium 170	NT3	barium 129
NT3	plutonium 237	NT3	thulium 172	NT3	barium 139
NT3	plutonium 246	NT3	tin 113	NT3	berkelium 243
NT3	plutonium 247	NT3	tin 117	NT3	berkelium 244
NT3	polonium 206	NT3	tin 119	NT3	berkelium 248
NT3	polonium 210	NT3	tin 121	NT3	berkelium 250
NT3	praseodymium 143	NT3	tin 123	NT3	bismuth 201
NT3	promethium 143	NT3	tin 125	NT3	bismuth 202
NT3	promethium 148	NT3	tungsten 178	NT3	bismuth 203
NT3	promethium 149	NT3	tungsten 181	NT3	bismuth 204
NT3	promethium 151	NT3	tungsten 185	NT3	bismuth 212
NT3	protactinium 229	NT3	tungsten 187	NT3	bromine 75
NT3	protactinium 230	NT3	tungsten 188	NT3	bromine 76
NT3	protactinium 232	NT3	uranium 230	NT3	bromine 80
NT3	protactinium 233	NT3	uranium 231	NT3	bromine 83
NT3	radium 223	NT3	uranium 237	NT3	cadmium 107
NT3	radium 224	NT3	vanadium 48	NT3	cadmium 117
NT3	radium 225	NT3	vanadium 49	NT3	californium 247
NT3	radon 222	NT3	xenon 127	NT3	californium 255
NT3	rhenium 182	NT3	xenon 129	NT3	cerium 132
NT3	rhenium 183	NT3	xenon 131	NT3	cerium 133
NT3	rhenium 184	NT3	xenon 133	NT3	cerium 135
NT3	rhenium 186	NT3	ytterbium 166	NT3	cerium 137
NT3	rhenium 189	NT3	ytterbium 169	NT3	cesium 127
NT3	rhodium 101	NT3	ytterbium 175	NT3	cesium 134
NT3	rhodium 102	NT3	yttrium 87	NT3	chromium 48
NT3	rhodium 105	NT3	yttrium 88	NT3	cobalt 55
NT3	rhodium 99	NT3	yttrium 90	NT3	cobalt 58
NT3	rubidium 83	NT3	yttrium 91	NT3	cobalt 61
NT3	rubidium 84	NT3	zinc 65	NT3	copper 61
NT3	rubidium 86	NT3	zinc 72	NT3	copper 64
NT3	ruthenium 103	NT3	zirconium 88	NT3	curium 238
NT3	ruthenium 97	NT3	zirconium 89	NT3	curium 239
NT3	samarium 145	NT3	zirconium 95	NT3	curium 249
NT3	samarium 153	NT2	delayed neutron precursors	NT3	dysprosium 152
NT3	scandium 44	NT2	delayed proton precursors	NT3	dysprosium 153
NT3	scandium 46	NT2	heavy ion decay radioisotopes	NT3	dysprosium 155
NT3	scandium 47	NT3	carbon 12 decay radioisotopes	NT3	dysprosium 157
NT3	scandium 48	NT4	barium 114	NT3	dysprosium 165
NT3	selenium 72	NT3	carbon 14 decay radioisotopes	NT3	einsteinium 249
NT3	selenium 75	NT4	radium 222	NT3	einsteinium 250
NT3	silver 105	NT4	radium 223	NT3	einsteinium 256
NT3	silver 106	NT4	radium 224	NT3	erbium 158
NT3	silver 110	NT4	radium 226	NT3	erbium 161
NT3	silver 111	NT3	magnesium 28 decay radioisotopes	NT3	erbium 163
NT3	strontium 82	NT4	plutonium 236	NT3	erbium 165
NT3	strontium 83	NT4	uranium 234	NT3	erbium 171
NT3	strontium 85	NT3	neon 24 decay radioisotopes	NT3	europium 150
NT3	strontium 89	NT4	protactinium 231	NT3	europium 152
NT3	sulfur 35	NT4	thorium 230	NT3	europium 157
NT3	tantalum 177	NT4	uranium 232	NT3	fermium 251
NT3	tantalum 182	NT4	uranium 233	NT3	fermium 254
NT3	tantalum 183	NT4	uranium 234	NT3	fermium 255
NT3	technetium 95	NT3	silicon 32 decay radioisotopes	NT3	fermium 256
NT3	technetium 96	NT4	plutonium 238	NT3	fluorine 18
NT3	technetium 97	NT2	hours living radioisotopes	NT3	gadolinium 159
NT3	tellurium 118	NT3	actinium 224	NT3	gallium 66
NT3	tellurium 119	NT3	actinium 228	NT3	gallium 68
NT3	tellurium 121	NT3	actinium 229	NT3	gallium 72
NT3	tellurium 123	NT3	americium 237	NT3	gallium 73
NT3	tellurium 125	NT3	americium 238	NT3	germanium 66
NT3	tellurium 127	NT3	americium 239	NT3	germanium 75
NT3	tellurium 129	NT3	americium 242	NT3	germanium 77
NT3	tellurium 131	NT3	americium 244	NT3	germanium 78
NT3	tellurium 132	NT3	americium 245	NT3	gold 191
NT3	terbium 153	NT3	antimony 116	NT3	gold 192
NT3	terbium 155	NT3	antimony 117	NT3	gold 193
NT3	terbium 156	NT3	antimony 118	NT3	gold 196
NT3	terbium 160	NT3	antimony 128	NT3	gold 200
NT3	terbium 161	NT3	antimony 129	NT3	hafnium 170
NT3	thallium 200	NT3	argon 41	NT3	hafnium 171
NT3	thallium 201	NT3	arsenic 78	NT3	hafnium 173
NT3	thallium 202	NT3	astatine 207	NT3	hafnium 180
NT3	thorium 227	NT3	astatine 208	NT3	hafnium 182
NT3	thorium 231	NT3	astatine 209	NT3	hafnium 183
NT3	thorium 234			NT3	hafnium 184

NT3	holmium 160	NT3	platinum 187	NT3	thallium 198
NT3	holmium 161	NT3	platinum 189	NT3	thallium 199
NT3	holmium 162	NT3	platinum 197	NT3	thulium 163
NT3	holmium 167	NT3	platinum 200	NT3	thulium 166
NT3	indium 109	NT3	plutonium 234	NT3	thulium 173
NT3	indium 110	NT3	plutonium 243	NT3	tin 110
NT3	indium 113	NT3	plutonium 245	NT3	tin 127
NT3	indium 115	NT3	polonium 204	NT3	titanium 45
NT3	indium 117	NT3	polonium 205	NT3	tungsten 176
NT3	iodine 120	NT3	polonium 207	NT3	tungsten 177
NT3	iodine 121	NT3	potassium 42	NT3	uranium 240
NT3	iodine 123	NT3	potassium 43	NT3	xenon 122
NT3	iodine 130	NT3	praseodymium 137	NT3	xenon 123
NT3	iodine 132	NT3	praseodymium 138	NT3	xenon 125
NT3	iodine 133	NT3	praseodymium 139	NT3	xenon 135
NT3	iodine 135	NT3	praseodymium 142	NT3	ytterbium 164
NT3	iridium 184	NT3	praseodymium 145	NT3	ytterbium 177
NT3	iridium 185	NT3	promethium 150	NT3	ytterbium 178
NT3	iridium 186	NT3	protactinium 228	NT3	yttrium 85
NT3	iridium 187	NT3	protactinium 234	NT3	yttrium 86
NT3	iridium 190	NT3	radium 230	NT3	yttrium 87
NT3	iridium 194	NT3	radon 210	NT3	yttrium 90
NT3	iridium 195	NT3	radon 211	NT3	yttrium 92
NT3	iridium 196	NT3	radon 224	NT3	yttrium 93
NT3	iron 52	NT3	rhenium 181	NT3	zinc 62
NT3	krypton 76	NT3	rhenium 182	NT3	zinc 69
NT3	krypton 77	NT3	rhenium 188	NT3	zinc 71
NT3	krypton 83	NT3	rhenium 190	NT3	zirconium 86
NT3	krypton 85	NT3	rhodium 100	NT3	zirconium 87
NT3	krypton 87	NT3	rhodium 106	NT3	zirconium 97
NT3	krypton 88	NT3	rhodium 99	NT2	internal conversion radioisotopes
NT3	lanthanum 132	NT3	rubidium 81	NT3	actinium 227
NT3	lanthanum 133	NT3	rubidium 82	NT3	antimony 119
NT3	lanthanum 135	NT3	ruthenium 105	NT3	antimony 122
NT3	lanthanum 141	NT3	ruthenium 95	NT3	antimony 124
NT3	lanthanum 142	NT3	samarium 142	NT3	antimony 126
NT3	lead 198	NT3	samarium 156	NT3	astatine 212
NT3	lead 199	NT3	scandium 43	NT3	barium 131
NT3	lead 200	NT3	scandium 44	NT3	barium 133
NT3	lead 201	NT3	selenium 73	NT3	barium 135
NT3	lead 202	NT3	silicon 31	NT3	berkelium 243
NT3	lead 204	NT3	silver 103	NT3	bromine 77
NT3	lead 209	NT3	silver 104	NT3	bromine 80
NT3	lead 212	NT3	silver 112	NT3	bromine 82
NT3	lutetium 176	NT3	silver 113	NT3	cadmium 111
NT3	lutetium 179	NT3	sodium 24	NT3	cadmium 113
NT3	magnesium 28	NT3	strontium 80	NT3	californium 247
NT3	manganese 56	NT3	strontium 85	NT3	californium 250
NT3	mendelevium 256	NT3	strontium 87	NT3	cerium 133
NT3	mendelevium 257	NT3	strontium 91	NT3	cerium 137
NT3	mendelevium 259	NT3	strontium 92	NT3	cesium 123
NT3	mercury 192	NT3	sulfur 38	NT3	cesium 134
NT3	mercury 193	NT3	tantalum 173	NT3	cesium 138
NT3	mercury 195	NT3	tantalum 174	NT3	cobalt 58
NT3	mercury 197	NT3	tantalum 175	NT3	cobalt 60
NT3	molybdenum 90	NT3	tantalum 176	NT3	dysprosium 159
NT3	molybdenum 93	NT3	tantalum 178	NT3	einsteinium 254
NT3	neodymium 138	NT3	tantalum 180	NT3	erbium 156
NT3	neodymium 139	NT3	tantalum 184	NT3	erbium 169
NT3	neodymium 141	NT3	technetium 93	NT3	germanium 73
NT3	neodymium 149	NT3	technetium 94	NT3	germanium 75
NT3	neptunium 236	NT3	technetium 95	NT3	gold 191
NT3	neptunium 240	NT3	technetium 99	NT3	gold 193
NT3	nickel 65	NT3	tellurium 116	NT3	gold 195
NT3	niobium 89	NT3	tellurium 117	NT3	gold 196
NT3	niobium 90	NT3	tellurium 119	NT3	gold 197
NT3	niobium 96	NT3	tellurium 127	NT3	hafnium 178
NT3	niobium 97	NT3	tellurium 129	NT3	hafnium 179
NT3	osmium 181	NT3	terbium 147	NT3	hafnium 180
NT3	osmium 182	NT3	terbium 148	NT3	holmium 158
NT3	osmium 183	NT3	terbium 149	NT3	holmium 160
NT3	osmium 189	NT3	terbium 150	NT3	holmium 164
NT3	osmium 191	NT3	terbium 151	NT3	indium 112
NT3	palladium 101	NT3	terbium 152	NT3	indium 114
NT3	palladium 109	NT3	terbium 154	NT3	indium 115
NT3	palladium 111	NT3	terbium 156	NT3	indium 116
NT3	palladium 112	NT3	thallium 195	NT3	indium 121
NT3	platinum 185	NT3	thallium 196	NT3	iodine 125
NT3	platinum 186	NT3	thallium 197	NT3	iodine 129

NT3	iodine 130	NT3	tellurium 123	NT3	erbium 151
NT3	iodine 132	NT3	tellurium 125	NT3	erbium 167
NT3	iodine 133	NT3	terbium 151	NT3	europium 141
NT3	iridium 190	NT3	terbium 157	NT3	europium 152
NT3	iridium 191	NT3	terbium 158	NT3	europium 154
NT3	iridium 192	NT3	thallium 198	NT3	fermium 250
NT3	iridium 193	NT3	thorium 234	NT3	fermium 256
NT3	krypton 79	NT3	thulium 159	NT3	fluorine 18
NT3	krypton 83	NT3	thulium 161	NT3	francium 206
NT3	lead 199	NT3	tin 113	NT3	francium 211
NT3	lead 202	NT3	tin 119	NT3	francium 212
NT3	lutetium 169	NT3	tin 121	NT3	francium 213
NT3	lutetium 170	NT3	tungsten 176	NT3	francium 218
NT3	lutetium 171	NT3	tungsten 181	NT3	gadolinium 141
NT3	lutetium 172	NT3	tungsten 185	NT3	gadolinium 145
NT3	lutetium 176	NT3	uranium 230	NT3	gadolinium 147
NT3	mercury 193	NT3	uranium 235	NT3	gadolinium 148
NT3	mercury 195	NT3	uranium 240	NT3	gallium 72
NT3	mercury 197	NT3	xenon 125	NT3	gallium 74
NT3	mercury 199	NT3	xenon 129	NT3	germanium 71
NT3	molybdenum 93	NT3	xenon 131	NT3	germanium 73
NT3	neodymium 147	NT3	xenon 133	NT3	germanium 75
NT3	neptunium 236	NT3	ytterbium 164	NT3	germanium 77
NT3	niobium 91	NT3	ytterbium 165	NT3	gold 191
NT3	niobium 93	NT3	ytterbium 166	NT3	gold 193
NT3	niobium 94	NT3	ytterbium 177	NT3	gold 195
NT3	osmium 180	NT3	yttrium 86	NT3	gold 196
NT3	osmium 189	NT2	isomeric transition isotopes	NT3	gold 197
NT3	osmium 190	NT3	actinium 222	NT3	gold 198
NT3	osmium 191	NT3	aluminium 24	NT3	gold 200
NT3	osmium 194	NT3	americium 242	NT3	hafnium 156
NT3	palladium 112	NT3	antimony 113	NT3	hafnium 177
NT3	platinum 193	NT3	antimony 117	NT3	hafnium 178
NT3	platinum 195	NT3	antimony 122	NT3	hafnium 179
NT3	platinum 197	NT3	antimony 124	NT3	hafnium 180
NT3	platinum 199	NT3	antimony 126	NT3	hafnium 182
NT3	plutonium 235	NT3	antimony 131	NT3	holmium 148
NT3	plutonium 237	NT3	arsenic 75	NT3	holmium 156
NT3	polonium 199	NT3	astatine 202	NT3	holmium 158
NT3	polonium 201	NT3	barium 127	NT3	holmium 159
NT3	polonium 202	NT3	barium 131	NT3	holmium 160
NT3	polonium 203	NT3	barium 133	NT3	holmium 161
NT3	polonium 205	NT3	barium 135	NT3	holmium 162
NT3	polonium 206	NT3	barium 136	NT3	holmium 163
NT3	polonium 207	NT3	barium 137	NT3	holmium 164
NT3	praseodymium 142	NT3	barium 138	NT3	holmium 168
NT3	promethium 145	NT3	bismuth 198	NT3	indium 104
NT3	radium 213	NT3	bismuth 201	NT3	indium 107
NT3	radium 225	NT3	bismuth 208	NT3	indium 109
NT3	radium 228	NT3	bismuth 211	NT3	indium 111
NT3	radium 230	NT3	bromine 76	NT3	indium 112
NT3	radon 210	NT3	bromine 77	NT3	indium 113
NT3	radon 211	NT3	bromine 79	NT3	indium 114
NT3	rhenium 183	NT3	bromine 80	NT3	indium 115
NT3	rhenium 184	NT3	bromine 82	NT3	indium 116
NT3	rhenium 188	NT3	bromine 83	NT3	indium 117
NT3	rhenium 189	NT3	cadmium 100	NT3	indium 118
NT3	rhodium 100	NT3	cadmium 111	NT3	indium 119
NT3	rhodium 101	NT3	cadmium 113	NT3	indium 121
NT3	rhodium 103	NT3	cerium 135	NT3	iodine 116
NT3	rhodium 105	NT3	cerium 137	NT3	iodine 121
NT3	rhodium 96	NT3	cerium 138	NT3	iodine 122
NT3	rubidium 81	NT3	cerium 139	NT3	iodine 130
NT3	samarium 145	NT3	cesium 121	NT3	iodine 132
NT3	samarium 151	NT3	cesium 123	NT3	iodine 133
NT3	scandium 46	NT3	cesium 134	NT3	iodine 134
NT3	selenium 79	NT3	cesium 135	NT3	iridium 190
NT3	selenium 81	NT3	cesium 136	NT3	iridium 191
NT3	silver 103	NT3	cesium 138	NT3	iridium 192
NT3	silver 105	NT3	chlorine 34	NT3	iridium 193
NT3	silver 107	NT3	chlorine 38	NT3	iridium 194
NT3	silver 109	NT3	cobalt 58	NT3	iron 53
NT3	silver 111	NT3	cobalt 60	NT3	krypton 79
NT3	silver 99	NT3	copper 68	NT3	krypton 81
NT3	tantalum 182	NT3	darmstadtium 271	NT3	krypton 83
NT3	technetium 96	NT3	dysprosium 140	NT3	krypton 84
NT3	technetium 97	NT3	dysprosium 147	NT3	krypton 85
NT3	technetium 99	NT3	dysprosium 149	NT3	krypton 86
NT3	tellurium 121	NT3	dysprosium 165	NT3	lanthanum 132



NT3	lead 194	NT3	rhodium 103	NT3	tin 102
NT3	lead 197	NT3	rhodium 104	NT3	tin 113
NT3	lead 199	NT3	rhodium 105	NT3	tin 117
NT3	lead 200	NT3	rhodium 95	NT3	tin 119
NT3	lead 201	NT3	rhodium 96	NT3	tin 121
NT3	lead 202	NT3	rhodium 97	NT3	tin 129
NT3	lead 203	NT3	rubidium 76	NT3	tin 131
NT3	lead 204	NT3	rubidium 78	NT3	tungsten 179
NT3	lead 205	NT3	rubidium 81	NT3	tungsten 180
NT3	lead 207	NT3	rubidium 84	NT3	tungsten 183
NT3	lutetium 153	NT3	rubidium 85	NT3	tungsten 185
NT3	lutetium 154	NT3	rubidium 86	NT3	uranium 235
NT3	lutetium 161	NT3	rubidium 90	NT3	xenon 125
NT3	lutetium 169	NT3	ruthenium 93	NT3	xenon 127
NT3	lutetium 170	NT3	samarium 139	NT3	xenon 129
NT3	lutetium 171	NT3	samarium 141	NT3	xenon 131
NT3	lutetium 172	NT3	samarium 143	NT3	xenon 133
NT3	lutetium 174	NT3	scandium 44	NT3	xenon 135
NT3	lutetium 177	NT3	scandium 46	NT3	ytterbium 153
NT3	manganese 60	NT3	scandium 50	NT3	ytterbium 169
NT3	mercury 193	NT3	selenium 73	NT3	ytterbium 175
NT3	mercury 195	NT3	selenium 77	NT3	ytterbium 176
NT3	mercury 197	NT3	selenium 79	NT3	ytterbium 177
NT3	mercury 199	NT3	selenium 81	NT3	yttrium 86
NT3	mercury 201	NT3	silver 101	NT3	yttrium 87
NT3	molybdenum 89	NT3	silver 102	NT3	yttrium 88
NT3	molybdenum 91	NT3	silver 103	NT3	yttrium 89
NT3	molybdenum 92	NT3	silver 105	NT3	yttrium 90
NT3	molybdenum 93	NT3	silver 107	NT3	yttrium 91
NT3	molybdenum 94	NT3	silver 108	NT3	yttrium 93
NT3	neodymium 137	NT3	silver 109	NT3	yttrium 97
NT3	neodymium 139	NT3	silver 110	NT3	zinc 69
NT3	neodymium 141	NT3	silver 111	NT3	zirconium 85
NT3	neptunium 237	NT3	silver 113	NT3	zirconium 87
NT3	niobium 86	NT3	silver 116	NT3	zirconium 89
NT3	niobium 90	NT3	silver 118	NT3	zirconium 90
NT3	niobium 91	NT3	silver 120	NT2	microseconds living radioisotopes
NT3	niobium 93	NT3	silver 99	NT3	actinium 216
NT3	niobium 94	NT3	sodium 22	NT3	actinium 218
NT3	niobium 95	NT3	sodium 24	NT3	actinium 219
NT3	niobium 97	NT3	strontium 83	NT3	astatine 215
NT3	niobelium 254	NT3	strontium 85	NT3	astatine 216
NT3	osmium 182	NT3	strontium 87	NT3	chromium 64
NT3	osmium 183	NT3	tantalum 182	NT3	darmstadtium 269
NT3	osmium 189	NT3	technetium 102	NT3	dysprosium 140
NT3	osmium 190	NT3	technetium 93	NT3	element 112 277
NT3	osmium 191	NT3	technetium 95	NT3	europium 130
NT3	osmium 192	NT3	technetium 96	NT3	fermium 242
NT3	palladium 107	NT3	technetium 97	NT3	fermium 258
NT3	palladium 109	NT3	technetium 99	NT3	francium 212
NT3	palladium 111	NT3	tellurium 121	NT3	francium 213
NT3	palladium 117	NT3	tellurium 123	NT3	francium 217
NT3	platinum 184	NT3	tellurium 125	NT3	gold 170
NT3	platinum 193	NT3	tellurium 127	NT3	gold 171
NT3	platinum 195	NT3	tellurium 129	NT3	hafnium 156
NT3	platinum 197	NT3	tellurium 131	NT3	hassium 264
NT3	platinum 199	NT3	tellurium 133	NT3	hassium 265
NT3	plutonium 237	NT3	terbium 144	NT3	iodine 109
NT3	polonium 201	NT3	terbium 146	NT3	iodine 116
NT3	polonium 203	NT3	terbium 151	NT3	iodine 121
NT3	polonium 207	NT3	terbium 152	NT3	iodine 122
NT3	polonium 210	NT3	terbium 154	NT3	krypton 84
NT3	potassium 40	NT3	terbium 156	NT3	krypton 85
NT3	praseodymium 142	NT3	terbium 158	NT3	lutetium 154
NT3	praseodymium 144	NT3	thallium 179	NT3	meitnerium 266
NT3	promethium 148	NT3	thallium 185	NT3	mercury 201
NT3	protactinium 234	NT3	thallium 186	NT3	nobelium 250
NT3	radium 213	NT3	thallium 187	NT3	polonium 188
NT3	radon 197	NT3	thallium 193	NT3	polonium 213
NT3	radon 210	NT3	thallium 195	NT3	polonium 214
NT3	radon 211	NT3	thallium 196	NT3	protactinium 218
NT3	rhenium 167	NT3	thallium 197	NT3	protactinium 221
NT3	rhenium 169	NT3	thallium 198	NT3	radium 217
NT3	rhenium 184	NT3	thallium 201	NT3	radium 218
NT3	rhenium 186	NT3	thallium 206	NT3	radon 215
NT3	rhenium 188	NT3	thallium 207	NT3	radon 216
NT3	rhenium 190	NT3	thulium 150	NT3	radon 217
NT3	rhodium 100	NT3	thulium 162	NT3	rubidium 76
NT3	rhodium 101	NT3	thulium 164	NT3	rutherfordium 253

NT3	rutherfordium 254	NT3	cadmium 130	NT3	hassium 265
NT3	tellurium 106	NT3	cadmium 96	NT3	hassium 266
NT3	thorium 217	NT3	calcium 36	NT3	hassium 267
NT3	thorium 219	NT3	calcium 37	NT3	helium 6
NT3	thorium 220	NT3	calcium 38	NT3	helium 8
NT3	thulium 144	NT3	calcium 39	NT3	holmium 141
NT3	thulium 145	NT3	calcium 53	NT3	holmium 143
NT3	tin 102	NT3	carbon 16	NT3	holmium 144
NT3	uranium 219	NT3	carbon 17	NT3	holmium 148
NT3	uranium 222	NT3	carbon 18	NT3	indium 114
NT3	uranium 223	NT3	carbon 9	NT3	indium 128
NT3	uranium 224	NT3	cesium 114	NT3	indium 129
NT3	ytterbium 153	NT3	cesium 116	NT3	indium 130
NT2	milliseconds living radioisotopes	NT3	cesium 145	NT3	indium 131
NT3	actinium 207	NT3	cesium 146	NT3	indium 132
NT3	actinium 208	NT3	cesium 147	NT3	indium 133
NT3	actinium 209	NT3	cesium 148	NT3	indium 134
NT3	actinium 210	NT3	cesium 149	NT3	indium 135
NT3	actinium 211	NT3	cesium 150	NT3	iodine 108
NT3	actinium 212	NT3	chlorine 31	NT3	iodine 110
NT3	actinium 213	NT3	chlorine 32	NT3	iodine 140
NT3	actinium 215	NT3	chromium 45	NT3	iodine 141
NT3	actinium 220	NT3	chromium 46	NT3	iodine 142
NT3	actinium 221	NT3	chromium 47	NT3	iridium 166
NT3	aluminium 22	NT3	chromium 60	NT3	iridium 167
NT3	aluminium 23	NT3	chromium 62	NT3	iridium 169
NT3	aluminium 24	NT3	chromium 63	NT3	iridium 194
NT3	aluminium 31	NT3	chromium 64	NT3	iron 45
NT3	aluminium 32	NT3	chromium 65	NT3	iron 46
NT3	aluminium 34	NT3	chromium 66	NT3	iron 49
NT3	antimony 104	NT3	cobalt 52	NT3	iron 51
NT3	antimony 134	NT3	cobalt 53	NT3	krypton 71
NT3	antimony 136	NT3	cobalt 54	NT3	krypton 94
NT3	argon 31	NT3	cobalt 64	NT3	krypton 95
NT3	argon 32	NT3	cobalt 66	NT3	lanthanum 150
NT3	argon 33	NT3	cobalt 67	NT3	lawrencium 257
NT3	argon 34	NT3	copper 56	NT3	lead 180
NT3	arsenic 64	NT3	copper 57	NT3	lead 182
NT3	arsenic 66	NT3	copper 76	NT3	lead 184
NT3	arsenic 75	NT3	copper 77	NT3	lead 205
NT3	arsenic 84	NT3	copper 78	NT3	lead 207
NT3	arsenic 86	NT3	copper 79	NT3	lithium 10
NT3	arsenic 87	NT3	darmstadtium 270	NT3	lithium 11
NT3	astatine 191	NT3	darmstadtium 271	NT3	lithium 8
NT3	astatine 193	NT3	dysprosium 149	NT3	lithium 9
NT3	astatine 194	NT3	erbium 151	NT3	lutetium 151
NT3	astatine 195	NT3	europium 131	NT3	lutetium 152
NT3	astatine 196	NT3	europium 134	NT3	lutetium 153
NT3	astatine 197	NT3	fermium 243	NT3	lutetium 155
NT3	astatine 212	NT3	fermium 244	NT3	lutetium 156
NT3	astatine 217	NT3	fluorine 24	NT3	lutetium 161
NT3	barium 114	NT3	francium 199	NT3	lutetium 170
NT3	barium 115	NT3	francium 200	NT3	magnesium 19
NT3	barium 116	NT3	francium 201	NT3	magnesium 20
NT3	barium 136	NT3	francium 202	NT3	magnesium 21
NT3	barium 147	NT3	francium 203	NT3	magnesium 30
NT3	barium 148	NT3	francium 206	NT3	magnesium 31
NT3	barium 149	NT3	francium 214	NT3	manganese 48
NT3	beryllium 12	NT3	francium 218	NT3	manganese 49
NT3	beryllium 14	NT3	francium 219	NT3	manganese 50
NT3	bismuth 186	NT3	gallium 60	NT3	manganese 61
NT3	bohrium 261	NT3	gallium 62	NT3	manganese 62
NT3	bohrium 262	NT3	gallium 72	NT3	manganese 63
NT3	bohrium 264	NT3	gallium 82	NT3	meitnerium 266
NT3	bohrium 265	NT3	gallium 83	NT3	meitnerium 268
NT3	boron 12	NT3	gallium 84	NT3	mercury 175
NT3	boron 13	NT3	germanium 61	NT3	mercury 176
NT3	boron 14	NT3	germanium 62	NT3	mercury 177
NT3	boron 15	NT3	germanium 71	NT3	mercury 178
NT3	boron 17	NT3	germanium 73	NT3	molybdenum 109
NT3	boron 8	NT3	germanium 85	NT3	molybdenum 89
NT3	bromine 70	NT3	gold 172	NT3	neodymium 125
NT3	bromine 91	NT3	gold 173	NT3	neon 17
NT3	bromine 92	NT3	gold 174	NT3	neon 25
NT3	bromine 93	NT3	gold 175	NT3	neon 26
NT3	cadmium 125	NT3	gold 191	NT3	neptunium 226
NT3	cadmium 126	NT3	hafnium 155	NT3	neptunium 227
NT3	cadmium 127	NT3	hafnium 156	NT3	nickel 49
NT3	cadmium 128	NT3	hafnium 157	NT3	nickel 50

NT3	nickel 52	NT3	rubidium 96	NT3	tin 137
NT3	nickel 53	NT3	rubidium 97	NT3	titanium 40
NT3	nickel 55	NT3	rubidium 98	NT3	titanium 41
NT3	nickel 73	NT3	rubidium 99	NT3	titanium 42
NT3	niobium 108	NT3	ruthenium 114	NT3	titanium 43
NT3	nitrogen 12	NT3	rutherfordium 254	NT3	titanium 58
NT3	nitrogen 18	NT3	rutherfordium 256	NT3	titanium 59
NT3	nitrogen 19	NT3	rutherfordium 258	NT3	titanium 60
NT3	nobelium 251	NT3	rutherfordium 260	NT3	tungsten 159
NT3	nobelium 254	NT3	rutherfordium 262	NT3	tungsten 160
NT3	nobelium 258	NT3	scandium 40	NT3	tungsten 161
NT3	osmium 162	NT3	scandium 41	NT3	uranium 218
NT3	osmium 164	NT3	scandium 42	NT3	uranium 225
NT3	osmium 165	NT3	scandium 50	NT3	uranium 226
NT3	osmium 166	NT3	scandium 57	NT3	vanadium 42
NT3	osmium 167	NT3	scandium 58	NT3	vanadium 44
NT3	oxygen 13	NT3	seaborgium 259	NT3	vanadium 45
NT3	oxygen 24	NT3	seaborgium 260	NT3	vanadium 46
NT3	palladium 117	NT3	seaborgium 261	NT3	xenon 110
NT3	palladium 119	NT3	seaborgium 262	NT3	xenon 111
NT3	palladium 120	NT3	seaborgium 263	NT3	xenon 143
NT3	phosphorus 26	NT3	selenium 65	NT3	xenon 145
NT3	phosphorus 27	NT3	selenium 66	NT3	ytterbium 154
NT3	phosphorus 28	NT3	selenium 67	NT3	ytterbium 175
NT3	phosphorus 38	NT3	selenium 89	NT3	yttrium 100
NT3	platinum 169	NT3	selenium 91	NT3	yttrium 101
NT3	platinum 170	NT3	silicon 24	NT3	yttrium 102
NT3	platinum 171	NT3	silicon 25	NT3	yttrium 103
NT3	platinum 172	NT3	silicon 35	NT3	yttrium 88
NT3	platinum 173	NT3	silicon 36	NT3	yttrium 93
NT3	platinum 174	NT3	silver 120	NT3	yttrium 97
NT3	platinum 184	NT3	silver 121	NT3	yttrium 98
NT3	plutonium 230	NT3	silver 123	NT3	zinc 57
NT3	polonium 190	NT3	silver 94	NT3	zinc 59
NT3	polonium 192	NT3	silver 95	NT3	zinc 80
NT3	polonium 193	NT3	sodium 19	NT3	zinc 81
NT3	polonium 194	NT3	sodium 24	NT3	zirconium 105
NT3	polonium 211	NT3	sodium 27	NT3	zirconium 90
NT3	polonium 215	NT3	sodium 28	NT2	minutes living radioisotopes
NT3	polonium 216	NT3	sodium 29	NT3	actinium 222
NT3	potassium 35	NT3	sodium 30	NT3	actinium 223
NT3	potassium 36	NT3	sodium 31	NT3	actinium 230
NT3	potassium 50	NT3	sodium 32	NT3	actinium 231
NT3	potassium 51	NT3	sodium 33	NT3	actinium 232
NT3	potassium 52	NT3	sodium 34	NT3	actinium 233
NT3	potassium 53	NT3	sodium 35	NT3	aluminium 28
NT3	potassium 54	NT3	strontium 100	NT3	aluminium 29
NT3	protactinium 212	NT3	strontium 101	NT3	americium 233
NT3	protactinium 213	NT3	strontium 102	NT3	americium 234
NT3	protactinium 214	NT3	strontium 75	NT3	americium 235
NT3	protactinium 215	NT3	strontium 97	NT3	americium 236
NT3	protactinium 216	NT3	strontium 98	NT3	americium 244
NT3	protactinium 217	NT3	strontium 99	NT3	americium 246
NT3	protactinium 222	NT3	sulfur 28	NT3	americium 247
NT3	protactinium 223	NT3	sulfur 29	NT3	antimony 111
NT3	protactinium 224	NT3	tantalum 156	NT3	antimony 113
NT3	radium 205	NT3	tantalum 157	NT3	antimony 114
NT3	radium 206	NT3	tantalum 158	NT3	antimony 115
NT3	radium 213	NT3	tantalum 159	NT3	antimony 116
NT3	radium 215	NT3	tantalum 182	NT3	antimony 118
NT3	radium 219	NT3	technetium 110	NT3	antimony 120
NT3	radium 220	NT3	technetium 111	NT3	antimony 122
NT3	radon 197	NT3	technetium 112	NT3	antimony 124
NT3	radon 199	NT3	technetium 113	NT3	antimony 126
NT3	radon 213	NT3	tellurium 107	NT3	antimony 128
NT3	radon 218	NT3	terbium 146	NT3	antimony 129
NT3	rhenium 161	NT3	thallium 179	NT3	antimony 130
NT3	rhenium 162	NT3	thallium 183	NT3	antimony 131
NT3	rhenium 163	NT3	thorium 212	NT3	antimony 132
NT3	rhenium 164	NT3	thorium 213	NT3	antimony 133
NT3	rhodium 115	NT3	thorium 214	NT3	argon 43
NT3	rhodium 116	NT3	thorium 216	NT3	argon 44
NT3	rhodium 118	NT3	thorium 221	NT3	arsenic 68
NT3	rhodium 92	NT3	thorium 222	NT3	arsenic 69
NT3	roentgenium 272	NT3	thorium 223	NT3	arsenic 70
NT3	roentgenium 279	NT3	thulium 146	NT3	arsenic 79
NT3	rubidium 100	NT3	thulium 147	NT3	astatine 201
NT3	rubidium 74	NT3	thulium 150	NT3	astatine 202
NT3	rubidium 95	NT3	tin 135	NT3	astatine 203

NT3	astatine 204	NT3	chlorine 39	NT3	hafnium 166
NT3	astatine 205	NT3	chlorine 40	NT3	hafnium 167
NT3	astatine 206	NT3	chromium 49	NT3	hafnium 168
NT3	astatine 220	NT3	chromium 55	NT3	hafnium 169
NT3	astatine 221	NT3	chromium 56	NT3	hafnium 177
NT3	barium 122	NT3	cobalt 54	NT3	holmium 150
NT3	barium 123	NT3	cobalt 60	NT3	holmium 152
NT3	barium 124	NT3	cobalt 62	NT3	holmium 153
NT3	barium 125	NT3	copper 59	NT3	holmium 154
NT3	barium 127	NT3	copper 60	NT3	holmium 155
NT3	barium 131	NT3	copper 62	NT3	holmium 156
NT3	barium 137	NT3	copper 66	NT3	holmium 157
NT3	barium 141	NT3	copper 68	NT3	holmium 158
NT3	barium 142	NT3	copper 69	NT3	holmium 159
NT3	berkelium 240	NT3	curium 236	NT3	holmium 160
NT3	berkelium 242	NT3	curium 237	NT3	holmium 162
NT3	berkelium 251	NT3	curium 251	NT3	holmium 164
NT3	bismuth 193	NT3	dysprosium 147	NT3	holmium 168
NT3	bismuth 194	NT3	dysprosium 148	NT3	holmium 169
NT3	bismuth 195	NT3	dysprosium 149	NT3	holmium 170
NT3	bismuth 196	NT3	dysprosium 150	NT3	indium 103
NT3	bismuth 197	NT3	dysprosium 151	NT3	indium 104
NT3	bismuth 198	NT3	dysprosium 165	NT3	indium 105
NT3	bismuth 199	NT3	dysprosium 167	NT3	indium 106
NT3	bismuth 200	NT3	dysprosium 168	NT3	indium 107
NT3	bismuth 201	NT3	einsteinium 245	NT3	indium 108
NT3	bismuth 211	NT3	einsteinium 246	NT3	indium 109
NT3	bismuth 212	NT3	einsteinium 247	NT3	indium 111
NT3	bismuth 213	NT3	einsteinium 248	NT3	indium 112
NT3	bismuth 214	NT3	einsteinium 256	NT3	indium 114
NT3	bismuth 215	NT3	element 112 283	NT3	indium 116
NT3	bismuth 216	NT3	erbium 154	NT3	indium 117
NT3	bromine 72	NT3	erbium 155	NT3	indium 118
NT3	bromine 73	NT3	erbium 156	NT3	indium 119
NT3	bromine 74	NT3	erbium 157	NT3	indium 121
NT3	bromine 77	NT3	erbium 159	NT3	iodine 115
NT3	bromine 78	NT3	erbium 173	NT3	iodine 117
NT3	bromine 80	NT3	erbium 174	NT3	iodine 118
NT3	bromine 82	NT3	europium 142	NT3	iodine 119
NT3	bromine 84	NT3	europium 143	NT3	iodine 120
NT3	bromine 85	NT3	europium 154	NT3	iodine 122
NT3	cadmium 100	NT3	europium 158	NT3	iodine 128
NT3	cadmium 101	NT3	europium 159	NT3	iodine 130
NT3	cadmium 102	NT3	fermium 249	NT3	iodine 134
NT3	cadmium 103	NT3	fermium 250	NT3	iodine 136
NT3	cadmium 104	NT3	fluorine 17	NT3	iridium 179
NT3	cadmium 105	NT3	francium 210	NT3	iridium 180
NT3	cadmium 111	NT3	francium 211	NT3	iridium 181
NT3	cadmium 118	NT3	francium 212	NT3	iridium 182
NT3	cadmium 119	NT3	francium 221	NT3	iridium 183
NT3	calcium 49	NT3	francium 222	NT3	iridium 192
NT3	californium 240	NT3	francium 223	NT3	iridium 197
NT3	californium 241	NT3	francium 224	NT3	iridium 199
NT3	californium 242	NT3	francium 225	NT3	iron 53
NT3	californium 243	NT3	francium 227	NT3	iron 61
NT3	californium 244	NT3	gadolinium 142	NT3	iron 62
NT3	californium 245	NT3	gadolinium 143	NT3	krypton 74
NT3	californium 256	NT3	gadolinium 144	NT3	krypton 75
NT3	carbon 11	NT3	gadolinium 145	NT3	krypton 89
NT3	cerium 128	NT3	gadolinium 161	NT3	lanthanum 125
NT3	cerium 129	NT3	gadolinium 162	NT3	lanthanum 126
NT3	cerium 130	NT3	gadolinium 163	NT3	lanthanum 127
NT3	cerium 131	NT3	gallium 64	NT3	lanthanum 128
NT3	cerium 145	NT3	gallium 65	NT3	lanthanum 129
NT3	cerium 146	NT3	gallium 70	NT3	lanthanum 130
NT3	cesium 120	NT3	gallium 74	NT3	lanthanum 131
NT3	cesium 121	NT3	gallium 75	NT3	lanthanum 132
NT3	cesium 122	NT3	germanium 64	NT3	lanthanum 134
NT3	cesium 123	NT3	germanium 67	NT3	lanthanum 136
NT3	cesium 125	NT3	gold 185	NT3	lanthanum 143
NT3	cesium 126	NT3	gold 186	NT3	lawrencium 260
NT3	cesium 128	NT3	gold 187	NT3	lead 190
NT3	cesium 130	NT3	gold 188	NT3	lead 191
NT3	cesium 135	NT3	gold 189	NT3	lead 192
NT3	cesium 138	NT3	gold 190	NT3	lead 193
NT3	cesium 139	NT3	gold 200	NT3	lead 194
NT3	cesium 140	NT3	gold 201	NT3	lead 195
NT3	chlorine 34	NT3	hafnium 164	NT3	lead 196
NT3	chlorine 38	NT3	hafnium 165	NT3	lead 197

NT3	lead 199	NT3	nobelium 255	NT3	radon 205
NT3	lead 201	NT3	nobelium 259	NT3	radon 206
NT3	lead 211	NT3	osmium 175	NT3	radon 207
NT3	lead 213	NT3	osmium 176	NT3	radon 208
NT3	lead 214	NT3	osmium 177	NT3	radon 209
NT3	lutetium 161	NT3	osmium 178	NT3	radon 212
NT3	lutetium 162	NT3	osmium 179	NT3	radon 221
NT3	lutetium 163	NT3	osmium 180	NT3	radon 223
NT3	lutetium 164	NT3	osmium 181	NT3	radon 225
NT3	lutetium 165	NT3	osmium 190	NT3	radon 226
NT3	lutetium 166	NT3	osmium 195	NT3	rhenium 173
NT3	lutetium 167	NT3	osmium 196	NT3	rhenium 174
NT3	lutetium 168	NT3	oxygen 14	NT3	rhenium 175
NT3	lutetium 169	NT3	oxygen 15	NT3	rhenium 176
NT3	lutetium 171	NT3	palladium 109	NT3	rhenium 177
NT3	lutetium 172	NT3	palladium 111	NT3	rhenium 178
NT3	lutetium 178	NT3	palladium 113	NT3	rhenium 179
NT3	lutetium 180	NT3	palladium 114	NT3	rhenium 180
NT3	lutetium 181	NT3	palladium 96	NT3	rhenium 188
NT3	lutetium 182	NT3	palladium 97	NT3	rhenium 190
NT3	lutetium 187	NT3	palladium 98	NT3	rhenium 191
NT3	magnesium 27	NT3	palladium 99	NT3	rhodium 100
NT3	manganese 50	NT3	phosphorus 30	NT3	rhodium 103
NT3	manganese 51	NT3	platinum 182	NT3	rhodium 104
NT3	manganese 52	NT3	platinum 183	NT3	rhodium 107
NT3	manganese 57	NT3	platinum 184	NT3	rhodium 108
NT3	manganese 58	NT3	platinum 185	NT3	rhodium 109
NT3	mendelevium 251	NT3	platinum 199	NT3	rhodium 94
NT3	mendelevium 252	NT3	platinum 201	NT3	rhodium 95
NT3	mendelevium 253	NT3	plutonium 232	NT3	rhodium 96
NT3	mendelevium 254	NT3	plutonium 233	NT3	rhodium 97
NT3	mendelevium 255	NT3	plutonium 235	NT3	rhodium 98
NT3	mendelevium 258	NT3	polonium 198	NT3	rubidium 77
NT3	mercury 186	NT3	polonium 199	NT3	rubidium 78
NT3	mercury 187	NT3	polonium 200	NT3	rubidium 79
NT3	mercury 188	NT3	polonium 201	NT3	rubidium 81
NT3	mercury 189	NT3	polonium 202	NT3	rubidium 82
NT3	mercury 190	NT3	polonium 203	NT3	rubidium 84
NT3	mercury 191	NT3	polonium 218	NT3	rubidium 86
NT3	mercury 199	NT3	potassium 38	NT3	rubidium 88
NT3	mercury 205	NT3	potassium 44	NT3	rubidium 89
NT3	mercury 206	NT3	potassium 45	NT3	rubidium 90
NT3	molybdenum 101	NT3	potassium 46	NT3	ruthenium 107
NT3	molybdenum 102	NT3	praseodymium 131	NT3	ruthenium 108
NT3	molybdenum 103	NT3	praseodymium 132	NT3	ruthenium 92
NT3	molybdenum 104	NT3	praseodymium 133	NT3	ruthenium 93
NT3	molybdenum 88	NT3	praseodymium 134	NT3	ruthenium 94
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NT3	molybdenum 91	NT3	praseodymium 136	NT3	rutherfordium 263
NT3	neodymium 132	NT3	praseodymium 138	NT3	samarium 138
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NT3	neodymium 135	NT3	praseodymium 144	NT3	samarium 141
NT3	neodymium 136	NT3	praseodymium 146	NT3	samarium 143
NT3	neodymium 137	NT3	praseodymium 147	NT3	samarium 155
NT3	neodymium 139	NT3	praseodymium 148	NT3	samarium 157
NT3	neodymium 141	NT3	praseodymium 149	NT3	samarium 158
NT3	neodymium 151	NT3	promethium 136	NT3	scandium 49
NT3	neodymium 152	NT3	promethium 137	NT3	scandium 50
NT3	neon 24	NT3	promethium 138	NT3	selenium 68
NT3	neptunium 229	NT3	promethium 139	NT3	selenium 70
NT3	neptunium 230	NT3	promethium 140	NT3	selenium 71
NT3	neptunium 231	NT3	promethium 141	NT3	selenium 73
NT3	neptunium 232	NT3	promethium 152	NT3	selenium 79
NT3	neptunium 233	NT3	promethium 153	NT3	selenium 81
NT3	neptunium 240	NT3	promethium 154	NT3	selenium 83
NT3	neptunium 241	NT3	protactinium 226	NT3	selenium 84
NT3	neptunium 242	NT3	protactinium 227	NT3	silver 100
NT3	neptunium 243	NT3	protactinium 234	NT3	silver 101
NT3	neptunium 244	NT3	protactinium 235	NT3	silver 102
NT3	niobium 85	NT3	protactinium 236	NT3	silver 104
NT3	niobium 86	NT3	protactinium 237	NT3	silver 105
NT3	niobium 87	NT3	protactinium 238	NT3	silver 106
NT3	niobium 88	NT3	radium 213	NT3	silver 108
NT3	niobium 94	NT3	radium 227	NT3	silver 111
NT3	niobium 98	NT3	radium 229	NT3	silver 113
NT3	niobium 99	NT3	radium 231	NT3	silver 115
NT3	nitrogen 13	NT3	radium 232	NT3	silver 116
NT3	nobelium 253	NT3	radon 204	NT3	silver 117

<b>NT3</b>	silver 99	<b>NT3</b>	tin 125	<b>NT3</b>	fluorine 18
<b>NT3</b>	strontium 78	<b>NT3</b>	tin 127	<b>NT3</b>	francium 211
<b>NT3</b>	strontium 79	<b>NT3</b>	tin 128	<b>NT3</b>	francium 212
<b>NT3</b>	strontium 81	<b>NT3</b>	tin 129	<b>NT3</b>	francium 213
<b>NT3</b>	strontium 93	<b>NT3</b>	tin 130	<b>NT3</b>	francium 215
<b>NT3</b>	strontium 94	<b>NT3</b>	tin 131	<b>NT3</b>	francium 216
<b>NT3</b>	sulfur 37	<b>NT3</b>	titanium 51	<b>NT3</b>	gadolinium 147
<b>NT3</b>	tantalum 167	<b>NT3</b>	titanium 52	<b>NT3</b>	gadolinium 148
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<b>NT3</b>	tantalum 171	<b>NT3</b>	tungsten 173	<b>NT3</b>	lead 200
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<b>NT3</b>	tantalum 182	<b>NT3</b>	tungsten 179	<b>NT3</b>	molybdenum 94
<b>NT3</b>	tantalum 185	<b>NT3</b>	tungsten 185	<b>NT3</b>	neptunium 237
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<b>NT3</b>	technetium 101	<b>NT3</b>	tungsten 190	<b>NT3</b>	phosphorus 25
<b>NT3</b>	technetium 102	<b>NT3</b>	uranium 227	<b>NT3</b>	plutonium 237
<b>NT3</b>	technetium 104	<b>NT3</b>	uranium 228	<b>NT3</b>	polonium 210
<b>NT3</b>	technetium 105	<b>NT3</b>	uranium 229	<b>NT3</b>	polonium 212
<b>NT3</b>	technetium 91	<b>NT3</b>	uranium 235	<b>NT3</b>	potassium 40
<b>NT3</b>	technetium 92	<b>NT3</b>	uranium 239	<b>NT3</b>	protactinium 219
<b>NT3</b>	technetium 93	<b>NT3</b>	uranium 241	<b>NT3</b>	protactinium 220
<b>NT3</b>	technetium 94	<b>NT3</b>	uranium 242	<b>NT3</b>	radium 216
<b>NT3</b>	technetium 96	<b>NT3</b>	vanadium 47	<b>NT3</b>	radon 210
<b>NT3</b>	tellurium 112	<b>NT3</b>	vanadium 52	<b>NT3</b>	radon 211
<b>NT3</b>	tellurium 113	<b>NT3</b>	vanadium 53	<b>NT3</b>	radon 214
<b>NT3</b>	tellurium 114	<b>NT3</b>	xenon 117	<b>NT3</b>	rhodium 90
<b>NT3</b>	tellurium 115	<b>NT3</b>	xenon 118	<b>NT3</b>	rhodium 91
<b>NT3</b>	tellurium 131	<b>NT3</b>	xenon 119	<b>NT3</b>	rubidium 85
<b>NT3</b>	tellurium 133	<b>NT3</b>	xenon 120	<b>NT3</b>	sodium 22
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<b>NT3</b>	terbium 147	<b>NT3</b>	xenon 127	<b>NT3</b>	titanium 58
<b>NT3</b>	terbium 148	<b>NT3</b>	xenon 135	<b>NT3</b>	titanium 59
<b>NT3</b>	terbium 149	<b>NT3</b>	xenon 137	<b>NT3</b>	vanadium 61
<b>NT3</b>	terbium 150	<b>NT3</b>	xenon 138	<b>NT3</b>	vanadium 62
<b>NT3</b>	terbium 152	<b>NT3</b>	ytterbium 158	<b>NT3</b>	vanadium 63
<b>NT3</b>	terbium 162	<b>NT3</b>	ytterbium 159	<b>NT3</b>	zirconium 109
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<b>NT3</b>	terbium 164	<b>NT3</b>	ytterbium 161	<b>NT2</b>	proton decay radioisotopes
<b>NT3</b>	terbium 165	<b>NT3</b>	ytterbium 162	<b>NT3</b>	arsenic 64
<b>NT3</b>	thallium 188	<b>NT3</b>	ytterbium 163	<b>NT3</b>	cesium 113
<b>NT3</b>	thallium 189	<b>NT3</b>	ytterbium 165	<b>NT3</b>	cobalt 52
<b>NT3</b>	thallium 190	<b>NT3</b>	ytterbium 167	<b>NT3</b>	cobalt 53
<b>NT3</b>	thallium 191	<b>NT3</b>	ytterbium 179	<b>NT3</b>	europium 130
<b>NT3</b>	thallium 192	<b>NT3</b>	ytterbium 180	<b>NT3</b>	europium 131
<b>NT3</b>	thallium 193	<b>NT3</b>	yttrium 81	<b>NT3</b>	fluorine 14
<b>NT3</b>	thallium 194	<b>NT3</b>	yttrium 83	<b>NT3</b>	germanium 62
<b>NT3</b>	thallium 206	<b>NT3</b>	yttrium 84	<b>NT3</b>	gold 170
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<b>NT3</b>	thorium 226	<b>NT3</b>	zinc 61	<b>NT3</b>	scandium 39
<b>NT3</b>	thorium 233	<b>NT3</b>	zinc 63	<b>NT3</b>	selenium 66
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<b>NT3</b>	thorium 236	<b>NT3</b>	zinc 71	<b>NT3</b>	thulium 145
<b>NT3</b>	thorium 237	<b>NT3</b>	zinc 74	<b>NT3</b>	thulium 146
<b>NT3</b>	thulium 156	<b>NT3</b>	zirconium 81	<b>NT3</b>	thulium 147
<b>NT3</b>	thulium 157	<b>NT3</b>	zirconium 82	<b>NT2</b>	seconds living radioisotopes
<b>NT3</b>	thulium 158	<b>NT3</b>	zirconium 84	<b>NT3</b>	actinium 214
<b>NT3</b>	thulium 159	<b>NT3</b>	zirconium 85	<b>NT3</b>	actinium 222
<b>NT3</b>	thulium 160	<b>NT3</b>	zirconium 89	<b>NT3</b>	actinium 234
<b>NT3</b>	thulium 161	<b>NT2</b>	nanoseconds living radioisotopes	<b>NT3</b>	aluminium 24
<b>NT3</b>	thulium 162	<b>NT3</b>	actinium 217	<b>NT3</b>	aluminium 25
<b>NT3</b>	thulium 164	<b>NT3</b>	aluminium 40	<b>NT3</b>	aluminium 26
<b>NT3</b>	thulium 174	<b>NT3</b>	antimony 113	<b>NT3</b>	aluminium 30
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<b>NT3</b>	tin 106	<b>NT3</b>	barium 138	<b>NT3</b>	antimony 107
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<b>NT3</b>	tin 111	<b>NT3</b>	chromium 65	<b>NT3</b>	antimony 112
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NT3	indium 127	NT3	mercury 182	NT3	platinum 180
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NT3	iridium 174	NT3	neodymium 153	NT3	potassium 48
NT3	iridium 175	NT3	neodymium 154	NT3	potassium 49
NT3	iridium 176	NT3	neodymium 155	NT3	praseodymium 124
NT3	iridium 177	NT3	neodymium 156	NT3	praseodymium 125
NT3	iridium 178	NT3	neon 18	NT3	praseodymium 126
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NT3	iron 63	NT3	nickel 70	NT3	praseodymium 150
NT3	iron 64	NT3	nickel 71	NT3	praseodymium 151
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NT3	krypton 73	NT3	nickel 74	NT3	praseodymium 153
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NT3	krypton 81	NT3	niobium 102	NT3	promethium 130
NT3	krypton 90	NT3	niobium 103	NT3	promethium 131
NT3	krypton 91	NT3	niobium 104	NT3	promethium 132
NT3	krypton 92	NT3	niobium 105	NT3	promethium 133
NT3	krypton 93	NT3	niobium 106	NT3	promethium 134
NT3	lanthanum 120	NT3	niobium 106	NT3	promethium 135
NT3	lanthanum 121	NT3	niobium 83	NT3	promethium 140
NT3	lanthanum 122	NT3	niobium 84	NT3	promethium 142
NT3	lanthanum 123	NT3	niobium 85	NT3	promethium 155
NT3	lanthanum 124	NT3	niobium 90	NT3	promethium 156
NT3	lanthanum 144	NT3	niobium 97	NT3	promethium 157
NT3	lanthanum 145	NT3	niobium 98	NT3	promethium 158
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NT3	lawrencium 252	NT3	nobelium 254	NT3	radium 210
NT3	lawrencium 253	NT3	nobelium 256	NT3	radium 211
NT3	lawrencium 254	NT3	nobelium 257	NT3	radium 212
NT3	lawrencium 255	NT3	osmium 168	NT3	radium 214
NT3	lawrencium 256	NT3	osmium 169	NT3	radium 221
NT3	lawrencium 258	NT3	osmium 170	NT3	radium 222
NT3	lawrencium 259	NT3	osmium 171	NT3	radium 233
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NT3	lead 186	NT3	osmium 173	NT3	radon 200
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NT3	lead 203	NT3	oxygen 20	NT3	radon 219
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NT3	lutetium 184	NT3	palladium 118	NT3	rhenium 168
NT3	magnesium 22	NT3	palladium 93	NT3	rhenium 169
NT3	magnesium 23	NT3	palladium 94	NT3	rhenium 170
NT3	magnesium 29	NT3	palladium 95	NT3	rhenium 171
NT3	manganese 58	NT3	phosphorus 29		



<b>NT3</b> rhenium 172	<b>NT3</b> silver 98	<b>NT3</b> tungsten 164
<b>NT3</b> rhenium 192	<b>NT3</b> silver 99	<b>NT3</b> tungsten 165
<b>NT3</b> rhodium 104	<b>NT3</b> sodium 20	<b>NT3</b> tungsten 166
<b>NT3</b> rhodium 105	<b>NT3</b> sodium 21	<b>NT3</b> tungsten 167
<b>NT3</b> rhodium 106	<b>NT3</b> sodium 25	<b>NT3</b> tungsten 168
<b>NT3</b> rhodium 108	<b>NT3</b> sodium 26	<b>NT3</b> tungsten 169
<b>NT3</b> rhodium 110	<b>NT3</b> strontium 76	<b>NT3</b> tungsten 183
<b>NT3</b> rhodium 111	<b>NT3</b> strontium 77	<b>NT3</b> vanadium 43
<b>NT3</b> rhodium 112	<b>NT3</b> strontium 83	<b>NT3</b> vanadium 54
<b>NT3</b> rhodium 113	<b>NT3</b> strontium 95	<b>NT3</b> vanadium 55
<b>NT3</b> rhodium 114	<b>NT3</b> strontium 96	<b>NT3</b> xenon 112
<b>NT3</b> rhodium 117	<b>NT3</b> sulfur 30	<b>NT3</b> xenon 113
<b>NT3</b> rhodium 90	<b>NT3</b> sulfur 31	<b>NT3</b> xenon 114
<b>NT3</b> rhodium 91	<b>NT3</b> sulfur 39	<b>NT3</b> xenon 115
<b>NT3</b> rhodium 92	<b>NT3</b> sulfur 40	<b>NT3</b> xenon 116
<b>NT3</b> rhodium 93	<b>NT3</b> tantalum 160	<b>NT3</b> xenon 125
<b>NT3</b> rhodium 94	<b>NT3</b> tantalum 161	<b>NT3</b> xenon 139
<b>NT3</b> roentgenium 280	<b>NT3</b> tantalum 162	<b>NT3</b> xenon 140
<b>NT3</b> rubidium 75	<b>NT3</b> tantalum 163	<b>NT3</b> xenon 141
<b>NT3</b> rubidium 76	<b>NT3</b> tantalum 164	<b>NT3</b> xenon 142
<b>NT3</b> rubidium 80	<b>NT3</b> tantalum 165	<b>NT3</b> xenon 144
<b>NT3</b> rubidium 91	<b>NT3</b> tantalum 166	<b>NT3</b> ytterbium 153
<b>NT3</b> rubidium 92	<b>NT3</b> technetium 100	<b>NT3</b> ytterbium 155
<b>NT3</b> rubidium 93	<b>NT3</b> technetium 102	<b>NT3</b> ytterbium 156
<b>NT3</b> rubidium 94	<b>NT3</b> technetium 103	<b>NT3</b> ytterbium 157
<b>NT3</b> ruthenium 109	<b>NT3</b> technetium 106	<b>NT3</b> ytterbium 169
<b>NT3</b> ruthenium 110	<b>NT3</b> technetium 107	<b>NT3</b> ytterbium 176
<b>NT3</b> ruthenium 111	<b>NT3</b> technetium 108	<b>NT3</b> ytterbium 177
<b>NT3</b> ruthenium 112	<b>NT3</b> technetium 109	<b>NT3</b> yttrium 79
<b>NT3</b> ruthenium 113	<b>NT3</b> technetium 88	<b>NT3</b> yttrium 80
<b>NT3</b> ruthenium 89	<b>NT3</b> technetium 90	<b>NT3</b> yttrium 82
<b>NT3</b> ruthenium 90	<b>NT3</b> tellurium 108	<b>NT3</b> yttrium 84
<b>NT3</b> ruthenium 91	<b>NT3</b> tellurium 109	<b>NT3</b> yttrium 89
<b>NT3</b> ruthenium 93	<b>NT3</b> tellurium 110	<b>NT3</b> yttrium 96
<b>NT3</b> rutherfordium 253	<b>NT3</b> tellurium 111	<b>NT3</b> yttrium 97
<b>NT3</b> rutherfordium 255	<b>NT3</b> tellurium 135	<b>NT3</b> yttrium 98
<b>NT3</b> rutherfordium 257	<b>NT3</b> tellurium 136	<b>NT3</b> yttrium 99
<b>NT3</b> rutherfordium 259	<b>NT3</b> tellurium 137	<b>NT3</b> zinc 73
<b>NT3</b> rutherfordium 262	<b>NT3</b> tellurium 138	<b>NT3</b> zinc 75
<b>NT3</b> samarium 131	<b>NT3</b> terbium 139	<b>NT3</b> zinc 76
<b>NT3</b> samarium 133	<b>NT3</b> terbium 140	<b>NT3</b> zinc 77
<b>NT3</b> samarium 134	<b>NT3</b> terbium 141	<b>NT3</b> zinc 78
<b>NT3</b> samarium 135	<b>NT3</b> terbium 143	<b>NT3</b> zinc 79
<b>NT3</b> samarium 136	<b>NT3</b> terbium 144	<b>NT3</b> zirconium 100
<b>NT3</b> samarium 137	<b>NT3</b> terbium 145	<b>NT3</b> zirconium 101
<b>NT3</b> samarium 139	<b>NT3</b> terbium 146	<b>NT3</b> zirconium 102
<b>NT3</b> samarium 159	<b>NT3</b> terbium 151	<b>NT3</b> zirconium 103
<b>NT3</b> samarium 160	<b>NT3</b> terbium 158	<b>NT3</b> zirconium 104
<b>NT3</b> scandium 42	<b>NT3</b> terbium 166	<b>NT3</b> zirconium 83
<b>NT3</b> scandium 46	<b>NT3</b> thallium 182	<b>NT3</b> zirconium 85
<b>NT3</b> scandium 51	<b>NT3</b> thallium 184	<b>NT3</b> zirconium 87
<b>NT3</b> scandium 52	<b>NT3</b> thallium 185	<b>NT3</b> zirconium 98
<b>NT3</b> seaborgium 265	<b>NT3</b> thallium 186	<b>NT3</b> zirconium 99
<b>NT3</b> seaborgium 266	<b>NT3</b> thallium 187	<b>NT2</b> spontaneous fission radioisotopes
<b>NT3</b> selenium 69	<b>NT3</b> thallium 195	<b>NT3</b> americium 237
<b>NT3</b> selenium 77	<b>NT3</b> thallium 197	<b>NT3</b> americium 238
<b>NT3</b> selenium 85	<b>NT3</b> thallium 207	<b>NT3</b> americium 239
<b>NT3</b> selenium 86	<b>NT3</b> thorium 215	<b>NT3</b> americium 240
<b>NT3</b> selenium 87	<b>NT3</b> thorium 223	<b>NT3</b> americium 241
<b>NT3</b> selenium 88	<b>NT3</b> thorium 224	<b>NT3</b> americium 242
<b>NT3</b> silicon 26	<b>NT3</b> thulium 151	<b>NT3</b> americium 243
<b>NT3</b> silicon 27	<b>NT3</b> thulium 152	<b>NT3</b> americium 244
<b>NT3</b> silicon 33	<b>NT3</b> thulium 153	<b>NT3</b> americium 245
<b>NT3</b> silicon 34	<b>NT3</b> thulium 154	<b>NT3</b> americium 246
<b>NT3</b> silver 101	<b>NT3</b> thulium 155	<b>NT3</b> berkelium 242
<b>NT3</b> silver 103	<b>NT3</b> thulium 156	<b>NT3</b> berkelium 243
<b>NT3</b> silver 107	<b>NT3</b> thulium 162	<b>NT3</b> berkelium 244
<b>NT3</b> silver 109	<b>NT3</b> tin 102	<b>NT3</b> berkelium 245
<b>NT3</b> silver 110	<b>NT3</b> tin 103	<b>NT3</b> berkelium 249
<b>NT3</b> silver 114	<b>NT3</b> tin 105	<b>NT3</b> bohrium 261
<b>NT3</b> silver 115	<b>NT3</b> tin 128	<b>NT3</b> bohrium 262
<b>NT3</b> silver 116	<b>NT3</b> tin 131	<b>NT3</b> californium 246
<b>NT3</b> silver 117	<b>NT3</b> tin 132	<b>NT3</b> californium 248
<b>NT3</b> silver 118	<b>NT3</b> tin 133	<b>NT3</b> californium 249
<b>NT3</b> silver 119	<b>NT3</b> tin 134	<b>NT3</b> californium 250
<b>NT3</b> silver 120	<b>NT3</b> titanium 53	<b>NT3</b> californium 252
<b>NT3</b> silver 122	<b>NT3</b> tungsten 160	<b>NT3</b> californium 254
<b>NT3</b> silver 96	<b>NT3</b> tungsten 162	<b>NT3</b> californium 256
<b>NT3</b> silver 97	<b>NT3</b> tungsten 163	<b>NT3</b> curium 240

<b>NT3</b>	curium 241	<b>NT2</b>	years living radioisotopes	<b>NT3</b>	osmium 194
<b>NT3</b>	curium 242	<b>NT3</b>	actinium 227	<b>NT3</b>	palladium 107
<b>NT3</b>	curium 243	<b>NT3</b>	aluminium 26	<b>NT3</b>	platinum 190
<b>NT3</b>	curium 244	<b>NT3</b>	americium 241	<b>NT3</b>	platinum 193
<b>NT3</b>	curium 245	<b>NT3</b>	americium 242	<b>NT3</b>	plutonium 236
<b>NT3</b>	curium 246	<b>NT3</b>	americium 243	<b>NT3</b>	plutonium 238
<b>NT3</b>	curium 248	<b>NT3</b>	antimony 125	<b>NT3</b>	plutonium 239
<b>NT3</b>	curium 250	<b>NT3</b>	argon 39	<b>NT3</b>	plutonium 240
<b>NT3</b>	dubnium 255	<b>NT3</b>	argon 42	<b>NT3</b>	plutonium 241
<b>NT3</b>	dubnium 256	<b>NT3</b>	barium 133	<b>NT3</b>	plutonium 242
<b>NT3</b>	dubnium 257	<b>NT3</b>	berkelium 247	<b>NT3</b>	plutonium 244
<b>NT3</b>	dubnium 258	<b>NT3</b>	beryllium 10	<b>NT3</b>	plutonium 208
<b>NT3</b>	dubnium 259	<b>NT3</b>	bismuth 207	<b>NT3</b>	polonium 209
<b>NT3</b>	dubnium 260	<b>NT3</b>	bismuth 208	<b>NT3</b>	potassium 40
<b>NT3</b>	dubnium 261	<b>NT3</b>	bismuth 210	<b>NT3</b>	promethium 144
<b>NT3</b>	dubnium 262	<b>NT3</b>	cadmium 109	<b>NT3</b>	promethium 145
<b>NT3</b>	dubnium 263	<b>NT3</b>	cadmium 113	<b>NT3</b>	promethium 146
<b>NT3</b>	einsteinium 253	<b>NT3</b>	calcium 41	<b>NT3</b>	promethium 147
<b>NT3</b>	einsteinium 254	<b>NT3</b>	californium 249	<b>NT3</b>	protactinium 231
<b>NT3</b>	einsteinium 255	<b>NT3</b>	californium 250	<b>NT3</b>	radium 226
<b>NT3</b>	element 112 283	<b>NT3</b>	californium 251	<b>NT3</b>	radium 228
<b>NT3</b>	fermium 242	<b>NT3</b>	californium 252	<b>NT3</b>	rhenium 186
<b>NT3</b>	fermium 244	<b>NT3</b>	carbon 14	<b>NT3</b>	rhenium 187
<b>NT3</b>	fermium 246	<b>NT3</b>	cesium 134	<b>NT3</b>	rhodium 101
<b>NT3</b>	fermium 248	<b>NT3</b>	cesium 135	<b>NT3</b>	rubidium 87
<b>NT3</b>	fermium 250	<b>NT3</b>	cesium 137	<b>NT3</b>	ruthenium 106
<b>NT3</b>	fermium 252	<b>NT3</b>	chlorine 36	<b>NT3</b>	samarium 146
<b>NT3</b>	fermium 254	<b>NT3</b>	cobalt 60	<b>NT3</b>	samarium 147
<b>NT3</b>	fermium 255	<b>NT3</b>	curium 243	<b>NT3</b>	samarium 148
<b>NT3</b>	fermium 256	<b>NT3</b>	curium 244	<b>NT3</b>	samarium 151
<b>NT3</b>	fermium 257	<b>NT3</b>	curium 245	<b>NT3</b>	selenium 79
<b>NT3</b>	fermium 258	<b>NT3</b>	curium 246	<b>NT3</b>	silicon 32
<b>NT3</b>	fermium 259	<b>NT3</b>	curium 247	<b>NT3</b>	silver 108
<b>NT3</b>	hassium 264	<b>NT3</b>	curium 248	<b>NT3</b>	sodium 22
<b>NT3</b>	hassium 265	<b>NT3</b>	curium 250	<b>NT3</b>	strontium 90
<b>NT3</b>	meitnerium 266	<b>NT3</b>	dysprosium 154	<b>NT3</b>	tantalum 179
<b>NT3</b>	mendelevium 259	<b>NT3</b>	einsteinium 252	<b>NT3</b>	technetium 97
<b>NT3</b>	neptunium 237	<b>NT3</b>	europium 150	<b>NT3</b>	technetium 98
<b>NT3</b>	nobelium 250	<b>NT3</b>	europium 152	<b>NT3</b>	technetium 99
<b>NT3</b>	nobelium 252	<b>NT3</b>	europium 154	<b>NT3</b>	tellurium 123
<b>NT3</b>	nobelium 254	<b>NT3</b>	europium 155	<b>NT3</b>	terbium 157
<b>NT3</b>	nobelium 256	<b>NT3</b>	gadolinium 148	<b>NT3</b>	terbium 158
<b>NT3</b>	nobelium 258	<b>NT3</b>	gadolinium 150	<b>NT3</b>	thallium 204
<b>NT3</b>	plutonium 235	<b>NT3</b>	gadolinium 152	<b>NT3</b>	thorium 228
<b>NT3</b>	plutonium 236	<b>NT3</b>	hafnium 172	<b>NT3</b>	thorium 229
<b>NT3</b>	plutonium 237	<b>NT3</b>	hafnium 174	<b>NT3</b>	thorium 230
<b>NT3</b>	plutonium 238	<b>NT3</b>	hafnium 178	<b>NT3</b>	thorium 232
<b>NT3</b>	plutonium 239	<b>NT3</b>	hafnium 182	<b>NT3</b>	thulium 171
<b>NT3</b>	plutonium 240	<b>NT3</b>	holmium 163	<b>NT3</b>	tin 121
<b>NT3</b>	plutonium 241	<b>NT3</b>	holmium 166	<b>NT3</b>	tin 126
<b>NT3</b>	plutonium 242	<b>NT3</b>	indium 115	<b>NT3</b>	titanium 44
<b>NT3</b>	plutonium 243	<b>NT3</b>	iodine 129	<b>NT3</b>	tritium
<b>NT3</b>	plutonium 244	<b>NT3</b>	iridium 192	<b>NT3</b>	uranium 232
<b>NT3</b>	rutherfordium 253	<b>NT3</b>	iron 55	<b>NT3</b>	uranium 233
<b>NT3</b>	rutherfordium 254	<b>NT3</b>	iron 60	<b>NT3</b>	uranium 234
<b>NT3</b>	rutherfordium 255	<b>NT3</b>	krypton 81	<b>NT3</b>	uranium 235
<b>NT3</b>	rutherfordium 256	<b>NT3</b>	krypton 85	<b>NT3</b>	uranium 236
<b>NT3</b>	rutherfordium 257	<b>NT3</b>	lanthanum 137	<b>NT3</b>	uranium 238
<b>NT3</b>	rutherfordium 258	<b>NT3</b>	lanthanum 138	<b>NT3</b>	vanadium 50
<b>NT3</b>	rutherfordium 259	<b>NT3</b>	lead 202	<b>NT3</b>	zirconium 93
<b>NT3</b>	rutherfordium 260	<b>NT3</b>	lead 205	<b>NT1</b>	radon isotopes
<b>NT3</b>	rutherfordium 261	<b>NT3</b>	lead 210	<b>NT2</b>	radon 196
<b>NT3</b>	rutherfordium 262	<b>NT3</b>	lutetium 173	<b>NT2</b>	radon 197
<b>NT3</b>	rutherfordium 263	<b>NT3</b>	lutetium 174	<b>NT2</b>	radon 199
<b>NT3</b>	seaborgium 259	<b>NT3</b>	lutetium 176	<b>NT2</b>	radon 200
<b>NT3</b>	seaborgium 260	<b>NT3</b>	manganese 53	<b>NT2</b>	radon 201
<b>NT3</b>	seaborgium 261	<b>NT3</b>	mercury 194	<b>NT2</b>	radon 202
<b>NT3</b>	seaborgium 262	<b>NT3</b>	molybdenum 93	<b>NT2</b>	radon 203
<b>NT3</b>	seaborgium 263	<b>NT3</b>	neodymium 144	<b>NT2</b>	radon 204
<b>NT3</b>	seaborgium 265	<b>NT3</b>	neptunium 235	<b>NT2</b>	radon 205
<b>NT3</b>	seaborgium 266	<b>NT3</b>	neptunium 236	<b>NT2</b>	radon 206
<b>NT3</b>	thorium 230	<b>NT3</b>	neptunium 237	<b>NT2</b>	radon 207
<b>NT3</b>	thorium 232	<b>NT3</b>	nickel 59	<b>NT2</b>	radon 208
<b>NT3</b>	uranium 232	<b>NT3</b>	nickel 63	<b>NT2</b>	radon 209
<b>NT3</b>	uranium 233	<b>NT3</b>	niobium 91	<b>NT2</b>	radon 210
<b>NT3</b>	uranium 234	<b>NT3</b>	niobium 92	<b>NT2</b>	radon 211
<b>NT3</b>	uranium 235	<b>NT3</b>	niobium 93	<b>NT2</b>	radon 212
<b>NT3</b>	uranium 236	<b>NT3</b>	niobium 94	<b>NT2</b>	radon 213
<b>NT3</b>	uranium 238	<b>NT3</b>	osmium 186	<b>NT2</b>	radon 214

NT2	radon 215	NT2	roentgenium 279	NT2	samarium 136
NT2	radon 216	NT2	roentgenium 280	NT2	samarium 137
NT2	radon 217	NT1	rubidium isotopes	NT2	samarium 138
NT2	radon 218	NT2	rubidium 100	NT2	samarium 139
NT2	radon 219	NT2	rubidium 101	NT2	samarium 140
NT2	radon 220	NT2	rubidium 102	NT2	samarium 141
NT2	radon 221	NT2	rubidium 103	NT2	samarium 142
NT2	radon 222	NT2	rubidium 73	NT2	samarium 143
NT2	radon 223	NT2	rubidium 74	NT2	samarium 144
NT2	radon 224	NT2	rubidium 75	NT2	samarium 145
NT2	radon 225	NT2	rubidium 76	NT2	samarium 146
NT2	radon 226	NT2	rubidium 77	NT2	samarium 147
NT2	radon 227	NT2	rubidium 78	NT2	samarium 148
NT2	radon 228	NT2	rubidium 79	NT2	samarium 149
NT1	rhodium isotopes	NT2	rubidium 80	NT2	samarium 150
NT2	rhodium 161	NT2	rubidium 81	NT2	samarium 151
NT2	rhodium 162	NT2	rubidium 82	NT2	samarium 152
NT2	rhodium 163	NT2	rubidium 83	NT2	samarium 153
NT2	rhodium 164	NT2	rubidium 84	NT2	samarium 154
NT2	rhodium 165	NT2	rubidium 85	NT2	samarium 155
NT2	rhodium 166	NT2	rubidium 86	NT2	samarium 156
NT2	rhodium 167	NT2	rubidium 87	NT2	samarium 157
NT2	rhodium 168	NT2	rubidium 88	NT2	samarium 158
NT2	rhodium 169	NT2	rubidium 89	NT2	samarium 159
NT2	rhodium 170	NT2	rubidium 90	NT2	samarium 160
NT2	rhodium 171	NT2	rubidium 91	NT1	scandium isotopes
NT2	rhodium 172	NT2	rubidium 92	NT2	scandium 39
NT2	rhodium 173	NT2	rubidium 93	NT2	scandium 40
NT2	rhodium 174	NT2	rubidium 94	NT2	scandium 41
NT2	rhodium 175	NT2	rubidium 95	NT2	scandium 42
NT2	rhodium 176	NT2	rubidium 96	NT2	scandium 43
NT2	rhodium 177	NT2	rubidium 97	NT2	scandium 44
NT2	rhodium 178	NT2	rubidium 98	NT2	scandium 45
NT2	rhodium 179	NT2	rubidium 99	NT2	scandium 46
NT2	rhodium 180	NT1	ruthenium isotopes	NT2	scandium 47
NT2	rhodium 181	NT2	ruthenium 100	NT2	scandium 48
NT2	rhodium 182	NT2	ruthenium 101	NT2	scandium 49
NT2	rhodium 183	NT2	ruthenium 102	NT2	scandium 50
NT2	rhodium 184	NT2	ruthenium 103	NT2	scandium 51
NT2	rhodium 185	NT2	ruthenium 104	NT2	scandium 52
NT2	rhodium 186	NT2	ruthenium 105	NT2	scandium 53
NT2	rhodium 187	NT2	ruthenium 106	NT2	scandium 54
NT2	rhodium 188	NT2	ruthenium 107	NT2	scandium 55
NT2	rhodium 189	NT2	ruthenium 108	NT2	scandium 57
NT2	rhodium 190	NT2	ruthenium 109	NT2	scandium 58
NT2	rhodium 191	NT2	ruthenium 110	NT1	seaborgium isotopes
NT2	rhodium 192	NT2	ruthenium 111	NT2	seaborgium 259
NT1	rhodium isotopes	NT2	ruthenium 112	NT2	seaborgium 260
NT2	rhodium 100	NT2	ruthenium 113	NT2	seaborgium 261
NT2	rhodium 101	NT2	ruthenium 114	NT2	seaborgium 262
NT2	rhodium 102	NT2	ruthenium 88	NT2	seaborgium 263
NT2	rhodium 103	NT2	ruthenium 89	NT2	seaborgium 265
NT2	rhodium 104	NT2	ruthenium 90	NT2	seaborgium 266
NT2	rhodium 105	NT2	ruthenium 91	NT1	selenium isotopes
NT2	rhodium 106	NT2	ruthenium 92	NT2	selenium 65
NT2	rhodium 107	NT2	ruthenium 93	NT2	selenium 66
NT2	rhodium 108	NT2	ruthenium 94	NT2	selenium 67
NT2	rhodium 109	NT2	ruthenium 95	NT2	selenium 68
NT2	rhodium 110	NT2	ruthenium 96	NT2	selenium 69
NT2	rhodium 111	NT2	ruthenium 97	NT2	selenium 70
NT2	rhodium 112	NT2	ruthenium 98	NT2	selenium 71
NT2	rhodium 113	NT2	ruthenium 99	NT2	selenium 72
NT2	rhodium 114	NT1	rutherfordium isotopes	NT2	selenium 73
NT2	rhodium 115	NT2	rutherfordium 253	NT2	selenium 74
NT2	rhodium 116	NT2	rutherfordium 254	NT2	selenium 75
NT2	rhodium 117	NT2	rutherfordium 255	NT2	selenium 76
NT2	rhodium 118	NT2	rutherfordium 256	NT2	selenium 77
NT2	rhodium 90	NT2	rutherfordium 257	NT2	selenium 78
NT2	rhodium 91	NT2	rutherfordium 258	NT2	selenium 79
NT2	rhodium 92	NT2	rutherfordium 259	NT2	selenium 80
NT2	rhodium 93	NT2	rutherfordium 260	NT2	selenium 81
NT2	rhodium 94	NT2	rutherfordium 261	NT2	selenium 82
NT2	rhodium 95	NT2	rutherfordium 262	NT2	selenium 83
NT2	rhodium 96	NT2	rutherfordium 263	NT2	selenium 84
NT2	rhodium 97	NT1	samarium isotopes	NT2	selenium 85
NT2	rhodium 98	NT2	samarium 131	NT2	selenium 86
NT2	rhodium 99	NT2	samarium 133	NT2	selenium 87
NT1	roentgenium isotopes	NT2	samarium 134	NT2	selenium 88
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NT2	silicon 26	NT2	barium 137	NT3	helium i
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NT2	terbium 159	NT2	thulium 155	NT2	titanium 56
NT2	terbium 160	NT2	thulium 156	NT2	titanium 57
NT2	terbium 161	NT2	thulium 157	NT2	titanium 58
NT2	terbium 162	NT2	thulium 158	NT2	titanium 59
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NT2	thallium 193	NT2	thulium 176	NT2	tungsten 173
NT2	thallium 194	NT2	thulium 177	NT2	tungsten 174
NT2	thallium 195	NT1	tin isotopes	NT2	tungsten 175
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NT2	thallium 202	NT2	tin 106	NT2	tungsten 182
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NT2	thallium 206	NT2	tin 110	NT2	tungsten 186
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NT2	thorium 216	NT2	tin 120	NT2	uranium 223
NT2	thorium 217	NT2	tin 121	NT2	uranium 224
NT2	thorium 218	NT2	tin 122	NT2	uranium 225
NT2	thorium 219	NT2	tin 123	NT2	uranium 226
NT2	thorium 220	NT2	tin 124	NT2	uranium 227
NT2	thorium 221	NT2	tin 125	NT2	uranium 228
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 NT2 zirconium 98  
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 RT gas centrifugation  
 RT isotope effects  
 RT isotope production  
 RT isotope ratio  
 RT isotope separation  
 RT nuclei  
**isotopic analysis (quantitative)**  
 USE isotope ratio  
**isotopic composition (quantitative)**  
 USE isotope ratio  
**isotopic effects**  
 USE isotope effects  
**ISOTOPIC EXCHANGE**  
 UF exchange (isotopic)  
 UF isotope exchange  
 UF isotopic substitution  
 NT1 dual temperature process  
 RT chemical reactions  
 RT hydrogen transfer  
 RT isotope effects  
 RT isotope enriched materials  
 RT labelling  
**isotopic separation**  
 USE isotope separation  
**isotopic shift**  
 USE spectral shift  
**isotopic spin**  
 USE isospin  
**isotopic substitution**  
 USE isotopic exchange  
**ISOTROPY**  
 RT anisotropy  
 RT configuration  
 RT distribution  
 RT orientation  
**ISOVALERIC ACID**  
 \*BT1 monocarboxylic acids  
**ISOVECTORS**  
 \*BT1 vectors  
**ISPRA-1 REACTOR**  
 \*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors  
**isptra-2 rana reactor**  
 USE rana reactor  
**ISRAEL**  
 BT1 asia  
 BT1 developing countries  
 BT1 middle east  
 RT israeli organizations

**ISRAEL ATOMIC ENERGY COMMISSION**

1979-11-02

- \*BT1 israeli organizations
- NT1 negev nuclear research center
- NT1 soreq nuclear research center

**ISRAELI ORGANIZATIONS**

INIS: 1979-11-02; ETDE: 1979-09-26

- BT1 national organizations
- NT1 israel atomic energy commission
- NT2 negev nuclear research center
- NT2 soreq nuclear research center
- RT israel

**israeli research reactor-1**

2000-04-12

- USE irr-1 reactor

**israeli research reactor-2**

2000-04-12

- USE irr-2 reactor

**iss orbital station**

2005-10-13

- USE international space station

**ISTTOK TOKAMAK**

2000-05-11

Instituto Superior Tecnico, Lisbon, Portugal.

- \*BT1 tokamak devices

**ISX TOKAMAK**

INIS: 1977-09-15; ETDE: 1978-04-27

UF impurity study experimental tokamak

- \*BT1 tokamak devices

**ITACONIC ACID**

- \*BT1 dicarboxylic acids

**ITALIAN ENEA**

INIS: 1985-03-15; ETDE: 1989-08-16

Comitato Nazionale per la Ricerca e lo Sviluppo dell'Energia Nucleare e delle Energie Alternative; prior to April 1982 known as Comitato Nazionale per Energia Nucleare, and documents written before that date should be indexed to CNEN.

UF comitato nazionale energia nucleare e alternative

UF enea italy

UF energia nucl e altern, com naz

- \*BT1 italian organizations

NT1 cnen

**ITALIAN ENEL**

INIS: 1992-09-11; ETDE: 1991-03-19

Ente Nazionale per l'Energia Elettrica.

- \*BT1 italian organizations

**ITALIAN ORGANIZATIONS**

1996-07-16

(Prior to August 1996 AGIP NUCLEARE was a valid ETDE descriptor.)

UF agip nucleare

BT1 national organizations

NT1 cise

NT1 italian enea

NT2 cnen

NT1 italian enel

**italian triga-mark-ii reactor**

2000-04-12

- USE triga-2-rome reactor

**italian triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-06-13

- USE triga-2-rome reactor

**ITALY**

1997-06-19

- BT1 developed countries

\*BT1 western europe

NT1 appennines

NT1 sicily

RT adriatic sea

RT alps

RT larderello geothermal field

RT monte amiata geothermal field

RT oecd

RT po river

RT travale geothermal field

**ITEP SYNCHROTRON**

Institute of Theoretical and Experimental Physics Synchrotron.

- \*BT1 synchrotrons

**ITER TOKAMAK**

INIS: 1989-04-20; ETDE: 1989-05-11

International Thermonuclear Experimental Reactor.

\*BT1 tokamak devices

\*BT1 tokamak type reactors

**ITERATIVE METHODS**

BT1 calculation methods

NT1 finite difference method

NT1 galerkin-petrov method

NT1 newton method

NT1 runge-kutta method

RT mathematics

RT numerical solution

**itr reactor**

2000-04-12

(Prior to April 1994, this was a valid ETDE descriptor.)

USE beryllium moderated reactors

USE enriched uranium reactors

USE thermionic reactors

USE zero power reactors

**itri**

INIS: 2000-04-12; ETDE: 1982-07-27

- USE inhalation toxicology research institute

**IU CYCLOTRON**

INIS: 1979-04-27; ETDE: 1979-05-25

UF indiana university cyclotron

- \*BT1 isochronous cyclotrons

**iudr**

- USE iododeoxyuridine

**ius**

INIS: 1982-12-03; ETDE: 1977-09-19

Integrated utility systems.

- USE total energy systems

**ivory coast**

INIS: 1997-01-07; ETDE: 1976-01-26

(Until January 1997 this was a valid descriptor.)

- USE cote d'ivoire

**IVV-2M REACTOR**

2004-05-11

Gosatomnadzor of Russia, Russian Federation Atomic Energy Ministry, Sverdlovsk, Russian Federation.

\*BT1 enriched uranium reactors

\*BT1 materials testing reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**IVV-7 REACTOR**

INIS: 1992-01-08; ETDE: 1992-02-19

Research Center in Tajura, Libya.

\*BT1 pool type reactors

\*BT1 research reactors

**ivy project**

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

- USE nuclear explosions

**iwg-1m reactor**

INIS: 2003-11-26; ETDE: 2003-12-03

Kurchatov city, East Kazakhstan.

- USE ewg-1 reactor

**ixion**

2000-04-12

Plasma heating and confinement by superposition of radial electric fields on the axial magnetic fields (LASL).

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE magnetic mirrors

**j-3105 resonances**

- USE j psi-3097 mesons

**J CODES**

- BT1 computer codes

**J-J COUPLING**

UF spin-spin interaction

\*BT1 intermediate coupling

RT orbital angular momentum

**J PSI-3097 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by PSI-3105 RESONANCES.)

UF j-3105 resonances

UF psi-3105 resonances

\*BT1 charmonium

\*BT1 vector mesons

**JABILUKA DEPOSIT**

INIS: 1978-07-03; ETDE: 1978-08-07

\*BT1 uranium deposits

RT northern territory

RT uranium ores

**JACKETS**

Device surrounding an object to be heated or cooled, e.g., water jackets.

RT fuel cans

RT reactor components

RT shrouds

RT sleeves

**JACKSON MODEL**

RT compound nuclei

RT nuclear reactions

**JACOBIAN FUNCTION**

- BT1 functions

**JAEA**

2006-01-26

The Japan Atomic Energy Research Institute (JAERI) and the Japan Nuclear Cycle Development Institute (JNC) were merged into a new independent organization named the Japan Atomic Energy Agency (JAEA) in October 2005.

UF japan atomic energy agency

\*BT1 japanese organizations

**JAERI**

The Japan Atomic Energy Research Institute (JAERI) and the Japan Nuclear Cycle Development Institute (JNC) were merged into a new independent organization named the Japan Atomic Energy Agency (JAEA) in October 2005.

UF japan atomic energy research institute

\*BT1 japanese organizations



**jaeri experimental fusion reactor**

*INIS: 2000-04-12; ETDE: 1981-08-04*  
USE jxfr tokamak

**jaeri fusion torus-2a**

*INIS: 1976-07-30; ETDE: 1976-11-02*  
USE jft-2a tokamak

**JAERI LINAC**

\*BT1 linear accelerators

**JAERI TANDEM ACCELERATOR**

*INIS: 1982-04-14; ETDE: 1982-05-07*  
\*BT1 tandem electrostatic accelerators  
\*BT1 van de graaff accelerators

**JAHN-TELLER EFFECT**

RT energy levels  
RT molecules

**jails**

*INIS: 2000-04-12; ETDE: 1981-01-09*  
USE public buildings

**JAMAICA**

BT1 developing countries  
\*BT1 greater antilles  
BT1 latin america

**james a. fitzpatrick reactor**

USE fitzpatrick reactor

**JAMES RIVER**

\*BT1 rivers  
RT virginia

**JAMESPORT-1 REACTOR**

*Long Island Lighting Co., Jamesport, New York, USA. Canceled in 1980 before construction began.*

\*BT1 pwr type reactors

**JAMESPORT-2 REACTOR**

*Long Island Lighting Co., Jamesport, New York, USA. Canceled in 1980 before construction began.*

\*BT1 pwr type reactors

**jangle project**

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

USE nuclear explosions

**JANUS REACTOR**

*ANL, Argonne, Illinois, USA. Shut down in 1992.*

UF biological research reactor janus

\*BT1 enriched uranium reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**JAPAN**

1997-06-19

BT1 asia  
BT1 developed countries  
NT1 hachimantai  
NT1 hirosshima  
NT1 nagasaki  
RT beppu geothermal field  
RT hatchobaru geothermal field  
RT kakkonda geothermal field  
RT matsukawa geothermal field  
RT oecd  
RT okinawa  
RT onikobe geothermal field  
RT onuma geothermal field  
RT otake geothermal field  
RT takenoyu geothermal field

RT takinoue geothermal field

**japan atomic energy agency**

2006-01-26

USE jaea

**japan atomic energy research institute**

*INIS: 1993-12-30; ETDE: 1975-09-11*

USE jaeri

**japan atr fugen**

USE jatr reactor

**japan fast experimental breeder reactor**

1993-11-08

USE joyo reactor

**japan htr**

USE htr reactor

**japan institute plasma physics stellarator**

1993-11-08

USE jipp stellarator

**japan materials testing reactor**

USE jmtr reactor

**japan nuclear cycle development institute**

*INIS: 1999-06-28; ETDE: 1999-07-02*

USE jnc

**japan nuclear energy safety organization**

2006-01-06

USE jnes

**japan nuclear ship development agency**

*INIS: 1993-12-30; ETDE: 1975-09-11*

USE jnsda

**japan power demonstration reactor**

USE jpdr reactor

**japan power demonstration reactor-2**

1993-11-08

USE jpdr-2 reactor

**japan prototype fast reactor**

*INIS: 1984-06-21; ETDE: 2002-02-28*

USE monju reactor

**japan research reactor-1**

USE jrr-1 reactor

**japan research reactor-2**

USE jrr-2 reactor

**japan research reactor-3**

USE jrr-3 reactor

**japan research reactor-4**

USE jrr-4 reactor

**japan ship reactor mutsu**

1993-11-08

USE mutsu reactor

**JAPANESE ORGANIZATIONS**

BT1 national organizations  
NT1 jaea  
NT1 jaeri  
NT1 jnc  
NT1 jnes  
NT1 jnsda  
NT1 pnc

**japco-1 reactor**

USE tokai-mura reactor

**japco-2 reactor**

USE tsuruga reactor

**japco-3 reactor**

USE tokai-2 reactor

**japco-4 reactor**

*INIS: 1983-06-30; ETDE: 1983-07-20*

USE tsuruga-2 reactor

**JASON REACTOR**

*UK Ministry of Defence, Dept. of Nuclear Science and Technology, Royal Naval College, London, United Kingdom.*

UF uk royal naval college-jason reactor

\*BT1 argonaut type reactors  
\*BT1 research reactors  
\*BT1 training reactors

**JASTROW THEORY**

RT hard-core potential

RT nucleon-nucleon potential

**JATR REACTOR**

*JNC, Tsuruga, Fukui, Japan.*

UF advanced thermal reactor fugen

UF fugen atr

UF japan atr fugen

\*BT1 hwlwr type reactors  
\*BT1 natural uranium reactors  
\*BT1 plutonium reactors  
\*BT1 pressure tube reactors  
\*BT1 thermal reactors

**JAUNDICE**

BT1 pathological changes

BT1 symptoms

RT hepatitis

RT liver

**JAVA**

*INIS: 2002-09-10; ETDE: 2002-11-12*

BT1 programming languages

**java (island)**

2002-11-13

USE indonesia

**JAW**

UF alveoli (dental)

UF mandible

\*BT1 skull

RT teeth

**jecco process**

2000-04-12

*Japanese process using lime to remove sulfur dioxide in flue gas as gypsum.*

USE desulfurization

USE lime-limestone wet scrubbing processes

**JEEP-2 REACTOR**

*Institut for Atomenergi, Kjeller, Norway.*

UF joint establishment experimental pile-2

\*BT1 enriched uranium reactors  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 isotope production reactors  
\*BT1 research reactors  
\*BT1 tank type reactors

**jefferson laboratory**

*INIS: 2000-04-12; ETDE: 1997-03-28*

USE cebaf accelerator

**jejunum**

USE small intestine

**JEMEZ MOUNTAINS**

2000-04-12

BT1 mountains  
RT new mexico

**JEN-1 REACTOR**

Nuclear Energy Board, Juan Vigon National Nuclear Energy Centre, Madrid, Spain.

UF *junta de energia nuclear (spain)-1 reactor*

UF *spanish jen-1 research reactor*

\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**JEN-2 REACTOR**

UF *junta de energia nuclear (spain)-2 reactor*

UF *spanish jen-2 research reactor*

\*BT1 pool type reactors  
\*BT1 research reactors

**JEN REACTOR**

UF *junta de energia nuclear (portugal) reactor*

UF *portuguese jen research reactor*

\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**jensen sarcoma**

USE experimental neoplasms

**jerusalem artichokes**

INIS: 2000-04-12; ETDE: 1987-12-17

USE sunflowers

**JERVIS BAY REACTOR**

\*BT1 power reactors

**JESSE EFFECT**

Change of ionization characteristics when impurities are added to certain gases.

RT gases  
RT impurities  
RT ionization

**JET DRILLS**

INIS: 2000-04-12; ETDE: 1977-03-08

\*BT1 drills  
RT drill bits  
RT jets  
RT nozzles

**JET ENGINE FUELS**

1994-08-26

SF *aircraft fuels*

SF *aviation fuels*

\*BT1 liquid fuels  
RT hydrogen fuels

**JET MODEL**

INIS: 1976-08-17; ETDE: 1976-11-01

UF *ujm*  
UF *uncorrelated-jet model*  
\*BT1 particle models  
RT uncorrelated-particle model

**jet reactors**

INIS: 2000-04-12; ETDE: 1978-04-27  
(Prior to July 1985, this was a valid ETDE descriptor.)

USE jet tokamak

**JET TOKAMAK**

INIS: 1975-11-11; ETDE: 1979-04-11

UF *jet reactors*  
\*BT1 tokamak devices

**JETS**

RT fluid flow

RT jet drills

RT nozzles

**JEZEBEL REACTOR**

LANL, Los Alamos, New Mexico, USA. Shut down in 1987.

\*BT1 zero power reactors

**jfer reactor**

USE joyo reactor

**JFT-2 TOKAMAK**

Tokamak device with circular cross section and no divertor.

\*BT1 tokamak devices

**JFT-2A TOKAMAK**

INIS: 1976-07-30; ETDE: 1976-11-01  
Tokamak device with teardrop-like cross section and with an axisymmetric divertor.

UF *diva tokamak*

UF *jaeri fusion torus-2a*

\*BT1 tokamak devices

**JFT-2M TOKAMAK**

INIS: 1985-12-10; ETDE: 1986-01-16  
Tokamak device with a D-shaped cross section and a divertor.

\*BT1 tokamak devices

**jgc methane-rich gas process**

INIS: 2000-04-12; ETDE: 1976-01-23  
Production of town gas or sng from naphtha, natural gasoline, lpg, kerosene, or methanol by catalytic reforming and methanation. (Prior to February 1995, this was a valid ETDE descriptor.)

USE sng processes

**jhr reactor**

2005-02-10  
USE jules horowitz reactor

**JIGS**

INIS: 2000-04-12; ETDE: 1976-02-19  
Devices that are submerged in water and vibrated to filter or concentrate ore, clean coal, etc.

BT1 concentrators  
RT density  
RT separation processes  
RT sorting

**JININGITE**

2000-04-12  
\*BT1 thorite

**JINR**

UF *dubna, jinr*  
UF *joint institute for nuclear research*  
UF *ob'edinennyj institut yadernykh issledovaniy*  
UF *oilyai*  
BT1 international organizations

**JINR CYCLOTRONS**

\*BT1 isochronous cyclotrons  
NT1 jinr u-400 cyclotron

**JINR SYNCHROTRON**

\*BT1 synchrotrons

**JINR U-400 CYCLOTRON**

INIS: 1982-07-22; ETDE: 1982-08-11  
\*BT1 heavy ion accelerators  
\*BT1 jinr cyclotrons

**JIPP STELLARATOR**

UF *japan institute plasma physics stellarator*  
\*BT1 stellarators

**JIPPT-2 DEVICE**

INIS: 1982-08-27; ETDE: 1982-09-10

\*BT1 stellarators  
\*BT1 tokamak devices

**JMTR REACTOR**

JAERI, Oarai, Ibaraki, Japan.  
UF *japan materials testing reactor*

UF *materials testing reactor japan*

\*BT1 enriched uranium reactors  
\*BT1 materials testing reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 test reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**JNC**

INIS: 1999-06-28; ETDE: 1999-07-02  
The Japan Atomic Energy Research Institute (JAERI) and the Japan Nuclear Cycle Development Institute (JNC), previously known as the Power Reactor and Nuclear Fuel Development Corporation (PNC), were merged into a new independent organization named the Japan Atomic Energy Agency (JAEA) in October 2005.

UF *japan nuclear cycle development institute*

\*BT1 japanese organizations

**JNES**

2006-01-06  
UF *japan nuclear energy safety organization*

\*BT1 japanese organizations

**JNSDA**

ETDE: 1975-09-11  
UF *japan nuclear ship development agency*

\*BT1 japanese organizations

**job training**

INIS: 2000-04-12; ETDE: 1980-09-22  
USE training

**johannite**

1996-07-18  
(Until July 1996 this was a valid descriptor.)  
USE sulfate minerals  
USE uranium minerals

**JOINING**

BT1 fabrication  
NT1 bonding  
NT1 fastening  
NT1 welding  
NT2 arc welding  
NT3 gas metal-arc welding  
NT4 gas tungsten-arc welding  
NT3 plasma arc welding  
NT3 shielded metal-arc welding  
NT3 submerged arc welding  
NT2 brazing  
NT2 diffusion welding  
NT2 electron beam welding  
NT2 electroslag welding  
NT2 explosion welding  
NT2 forge welding  
NT2 friction welding  
NT2 gas welding  
NT2 induction welding  
NT2 laser welding  
NT2 magnetic force welding  
NT2 resistance welding  
NT3 flash welding  
NT2 soldering  
NT2 ultrasonic welding  
NT2 vacuum welding  
RT compatibility

RT couplings  
RT fasteners

**joint committee on atomic energy**  
INIS: 1975-11-27; ETDE: 1975-09-17  
USE us jcae

**joint establishment experimental pile-2**  
2000-04-12  
USE jeep-2 reactor

**joint institute for nuclear research**  
1993-11-08  
USE jinr

**joint liability**  
INIS: 1990-12-15; ETDE: 2002-02-28  
(Prior to December 1990, this was a valid descriptor.)  
USE liabilities

**JOINT VENTURES**  
INIS: 1992-01-16; ETDE: 1978-11-14  
*Commercial or maritime enterprises undertaken by several parties jointly.*  
BT1 cooperation  
RT industry  
RT legal aspects  
RT liabilities

**JOINTS**  
*Mechanical joints only; see also BONE JOINTS.*  
UF connections  
SF junctions  
NT1 bolted joints  
NT1 brazed joints  
NT1 expansion joints  
NT1 pipe joints  
NT1 soldered joints  
NT1 threaded joints  
NT1 welded joints  
RT bonding  
RT closures  
RT compatibility  
RT fastening  
RT flanges

**joints (anatomy)**  
USE bone joints

**JOJOBA**  
INIS: 1992-01-09; ETDE: 1980-11-25  
UF *simmondsia chinensis*  
\*BT1 magnoliopsida  
\*BT1 shrubs  
RT arid lands

**jominy end-quench technique**  
2000-04-12  
(Prior to July 1996 this was a valid ETDE descriptor.)  
SEE quench hardening

**JONES REDUCTOR**  
2000-04-12  
RT reduction

**JOOS-WEINBERG EQUATION**  
\*BT1 differential equations  
RT dirac equation  
RT quantum electrodynamics  
RT spin

**JORDAN**  
1979-12-20  
BT1 arab countries  
BT1 asia  
BT1 developing countries  
BT1 middle east

**JORDANIAN ORGANIZATIONS**  
2004-03-31  
BT1 national organizations

**jorum event**  
1994-10-14  
*A test made during OPERATION MANDREL.*  
(Prior to September 1994, this was a valid ETDE descriptor.)  
USE nuclear explosions  
USE underground explosions

**jose cabrera reactor**  
USE zorita-1 reactor

**joseph m. farley-1 reactor**  
USE farley-1 reactor

**joseph m. farley-2 reactor**  
USE farley-2 reactor

**JOSEPHSON EFFECT**  
RT josephson junctions  
RT superconductivity

**JOSEPHSON JUNCTIONS**  
BT1 superconducting junctions  
RT josephson effect

**JOST FUNCTION**  
BT1 functions  
RT scattering  
RT schroedinger equation

**JOULE HEATING**  
UF *ohmic plasma heating*  
\*BT1 electric heating  
\*BT1 plasma heating  
NT1 current-drive heating

**joule-thomson effect**  
INIS: 2000-04-12; ETDE: 1978-09-11  
*A change of temperature in a gas undergoing Joule-Thomson expansion.*  
(Prior to March 1997 this was a valid ETDE descriptor.)  
SEE thermodynamics

**JOURNAL BEARINGS**  
BT1 bearings

**JOYO REACTOR**  
*JNC, Oarai, Ibaraki, Japan.*  
UF efr reactor  
UF *fast experimental breeder reactor japan*  
UF *japan fast experimental breeder reactor*  
UF *jfer reactor*  
\*BT1 experimental reactors  
\*BT1 lmfr type reactors  
\*BT1 power reactors

**JPDR-2 REACTOR**  
1979-09-18  
*JAERI, Tokai, Ibaraki, Japan.*  
UF *japan power demonstration reactor-2*  
\*BT1 bwr type reactors

**JPDR REACTOR**  
*JAERI, Tokai, Ibaraki, Japan.*  
UF *japan power demonstration reactor*  
\*BT1 bwr type reactors  
\*BT1 experimental reactors

**jpfr reactor**  
INIS: 1977-03-01; ETDE: 1977-04-12  
USE monju reactor

**JPL PROCESS**  
INIS: 2000-04-12; ETDE: 1978-07-05  
*Coal desulfurization process consisting of sequential steps of chlorination, hydrolysis, and dechlorination.*  
\*BT1 desulfurization  
RT coal preparation

**JRR-1 REACTOR**  
*JAERI, Tokai, Ibaraki, Japan.*  
UF *japan research reactor-1*  
\*BT1 aqueous homogeneous reactors  
\*BT1 enriched uranium reactors  
\*BT1 isotope production reactors  
\*BT1 research reactors  
\*BT1 training reactors

**JRR-2 REACTOR**  
*JAERI, Tokai, Ibaraki, Japan.*  
UF *japan research reactor-2*  
\*BT1 enriched uranium reactors  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 research reactors  
\*BT1 tank type reactors

**JRR-3 REACTOR**  
*JAERI, Tokai, Ibaraki, Japan. This reactor was shut down in 1983 and replaced in 1990 by the JRR-3M REACTOR.*  
UF *japan research reactor-3*  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 isotope production reactors  
\*BT1 materials testing reactors  
\*BT1 natural uranium reactors  
\*BT1 research reactors  
\*BT1 tank type reactors

**JRR-3M REACTOR**  
INIS: 1992-01-24; ETDE: 1992-02-14  
*JAERI, Tokai, Ibaraki, Japan. This reactor replaces the JRR-3 Reactor which was shut down in 1983.*  
\*BT1 enriched uranium reactors  
\*BT1 isotope production reactors  
\*BT1 materials testing reactors  
\*BT1 pool type reactors  
\*BT1 research reactors

**JRR-4 REACTOR**  
*JAERI, Tokai, Ibaraki, Japan.*  
UF *japan research reactor-4*  
\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors

**jt-60 reactors**  
INIS: 2000-04-12; ETDE: 1978-04-27  
(Prior to July 1985, this was a valid ETDE descriptor.)  
USE jt-60 tokamak

**jt-60-su tokamak**  
INIS: 1999-07-26; ETDE: 2002-02-28  
USE jt-60u tokamak

**JT-60 TOKAMAK**  
INIS: 1977-01-25; ETDE: 1979-04-11  
UF *jt-60 reactors*  
\*BT1 tokamak devices  
RT jt-60u tokamak

**JT-60U TOKAMAK**  
INIS: 1991-03-22; ETDE: 1991-04-09  
UF *jt-60-su tokamak*  
\*BT1 tokamak devices  
RT jt-60 tokamak

**juelich (kernforschungsanlage)**  
INIS: 1984-06-21; ETDE: 1995-10-30  
USE forschungszentrum juelich

**juelich-dido reactor**

USE frj-2 reactor

**juelich-merlin reactor**

USE frj-1 reactor

**juelich storage ring**

INIS: 1992-04-16; ETDE: 2002-02-28

USE cosy storage ring

**juices**

USE beverages

**JULES HOROWITZ REACTOR**

2005-02-10

*High flux materials testing reactor; CEA, Cadarache, Saint-Paul-lez-Durance, France.*

UF jhr reactor

UF reacteur jules horowitz

UF rjh reactor

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 materials testing reactors

\*BT1 pool type reactors

\*BT1 thermal reactors

**JULIC CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-03-24

\*BT1 isochronous cyclotrons

**JUNCTION DETECTORS**

UF p-n counters

\*BT1 semiconductor detectors

NT1 li-drifted junction detectors

RT semiconductor junctions

**JUNCTION DIODES**

UF zener diodes

\*BT1 semiconductor diodes

**JUNCTION TRANSISTORS**

\*BT1 transistors

RT semiconductor junctions

**junctions**

2000-03-28

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE connectors

SEE electric contacts

SEE joints

SEE semiconductor junctions

SEE superconducting junctions

**junipers**

INIS: 1992-01-15; ETDE: 2002-02-28

USE cedars

**juniperus**

INIS: 2000-04-12; ETDE: 1985-12-11

USE cedars

**JUNO REACTOR**

UF ukaea-juno reactor

\*BT1 heavy water moderated reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 water moderated reactors

\*BT1 zero power reactors

**junta de energia nuclear (portugal) reactor**

INIS: 1984-06-21; ETDE: 2002-02-28

USE jen reactor

**junta de energia nuclear (spain)-1 reactor**

INIS: 1984-06-21; ETDE: 2002-02-28

USE jen-1 reactor

**junta de energia nuclear (spain)-2 reactor**

INIS: 1984-06-21; ETDE: 2002-02-28

USE jen-2 reactor

**JUPITER PLANET**

BT1 planets

**JURAGUA-1 REACTOR**

INIS: 1993-02-11; ETDE: 1993-03-04

*Juragua, Cienfuegos, Cuba.*

\*BT1 wwer type reactors

**JURASSIC PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19

\*BT1 mesozoic era

**justice department**

INIS: 2000-04-12; ETDE: 1980-08-25

USE us doj

**JUTE**

\*BT1 corchorus

RT fibers

RT textiles

**JUVENILES**

INIS: 1986-03-04; ETDE: 1976-04-19

RT adolescents

RT age groups

RT children

**jsxr reactor**

INIS: 1981-11-25; ETDE: 1982-01-07

USE jsxr tokamak

**JXFR TOKAMAK**

INIS: 1981-11-25; ETDE: 1982-01-07

UF jaeri experimental fusion reactor

UF jsxr reactor

\*BT1 tokamak devices

**k-1240 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE strange mesons

**k-1320 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE k\*0-1430 mesons

**k-1420 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE k\*2-1430 mesons

**K-1460 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

\*BT1 pseudoscalar mesons

\*BT1 strange mesons

**k-1775 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE k2-1770 mesons

**K-1830 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

\*BT1 pseudoscalar mesons

\*BT1 strange mesons

**k-1871 resonances**

INIS: 1988-03-08; ETDE: 1978-03-08

(Prior to December 1987 this was a valid descriptor.)

USE strange mesons

**k-2130 resonances**

INIS: 1987-12-21; ETDE: 1979-10-23

(Prior to December 1987 this was a valid descriptor.)

USE k\*4-2045 mesons

**k-25 plant**

USE orgdp

**k-892 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE k\*-892 mesons

**K ABSORPTION**

\*BT1 absorption

**K CAPTURE**

\*BT1 electron capture decay

**K CODES**

BT1 computer codes

**K CONVERSION**

UF k-conversion coefficient

\*BT1 internal conversion

**k-conversion coefficient**

USE k conversion

**K-HARMONICS METHOD**

1978-11-24

BT1 calculation methods

RT nuclear structure

**K MATRIX**

BT1 matrices

RT nuclear reactions

RT unitary pole approximation

**K REACTOR***Savannah River Plant, Aiken, South Carolina, USA. Reactor in surveillance and maintenance mode.*

UF savannah river plant k reactor

\*BT1 heavy water moderated reactors

\*BT1 special production reactors

**K SHELL**

INIS: 1976-07-06; ETDE: 1976-08-24

*Atomic electron shells.*

UF atomic shells (k)

BT1 electronic structure

**K\*-1410 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

\*BT1 strange mesons

\*BT1 vector mesons

**K\*-1680 MESONS**

1995-07-17

\*BT1 strange mesons

\*BT1 vector mesons

**K\*-892 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

(Prior to December 1987 this concept was indexed by K-892 RESONANCES.)

UF k-892 resonances

\*BT1 strange mesons

\*BT1 vector mesons

**k\*0-1350 mesons**

INIS: 1995-08-07; ETDE: 1988-02-02

(From December 1987 until July 1995 this was a valid term.)

USE k\*0-1430 mesons

**K\*0-1430 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by K-1320 RESONANCES; from



**kalpakkam prototype fast breeder reactor**

2005-07-22

USE kalpakkam pfbr reactor

**kalpakkam pulsed fast reactor**

INIS: 1975-10-29; ETDE: 1975-12-16

USE kalpakkam pfr reactor

**kalpakkam reactor research center**

INIS: 1989-02-24; ETDE: 1977-06-03

Reactor Research Centre, Kalpakkam, India.

USE igcar

**KALUZA-KLEIN THEORY**

INIS: 1984-01-18; ETDE: 1984-02-10

*Approach to unify electromagnetism and gravitation in the framework of general relativity theory by introducing a fifth space-time coordinate, the generator of which is the electric charge.*

\*BT1 unified-field theories

RT compactification

RT electromagnetism

RT general relativity theory

RT gravitation

RT supergravity

RT unified gauge models

**KAMCHATKA**

INIS: 1992-06-04; ETDE: 1978-06-14

\*BT1 russian federation

**KAMINI REACTOR**

INIS: 1989-12-08; ETDE: 1990-01-03

IGCAR, Kalpakkam, Tamilnadu, India.

\*BT1 research and test reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**KAMOJANG GEOTHERMAL FIELD**

INIS: 1992-06-04; ETDE: 1980-03-04

BT1 geothermal fields

RT indonesia

**kangaroo rat**

Long-tailed jumping rat of western USA.

USE rodents

**kangaroos**

INIS: 1993-05-04; ETDE: 1981-06-15

USE marsupials

**kansai-1 reactor**

USE mihama-1 reactor

**kansai-2 reactor**

USE mihama-2 reactor

**kansai-3 reactor**

USE takahama-1 reactor

**kansai-4 reactor**

USE takahama-2 reactor

**KANSAS**

\*BT1 usa

RT chattanooga formation

RT missouri river

RT permian basin

**KANSAS CITY PLANT**

INIS: 1991-02-11; ETDE: 1988-05-23

US DOE Facility in Kansas City, Missouri.

\*BT1 us doe

\*BT1 us erda

RT missouri

**kansas state university triga mk-2 reactor**

1993-11-09

USE triga-2-kansas reactor

**KANTHAL**

2000-04-12

\*BT1 aluminium alloys

\*BT1 chromium alloys

\*BT1 cobalt alloys

\*BT1 iron base alloys

**KANUPP REACTOR**

Paradise Point, Sind, Pakistan.

UF karachi nuclear power plant

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

**KAOLIN**

*A group of clay minerals, mainly hydrous aluminium silicate.*

UF china clay

\*BT1 clays

\*BT1 oxide minerals

RT kaolinite

**KAOLINITE**

1992-07-20

*Hydrous silicate of aluminium that constitutes the principal mineral in kaolin.*

\*BT1 silicate minerals

RT aluminium silicates

RT kaolin

**KAON BEAMS**

\*BT1 meson beams

**KAON DETECTION**

1976-02-11

\*BT1 radiation detection

**kaon-deuteron interactions**

(Prior to March 1996 this was a valid ETDE descriptor.)

USE kaon-neutron interactions

USE kaon-proton interactions

**KAON-HYPERON INTERACTIONS**

\*BT1 meson-hyperon interactions

**KAON-KAON INTERACTIONS**

\*BT1 meson-meson interactions

**kaon minus-deuteron interactions**

2000-04-12

(Prior to March 1996 KAON-DEUTERON INTERACTIONS was used for this concept in ETDE.)

USE kaon minus-neutron interactions

USE kaon minus-proton interactions

**KAON MINUS-NEUTRON INTERACTIONS**

INIS: 1977-01-25; ETDE: 1976-07-09

UF kaon minus-deuteron interactions

\*BT1 kaon-neutron interactions

**KAON MINUS-PROTON INTERACTIONS**

INIS: 1977-01-25; ETDE: 1976-07-09

UF kaon minus-deuteron interactions

\*BT1 kaon-proton interactions

**KAON MINUS REACTIONS**

INIS: 1977-03-01; ETDE: 1976-07-09

\*BT1 kaon reactions

**kaon neutral-deuteron interactions**

2000-04-12

(Prior to March 1996 KAON-DEUTERON INTERACTIONS was used for this concept in ETDE.)

USE kaon neutral-neutron interactions

USE kaon neutral-proton interactions

**KAON NEUTRAL-NEUTRON INTERACTIONS**

INIS: 1979-09-18; ETDE: 1976-07-09

UF kaon neutral-deuteron interactions

\*BT1 kaon-neutron interactions

**KAON NEUTRAL-PROTON INTERACTIONS**

INIS: 1977-06-13; ETDE: 1976-07-09

UF kaon neutral-deuteron interactions

\*BT1 kaon-proton interactions

**KAON NEUTRAL REACTIONS**

INIS: 1979-09-18; ETDE: 1976-07-09

\*BT1 kaon reactions

**KAON-NEUTRON INTERACTIONS**

(From February 1975 until March 1996 KAON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

UF kaon-deuteron interactions

\*BT1 kaon-nucleon interactions

NT1 kaon minus-neutron interactions

NT1 kaon neutral-neutron interactions

NT1 kaon plus-neutron interactions

**KAON-NUCLEON INTERACTIONS**

\*BT1 meson-nucleon interactions

NT1 kaon-neutron interactions

NT2 kaon minus-neutron interactions

NT2 kaon neutral-neutron interactions

NT2 kaon plus-neutron interactions

NT1 kaon-proton interactions

NT2 kaon minus-proton interactions

NT2 kaon neutral-proton interactions

NT2 kaon plus-proton interactions

**kaon plus-deuteron interactions**

2000-04-12

(Prior to March 1996 KAON-DEUTERON INTERACTIONS was used for this concept in ETDE.)

USE kaon plus-neutron interactions

USE kaon plus-proton interactions

**KAON PLUS-NEUTRON INTERACTIONS**

INIS: 1977-01-25; ETDE: 1976-07-09

UF kaon plus-deuteron interactions

\*BT1 kaon-neutron interactions

**KAON PLUS-PROTON INTERACTIONS**

INIS: 1977-01-25; ETDE: 1976-07-09

UF kaon plus-deuteron interactions

\*BT1 kaon-proton interactions

**KAON PLUS REACTIONS**

INIS: 1977-09-15; ETDE: 1976-07-09

\*BT1 kaon reactions

**KAON-PROTON INTERACTIONS**

(From February 1975 until March 1996 KAON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

UF kaon-deuteron interactions

\*BT1 kaon-nucleon interactions

NT1 kaon minus-proton interactions

NT1 kaon neutral-proton interactions

NT1 kaon plus-proton interactions

**KAON REACTIONS**

\*BT1 meson reactions

NT1 kaon minus reactions

**NT1** kaon neutral reactions  
**NT1** kaon plus reactions

**KAONIC ATOMS**

\*BT1 mesic atoms  
 RT kaonium

**KAONIUM**

INIS: 1985-11-19; ETDE: 1985-12-13

RT bound state  
 RT kaonic atoms  
 RT kaons minus  
 RT kaons plus  
 RT muonium  
 RT pionium

**KAONS**

\*BT1 pseudoscalar mesons  
 \*BT1 strange mesons  
**NT1** antikaons  
**NT2** antikaons neutral  
**NT1** cosmic kaons  
**NT1** kaons minus  
**NT1** kaons neutral  
**NT2** antikaons neutral  
**NT2** kaons neutral long-lived  
**NT2** kaons neutral short-lived  
**NT1** kaons plus  
 RT pi-k atoms

**kaons 1**

USE kaons neutral short-lived

**kaons 2**

USE kaons neutral long-lived

**KAONS MINUS**

\*BT1 kaons  
 RT kaonium

**KAONS NEUTRAL**

\*BT1 kaons  
**NT1** antikaons neutral  
**NT1** kaons neutral long-lived  
**NT1** kaons neutral short-lived

**KAONS NEUTRAL LONG-LIVED**

UF k02  
 UF kaons 2  
 \*BT1 kaons neutral

**KAONS NEUTRAL SHORT-LIVED**

UF k01  
 UF kaons 1  
 \*BT1 kaons neutral

**KAONS PLUS**

\*BT1 kaons  
 RT kaonium

**KAPITZA RESISTANCE**

BT1 thermal boundary resistance

**KAPL**

UF knolls atomic power laboratory  
 \*BT1 us aec  
 \*BT1 us doe  
 \*BT1 us erda  
 RT new york

**kappa-725 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**kapur-peierls method**

USE peierls method

**karachi nuclear power plant**

USE kanupp reactor

**karlsruhe (forschungszentrum)**

1995-10-25

USE forschungszentrum karlsruhe

**karlsruhe (kernforschungszentrum)**

INIS: 1993-11-09; ETDE: 2002-02-28

USE forschungszentrum karlsruhe

**KARLSRUHE CYCLOTRON**

\*BT1 isochronous cyclotrons

**karlsruhe nuclear research center**

2000-04-12

USE forschungszentrum karlsruhe

**karlsruhe reprocessing plant**

INIS: 1979-11-02; ETDE: 1979-02-23

Wiederaufarbeitungsanlage Karlsruhe.

USE wak

**karlsruhe research reactor fr-2**

2000-04-12

USE fr-2 reactor

**KARTINI-PPNY REACTOR**

INIS: 1996-11-11; ETDE: 1996-10-25

Yogyakarta, Indonesia.

\*BT1 research reactors

\*BT1 triga type reactors

**KARYOTYPE**

RT acrocentric chromosomes  
 RT chromosomal aberrations  
 RT chromosomes  
 RT genome mutations  
 RT human chromosomes

**kashima-1 reactor**

USE shimane-1 reactor

**kashima-2 reactor**

INIS: 1985-11-16; ETDE: 2001-02-13

USE shimane-2 reactor

**kashiwazaki-1 reactor**

INIS: 2000-04-12; ETDE: 1979-09-26

(Prior to September 1989 this was a valid ETDE descriptor.)

USE kashiwazaki-kariwa-1 reactor

**KASHIWAZAKI-KARIWA-1 REACTOR**

INIS: 1987-01-28; ETDE: 1989-09-18

TEPCO, Kashiwazaki, Niigata, Japan.

(The form KASHIWAZAKI-1 REACTOR was used by INIS prior to January 1987 and by ETDE prior to September 1989.)

UF kashiwazaki-1 reactor

UF tokyo-denrioku k-1 reactor

\*BT1 bwr type reactors

**KASHIWAZAKI-KARIWA-2 REACTOR**

INIS: 1985-04-22; ETDE: 1985-05-07

TEPCO, Kashiwazaki, Niigata, Japan.

UF tokyo-denryoku k-2 reactor

\*BT1 bwr type reactors

**KASHIWAZAKI-KARIWA-3 REACTOR**

INIS: 1991-10-09; ETDE: 1994-08-10

TEPCO, Kashiwazaki, Niigata, Japan.

\*BT1 bwr type reactors

**KASHIWAZAKI-KARIWA-4 REACTOR**

INIS: 1990-12-21; ETDE: 1991-01-15

TEPCO, Kashiwazaki, Niigata, Japan.

\*BT1 bwr type reactors

**KASHIWAZAKI-KARIWA-5 REACTOR**

INIS: 1988-11-16; ETDE: 1988-12-02

TEPCO, Kashiwazaki, Niigata, Japan.

\*BT1 bwr type reactors

**KASHIWAZAKI-KARIWA-6 REACTOR**

INIS: 1989-09-14; ETDE: 1989-10-16

TEPCO, Kashiwazaki, Niigata, Japan.

\*BT1 bwr type reactors

**KASHIWAZAKI-KARIWA-7 REACTOR**

INIS: 1989-09-15; ETDE: 1989-10-16

TEPCO, Kashiwazaki, Niigata, Japan.

\*BT1 bwr type reactors

**kasseri event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**kawasaki-hitachi training reactor**

USE htr reactor

**KAWERAU GEOTHERMAL FIELD**

2000-04-12

BT1 geothermal fields

RT geothermal hot-water systems

RT new zealand

**KAZAKHSTAN**

INIS: 1997-11-07; ETDE: 1997-08-23

(Until January 1993, this was indexed by USSR. Between January 1997 and July 1997 the descriptor was spelled KAZAKSTAN.)

UF kazakstan

SF soviet union

SF union of soviet socialist republics

SF ussr

BT1 asia

BT1 developing countries

RT aral sea

RT caspian sea

RT semipalatinsk test site

RT urals

**KAZAKHSTAN CYCLOTRON**

INIS: 1997-07-30; ETDE: 1997-08-23

(Between January 1997 and July 1997 this descriptor was spelled KAZAKSTAN CYCLOTRON.)

UF kazakstan cyclotron

\*BT1 isochronous cyclotrons

**kazakhstan ewg-1 reactor**

INIS: 2003-11-26; ETDE: 2003-12-03

Kurchatov city, East Kazakhstan.

USE ewg-1 reactor

**kazakhstan igr reactor**

INIS: 2003-11-26; ETDE: 2003-12-03

Kurchatov city, East Kazakhstan.

USE igr reactor

**KAZAKHSTAN ORGANIZATIONS**

INIS: 1999-07-20; ETDE: 1999-08-30

BT1 national organizations

**kazakhstan**

INIS: 1997-07-30; ETDE: 1996-12-24

(From January 1997 until July 1997 this was a valid descriptor.)

USE kazakhstan

**kazakhstan cyclotron**

INIS: 1997-07-30; ETDE: 1996-12-24

(From January 1997 until July 1997 this was a valid descriptor.)

USE kazakhstan cyclotron

**KBR-1 REACTOR**

1995-01-11  
*Soviet annular oscillator fast reactor.*  
 UF cobra reactor  
 \*BT1 fast reactors  
 \*BT1 zero power reactors

**KBW GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1982-12-23  
*Entrained flow coal gasification process under development by Koppers and Babcock and Wilcox.*  
 \*BT1 coal gasification

**kcb reactor**

*Kernenergiecentrale borssele.*  
 USE borssele reactor

**kdf computers**

1996-06-28  
 (Until June 1996 this was a valid descriptor.)  
 USE computers

**KECEROVCE-1 REACTOR**

INIS: 1990-01-29; ETDE: 1990-02-13  
*East Slovakia.*  
 \*BT1 wwer type reactors

**keelson event**

INIS: 2000-04-12; ETDE: 1977-06-21  
 USE anvil project

**kek intersecting storage accelerator**

INIS: 2000-04-12; ETDE: 1981-10-24  
 USE tristan storage rings

**KEK LINAC**

\*BT1 linear accelerators

**KEK PHOTON FACTORY**

INIS: 1984-07-20; ETDE: 1984-08-20  
 \*BT1 synchrotron radiation sources  
 RT linear accelerators

**KEK SYNCHROTRON**

*Japan National Laboratory for High Energy Physics Synchrotron.*  
 UF tsukuba kek synchrotron  
 \*BT1 synchrotrons

**KEL-F**

\*BT1 organic chlorine compounds  
 \*BT1 organic fluorine compounds  
 \*BT1 polyethylenes

**KELLOGG PROCESS**

2000-04-12  
*M. W. Kellogg company process for producing high-btu gas in which synthesis gas, produced by using molten salt (sodium carbonate) to provide heat and possibly catalyze the reaction, is methanated.*  
 UF molten salt process (kellogg)  
 \*BT1 coal gasification  
 BT1 sng processes  
 RT high btu gas

**kellogg rust westinghouse process**

INIS: 2000-04-12; ETDE: 1985-07-19  
 USE krw gasification process

**kelp**

INIS: 1992-01-13; ETDE: 1976-12-15  
 USE seaweeds

**kelvin-helmholtz instability**

USE helmholtz instability

**kema suspension test reactor**

USE kstr reactor

**KENNEBEC RIVER**

INIS: 1992-06-04; ETDE: 1980-10-27  
 \*BT1 rivers  
 RT maine

**KENTUCKY**

1997-06-19  
 \*BT1 usa  
 RT chattanooga formation  
 RT cumberland river  
 RT illinois basin  
 RT mississippi river  
 RT ohio river  
 RT paducah plant  
 RT shawnee steam plant  
 RT tennessee river  
 RT tennessee valley region

**KENYA**

BT1 africa  
 BT1 developing countries

**kepco oshima oi-1 reactor**

USE oi-1 reactor

**kepco oshima oi-2 reactor**

USE oi-2 reactor

**KEPONE**

INIS: 2000-04-12; ETDE: 1978-09-11  
 \*BT1 insecticides  
 RT organic chlorine compounds

**KERATIN**

\*BT1 scleroproteins

**KERMA**

*Total kinetic energy of charged particles produced by ionizing radiation per unit mass of irradiated material in ergs per gram.*  
 RT ionization  
 RT kinetic energy  
 RT radiation doses

**KERNELS**

NT1 point kernels  
 RT integral equations

**kernels (fuel)**

USE fuel particles

**kernels (slowing-down)**

USE slowing-down kernels

**kernenergiecentrale borssele reactor**

INIS: 1984-06-21; ETDE: 2002-03-09  
 USE borssele reactor

**kernforschungsanlage juelich**

1995-04-13  
 (Until March 1995 this was a valid descriptor.)  
 USE forschungszentrum juelich

**kernforschungszentrum karlsruhe**

1995-10-25  
 (Prior to October 1995 this was a valid ETDE descriptor.)  
 USE forschungszentrum karlsruhe

**kernfysisch versneller instituut**

INIS: 1977-09-06; ETDE: 1977-10-19  
 USE kvi

**kernfysisch versneller instituut cyclotron**

INIS: 1993-11-09; ETDE: 2002-02-28  
 USE kvi cyclotron

**kernkraftwerk biblis**

USE biblis-1 reactor

**kernkraftwerk biblis-3**

INIS: 1976-10-07; ETDE: 1976-11-02  
 USE biblis-3 reactor

**kernkraftwerk biblis-4**

INIS: 1976-10-07; ETDE: 1976-11-02  
 USE biblis-4 reactor

**kernkraftwerk biblis-a**

INIS: 1976-10-07; ETDE: 2002-03-01  
 USE biblis-1 reactor

**kernkraftwerk biblis-b**

INIS: 1976-10-07; ETDE: 2002-03-01  
 USE biblis-2 reactor

**kernkraftwerk brokdorf**

INIS: 1976-09-06; ETDE: 1976-11-02  
 USE brokdorf reactor

**kernkraftwerk emsland**

INIS: 1980-02-26; ETDE: 1980-03-29  
 USE emsland reactor

**kernkraftwerk goessen-daeniken**

USE goessen reactor

**kernkraftwerk isar**

USE isar reactor

**kernkraftwerk isar-2**

INIS: 2000-04-12; ETDE: 1982-10-05  
 USE isar-2 reactor

**kernkraftwerk lingen**

USE lingen reactor

**kernkraftwerk niederaichbach**

USE niederaichbach reactor

**kernkraftwerk obrigheim**

USE obrigheim reactor

**kernkraftwerk philippsburg-1**

USE philippsburg-1 reactor

**kernkraftwerk philippsburg-2**

USE philippsburg-2 reactor

**kernkraftwerk rwe-bayernwerk**

USE rwe-bayernwerk reactor

**kernkraftwerk stade**

USE stade reactor

**kernkraftwerk vahnum-1**

INIS: 1977-02-08; ETDE: 2002-02-28  
 USE vahnum-1 reactor

**kernkraftwerk vahnum-2**

INIS: 1977-02-08; ETDE: 2002-02-28  
 USE vahnum-2 reactor

**kernkraftwerk wuergassen**

USE wuergassen reactor

**KEROGEN**

1999-09-01  
*Solid, bituminous mineraloid substance in oil shales that yields oil when shales undergo destructive distillation.*  
 \*BT1 bituminous materials  
 \*BT1 organic matter  
 RT oil shales  
 RT shale oil

**KEROSENE**

\*BT1 gas oils  
 \*BT1 liquid fuels  
 RT automotive fuels

**KERR EFFECT**

\*BT1 dielectric properties



*RT* magneto-optical effects  
*RT* polarization  
*RT* visible radiation

**KERR FIELD**

*BT1* gravitational fields  
*RT* axial symmetry  
*RT* black holes  
*RT* einstein field equations  
*RT* kerr metric

**KERR METRIC**

*BT1* metrics  
*RT* kerr field

**KETENES**

\**BT1* organic oxygen compounds  
*RT* carboxylic acids

**KETO ACIDS**

*For carboxyl acids only.*

*UF* oxocarboxylic acids  
 \**BT1* carboxylic acids  
*NT1* acetoacetic acid  
*NT1* kynurenine  
*NT1* levulinic acid  
*NT1* pyruvic acid

**ketobutyric acid-beta**

*USE* acetoacetic acid

**KETONES**

1996-10-23

(Most of the *UF* terms below have been valid *ETDE* descriptors.)

*UF* acridones  
*UF* aminopropiophenone-para  
*UF* dianabol  
*UF* ndpp  
*UF* ninhydrin  
*UF* papp  
*UF* phloredzin  
*UF* phlorhizin  
*UF* phlorizin  
*UF* triketohydrindane  
*UF* violanthrone  
*BT1* organic compounds  
*NT1* 2-3-pentanedione  
*NT1* acetone  
*NT1* acetophenone  
*NT1* acetylacetone  
*NT1* androstenedione  
*NT1* androsterone  
*NT1* benzophenone  
*NT1* camphor  
*NT1* corticosteroids  
*NT2* glucocorticoids  
*NT3* corticosterone  
*NT3* cortisone  
*NT3* dexamethasone  
*NT3* hydrocortisone  
*NT3* prednisolone  
*NT3* prednisone  
*NT2* mineralocorticoids  
*NT3* aldosterone  
*NT1* curcumin  
*NT1* cyclohexanone  
*NT1* estrone  
*NT1* fructose  
*NT1* hydroxyandrostenedione  
*NT1* hydroxypregnenone  
*NT1* hydroxypropiofenone  
*NT1* methyl isobutyl ketone  
*NT1* progesterone  
*NT1* ribulose  
*NT1* sorbose  
*NT1* testosterone  
*NT1* triacetoneamine-n-oxyl  
*NT1* tropones  
*NT1* tta  
*RT* enols

*RT* hydrazones  
*RT* imines  
*RT* luminol  
*RT* oximes  
*RT* quinones  
*RT* semicarbazones

**ketopropionic acid-alpha**

*USE* pyruvic acid

**ketosteroids (urinary)**

*USE* urinary ketosteroids

**ketovaleric acid-gamma**

*USE* levulinic acid

**KEV RANGE**

*BT1* energy range  
*NT1* kev range 01-10  
*NT1* kev range 10-100  
*NT1* kev range 100-1000

**KEV RANGE 01-10**

\**BT1* kev range

**KEV RANGE 10-100**

\**BT1* kev range

**KEV RANGE 100-1000**

\**BT1* kev range

**kevlar**

*INIS: 2000-04-12; ETDE: 1978-07-06*

*USE* aramids

**KEWAUNEE REACTOR**

*Nuclear Management Corp, Carlton, Wisconsin, USA.*

*UF* carlton power reactor  
*UF* wisconsin public service power reactor  
 \**BT1* pwr type reactors

**KEWB REACTOR**

*US ERDA/Atomics International Div., Rockwell International, Santa Susana, California, USA. Shut down in 1967; dismantled in 1975.*

*UF* kinetic experiment water boiler  
 \**BT1* aqueous homogeneous reactors

**KEY LAKE MINE**

1991-07-02

\**BT1* uranium mines  
*RT* saskatchewan

**kfki reactor**

*INIS: 2000-04-12; ETDE: 1975-07-29*

*USE* wwr-s-budapest reactor

**KGRA**

*INIS: 2000-04-12; ETDE: 1976-05-17*

*UF* known geothermal resource area  
*NT1* klamath falls  
*NT1* roosevelt hot springs  
*NT1* wendell-amedee hot springs  
*RT* geothermal fields

**KHALATNIKOV THEORY**

*RT* superfluidity  
*RT* thermodynamics

**KHARKOV LINAC**

\**BT1* linear accelerators

**KHMELNITSKIJ-1 REACTOR**

*INIS: 1989-09-14; ETDE: 1989-10-16*  
*Ukraine.*

\**BT1* wwer type reactors

**khuri representation**

1996-07-18

(Until July 1996 this was a valid descriptor.)

*SEE* dispersion relations

*SEE* mandelstam representation  
*SEE* scattering

**KHZ RANGE**

*BT1* frequency range  
*NT1* khz range 01-100  
*NT1* khz range 100-1000

**KHZ RANGE 01-100**

\**BT1* khz range

**KHZ RANGE 100-1000**

\**BT1* khz range

**KICKER MAGNETS**

*INIS: 1999-07-02; ETDE: 1979-05-25*  
*Magnets used to deflect charged-particle beam for extraction from an accelerator.*  
 \**BT1* magnets  
*RT* beam extraction  
*RT* beam optics

**kicksorters**

*USE* pulse analyzers

**kidney stones**

*USE* calculi  
*USE* kidneys

**KIDNEYS**

*UF* kidney stones  
*UF* mechanical kidney  
 \**BT1* organs  
*NT1* glomeruli  
*NT1* tubules  
*RT* blood circulation  
*RT* calculi  
*RT* diuretics  
*RT* excretion  
*RT* nephrectomy  
*RT* nephritis  
*RT* nephrosclerosis  
*RT* renal clearance  
*RT* renin  
*RT* renography  
*RT* uremia  
*RT* urinary tract  
*RT* urine  
*RT* urogenital system diseases

**kieselguhr**

1992-11-03

*USE* diatomaceous earth

**KIEV CYCLOTRON**

*INIS: 1981-12-23; ETDE: 1982-02-09*

\**BT1* isochronous cyclotrons

**kiev wwr-m reactor**

*INIS: 1984-06-21; ETDE: 2002-02-28*

*USE* wwr-m-kiev reactor

**kihara core**

*USE* kihara potential

**KIHARA POTENTIAL**

*UF* kihara core  
*UF* kihara theory  
*BT1* potentials  
*RT* atoms  
*RT* molecules

**kihara theory**

*USE* kihara potential

**KIKUCHI LINES**

*RT* crystal structure  
*RT* dislocations  
*RT* electron diffraction

**KILAUEA VOLCANO**

*INIS: 1992-06-04; ETDE: 1977-12-22*

*BT1* volcanoes

RT hawaii

### **kiln incinerators**

1992-03-17  
USE incinerators

### **KILNGAS PROCESS**

INIS: 2000-04-12; ETDE: 1981-09-22  
Low btu gasification process being developed by Allis-Chalmers based on a rotary ported kiln concept.  
\*BT1 coal gasification

### **KILNS**

INIS: 1992-03-17; ETDE: 1977-09-19  
Heated enclosures used for drying, burning, or firing materials.

NT1 solar kilns  
RT furnaces

### **KILO AMP BEAM CURRENTS**

From 1000 to 10 exp 6 amp.  
\*BT1 beam currents

### **KILOWATT POWER RANGE**

INIS: 1988-04-15; ETDE: 1989-08-10  
BT1 power range  
NT1 power range 01-10 kw  
NT1 power range 10-100 kw  
NT1 power range 100-1000 kw

### **KIMBERLITES**

\*BT1 lamprophyres  
\*BT1 peridotites  
RT apatites  
RT mica  
RT olivine  
RT oxide minerals  
RT perovskite  
RT silicate minerals

### **kinases**

INIS: 2000-04-12; ETDE: 1986-04-10  
USE phosphotransferases

### **kinases (phosphotransferases)**

USE phosphotransferases

### **kinematics (particle)**

USE particle kinematics

### **KINETIC ENERGY**

BT1 energy  
NT1 transverse energy  
RT angular momentum  
RT cold fission  
RT kerma  
RT lagrangian function  
RT linear momentum  
RT moment of inertia  
RT motion  
RT particle rapidity  
RT potential energy  
RT velocity  
RT virial theorem

### **KINETIC EQUATIONS**

1996-07-18  
For reactor kinetics see REACTOR KINETICS EQUATIONS.  
BT1 equations  
NT1 boltzmann equation  
RT collisions  
RT gases  
RT plasma  
RT statistical mechanics

### **kinetic experiment water boiler**

1993-11-09  
USE kewb reactor

### **kinetic intense neutron generator**

USE king reactor

### **KINETICS**

NT1 radionuclide kinetics  
NT1 reaction kinetics  
NT2 biochemical reaction kinetics  
NT3 cpb  
NT2 chemical reaction kinetics  
NT3 combustion kinetics  
NT2 nuclear reaction kinetics  
NT1 reactor kinetics  
RT collisions  
RT deck effect  
RT dynamics  
RT gases  
RT mechanics  
RT motion  
RT statistical mechanics  
RT translocation

### **kinetics equations (reactor)**

USE reactor kinetics equations

### **KINETIN**

UF 6-furfurylamino purine  
\*BT1 adenines  
RT furans  
RT plant growth  
RT plant growth regulators

### **KING REACTOR**

LANL, Los Alamos, New Mexico, USA.  
UF kinetic intense neutron generator  
\*BT1 research reactors

### **KINGSTON STEAM PLANT**

INIS: 1992-06-04; ETDE: 1981-11-10  
\*BT1 fossil-fuel power plants  
RT tennessee  
RT tennessee valley authority

### **kininogenin**

INIS: 2000-04-12; ETDE: 1981-01-12  
(Prior to November 1990 this was a valid ETDE descriptor.)  
USE kallikrein

### **KININS**

\*BT1 polypeptides  
NT1 bradykinin

### **KINK INSTABILITY**

\*BT1 plasma macroinstabilities  
RT sawtooth oscillations

### **kinki university utr-10 reactor**

2000-04-12  
USE utr-10-kinki reactor

### **KINSHASA**

2000-04-12  
\*BT1 democratic republic of the congo

### **KIRCHHEIMERITE**

2000-04-12  
\*BT1 oxide minerals  
\*BT1 uranium minerals  
RT arsenic oxides  
RT cobalt oxides  
RT uranium oxides

### **KIRIBATI**

INIS: 1991-03-22; ETDE: 1991-04-09  
\*BT1 micronesia  
RT pacific ocean

### **KIRKENDALL EFFECT**

RT diffusion

### **KISLOGUBSK POWER PLANT**

2000-04-12  
\*BT1 tidal power plants

### **kisslinger model**

INIS: 1976-02-11; ETDE: 2002-02-28  
USE optical models

### **KISSLINGER-SORENSEN THEORY**

RT nuclear models  
RT superconductivity

### **KIVITER PROCESS**

INIS: 2000-04-12; ETDE: 1977-03-08  
Coarsely sized shale is processed in downflow retort, with the raw shale preheating section near the top. Hot recycle gases and gas burner provide heat.  
RT oil shales

### **KIWI REACTORS**

1985-07-18  
(Prior to August 1985 KIWI TYPE REACTORS was used.)  
UF kiwi type reactors  
\*BT1 hydrogen cooled reactors  
\*BT1 space propulsion reactors  
NT1 kiwi-tnt reactor

### **KIWI-TNT REACTOR**

2000-04-12  
LANL, Los Alamos, New Mexico, USA. Shut down in 1965.  
UF kiwi-transient test reactor  
UF tnr-kiwi  
UF transient nuclear test reactor-kiwi  
\*BT1 experimental reactors  
\*BT1 kiwi reactors

### **kiwi-transient test reactor**

2000-04-12  
USE kiwi-tnt reactor

### **kiwi type reactors**

INIS: 1985-07-18; ETDE: 1980-05-23  
(Prior to August 1985 this was a valid descriptor.)  
USE kiwi reactors

### **KIZILDERE GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1976-07-07  
BT1 geothermal fields  
RT turkey

### **KJELDAHL METHOD**

RT nitrogen  
RT quantitative chemical analysis

### **kkb reactor**

1999-04-14  
SEE brunsbuetel reactor

### **kki isar**

USE isar reactor

### **kki isar-2**

INIS: 2000-04-12; ETDE: 1982-10-05  
USE isar-2 reactor

### **kkk reactor**

USE krummel reactor

### **kkn reactor**

USE niederaichbach reactor

### **kkp-1 philippsburg reactor**

USE philippsburg-1 reactor

### **kkp-2 philippsburg reactor**

USE philippsburg-2 reactor

### **kks reactor**

USE stade reactor

### **kku reactor**

USE unterweser reactor

**kkw greifswald-1 reactor**

INIS: 1984-04-04; ETDE: 2002-02-28  
USE greifswald-1 reactor

**kkw greifswald-2 reactor**

INIS: 1984-04-04; ETDE: 2002-02-28  
USE greifswald-2 reactor

**kkw greifswald-3 reactor**

INIS: 1984-04-04; ETDE: 2002-02-28  
USE greifswald-3 reactor

**kkw greifswald-4 reactor**

INIS: 1984-04-04; ETDE: 2002-02-28  
USE greifswald-4 reactor

**kkw greifswald-5 reactor**

2002-03-04  
USE greifswald-5 reactor

**kkw greifswald-6 reactor**

2002-03-04  
USE greifswald-6 reactor

**KLAMATH FALLS**

INIS: 2000-04-12; ETDE: 1982-02-11  
BT1 kgra  
RT geothermal fields  
RT oregon

**KLEBSIELLA**

INIS: 1993-07-15; ETDE: 1979-07-18  
\*BT1 bacteria

**KLEIN-GORDON EQUATION**

\*BT1 field equations  
\*BT1 wave equations  
RT quantum mechanics

**KLEIN-NISHINA FORMULA**

RT compton effect

**KLOCKNER-IRON BATH COAL GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1993-08-10  
*Gasification in a liquid iron bath under pressure containing sulfur fixation agent with coal and oxygen fed from the bottom.*  
\*BT1 coal gasification

**KLYSTRONS**

\*BT1 microwave tubes  
RT gyrocons  
RT magnetrons  
RT power supplies  
RT rf systems

**kmr reactor**

INIS: 1999-01-26; ETDE: 1991-07-30  
(From July 1991 to January 1999 this was a valid descriptor.)  
USE hanaro reactor

**KNIGHT EFFECT**

RT spectral shift

**KNIGHT SHIFT**

RT nuclear magnetic resonance  
RT spectral shift

**knipp-bloch theory**

USE knipp-uhlenbeck theory

**KNIPP-UHLENBECK THEORY**

UF knipp-bloch theory  
RT beta decay

**KNK-2 REACTOR**

*Forschungszentrum Karlsruhe, Baden-Wuerttemberg, Federal Republic of Germany.*  
\*BT1 enriched uranium reactors  
\*BT1 experimental reactors  
\*BT1 fast reactors

\*BT1 power reactors  
\*BT1 sodium cooled reactors  
\*BT1 szr type reactors

**KNK REACTOR**

*Forschungszentrum Karlsruhe, Baden-Wuerttemberg, Federal Republic of Germany.*  
UF kompakte natriumgekuehlte reaktor

\*BT1 enriched uranium reactors  
\*BT1 experimental reactors  
\*BT1 power reactors  
\*BT1 sodium cooled reactors  
\*BT1 szr type reactors  
\*BT1 thermal reactors

**KNOCK CONTROL**

INIS: 1999-05-12; ETDE: 1981-03-16  
BT1 control  
RT antiknock ratings  
RT automotive fuels  
RT combustion  
RT control equipment  
RT internal combustion engines

**KNOCK-ON**

RT recoils

**knock-on electrons**

USE electrons

**KNOCK-ON REACTIONS**

\*BT1 direct reactions  
RT knock-out reactions

**KNOCK-OUT REACTIONS**

\*BT1 direct reactions  
RT knock-on reactions  
RT recoils

**knolls atomic power laboratory**

USE kapl

**KNOOP HARDNESS**

RT hardness

**KNOWLEDGE BASE**

INIS: 1991-12-11; ETDE: 1985-09-24  
*Facts, assumptions, beliefs, and heuristics; used in dealing with a data base to achieve desired results such as a diagnosis, an interpretation or a solution to a problem.*  
RT artificial intelligence  
RT expert systems  
RT knowledge management  
RT programming

**KNOWLEDGE MANAGEMENT**

2005-10-27  
*Integrated and systematic approach to identifying, collecting, maintaining and sharing knowledge, and enabling the creation of new knowledge.*  
BT1 management  
NT1 knowledge preservation  
RT information dissemination  
RT information retrieval  
RT information systems  
RT knowledge base

**KNOWLEDGE PRESERVATION**

2005-10-27  
\*BT1 knowledge management  
RT documentation

**known geothermal resource area**

INIS: 2000-04-12; ETDE: 1976-05-27  
USE kgra

**knu-10 reactor**

1991-07-02  
USE ulchin-2 reactor

**knu-9 reactor**

1991-07-02  
USE ulchin-1 reactor

**knudsen effusion**

USE knudsen flow

**KNUDSEN FLOW**

UF knudsen effusion  
UF knudsen number  
\*BT1 gas flow  
RT vapor pressure

**KNUDSEN GAGES**

\*BT1 vacuum gages

**knudsen number**

USE knudsen flow

**KOBAYASHI-MASKAWA MATRIX**

INIS: 1984-01-18; ETDE: 1984-02-10  
*Matrix describing the mixing between the three quark-lepton generations (u, d, e), (c, s, mu) and (t, b, tau) as a generalization of Cabibbo mixing with allowance of CP violation in the charged-current transition amplitude.*

UF mixing matrix (kobayashi-maskawa)  
BT1 matrices  
RT cabibbo angle  
RT configuration mixing  
RT cp invariance  
RT flavor model  
RT standard model

**KOEBERG-1 REACTOR**

INIS: 1975-11-07; ETDE: 1975-12-16  
*Duynefontein, Cape, South Africa.*  
UF escom-1 reactor  
\*BT1 pwr type reactors

**KOEBERG-2 REACTOR**

INIS: 1982-01-14; ETDE: 1978-02-14  
\*BT1 pwr type reactors

**KOLA-1 REACTOR**

INIS: 1981-10-15; ETDE: 1978-06-14  
\*BT1 wwer type reactors

**KOLA-2 REACTOR**

INIS: 1981-10-15; ETDE: 1978-06-14  
\*BT1 wwer type reactors

**KOLA-3 REACTOR**

INIS: 1981-10-15; ETDE: 1981-11-10  
\*BT1 wwer type reactors

**KOLA-4 REACTOR**

INIS: 1981-10-15; ETDE: 1981-11-10  
\*BT1 wwer type reactors

**kolmogorov equation**

2000-03-28  
(Prior to March 1996 this was a valid ETDE descriptor.)  
SEE chapman-kolmogorov equation  
SEE fokker-planck equation

**kompakte natriumgekuehlte reaktor**

USE knk reactor

**KONDO EFFECT**

RT antiferromagnetic materials

**KONEL**

2000-04-12  
\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 iron alloys  
\*BT1 nickel base alloys  
\*BT1 titanium alloys

**KONRAD ORE MINE**

INIS: 1989-11-24; ETDE: 1989-12-08

- \*BT1 mines
- \*BT1 radioactive waste facilities
- RT intermediate-level radioactive wastes
- RT low-level radioactive wastes
- RT shaft excavations
- RT underground disposal

**KOONGARRA DEPOSIT**

INIS: 1978-07-03; ETDE: 1978-08-07

- \*BT1 uranium deposits
- RT northern territory
- RT uranium ores

**KOPPERS PROCESS**

2000-04-12

A process for production of water gas or synthesis gas from coal dust.

- \*BT1 coal gasification

**KOPPERS-TOTZEK PROCESS**

2000-04-12

A process in which all types of coal can be reacted at atmospheric pressure and 3300 degrees F with steam and oxygen in a gasifier (a refractory-lined, horizontal, cylindrical vessel with conical ends) to produce intermediate- or high-btu gas.

- \*BT1 coal gasification
- RT sng processes

**koppers vacuum carbonate process**

INIS: 2000-04-12; ETDE: 1977-08-09

(Prior to March 1994, this was a valid ETDE descriptor.)

- USE desulfurization

**korea (north)**

- USE north korea

**korea (south)**

- USE republic of korea

**korea advanced energy research institute**

INIS: 1993-11-09; ETDE: 1982-02-09

- USE kaeri

**korea atomic energy research institute**

INIS: 1993-11-09; ETDE: 2000-10-13

- USE kaeri

**KOREAN ORGANIZATIONS**

INIS: 1981-12-23; ETDE: 1982-02-09

- BT1 national organizations
- NT1 kaeri

**korean triga-mk-2 reactor**

2000-04-12

- USE triga-2-seoul reactor

**korean triga-mk-3 reactor**

2000-04-12

- USE triga-3-seoul reactor

**KORI-1 REACTOR**

- UF pusan kori-1 reactor
- \*BT1 pwr type reactors

**KORI-2 REACTOR**

INIS: 1986-09-26; ETDE: 1977-04-12

- UF pusan kori-2 reactor
- \*BT1 pwr type reactors

**KORI-3 REACTOR**

1995-01-04

- UF pusan kori-3 reactor
- \*BT1 pwr type reactors

**KORI-4 REACTOR**

1995-01-04

- UF pusan kori-4 reactor
- \*BT1 pwr type reactors

**KORTEWEG-DE VRIES EQUATION**

- \*BT1 partial differential equations

**KOSHKONONG-1 REACTOR**

Wisconsin Electric Power Co., Haven, Wisconsin, USA. As of July 1978 known as HAVEN-1 REACTOR, and from that date material is so indexed. Canceled in 1980.

- \*BT1 haven-1 reactor

**KOSHKONONG-2 REACTOR**

Wisconsin Electric Power Co., Haven, Wisconsin, USA. As of July 1978 known as HAVEN-1 REACTOR, and from that date material is so indexed. Canceled in 1978.

- \*BT1 haven-2 reactor

**KOSMOS SATELLITES**

- BT1 satellites
- RT interkosmos satellites
- RT proton satellites

**KOSSEL METHOD**

- RT laue method

**KOSTERLITZ-THOULESS THEORY**

INIS: 1992-01-08; ETDE: 1991-03-04

- RT high-*tc* superconductors
- RT phase transformations
- RT superconductivity
- RT superfluidity

**KOVAR**

1993-10-03

- \*BT1 alloy-fe53ni29co18

**KOZLODUY-1 REACTOR**

1990-12-06

Ministry of Energy, Kozloduy, Bulgaria.

(Prior to December 1990, this descriptor was spelled KOZLODUJ-1 REACTOR by INIS.)

- \*BT1 wwer type reactors

**KOZLODUY-2 REACTOR**

1990-12-06

Ministry of Energy, Kozloduy, Bulgaria.

(Prior to December 1990, this descriptor was spelled KOZLODUJ-2 REACTOR by INIS.)

- \*BT1 wwer type reactors

**KOZLODUY-3 REACTOR**

INIS: 1990-12-06; ETDE: 1991-01-15

Ministry of Energy, Kozloduy, Bulgaria.

(Prior to December 1990, this descriptor was spelled KOZLODUJ-3 REACTOR by INIS.)

- \*BT1 wwer type reactors

**KOZLODUY-4 REACTOR**

INIS: 1993-05-04; ETDE: 1994-08-10

Ministry of Energy, Kozloduy, Bulgaria.

- \*BT1 wwer type reactors

**KOZLODUY-5 REACTOR**

INIS: 1993-02-09; ETDE: 1993-03-04

Ministry of Energy, Kozloduy, Bulgaria.

- \*BT1 wwer type reactors

**KOZLODUY-6 REACTOR**

INIS: 1993-05-04; ETDE: 1994-08-10

Ministry of Energy, Kozloduy, Bulgaria.

- \*BT1 wwer type reactors

**KRAFLA GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1978-04-05

- BT1 geothermal fields
- RT iceland

**KRAMERS-KRONIG CORRELATION**

- BT1 correlations

**KRAMERS THEOREM**

- RT quantum mechanics

**krb ii-b reactor**

INIS: 1975-08-20; ETDE: 1976-05-19

- USE gundremmingen-2 reactor

**krb ii-c reactor**

INIS: 1975-08-20; ETDE: 1976-05-19

- USE gundremmingen-3 reactor

**krb reactor**

- USE rwe-bayernwerk reactor

**KREBS CYCLE**

- BT1 biological pathways
- RT metabolism
- RT metabolites
- RT mitochondria
- RT respiration

**KRIGING**

INIS: 1993-04-21; ETDE: 1983-10-11

A statistical method for estimating spatial and/or temporal distribution of a material based on the theory of regionalized variables.

- SF geostatistics
- \*BT1 statistics
- RT geologic surveys
- RT statistical models
- RT weighting functions

**kritische anlage zum htr**

INIS: 2000-04-12; ETDE: 1975-11-26

- USE kahter reactor

**krito critical assembly**

- USE stek reactor

**KRITZ REACTOR**

1993-02-10

Studsvik High Temperature Critical Facility.

- \*BT1 zero power reactors

**KROLL PROCESS**

- RT reduction
- RT titanium

**KROLL-RUDERMAN THEOREM**

1989-02-24

(Prior to March, 1989, this descriptor was spelled KROLL-RUDERMANN THEOREM.)

- RT photoproduction

**krov machine**

2000-04-12

Keller roto-oscillating vane rotary vane and piston machine.

(Prior to April 1994, this was a valid ETDE descriptor.)

- SEE rotary engines
- SEE rotors
- SEE turbines

**KRSKO REACTOR**

1997-11-03

Krsko, Slovenia.

- \*BT1 pwr type reactors

**KRUEMMEL REACTOR**

UF kkk reactor

- \*BT1 bwr type reactors

**KRUSKAL LIMIT**

- RT electric currents
- RT stellarators

**KRW GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1985-07-19

Formerly WESTINGHOUSE GASIFICATION process; Kellogg Rust is majority owner.

- UF kellogg rust westinghouse process

- \*BT1 coal gasification
- RT* westinghouse gasification process

**KRYPTON**

- \*BT1 rare gases

**KRYPTON 69**

*INIS: 1998-09-23; ETDE: 1997-06-28*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes

**KRYPTON 70**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes

**KRYPTON 71**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 milliseconds living radioisotopes

**KRYPTON 72**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes

**KRYPTON 73**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes

**KRYPTON 74**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 minutes living radioisotopes

**KRYPTON 75**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 minutes living radioisotopes

**KRYPTON 76**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes

**KRYPTON 76 TARGET**

*INIS: 1992-09-22; ETDE: 1985-05-31*

- BT1 targets

**KRYPTON 77**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes

**KRYPTON 77 TARGET**

*INIS: 1992-09-22; ETDE: 1985-05-31*

- BT1 targets

**KRYPTON 78**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 stable isotopes

**KRYPTON 78 TARGET**

*INIS: 1977-01-25; ETDE: 1976-09-28*

- BT1 targets

**KRYPTON 79**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes

**KRYPTON 80**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 stable isotopes

**KRYPTON 80 REACTIONS**

*INIS: 1986-10-29; ETDE: 1986-11-20*

- \*BT1 heavy ion reactions

**KRYPTON 80 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*

- BT1 targets

**KRYPTON 81**

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 years living radioisotopes

**KRYPTON 82**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 stable isotopes

**KRYPTON 82 REACTIONS**

*INIS: 1987-05-26; ETDE: 1987-06-09*

- \*BT1 heavy ion reactions

**KRYPTON 82 TARGET**

*INIS: 1977-01-25; ETDE: 1976-09-28*

- BT1 targets

**KRYPTON 83**

- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 krypton isotopes
- \*BT1 stable isotopes
- RT* krypton 83 reactions

**KRYPTON 83 REACTIONS**

- \*BT1 heavy ion reactions
- RT* krypton 83

**KRYPTON 83 TARGET**

*INIS: 1977-01-25; ETDE: 1976-09-28*

- BT1 targets

**KRYPTON 84**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 krypton isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 stable isotopes

- RT* krypton 84 reactions

**KRYPTON 84 BEAMS**

- \*BT1 ion beams

**KRYPTON 84 REACTIONS**

- \*BT1 heavy ion reactions
- RT* krypton 84

**KRYPTON 84 TARGET**

*ETDE: 1976-07-12*

- BT1 targets

**KRYPTON 85**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 krypton isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 years living radioisotopes

**KRYPTON 85 TARGET**

*INIS: 1985-11-18; ETDE: 1977-03-04*

- BT1 targets

**KRYPTON 86**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 krypton isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 stable isotopes

**KRYPTON 86 BEAMS**

*INIS: 1979-09-18; ETDE: 1979-10-23*

- \*BT1 ion beams

**KRYPTON 86 REACTIONS**

*INIS: 1976-10-29; ETDE: 1976-12-16*

- \*BT1 heavy ion reactions

**KRYPTON 86 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**KRYPTON 87**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes

**KRYPTON 88**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes

**KRYPTON 89**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 minutes living radioisotopes

**KRYPTON 90**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes

**KRYPTON 91**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes

**KRYPTON 92**

- \*BT1 beta-minus decay radioisotopes

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes

**KRYPTON 93**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 seconds living radioisotopes

**KRYPTON 94**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 milliseconds living radioisotopes

**KRYPTON 95**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 milliseconds living radioisotopes

**KRYPTON 96**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes

**KRYPTON 97**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes
- \*BT1 nanoseconds living radioisotopes

**KRYPTON 98**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 krypton isotopes

**KRYPTON BROMIDES**

- INIS: 2000-04-12; ETDE: 1980-11-08*
- \*BT1 bromides
  - \*BT1 krypton compounds

**KRYPTON CHLORIDE LASERS**

- INIS: 2000-04-12; ETDE: 1984-08-20*
- \*BT1 excimer lasers

**KRYPTON CHLORIDES**

- \*BT1 chlorides
- \*BT1 krypton compounds

**KRYPTON COMPLEXES**

- BT1 complexes

**KRYPTON COMPOUNDS**

- 1997-06-17*
- UF* kryptonates
  - BT1 rare gas compounds
  - NT1 krypton bromides
  - NT1 krypton chlorides
  - NT1 krypton fluorides
  - NT1 krypton hydrides
  - NT1 krypton oxides

**KRYPTON FLUORIDE LASERS**

- INIS: 1986-01-21; ETDE: 1984-08-06*
- \*BT1 excimer lasers
  - RT* aurora facility

**KRYPTON FLUORIDES**

- \*BT1 fluorides
- \*BT1 krypton compounds

**KRYPTON HYDRIDES**

- \*BT1 hydrides
- \*BT1 krypton compounds

**KRYPTON IONS**

- \*BT1 ions

**KRYPTON ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 krypton 69
- NT1 krypton 70
- NT1 krypton 71
- NT1 krypton 72
- NT1 krypton 73
- NT1 krypton 74
- NT1 krypton 75
- NT1 krypton 76
- NT1 krypton 77
- NT1 krypton 78
- NT1 krypton 79
- NT1 krypton 80
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- NT1 krypton 86
- NT1 krypton 87
- NT1 krypton 88
- NT1 krypton 89
- NT1 krypton 90
- NT1 krypton 91
- NT1 krypton 92
- NT1 krypton 93
- NT1 krypton 94
- NT1 krypton 95
- NT1 krypton 96
- NT1 krypton 97
- NT1 krypton 98

**KRYPTON OXIDES**

- \*BT1 krypton compounds
- \*BT1 oxides

**kryptonates**

- USE krypton compounds

**ks-150 reactor**

- USE bohunice a-1 reactor

**KSTR REACTOR**

- Keuring van Electrotechnische Materialen N.V., Arnhem, Netherlands.*
- UF* kema suspension test reactor
  - \*BT1 aqueous homogeneous reactors
  - \*BT1 materials testing reactors
  - \*BT1 research reactors

**KT-2 TOKAMAK**

- INIS: 1997-10-13; ETDE: 2001-06-11*  
*KAERI, Daejeon, Republic of Korea.*
- \*BT1 tokamak devices

**KUBO FORMULA**

- UF* kubo method
- UF* kubo theory
- RT* statistical mechanics

**kubo method**

- USE kubo formula

**kubo theory**

- USE kubo formula

**KUCA REACTOR**

- INIS: 1983-10-14; ETDE: 1976-06-07*  
*Kyoto Univ., Kumatori, Osaka, Japan.*
- UF* kyoto university critical assembly reactor
  - \*BT1 enriched uranium reactors
  - \*BT1 graphite moderated reactors
  - \*BT1 water moderated reactors
  - \*BT1 zero power reactors

**KUDANKULAM-1 REACTOR**

- 2005-07-22*  
*Nuclear Power Corporation of India Ltd., Kudankulam, Tamil Nadu, India.*
- \*BT1 wwer type reactors

**KUDANKULAM-2 REACTOR**

- 2005-07-22*  
*Nuclear Power Corporation of India Ltd., Kudankulam, Tamil Nadu, India.*
- \*BT1 wwer type reactors

**KUHFR REACTOR**

- 1979-11-02*  
*Kyoto Univ., Kumatori, Osaka, Japan.*
- UF* kyoto university high flux reactor
  - \*BT1 enriched uranium reactors
  - \*BT1 isotope production reactors
  - \*BT1 research reactors
  - \*BT1 thermal reactors
  - \*BT1 water cooled reactors
  - \*BT1 water moderated reactors

**KUOSHENG-1 REACTOR**

- INIS: 1978-02-23; ETDE: 1976-03-25*
- \*BT1 bwr type reactors

**KUOSHENG-2 REACTOR**

- INIS: 1978-02-23; ETDE: 1976-03-25*
- \*BT1 bwr type reactors

**kupffer cells**

- USE reticuloendothelial system

**KUR REACTOR**

- Kyoto Univ., Kumatori, Osaka, Japan.*
- UF* kyoto university reactor
  - UF* training-research reactor kyoto
  - \*BT1 enriched uranium reactors
  - \*BT1 pool type reactors
  - \*BT1 research reactors
  - \*BT1 training reactors

**kurchatov institute romashka reactor**

- USE romashka reactor

**kurchatovium**

- USE rutherfordium

**kureha acetate process**

- INIS: 2000-04-12; ETDE: 1983-08-25*  
*Sodium acetate-gypsum process for removal of sulfur dioxide from utility flue gas.*  
(Prior to March 1994, this was a valid ETDE descriptor.)
- USE desulfurization

**kurie plot**

- USE fermi plot

**KURILE ISLANDS**

- INIS: 2000-04-12; ETDE: 1978-06-14*
- BT1 islands
  - \*BT1 russian federation
  - RT* pacific ocean

**KURSK-1 REACTOR**

- 1983-06-30*
- \*BT1 enriched uranium reactors
  - \*BT1 lwgr type reactors
  - \*BT1 power reactors
  - \*BT1 thermal reactors

**KURSK-2 REACTOR**

- 1984-08-23*
- \*BT1 enriched uranium reactors
  - \*BT1 lwgr type reactors
  - \*BT1 power reactors
  - \*BT1 thermal reactors

**KURSK-3 REACTOR**

- INIS: 1984-08-23; ETDE: 1984-09-20*
- \*BT1 enriched uranium reactors

- \*BT1 lwgr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**KURSK-4 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

- \*BT1 enriched uranium reactors
- \*BT1 lwgr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**kurtosis**

INIS: 1996-03-04; ETDE: 1996-02-26

- USE distribution
- USE statistics

**KUWAIT**

1976-11-08

- BT1 arab countries
- BT1 asia
- BT1 developing countries
- BT1 middle east
- RT oapec
- RT opec

**kvb process**

INIS: 2000-04-12; ETDE: 1978-04-27

*Dry oxidation of the sulfurous component of dry pulverized coal with gaseous nitrogen oxygen is followed by caustic washing to solubilize and remove sulfur compounds generated. The active oxidant, nitrogen dioxide, can be generated at operating temperature and pressure in the reaction chamber by oxidation of no feed gas. (Prior to March 1994, this was a valid ETDE descriptor.)*

- USE desulfurization

**KVI**

INIS: 1977-09-06; ETDE: 1977-10-19

- UF groningen versneller instituut
- UF kernfysisch versneller instituut
- \*BT1 netherlands organizations

**KVI CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-03-24

*Kernfysisch Versneller Instituut, Groningen.*

- UF groningen (kvi) cyclotron
- UF kernfysisch versneller instituut cyclotron
- \*BT1 heavy ion accelerators
- \*BT1 isochronous cyclotrons

**kwl reactor**

- USE lingen reactor

**kwo reactor**

- USE obrigheim reactor

**kws-1 wyhl reactor**

INIS: 1975-10-31; ETDE: 1975-12-16

- USE wyhl-1 reactor

**kws-2 wyhl reactor**

INIS: 1975-10-31; ETDE: 1975-12-16

- USE wyhl-2 reactor

**kynurenic acid**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE heterocyclic acids
- USE hydroxy compounds
- USE quinolines

**KYNURENINE**

1996-07-18

- \*BT1 amino acids
- \*BT1 keto acids

**KYOTO PROTOCOL**

2000-09-26

*Kyoto Protocol to the UN Framework Convention on Global Climate Change.*

- \*BT1 multilateral agreements
- RT climatic change
- RT emissions tax
- RT emissions trading
- RT environmental impacts
- RT environmental policy
- RT environmental protection
- RT greenhouse effect
- RT greenhouse gases
- RT pollution laws

**kyoto university critical assembly reactor**

INIS: 1993-11-09; ETDE: 1976-06-07

- USE kuca reactor

**kyoto university high flux reactor**

1979-11-02

- USE kuhfr reactor

**kyoto university reactor**

- USE kur reactor

**KYRGYZSTAN**

INIS: 1997-08-20; ETDE: 1993-04-08

(Until January 1993, this was indexed by USSR.)

- SF soviet union
- SF union of soviet socialist republics
- SF ussr
- BT1 asia

**KYSHTYM PLANT**

INIS: 1996-06-26; ETDE: 1994-01-06

- BT1 nuclear facilities
- RT russian federation

**kyushu-1 reactor**

- USE genkai-1 reactor

**kyushu-2 reactor**

INIS: 1979-09-18; ETDE: 1979-10-23

- USE genkai-2 reactor

**kyushu-3 reactor**

INIS: 2000-04-12; ETDE: 1979-10-23

- USE sendai-1 reactor

**kyushu-4 reactor**

INIS: 2000-04-12; ETDE: 1985-07-18

- USE genkai-4 reactor

**l-1 stellarator**

2000-04-12

(Prior to June 1991 this was a valid ETDE descriptor.)

- SEE l-2 stellarator

**l-1770 resonances**

2000-04-12

(Prior to August 1988, this was a valid ETDE descriptor.)

- USE strange mesons

**L-2 STELLARATOR**

1977-11-02

- SF l-1 stellarator
- \*BT1 stellarators

**l-54 reactor**

- USE cesnef reactor

**l-77 atomics international reactor**

1993-11-09

- USE ai-l-77 reactor

**l-77 nevada university reactor**

2000-04-12

- USE nevada university reactor

**l-77 puerto rico reactor**

- USE prnc-l-77 reactor

**l-alanine**

- USE alanine-l

**l-alanine-alpha**

- USE alanine-l

**L CAPTURE**

- \*BT1 electron capture decay

**L CELLS**

- RT clone cells
- RT fibroblasts
- RT in vitro

**L CODES**

- BT1 computer codes

**L CONVERSION**

- UF l-conversion coefficient
- \*BT1 internal conversion

**l-conversion coefficient**

- USE l conversion

**L-MODE PLASMA CONFINEMENT**

INIS: 1999-07-26; ETDE: 1999-09-03

*An operational regime in neutral-beam-injection-heated divertor tokamaks.*

- \*BT1 magnetic confinement
- RT h-mode plasma confinement

**L REACTOR**

INIS: 1983-03-16; ETDE: 1982-05-12

*Savannah River Plant, Aiken, South Carolina, USA. Reactor in surveillance and maintenance mode.*

- UF savannah river plant l reactor
- \*BT1 heavy water moderated reactors
- \*BT1 special production reactors

**l resonances**

2000-04-12

- SEE k2-1770 mesons

**L-S COUPLING**

- UF russell-saunders coupling
- UF spin-orbit interaction
- \*BT1 intermediate coupling
- RT orbital angular momentum

**L SHELL**

INIS: 1976-07-06; ETDE: 1976-08-24

*Atomic electron shells.*

- UF atomic shells (l)
- BT1 electronic structure

**l waves**

INIS: 2000-04-12; ETDE: 1978-07-05

- USE seismic surface waves

**la crosse boiling water reactor**

- USE lacbwr reactor

**la jolla triga-mk-3 reactor**

INIS: 1984-06-21; ETDE: 2002-03-09

- USE triga-3-la jolla reactor

**la reina reactor**

INIS: 2000-04-12; ETDE: 1985-05-31

- USE research reactors

**LA REINA RECH-1 REACTOR**

INIS: 1989-02-24; ETDE: 1989-03-20

*La Reina, Santiago, Chile.*

- \*BT1 pool type reactors
- \*BT1 research reactors

**LA SALLE COUNTY-1 REACTOR**

*Exelon Generation Co., LLC, Seneca, Illinois, USA.*

\*BT1 bwr type reactors

**LA SALLE COUNTY-2 REACTOR**

*Exelon Generation Co., LLC, Seneca, Illinois, USA.*

\*BT1 bwr type reactors

**LABELLED COMPOUNDS**

*Compounds labelled with either stable or radioactive isotopes.*

**NT1** carbon 14 compounds  
**NT1** radiopharmaceuticals  
*RT* autoradiography  
*RT* autoradiolysis  
*RT* carrier-free isotopes  
*RT* diagnosis  
*RT* double labelling  
*RT* electron microscopy  
*RT* labelling  
*RT* nuclear medicine  
*RT* radioenzymatic assay  
*RT* radioimmunoassay  
*RT* radioimmunodetection  
*RT* scintiscanning  
*RT* tracer techniques  
*RT* tritium compounds  
*RT* wilzbach method

**LABELLED POOL TECHNIQUES**

*INIS: 1985-07-18; ETDE: 1975-10-28*

(Prior to August 1985 LABELLED POOL TECHNIQUE was a valid INIS descriptor.)

\*BT1 tracer techniques  
*RT* labelling  
*RT* metabolism

**LABELLING**

*For labelling of packages use PACKAGING RULES.*

**NT1** double labelling  
**NT1** wilzbach method  
*RT* carbon 14 compounds  
*RT* carrier-free isotopes  
*RT* isotope applications  
*RT* isotopic exchange  
*RT* labelled compounds  
*RT* labelled pool techniques  
*RT* radioactivation

**labelling (packages)**

*INIS: 1987-11-02; ETDE: 2002-03-09*

USE packaging rules

**labor**

*INIS: 2000-03-28; ETDE: 1977-08-09*

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE employment  
SEE manpower  
SEE personnel  
SEE work

**LABOR RELATIONS**

*INIS: 1991-10-24; ETDE: 1978-02-14*

*UF* industrial relations  
*RT* industry  
*RT* management  
*RT* personnel  
*RT* working conditions

**LABORATORIES**

*INIS: 1986-03-04; ETDE: 1980-01-15*

**NT1** hot labs  
*RT* buildings  
*RT* laboratory animals  
*RT* laboratory buildings  
*RT* laboratory equipment  
*RT* nuclear facilities

*RT* research programs

**LABORATORY ANIMALS**

**BT1** animals  
*RT* laboratories

**LABORATORY BUILDINGS**

*INIS: 1999-12-07; ETDE: 1980-04-14*

**BT1** buildings  
*RT* laboratories  
*RT* laboratory equipment  
*RT* school buildings

**LABORATORY EQUIPMENT**

**BT1** equipment  
**NT1** dna sequencers  
**NT1** fume hoods  
**NT1** gloveboxes  
**NT1** hot cells  
**NT1** manipulators  
**NT1** vacuum pumps  
**NT2** cryopumps  
**NT2** sputter-ion pumps  
**NT2** turbomolecular pumps  
*RT* accelerator facilities  
*RT* autoclaves  
*RT* bench-scale experiments  
*RT* extraction apparatuses  
*RT* hot labs  
*RT* laboratories  
*RT* laboratory buildings  
*RT* mixer-settlers  
*RT* portable equipment  
*RT* remote handling equipment  
*RT* remote viewing equipment  
*RT* sample changers  
*RT* test facilities

**laboratory scale experiments**

*1981-05-11*

USE bench-scale experiments

**LABORATORY SYSTEM**

*RT* center-of-mass system  
*RT* coordinates  
*RT* limiting fragmentation  
*RT* lorentz transformations  
*RT* mechanics  
*RT* scattering

**labyrinth**

USE auditory organs  
USE vestibular apparatus

**LACBWR REACTOR**

*Dairyland Power Cooperative, Genoa, Wisconsin, USA. Shut down in 1987.*

*UF* la crosse boiling water reactor

\*BT1 bwr type reactors

**LACQUERS**

**BT1** coatings

**LACRIMAL DUCTS**

*INIS: 1977-07-05; ETDE: 1977-10-19*

*UF* ducts (tear)

*UF* tear canals

\*BT1 eyes

**LACTAMS**

*UF* cyclic amides  
\*BT1 amides  
**NT1** pyrrolidones  
**NT2** pvp  
*RT* amino acids  
*RT* heterocyclic compounds

**LACTATE DEHYDROGENASE**

\*BT1 hemiacetal dehydrogenases

**LACTATES**

*INIS: 1981-09-17; ETDE: 1981-10-24*

**BT1** carboxylic acid salts

*RT* lactic acid

**LACTATION**

*RT* mammary glands  
*RT* milk

**LACTIC ACID**

*UF* hydroxypropionic acid-alpha

\*BT1 hydroxy acids

*RT* lactates

**LACTOBACILLUS**

\*BT1 bacteria

**LACTOFERRIN**

*INIS: 1981-08-06; ETDE: 1981-04-17*

\*BT1 globulins

\*BT1 glucoproteins

\*BT1 metalloproteins

\*BT1 organometallic compounds

*RT* iron complexes

**LACTOGENS**

*INIS: 1982-12-07; ETDE: 1979-02-27*

**NT1** hpl

*RT* peptide hormones

*RT* pituitary gland

*RT* placenta

**LACTONES**

*UF* cyclic esters

\*BT1 esters

\*BT1 heterocyclic compounds

**NT1** coumarin

**NT1** gibberellic acid

*RT* hydroxy acids

**LACTOSE**

*UF* milk sugar

\*BT1 disaccharides

**LADDER APPROXIMATION**

\*BT1 approximations

*RT* quantum field theory

**lage flux reaktor petten**

USE lfr reactor

**lago maggiore**

*1996-07-18*

(Until July 1996 this was a valid descriptor.)

USE lakes

**LAGRANGE EQUATIONS**

\*BT1 partial differential equations

*RT* lagrangian function

*RT* mechanics

**lagrange field equations**

USE lagrangian field theory

**lagrangian**

USE lagrangian function

**LAGRANGIAN FIELD THEORY**

*UF* canonical quantum field theory

*UF* gross-neveu model

*UF* lagrange field equations

\*BT1 quantum field theory

**LAGRANGIAN FUNCTION**

*UF* lagrangian

**BT1** functions

*RT* equations of motion

*RT* kinetic energy

*RT* lagrange equations

*RT* mechanics

*RT* potential energy

**LAGUERRE POLYNOMIALS**

\*BT1 polynomials



**LAGUNA VERDE-1 REACTOR**

1978-02-23

*Alto Lucero, Veracruz, Mexico.*

\*BT1 bwr type reactors

**LAGUNA VERDE-2 REACTOR***INIS: 1987-02-25; ETDE: 1982-02-08**Alto Lucero, Veracruz, Mexico.*

\*BT1 bwr type reactors

**LAKE BAIKAL***INIS: 1984-10-19; ETDE: 1984-11-06*

\*BT1 lakes

**LAKE BALATON**

1983-09-06

\*BT1 lakes

**LAKE DRUKSHIAI***INIS: 1997-09-16; ETDE: 1997-08-23**Cooling pond of Ignalina Nuclear Power Plant.**UF lake drysviaty*

\*BT1 lakes

**lake drysviaty**

1997-08-20

USE lake drukshiai

**LAKE ERIE**

\*BT1 great lakes

**LAKE HURON**

\*BT1 great lakes

**LAKE MICHIGAN**

\*BT1 great lakes

**LAKE ONTARIO**

\*BT1 great lakes

**LAKE SUPERIOR**

1980-07-24

\*BT1 great lakes

**LAKE WABAMUN***INIS: 2000-04-12; ETDE: 1975-11-28*

\*BT1 lakes

*RT canada***LAKES**

1997-08-20

(Prior to March 1997 LAGO MAGGIORE was a valid ETDE descriptor.)

*UF lago maggiore*

BT1 surface waters

NT1 ambrosia lake

NT1 aral sea

NT1 athabasca lake

NT1 caspian sea

NT1 dead sea

NT1 great lakes

NT2 lake erie

NT2 lake huron

NT2 lake michigan

NT2 lake ontario

NT2 lake superior

NT1 great salt lake

NT1 lake baikal

NT1 lake balaton

NT1 lake drukshiai

NT1 lake wabamun

NT1 salton sea

*RT cooling ponds**RT eutrophication**RT fresh water**RT hydrology**RT inland waterways**RT ponds**RT shores**RT water currents**RT water reservoirs***lamb-rutherford shift**

2000-04-12

USE lamb shift

**LAMB SHIFT***UF lamb-rutherford shift*

BT1 spectral shift

*RT energy levels***lambda-1115 resonances***INIS: 1987-12-21; ETDE: 2002-03-09*

(Prior to December 1987 this was a valid descriptor.)

USE lambda particles

**LAMBDA-1405 BARYONS***INIS: 1987-12-21; ETDE: 1988-02-19*

(Prior to December 1987 this concept was indexed by LAMBDA-1405 RESONANCES.)

*UF lambda-1405 resonances*

\*BT1 lambda baryons

**lambda-1405 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE lambda-1405 baryons

**LAMBDA-1520 BARYONS***INIS: 1987-12-21; ETDE: 1988-02-19*

(Prior to December 1987 this concept was indexed by LAMBDA-1520 RESONANCES.)

*UF lambda-1520 resonances*

\*BT1 lambda baryons

**lambda-1520 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE lambda-1520 baryons

**LAMBDA-1600 BARYONS***INIS: 1987-12-21; ETDE: 1988-02-19*

\*BT1 lambda baryons

**LAMBDA-1670 BARYONS***INIS: 1987-12-21; ETDE: 1988-02-19*

(Prior to December 1987 this concept was indexed by LAMBDA-1670 RESONANCES.)

*UF lambda-1670 resonances*

\*BT1 lambda baryons

**lambda-1670 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE lambda-1670 baryons

**LAMBDA-1690 BARYONS***INIS: 1987-12-21; ETDE: 1988-02-19*

(Prior to December 1987 this concept was indexed by LAMBDA-1690 RESONANCES.)

*UF lambda-1690 resonances*

\*BT1 lambda baryons

**lambda-1690 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE lambda-1690 baryons

**LAMBDA-1800 BARYONS***INIS: 1987-12-21; ETDE: 1988-02-19*

\*BT1 lambda baryons

**LAMBDA-1810 BARYONS**

1995-07-17

\*BT1 lambda baryons

**lambda-1815 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE lambda-1820 baryons

**LAMBDA-1820 BARYONS***INIS: 1987-12-21; ETDE: 1988-02-19*

(Prior to December 1987 this concept was indexed by LAMBDA-1815 RESONANCES.)

*UF lambda-1815 resonances*

\*BT1 lambda baryons

**LAMBDA-1830 BARYONS***INIS: 1987-12-21; ETDE: 1988-02-25*

(Prior to December 1987 this concept was indexed by LAMBDA-1830 RESONANCES.)

*UF lambda-1830 resonances*

\*BT1 lambda baryons

**lambda-1830 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE lambda-1830 baryons

**LAMBDA-1890 BARYONS***INIS: 1987-12-21; ETDE: 1988-02-25*

\*BT1 lambda baryons

**LAMBDA-2100 BARYONS***INIS: 1987-12-21; ETDE: 1988-02-25*

(Prior to December 1987 this concept was indexed by LAMBDA-2100 RESONANCES.)

*UF lambda-2100 resonances*

\*BT1 lambda baryons

**lambda-2100 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE lambda-2100 baryons

**LAMBDA-2110 BARYONS***INIS: 1987-12-21; ETDE: 1988-02-25*

\*BT1 lambda baryons

**lambda-2250 resonances***INIS: 1985-01-17; ETDE: 1978-10-23*

(Prior to January 1985 this was a valid ETDE descriptor.)

USE lambda c plus baryons

**lambda-2260 resonances***INIS: 2000-04-12; ETDE: 1979-09-26*

USE lambda c plus baryons

**lambda 2282 resonances***INIS: 2000-04-12; ETDE: 1985-02-22*

USE lambda c plus baryons

**LAMBDA B NEUTRAL BARYONS***INIS: 1987-12-21; ETDE: 1988-02-19*

\*BT1 beauty baryons

**LAMBDA BARYONS***INIS: 1995-07-17; ETDE: 1988-02-19*

\*BT1 hyperons

NT1 lambda-1405 baryons

NT1 lambda-1520 baryons

NT1 lambda-1600 baryons

NT1 lambda-1670 baryons

NT1 lambda-1690 baryons

NT1 lambda-1800 baryons

NT1 lambda-1810 baryons

NT1 lambda-1820 baryons

NT1 lambda-1830 baryons

NT1 lambda-1890 baryons

NT1 lambda-2100 baryons

NT1 lambda-2110 baryons

NT1 lambda particles

NT2 antilambda particles

**LAMBDA C-2625 BARYONS**

1995-07-17

\*BT1 charmed baryons

**lambda c plus**

INIS: 1987-12-21; ETDE: 1985-01-28

(Prior to December 1987 this was a valid descriptor.)

USE lambda c plus baryons

**LAMBDA C PLUS BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

(Prior to December 1987 this concept was indexed by LAMBDA C PLUS.)

UF c-2260 resonances

UF lambda-2250 resonances

UF lambda-2260 resonances

UF lambda 2282 resonances

UF lambda c plus

\*BT1 charmed baryons

**LAMBDA-N-2130 DIBARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

\*BT1 dibaryons

\*BT1 hyperons

**lambda neutral**

USE lambda particles

**LAMBDA PARTICLE BEAMS**

\*BT1 hyperon beams

**LAMBDA PARTICLES**

UF lambda-1115 resonances

UF lambda neutral

\*BT1 lambda baryons

NT1 antilambda particles

**LAMBDA POINT**

\*BT1 transition temperature

RT helium 4

RT superfluidity

**LAMBERT LAW**

RT angular distribution

**lambs**

USE sheep

**LAMELLAE**

RT layers

**laminac**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE plastics

USE polyesters

**LAMINAR FLOW**

UF poiseuille flow

UF subcritical flow

BT1 fluid flow

RT critical flow

RT ideal flow

RT turbulent flow

RT viscous flow

**LAMINARIA**

\*BT1 chromophycota

\*BT1 seaweeds

RT alginates

**laminography**

USE tomography

**LAMPF II SYNCHROTRON**

INIS: 1983-06-30; ETDE: 1983-03-07

6 to 32 GeV proton synchrotron addition to Los Alamos Meson Physics Facility.

\*BT1 meson factories

\*BT1 synchrotrons

**LAMPF LINAC**

UF clinton p. anderson meson physics facility

UF los alamos meson physics facility

\*BT1 linear accelerators

\*BT1 meson factories

**LAMPRE-1 REACTOR**

LANL, Los Alamos, New Mexico, USA.

UF los alamos molten plutonium reactor experiment

\*BT1 experimental reactors

\*BT1 fast reactors

\*BT1 plutonium reactors

\*BT1 power reactors

\*BT1 sodium cooled reactors

**lampre-2 reactor**

USE frcf reactor

**LAMPROPHYRES**

INIS: 2000-04-12; ETDE: 1980-08-12

\*BT1 volcanic rocks

NT1 kimberlites

**lamps**

INIS: 2000-04-12; ETDE: 1977-07-23

USE light bulbs

**land application**

INIS: 2000-04-12; ETDE: 1978-08-08

USE ground disposal

**land fills**

INIS: 1982-09-21; ETDE: 1976-09-28

USE sanitary landfills

**LAND LEASING**

1992-03-10

BT1 leasing

RT land resources

RT land use

RT leases

RT legal aspects

RT regulations

**LAND OWNERSHIP**

INIS: 1992-03-10; ETDE: 1981-08-04

BT1 ownership

RT land resources

RT land use

RT legal aspects

RT mineral rights

**LAND POLLUTION**

For nonradioactive pollution only; for radioactive pollution use CONTAMINATION.

BT1 pollution

RT acid mine drainage

RT environmental effects

RT environmental exposure

RT land pollution abatement

RT land pollution control

RT land use

**LAND POLLUTION ABATEMENT**

INIS: 1992-03-11; ETDE: 1976-07-07

The prevention of formation of pollutants at the source.

SF prevention of significant deterioration

SF psd

BT1 pollution abatement

RT land pollution

RT land reclamation

**LAND POLLUTION CONTROL**

INIS: 1992-03-11; ETDE: 1977-03-04

The removal or management of pollutants after they are formed by a source.

\*BT1 pollution control

RT land pollution

RT land reclamation

RT land use

RT natural attenuation

**LAND RECLAMATION**

1976-07-16

SF mine site rehabilitation

SF reclamation

RT abandoned sites

RT aesthetics

RT backfilling

RT land pollution abatement

RT land pollution control

RT land resources

RT land use

RT liming

RT natural attenuation

RT preferred species

RT remedial action

RT revegetation

RT soil conservation

RT spoil banks

**LAND REQUIREMENTS**

INIS: 1992-10-19; ETDE: 1977-11-29

BT1 demand

RT land resources

RT land use

**LAND RESOURCES**

INIS: 1992-03-10; ETDE: 1982-01-07

BT1 resources

RT land leasing

RT land ownership

RT land reclamation

RT land requirements

RT land use

RT public lands

RT terrestrial ecosystems

**LAND TRANSPORT**

INIS: 1976-12-08; ETDE: 1977-06-24

BT1 transport

NT1 rail transport

NT1 road transport

RT carpooling

RT vanpooling

**LAND USE**

1976-07-16

(From May 1980 till March 1997 ZONING was a valid ETDE descriptor.)

UF zoning

RT arid lands

RT eminent domain

RT environment

RT external zones

RT farms

RT land leasing

RT land ownership

RT land pollution

RT land pollution control

RT land reclamation

RT land requirements

RT land resources

RT landscaping

RT mineral rights

RT nature reserves

RT recreational areas

RT regional analysis

RT regional cooperation

RT rights-of-way

RT site selection

RT water use

RT watersheds

RT wilderness protection acts

**landau absorption**

USE landau damping

**LANDAU CURVES**

- RT s matrix  
 RT scattering  
 RT singularity

**LANDAU DAMPING**

- UF *landau absorption*  
 BT1 damping  
 RT plasma waves  
 RT transit-time magnetic pumping

**landau distribution**

- USE landau fluctuations

**landau domain structure**

1976-03-25

Structure proposed by Landau for intermediate state when magnetic field is applied at acute angle to thin flat superconducting plate. Coordinate SUPERCONDUCTORS or descriptor(s) for the specific superconductor(s) with the term below.

(From January 1975 until March 1996 this was a valid ETDE descriptor.)

- USE domain structure

**LANDAU FLUCTUATIONS**

1999-07-15

- UF *landau distribution*  
 \*BT1 fluctuations  
 RT energy losses

**landau-ginzburg-pitaevskii theory**

- USE ginzburg-pitaevskii theory

**LANDAU LIQUID HELIUM THEORY**

- UF *two-fluid theory*  
 RT helium ii  
 RT phonons  
 RT rotons  
 RT superfluidity

**LANDAU QUASI PARTICLES**

- BT1 quasi particles  
 RT particle structure  
 RT quark model

**LANDAU-ZENER FORMULA**

- RT collisions  
 RT potential energy

**LANDE FACTOR**

- UF *g factor (lande)*  
 UF *lande g factor*  
 UF *lande interval factor*  
 UF *lande splitting factor*  
 BT1 dimensionless numbers  
 RT energy levels

**lande g factor**

- USE lande factor

**lande interval factor**

- USE lande factor

**lande splitting factor**

- USE lande factor

**LANDFILL GAS**

2006-05-15

- \*BT1 fuel gas  
 RT carbon dioxide  
 RT methane  
 RT sanitary landfills

**landfills**

INIS: 1982-09-21; ETDE: 1979-11-23

- USE sanitary landfills

**landforms**

INIS: 2000-04-12; ETDE: 1980-05-06

- USE geomorphology

**LANDGARD PYROLYSIS SYSTEM**

INIS: 2000-04-12; ETDE: 1976-01-23

- UF *landgard solid waste disposal system*  
 UF *monsanto system*

- \*BT1 waste processing  
 RT pyrolysis  
 RT solid wastes  
 RT waste processing plants

**landgard solid waste disposal system**

INIS: 2000-04-12; ETDE: 1976-02-24

- USE landgard pyrolysis system

**LANDSAT SATELLITES**

INIS: 1983-06-02; ETDE: 1980-03-04

- BT1 satellites  
 RT aerial surveying  
 RT exploration  
 RT remote sensing

**LANDSCAPING**

INIS: 1997-06-17; ETDE: 1977-06-21

- RT aesthetics  
 RT earth berms  
 RT land use

**LANDSLIDES**

1980-09-12

- RT blast effects  
 RT earthquakes  
 RT ground motion  
 RT mining  
 RT rain  
 RT seismic effects  
 RT slope stability  
 RT underground explosions

**LANE-ROBSON THEORY**

- RT nuclear reactions  
 RT scattering

**LANE-THOMAS-WIGNER MODEL**

- \*BT1 nuclear models

**LANGEVIN EQUATION**

- BT1 equations  
 RT magnetic fields

**LANGMUIR FREQUENCY**

- UF *frequency (langmuir)*  
 UF *plasma frequency*  
 RT plasma

**langmuir oscillations**

- USE plasma waves

**LANGMUIR PROBE**

- \*BT1 electric probes

**languages (programming)**

- USE programming languages

**LANL**

INIS: 1995-04-03; ETDE: 1989-06-30

Until 1980 known as Los Alamos Scientific Laboratory, and older material is indexed to LASL.

- UF *lasl*  
 UF *los alamos national laboratory*  
 UF *los alamos scientific laboratory*  
 \*BT1 us doe  
 RT antares facility  
 RT aurora facility  
 RT helios facility  
 RT new mexico  
 RT trident facility

**lanolin**

1996-10-23

(Until October 1996 this was a valid descriptor.)

- USE esters  
 USE lipids

- USE sterols

**lanoxin**

- USE digoxin

**lans**

1994-04-12

- USE local area networks

**lanthanides**

- USE rare earths

**LANTHANUM**

- \*BT1 rare earths

**LANTHANUM 120**

INIS: 1984-08-23; ETDE: 1984-09-05

- \*BT1 electron capture radioisotopes  
 \*BT1 lanthanum isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**LANTHANUM 121**

INIS: 1989-02-24; ETDE: 1989-03-20

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lanthanum isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**LANTHANUM 122**

INIS: 1984-08-23; ETDE: 1984-09-05

- \*BT1 electron capture radioisotopes  
 \*BT1 lanthanum isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**LANTHANUM 123**

INIS: 1979-02-21; ETDE: 1979-03-28

- \*BT1 electron capture radioisotopes  
 \*BT1 lanthanum isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**LANTHANUM 124**

- \*BT1 electron capture radioisotopes  
 \*BT1 lanthanum isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**LANTHANUM 125**

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lanthanum isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei

**LANTHANUM 126**

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lanthanum isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**LANTHANUM 127**

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lanthanum isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei

**LANTHANUM 128**

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lanthanum isotopes

- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 129**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 130**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 131**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 132**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 133**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 134**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 135**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 136**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 137**

- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**LANTHANUM 138**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei

- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**LANTHANUM 139**

- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes

**LANTHANUM 139 BEAMS**

*INIS: 1979-01-18; ETDE: 1979-02-23*  
\*BT1 ion beams

**LANTHANUM 139 REACTIONS**

*INIS: 1976-01-28; ETDE: 1976-03-12*  
\*BT1 heavy ion reactions

**LANTHANUM 139 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**LANTHANUM 140**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 141**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 142**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 143**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LANTHANUM 144**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 145**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 146**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 147**

*INIS: 1977-06-13; ETDE: 1977-10-20*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 lanthanum isotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**LANTHANUM 148**

*INIS: 1977-06-13; ETDE: 1977-10-20*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 lanthanum isotopes  
\*BT1 odd-odd nuclei

- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 149**

*INIS: 1986-03-04; ETDE: 1986-04-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LANTHANUM 150**

*1995-10-02*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lanthanum isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LANTHANUM ADDITIONS**

*Alloys containing not more than 1% La are listed here.*

- \*BT1 lanthanum alloys
- \*BT1 rare earth additions
- NT1 alloy-co36cr22ni22w15fe3
- NT2 haynes 188 alloy

**LANTHANUM ALLOYS**

*Alloys containing more than 1% La.*

- \*BT1 rare earth alloys
- NT1 lanthanum additions
- NT2 alloy-co36cr22ni22w15fe3
- NT3 haynes 188 alloy
- NT1 lanthanum base alloys
- NT1 misch metal

**LANTHANUM BASE ALLOYS**

- \*BT1 lanthanum alloys

**LANTHANUM BORIDES**

- \*BT1 borides
- \*BT1 lanthanum compounds

**LANTHANUM BROMIDES**

- \*BT1 bromides
- \*BT1 lanthanum compounds

**LANTHANUM CARBIDES**

- \*BT1 carbides
- \*BT1 lanthanum compounds

**LANTHANUM CARBONATES**

*1996-07-18*

- \*BT1 carbonates
- \*BT1 lanthanum compounds
- RT carbonate minerals

**LANTHANUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 lanthanum compounds

**lanthanum chromites**

*INIS: 2000-04-12; ETDE: 1979-07-24*

- USE chromium oxides
- USE lanthanum oxides

**LANTHANUM COMPLEXES**

- \*BT1 rare earth complexes

**LANTHANUM COMPOUNDS**

- BT1 rare earth compounds
- NT1 lanthanum borides
- NT1 lanthanum bromides
- NT1 lanthanum carbides
- NT1 lanthanum carbonates
- NT1 lanthanum chlorides
- NT1 lanthanum fluorides
- NT1 lanthanum hydrides
- NT1 lanthanum hydroxides
- NT1 lanthanum iodides
- NT1 lanthanum nitrates
- NT1 lanthanum nitrides
- NT1 lanthanum oxides

NT1 lanthanum perchlorates  
 NT1 lanthanum phosphates  
 NT1 lanthanum phosphides  
 NT1 lanthanum selenides  
 NT1 lanthanum silicates  
 NT1 lanthanum silicides  
 NT1 lanthanum sulfates  
 NT1 lanthanum sulfides  
 NT1 lanthanum tellurides  
 NT1 lanthanum tungstates  
 NT1 plzt

**LANTHANUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 lanthanum compounds

**LANTHANUM HYDRIDES**

\*BT1 hydrides  
 \*BT1 lanthanum compounds

**LANTHANUM HYDROXIDES**

\*BT1 hydroxides  
 \*BT1 lanthanum compounds

**LANTHANUM IODIDES**

\*BT1 iodides  
 \*BT1 lanthanum compounds

**LANTHANUM IONS**

\*BT1 ions

**LANTHANUM ISOTOPES**

1995-10-02

BT1 isotopes  
 NT1 lanthanum 120  
 NT1 lanthanum 121  
 NT1 lanthanum 122  
 NT1 lanthanum 123  
 NT1 lanthanum 124  
 NT1 lanthanum 125  
 NT1 lanthanum 126  
 NT1 lanthanum 127  
 NT1 lanthanum 128  
 NT1 lanthanum 129  
 NT1 lanthanum 130  
 NT1 lanthanum 131  
 NT1 lanthanum 132  
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 NT1 lanthanum 138  
 NT1 lanthanum 139  
 NT1 lanthanum 140  
 NT1 lanthanum 141  
 NT1 lanthanum 142  
 NT1 lanthanum 143  
 NT1 lanthanum 144  
 NT1 lanthanum 145  
 NT1 lanthanum 146  
 NT1 lanthanum 147  
 NT1 lanthanum 148  
 NT1 lanthanum 149  
 NT1 lanthanum 150

**LANTHANUM NITRATES**

\*BT1 lanthanum compounds  
 \*BT1 nitrates

**LANTHANUM NITRIDES**

\*BT1 lanthanum compounds  
 \*BT1 nitrides

**LANTHANUM OXIDES**

UF lanthanum chromites  
 \*BT1 lanthanum compounds  
 \*BT1 oxides

**LANTHANUM PERCHLORATES**

\*BT1 lanthanum compounds  
 \*BT1 perchlorates

**LANTHANUM PHOSPHATES**

\*BT1 lanthanum compounds  
 \*BT1 phosphates

**LANTHANUM PHOSPHIDES**

INIS: 1979-09-18; ETDE: 1979-10-23

\*BT1 lanthanum compounds  
 \*BT1 phosphides

**LANTHANUM SELENIDES**

\*BT1 lanthanum compounds  
 \*BT1 selenides

**LANTHANUM SILICATES**

1996-11-13

\*BT1 lanthanum compounds  
 \*BT1 silicates

**LANTHANUM SILICIDES**

1984-04-04

\*BT1 lanthanum compounds  
 \*BT1 silicides

**LANTHANUM SULFATES**

\*BT1 lanthanum compounds  
 \*BT1 sulfates

**LANTHANUM SULFIDES**

\*BT1 lanthanum compounds  
 \*BT1 sulfides

**LANTHANUM TELLURIDES**

\*BT1 lanthanum compounds  
 \*BT1 tellurides

**LANTHANUM TUNGSTATES**

1983-06-01

\*BT1 lanthanum compounds  
 \*BT1 tungstates

**lanzhou cyclotron**

INIS: 1983-06-01; ETDE: 1983-07-07

USE hirfl cyclotron

**LAOS**

BT1 asia  
 BT1 developing countries

**lap welds**

1976-03-17

(Prior to March 1996 this was a valid ETDE descriptor.)

USE welded joints

**LAPLACE EQUATION**

\*BT1 partial differential equations  
 RT poisson equation  
 RT spherical harmonics

**laplace operator**

USE laplacian

**LAPLACE TRANSFORMATION**

\*BT1 integral transformations

**LAPLACIAN**

UF laplace operator  
 BT1 mathematical operators  
 RT diffusion equations  
 RT vectors

**LAPPS**

\*BT1 minority groups  
 RT arctic regions  
 RT eskimos  
 RT norway

**LARAMIE ENERGY RESEARCH CENTER**

2000-04-12

\*BT1 us doe  
 \*BT1 us erda

**LARAMIE ENERGY TECHNOLOGY CENTER**

INIS: 2000-04-12; ETDE: 1978-12-11

\*BT1 us doe

**LARCHES**

INIS: 2000-04-12; ETDE: 1988-02-02

Larix.

\*BT1 conifers

**LARDERELLO GEOTHERMAL FIELD**

1992-06-04

BT1 geothermal fields  
 RT italy  
 RT vapor-dominated systems

**large coil program**

INIS: 1982-11-30; ETDE: 1979-02-23

Coordinate descriptor below with descriptor for aspect of program discussed, e.g. SUPERCONDUCTING MAGNETS.

USE coordinated research programs  
 USE superconducting magnets

**LARGE INTESTINE**

UF appendix (vermiform)

UF colon

\*BT1 intestines

NT1 rectum

RT excretion

RT feces

**larmor electrons**

USE larmor radius

**larmor nuclear precession**

USE larmor precession

**LARMOR PRECESSION**

UF larmor nuclear precession

BT1 precession

**LARMOR RADIUS**

UF gyromagnetic radius

UF larmor electrons

RT magnetic fields

**LARVAE**

UF larval stage

UF metacercariae

UF nymphs

UF tadpoles

RT age groups

RT amphibians

RT ichthyoplankton

RT insects

RT metamorphosis

**larval stage**

USE larvae

**LARYNGECTOMY**

INIS: 1981-08-31; ETDE: 1981-09-22

\*BT1 surgery

RT larynx

**LARYNX**

BT1 respiratory system

RT laryngectomy

RT neck

**LASER BEAM MACHINING**

INIS: 1982-09-21; ETDE: 1977-11-09

BT1 machining

**LASER CAVITIES**

1975-08-22

RT lasers

**LASER DOPPLER ANEMOMETERS**

INIS: 1993-04-21; ETDE: 1992-07-02

\*BT1 anemometers

RT laser radiation  
RT lasers

**LASER DRILLING**

INIS: 1976-07-06; ETDE: 1976-08-24

\*BT1 materials drilling  
RT laser radiation

**LASER FUSION REACTORS**

INIS: 1999-04-19; ETDE: 1976-09-15

BT1 thermonuclear reactors  
NT1 cascade reactors  
NT1 hylife converter  
RT antares facility  
RT aurora facility  
RT direct drive laser implosion  
RT gdl facility  
RT gekko facility  
RT helios facility  
RT icf devices  
RT indirect drive laser implosion  
RT inertial confinement  
RT inertial fusion drivers  
RT laser implosions  
RT nova facility  
RT omega facility  
RT shiva facility  
RT trident facility  
RT vulcan facility

**laser guidance**

INIS: 2000-04-12; ETDE: 1986-09-05

*A means of guiding a charged particle beam. A laser beam photoionizes a channel through a gas, and the resulting plasma serves to strongly focus and guide the beam.*

(Prior to March 1997 this was a valid ETDE descriptor.)

USE beam transport  
USE laser radiation

**LASER IMPLOSIONS**

UF thermonuclear implosions (laser)  
BT1 implosions  
NT1 direct drive laser implosion  
NT1 indirect drive laser implosion  
RT fusion yield  
RT inertial confinement  
RT laser fusion reactors  
RT laser-produced plasma  
RT laser-radiation heating  
RT laser targets  
RT pulsed fusion reactors

**LASER ISOTOPE SEPARATION**

*A laser photon beam selectively excites or ionizes one of the isotopes which can then be isolated by electromagnetic, chemical, or other methods.*

UF avlis  
UF silex process  
\*BT1 isotope separation  
RT lasers

**LASER MATERIALS**

1992-08-11

BT1 materials  
RT laser radiation  
RT lasers

**LASER MIRRORS**

1999-07-15

BT1 mirrors  
RT lasers

**LASER POWER TRANSMISSION**

INIS: 1992-08-11; ETDE: 1980-10-07

UF power beaming  
BT1 power transmission  
RT power systems

**LASER-PRODUCED PLASMA**

BT1 plasma  
RT direct drive laser implosion  
RT indirect drive laser implosion  
RT laser implosions  
RT laser-radiation heating  
RT plasma production

**laser pumping**

INIS: 2000-03-28; ETDE: 1981-08-21

*Use one of the NT's under pumping.*

SEE pumping

**LASER RADIATION**

UF laser guidance  
\*BT1 electromagnetic radiation  
RT beat wave accelerators  
RT laser doppler anemometers  
RT laser drilling  
RT laser materials  
RT laser-radiation heating  
RT laser targets  
RT laser welding  
RT lasers  
RT monochromatic radiation  
RT optical radar  
RT superradiance  
RT visible radiation

**LASER-RADIATION HEATING**

\*BT1 plasma heating  
RT direct drive laser implosion  
RT indirect drive laser implosion  
RT laser implosions  
RT laser-produced plasma  
RT laser radiation

**LASER SPECTROSCOPY**

INIS: 1979-09-18; ETDE: 1978-12-20

BT1 spectroscopy  
NT1 raman spectroscopy  
RT absorption spectroscopy  
RT fluorescence spectroscopy  
RT raman spectra

**LASER TARGETS**

INIS: 1981-08-31; ETDE: 1978-09-11

SF icf targets  
SF inertial confinement fusion targets  
BT1 targets  
RT direct drive laser implosion  
RT electron beam targets  
RT indirect drive laser implosion  
RT inertial confinement  
RT ion beam targets  
RT laser implosions  
RT laser radiation  
RT thermonuclear fuels

**LASER WEAPONS**

INIS: 2000-04-12; ETDE: 1979-03-05

\*BT1 directed-energy weapons  
RT lasers

**LASER WELDING**

\*BT1 welding  
RT laser radiation

**LASERS**

1999-02-22

*Light Amplification by Stimulated Emission of Radiation.*

UF petawatt lasers  
SF stimulated emission devices  
NT1 chemical lasers  
NT1 free electron lasers  
NT1 gas lasers  
NT2 carbon dioxide lasers  
NT2 carbon monoxide lasers  
NT2 excimer lasers  
NT3 krypton chloride lasers

NT3 krypton fluoride lasers

NT2 gas dynamic lasers  
NT2 helium-neon lasers  
NT2 helium-xenon lasers  
NT2 iodine lasers  
NT2 metal vapor lasers  
NT1 liquid lasers  
NT2 dye lasers  
NT1 ring lasers  
NT1 solid state lasers  
NT2 diode-pumped solid state lasers  
NT2 neodymium lasers  
NT2 ruby lasers  
NT2 semiconductor lasers  
NT1 x-ray lasers  
RT electrical pumping  
RT electron beam pumping  
RT frequency selection  
RT gasers  
RT laser cavities  
RT laser doppler anemometers  
RT laser isotope separation  
RT laser materials  
RT laser mirrors  
RT laser radiation  
RT laser weapons  
RT light sources  
RT masers  
RT mode control  
RT mode locking  
RT mode selection  
RT multi-photon processes  
RT nuclear pumping  
RT optical pumping  
RT optical radar  
RT q-switching  
RT quantum electronics  
RT radiation sources  
RT stimulated emission

**LASERTRONS**

INIS: 1986-05-23; ETDE: 1986-11-14

\*BT1 microwave tubes  
RT power supplies  
RT rf systems

**lasl**

1997-01-28

(Until March 1995 this was a valid descriptor. Name changed in 1980 to Los Alamos National Laboratory, and more recent material should have been indexed to LANL.)

USE lanl

**lasl cold critical assembly**

INIS: 1977-04-07; ETDE: 2002-03-09

USE plasma core assembly

**lasl critical assembly**

INIS: 1979-02-21; ETDE: 2001-01-23

USE parka reactor

**lass growth method**

INIS: 2000-04-12; ETDE: 1982-07-27

(Prior to February 1995, this was a valid ETDE descriptor.)

USE crystal growth methods

**LATCHKEY OPERATION**

INIS: 2000-04-12; ETDE: 1976-11-01

\*BT1 nuclear explosions  
\*BT1 underground explosions  
RT contained explosions

**late radiation effects**

USE delayed radiation effects

**LATENCY PERIOD**

UF disease free period  
RT acute irradiation  
RT delayed radiation effects

RT incubation  
RT quarantine  
RT radiation syndrome

**latent heat of fusion**

USE fusion heat

**latent heat of sublimation**

USE sublimation heat

**latent heat of transition**

USE transition heat

**latent heat of vaporization**

USE vaporization heat

**LATENT HEAT STORAGE**

INIS: 1993-06-04; ETDE: 1977-06-30

*Storage of thermal energy in the latent heat of fusion of various materials.*

\*BT1 heat storage  
RT fusion heat  
RT phase change materials  
RT seasonal thermal energy storage  
RT thermal energy storage equipment  
RT vaporization heat

**LATENT IMAGES**

RT dielectric track detectors  
RT nuclear emulsions  
RT photographic emulsions  
RT photographic films

**laterologging**

INIS: 2000-06-27; ETDE: 1979-05-02

USE resistivity logging

**LATEX**

\*BT1 rubbers  
RT coatings  
RT emulsions  
RT natural rubber  
RT protective coatings

**LATHES**

INIS: 1980-05-14; ETDE: 1978-07-06

\*BT1 machine tools  
RT machining

**LATIN AMERICA**

INIS: 1986-03-04; ETDE: 1978-08-07

NT1 central america  
NT2 belize  
NT2 costa rica  
NT2 el salvador  
NT2 guatemala  
NT2 honduras  
NT2 nicaragua  
NT2 panama  
NT1 cuba  
NT1 dominican republic  
NT1 haiti  
NT1 jamaica  
NT1 mexico  
NT1 puerto rico  
NT1 saint lucia  
NT1 saint vincent and the grenadines  
NT1 south america  
NT2 argentina  
NT3 mendoza  
NT2 bolivia  
NT3 chacaltaya  
NT2 brazil  
NT2 chile  
NT2 colombia  
NT2 ecuador  
NT2 french guiana  
NT2 guyana  
NT2 paraguay  
NT2 peru  
NT2 surinam  
NT2 uruguay

NT2 venezuela  
RT west indies

**latin america nuclear weapons prohibition treaty**

INIS: 1993-11-09; ETDE: 2002-03-09

USE tlattelolco treaty

**LATINA REACTOR**

*Borgo Sabotino, Latina, Italy.*

UF foce verde reactor  
\*BT1 carbon dioxide cooled reactors  
\*BT1 magnox type reactors  
\*BT1 thermal reactors

**latir event**

INIS: 2000-04-12; ETDE: 1976-03-11

*A test made during PROJECT ARBOR.*

(Prior to January 1995, this was a valid ETDE descriptor.)

USE nuclear explosions  
USE underground explosions

**LATITUDE EFFECT**

1999-07-16

\*BT1 geographical variations  
RT equator

**lattice defects**

INIS: 2000-04-12; ETDE: 1977-08-09

USE crystal defects

**LATTICE FIELD THEORY**

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 constructive field theory  
RT gauge invariance  
RT instantons  
RT lie groups  
RT wilson loop

**LATTICE PARAMETERS**

RT crystal lattices

**LATTICE VIBRATIONS**

UF vibrations (lattice)  
RT anharmonic crystals  
RT crystal structure  
RT debye-waller factor  
RT harmonics  
RT nuclear specific heat  
RT oscillation modes  
RT rayleigh waves  
RT vibrational states

**lattices (crystal)**

USE crystal lattices

**lattices (reactor)**

USE reactor lattices

**LATVIA**

INIS: 1997-08-20; ETDE: 1993-03-15

(Until January 1993, this was indexed by USSR.)

SF soviet union  
SF union of soviet socialist republics  
SF ussr  
\*BT1 eastern europe

**LATVIAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**laue-bragg scattering**

USE bragg reflection

**LAUE METHOD**

BT1 diffraction methods  
RT crystal lattices  
RT kossel method  
RT structural chemical analysis  
RT x-ray diffraction

**LAUMONTITE**

INIS: 2000-04-12; ETDE: 1977-12-22

*A white zeolite mineral.*

\*BT1 zeolites

**LAUNCHING**

RT missile launching sites  
RT missiles  
RT rockets  
RT space vehicles

**laundries**

INIS: 2000-04-12; ETDE: 1979-02-27

(Prior to March 1997 this was a valid ETDE descriptor.)

USE buildings  
USE clothing  
USE washing

**lauric acid**

USE dodecanoic acid

**lauryl radicals**

USE dodecyl radicals

**lausanne tokamak**

INIS: 1984-04-04; ETDE: 1984-05-08

USE tca tokamak

**lav virus**

INIS: 1986-05-23; ETDE: 2002-03-09

USE aids virus

**LAVA**

*A general term for a molten extrusive; also, for the rock that is solidified from it.*

\*BT1 igneous rocks  
RT eruption  
RT magma  
RT magnesium silicates  
RT magnesium sulfates  
RT silicate minerals  
RT volcanism  
RT volcanoes

**LAVAGE**

*Washing out of hollow organ by copious injections and rejections of water.*

UF pulmonary lavage  
RT decontamination  
RT excretion  
RT lungs  
RT respiratory system

**LAVENITE**

2000-04-12

\*BT1 silicate minerals  
RT calcium silicates  
RT sodium silicates  
RT zirconium silicates

**LAVES PHASES**

RT crystal lattices  
RT intermetallic compounds

**LAWRENCE BERKELEY LABORATORY**

UF lbl  
UF uclbl  
UF university of california lawrence radiation laboratory

\*BT1 us aec  
\*BT1 us doe  
\*BT1 us erda  
RT california

**LAWRENCE LIVERMORE  
LABORATORY**

*Name changed to Lawrence Livermore  
National Laboratory, and more recent  
material should be indexed to LAWRENCE  
LIVERMORE NATIONAL LABORATORY.*

*UF uclll*

\*BT1 lawrence livermore national  
laboratory

\*BT1 us aec

\*BT1 us erda

*RT california*

*RT nova facility*

*RT shiva facility*

*RT tmx devices*

**LAWRENCE LIVERMORE  
NATIONAL LABORATORY**

*INIS: 1993-11-09; ETDE: 1994-08-18*

*Formerly known as Lawrence Livermore  
Laboratory, and older material is so indexed.*

*UF llnl*

\*BT1 us doe

**NT1** lawrence livermore laboratory

*RT california*

*RT nova facility*

*RT novette facility*

*RT shiva facility*

**LAWRENCIUM**

\*BT1 actinides

\*BT1 transplutonium elements

**LAWRENCIUM 252**

*2002-01-11*

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 lawrencium isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**LAWRENCIUM 253**

*INIS: 1986-06-09; ETDE: 1988-12-05*

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 lawrencium isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**LAWRENCIUM 254**

*INIS: 1986-06-09; ETDE: 1988-12-05*

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 lawrencium isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**LAWRENCIUM 255**

*INIS: 1977-01-25; ETDE: 1976-04-19*

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 lawrencium isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**LAWRENCIUM 256**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 lawrencium isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**LAWRENCIUM 257**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 lawrencium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**LAWRENCIUM 258**

*INIS: 1986-06-09; ETDE: 1976-04-19*

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 lawrencium isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**LAWRENCIUM 259**

*INIS: 1977-01-25; ETDE: 1976-11-01*

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 lawrencium isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**LAWRENCIUM 260**

*INIS: 1986-03-04; ETDE: 1985-06-26*

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 lawrencium isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

**LAWRENCIUM 261**

*INIS: 1987-02-25; ETDE: 1987-04-10*

\*BT1 actinide nuclei

\*BT1 lawrencium isotopes

\*BT1 odd-even nuclei

**LAWRENCIUM 262**

*INIS: 1987-02-25; ETDE: 1987-04-10*

\*BT1 actinide nuclei

\*BT1 lawrencium isotopes

\*BT1 odd-odd nuclei

**LAWRENCIUM 263**

*INIS: 1987-02-25; ETDE: 1987-05-01*

\*BT1 actinide nuclei

\*BT1 lawrencium isotopes

\*BT1 odd-even nuclei

**lawrencium additions**

*2000-04-12*

(Prior to January 1995, this was a valid ETDE  
descriptor.)

SEE lawrencium compounds

**lawrencium complexes**

*1996-07-18*

(Until July 1996 this was a valid descriptor.)

USE actinide complexes

USE transuranium complexes

**LAWRENCIUM COMPOUNDS**

*1996-07-18*

*SF lawrencium additions*

**BT1** actinide compounds

\*BT1 transplutonium compounds

**LAWRENCIUM ISOTOPES**

*1999-07-16*

**BT1** isotopes

**NT1** lawrencium 252

**NT1** lawrencium 253

**NT1** lawrencium 254

**NT1** lawrencium 255

**NT1** lawrencium 256

**NT1** lawrencium 257

**NT1** lawrencium 258

**NT1** lawrencium 259

**NT1** lawrencium 260

**NT1** lawrencium 261

**NT1** lawrencium 262

**NT1** lawrencium 263

**LAWS**

*1997-07-30*

*The whole body of laws, regulations,  
agreements, judicial or administrative  
decisions or practices which are binding or  
accepted as a rule of conduct.*

(Until December 1990, this descriptor was  
spelled LAW.)

*UF corporation law*

*UF general law*

*UF municipal law*

*UF private law*

*SF invention secrecy act*

*SF legal incentives*

*SF materials and minerals policy acts*

*SF petroleum marketing practices act*

**NT1** antitrust laws

**NT1** atomic energy laws

**NT2** atomic energy act

**NT2** nuclear waste policy acts

**NT1** case law

**NT1** coastal zone management acts

**NT1** energy conservation and production  
act

**NT1** fishery laws

**NT1** freedom of information act

**NT1** international laws

**NT1** maritime laws

**NT1** mining laws

**NT2** surface mining acts

**NT1** national energy acts

**NT2** us energy tax act

**NT2** us national energy conservation  
policy act

**NT2** us natural gas policy act

**NT2** us power plant and industrial fuel  
use act

**NT2** us public utility regulatory policies  
act

**NT1** national energy conservation  
incentives act

**NT1** patent laws

**NT1** pollution laws

**NT2** clean air acts

**NT2** clean water acts

**NT2** us superfund

**NT1** price-anderson act

**NT1** privacy act

**NT1** public law

**NT1** radiation protection laws

**NT1** regulations

**NT2** building codes

**NT2** contamination regulations

**NT3** maximum acceptable  
contamination

**NT2** international regulations

**NT3** oecd mcmsdrw

**NT2** licensing regulations

**NT2** packaging rules

**NT2** pollution regulations

**NT2** pricing regulations

**NT2** safeguard regulations

**NT2** transport regulations

**NT1** resource recovery acts

**NT1** tax laws

**NT1** toxic substances control acts

**NT1** us economic recovery tax act

**NT1** us emergency preparedness act

**NT1** us energy policy and conservation act

**NT1** us energy security act

**NT1** us national environmental policy act

**NT1** us occupational safety and health act

**NT1** waste disposal acts

**NT2** nuclear waste policy acts

**NT1** wilderness protection acts

*RT administrative procedures*

*RT agreements*

*RT amendments*

*RT compliance*



RT enforcement  
 RT executive orders  
 RT hearings  
 RT legal aspects  
 RT legislation  
 RT legislative text  
 RT public policy  
 RT repeals  
 RT solar rights  
 RT speed limit  
 RT violations

**LAWSON CRITERION**

INIS: 1978-05-19; ETDE: 1978-07-05

*The energy output from a thermonuclear reactor can only exceed the plasma energy input if the product of plasma density and confinement time is higher than  $10 \exp 14$  s/cm exp 3.*

RT breakeven  
 RT confinement time  
 RT plasma density  
 RT thermonuclear devices

**LAWSUITS**

INIS: 1976-12-08; ETDE: 1977-06-24

UF litigation  
 RT arbitration  
 RT courts  
 RT dispute settlements  
 RT hearings

**LAX THEOREM**

RT shock waves

**LAYERS**

NT1 boundary layers  
 NT2 plasma scrape-off layer  
 NT1 depletion layer  
 NT1 ozone layer  
 RT films  
 RT lamellae  
 RT stratification  
 RT stratigraphy  
 RT substrates

**lbl**

INIS: 1984-04-04; ETDE: 2002-03-09

USE lawrence berkeley laboratory

**LBL 88-INCH CYCLOTRON**

INIS: 1988-08-02; ETDE: 1987-12-17

*Lawrence Berkeley Laboratory, Berkeley, California, USA.*

\*BT1 uclrl cyclotrons

**LC-FINING**

INIS: 2000-04-12; ETDE: 1980-03-29

*Expanded-bed catalytic hydrotreating process (proprietary).*

RT coal liquids  
 RT hydrogenation  
 RT solvent-refined coal

**lcao calculations**

USE lcao method

**LCAO METHOD**

UF lcao calculations  
 UF lcao mo calculations  
 UF lcao scf treatment  
 UF lcao theory  
 UF linear combination of atomic orbitals  
 BT1 calculation methods  
 RT molecular orbital method  
 RT molecular structure  
 RT self-consistent field

**lcao mo calculations**

USE lcao method

**lcao scf treatment**

USE lcao method

**lcao theory**

USE lcao method

**lccfc process**

INIS: 2000-04-12; ETDE: 1981-10-24

USE coal liquefaction

**LCPMPDPW**

INIS: 1976-03-25; ETDE: 1991-04-17

*1972 London Convention on Prevention of Marine Pollution by Dumping of Waste and other Matter.*

UF london convention for prevention of marine pollution

UF marine pollution prevention, london convention

UF pollution, prevention of marine, 1972 london convention on

UF prevention of marine pollution, 1972 london convention on

\*BT1 international agreements

RT contamination

RT marine disposal

RT oecd mcmsdrw

RT pollution

**lcr**

INIS: 2000-04-12; ETDE: 1981-05-18

USE load collector ratio

**lcre reactor**

2000-04-12

USE experimental reactors

USE lithium cooled reactors

**ld 50**

USE lethal radiation dose

**LEACHATES**

INIS: 1981-02-27; ETDE: 1980-04-14

*The liquid that has percolated through soil or other media; a solution obtained by leaching.*

\*BT1 solutions

RT environmental transport

RT ground water

RT in-situ processing

RT leaching

RT liquid wastes

RT solvent extraction

**LEACHING**

1996-07-08

UF elution (soluble constituents)

UF lixiviation

BT1 dissolution

BT1 separation processes

NT1 microbial leaching

RT diffusion

RT hydrometallurgy

RT in-situ processing

RT ion exchange chromatography

RT ion exchange materials

RT leachates

RT ore enrichment

RT ore processing

RT solubility

RT solution mining

RT solvent extraction

RT thiobacillus ferroxidans

RT thiobacillus oxidans

**LEAD**

\*BT1 metals

RT shielding materials

**LEAD 180**

1996-10-10

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 lead isotopes  
 \*BT1 milliseconds living radioisotopes

**LEAD 182**

INIS: 1988-02-02; ETDE: 1987-07-22

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 milliseconds living radioisotopes

**LEAD 183**

INIS: 1981-02-27; ETDE: 1981-03-13

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes

**LEAD 184**

INIS: 1980-07-24; ETDE: 1980-08-12

\*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 milliseconds living radioisotopes

**LEAD 185**

ETDE: 1975-08-19

\*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 seconds living radioisotopes

**LEAD 186**

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 seconds living radioisotopes

**LEAD 187**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 seconds living radioisotopes

**LEAD 188**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 seconds living radioisotopes

**LEAD 189**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 seconds living radioisotopes

**LEAD 190**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 minutes living radioisotopes

**LEAD 191**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 minutes living radioisotopes

**LEAD 192**

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 minutes living radioisotopes

**LEAD 193***1975-10-29*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 minutes living radioisotopes

**LEAD 194**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 lead isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 nanoseconds living radioisotopes

**LEAD 195**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 minutes living radioisotopes

**LEAD 196**

\*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 minutes living radioisotopes

**LEAD 197**

\*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 lead isotopes  
 \*BT1 minutes living radioisotopes

**LEAD 198**

\*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 lead isotopes

**LEAD 199**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 lead isotopes  
 \*BT1 minutes living radioisotopes

**LEAD 200**

\*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 isomeric transition isotopes

\*BT1 lead isotopes  
 \*BT1 nanoseconds living radioisotopes

**LEAD 200 TARGET***INIS: 1979-12-20; ETDE: 1980-01-24*

BT1 targets

**LEAD 201**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 lead isotopes  
 \*BT1 minutes living radioisotopes

**LEAD 202**

\*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 lead isotopes  
 \*BT1 years living radioisotopes

**LEAD 202 TARGET***INIS: 1978-07-03; ETDE: 1978-08-07*

BT1 targets

**LEAD 203**

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 lead isotopes  
 \*BT1 seconds living radioisotopes

**LEAD 204**

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 lead isotopes  
 \*BT1 stable isotopes

**LEAD 204 TARGET***ETDE: 1976-07-09*

BT1 targets

**LEAD 205**

\*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 lead isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 years living radioisotopes

**LEAD 205 TARGET***INIS: 1978-11-24; ETDE: 1978-04-05*

BT1 targets

**LEAD 206**

*UF radium g*  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 stable isotopes

**LEAD 206 REACTIONS***INIS: 1986-08-19; ETDE: 1986-09-05*

\*BT1 heavy ion reactions

**LEAD 206 TARGET***ETDE: 1976-07-09*

BT1 targets

**LEAD 207**

*UF actinium d*  
 \*BT1 even-odd nuclei

\*BT1 heavy nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 lead isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 stable isotopes

**LEAD 207 TARGET***ETDE: 1976-07-09*

BT1 targets

**LEAD 208***UF thorium d*

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 stable isotopes

**LEAD 208 BEAMS***INIS: 1978-05-19; ETDE: 1978-07-05*

\*BT1 ion beams

**LEAD 208 REACTIONS***INIS: 1978-04-21; ETDE: 1978-07-06*

\*BT1 heavy ion reactions

**LEAD 208 TARGET***ETDE: 1976-07-09*

BT1 targets

**LEAD 209**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 lead isotopes

**LEAD 209 TARGET***INIS: 1976-07-30; ETDE: 1976-11-01*

BT1 targets

**LEAD 210***UF radium d*

\*BT1 alpha decay radioisotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 years living radioisotopes

**LEAD 210 TARGET***INIS: 1976-07-06; ETDE: 1976-08-24*

BT1 targets

**LEAD 211***UF actinium b*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 minutes living radioisotopes

**LEAD 212***UF thorium b*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 lead isotopes

**LEAD 213**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 minutes living radioisotopes

**LEAD 214***UF radium b*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 lead isotopes  
 \*BT1 minutes living radioisotopes

**LEAD 215**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 lead isotopes

**LEAD 216**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 lead isotopes

**LEAD-ACID BATTERIES**

1992-05-04

UF storage batteries (lead-acid)

- \*BT1 electric batteries

**LEAD ADDITIONS**

Alloys containing not more than 1% Pb are listed here.

- \*BT1 lead alloys

**LEAD ALLOYS**

Alloys containing more than 1% Pb.

- BT1 alloys
- NT1 alloy-bi50pb25cd12sn12
- NT2 wood metal
- NT1 cerrobend alloys
- NT1 lead additions
- NT1 lead base alloys
- NT2 terne-metal
- NT1 lichtenberg alloy
- NT1 newton-metal
- NT1 ounce metal
- NT1 rose-metal

**LEAD BASE ALLOYS**

- \*BT1 lead alloys
- NT1 terne-metal

**LEAD BROMIDES**

- \*BT1 bromides
- \*BT1 lead halides

**LEAD CARBIDES**

2000-04-12

- \*BT1 carbides
- BT1 lead compounds

**LEAD CARBONATES**

- \*BT1 carbonates
- BT1 lead compounds

**LEAD CHLORIDES**

- \*BT1 chlorides
- \*BT1 lead halides

**LEAD COMPLEXES**

- BT1 complexes

**LEAD COMPOUNDS**

1997-06-17

- UF lead nitrides
- NT1 lead carbides
- NT1 lead carbonates
- NT1 lead halides
- NT2 lead bromides
- NT2 lead chlorides
- NT2 lead fluorides
- NT2 lead iodides
- NT1 lead hydrides
- NT1 lead hydroxides
- NT1 lead nitrates
- NT1 lead oxides
- NT1 lead perchlorates
- NT1 lead phosphates
- NT1 lead selenides
- NT1 lead silicates
- NT1 lead sulfates
- NT1 lead sulfides
- NT1 lead tellurides
- NT1 lead tungstates
- NT1 plumbates
- NT1 plzt

NT1 pzt

NT1 tetraethyl lead

**LEAD FLUORIDES**

- \*BT1 fluorides
- \*BT1 lead halides

**lead-free gasoline**

INIS: 1992-07-21; ETDE: 1976-11-02

- USE unleaded gasoline

**LEAD HALIDES**

1984-04-04

- \*BT1 halides
- BT1 lead compounds
- NT1 lead bromides
- NT1 lead chlorides
- NT1 lead fluorides
- NT1 lead iodides

**LEAD HYDRIDES**

INIS: 2000-04-12; ETDE: 1984-10-10

- \*BT1 hydrides
- BT1 lead compounds

**LEAD HYDROXIDES**

- \*BT1 hydroxides
- BT1 lead compounds

**LEAD IODIDES**

- \*BT1 iodides
- \*BT1 lead halides

**LEAD IONS**

- \*BT1 ions

**LEAD ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 lead 180
- NT1 lead 182
- NT1 lead 183
- NT1 lead 184
- NT1 lead 185
- NT1 lead 186
- NT1 lead 187
- NT1 lead 188
- NT1 lead 189
- NT1 lead 190
- NT1 lead 191
- NT1 lead 192
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- NT1 lead 204
- NT1 lead 205
- NT1 lead 206
- NT1 lead 207
- NT1 lead 208
- NT1 lead 209
- NT1 lead 210
- NT1 lead 211
- NT1 lead 212
- NT1 lead 213
- NT1 lead 214
- NT1 lead 215
- NT1 lead 216

**lead method**

- USE isotope dating

**lead minerals**

2000-04-12

- USE minerals

**LEAD NITRATES**

- BT1 lead compounds
- \*BT1 nitrates

**lead nitrides**

1996-06-28

(Until June 1996 this was a valid descriptor.)

- USE lead compounds
- USE nitrides

**LEAD ORES**

- BT1 ores

**LEAD OXIDES**

1996-07-23

- BT1 lead compounds
- \*BT1 oxides
- RT fourmarierite
- RT hallimondite
- RT moctezumite
- RT oxide minerals
- RT plumbates

**LEAD PERCHLORATES**

INIS: 2000-04-12; ETDE: 1977-05-07

- BT1 lead compounds
- \*BT1 perchlorates

**LEAD PHOSPHATES**

1996-07-18

- BT1 lead compounds
- \*BT1 phosphates
- RT dewindtite
- RT phosphate minerals

**LEAD SELENIDES**

1977-01-25

- BT1 lead compounds
- \*BT1 selenides

**LEAD SILICATES**

- BT1 lead compounds
- \*BT1 silicates
- RT alamosite

**LEAD SULFATES**

- BT1 lead compounds
- \*BT1 sulfates

**LEAD SULFIDES**

- BT1 lead compounds
- \*BT1 sulfides
- RT galena
- RT sulfide minerals

**LEAD TELLURIDES**

- BT1 lead compounds
- \*BT1 tellurides

**LEAD TUNGSTATES**

INIS: 1979-04-27; ETDE: 1979-05-25

- BT1 lead compounds
- \*BT1 tungstates

**lead zirconate titanate**

INIS: 2000-04-12; ETDE: 1983-01-21

- USE pzt

**LEADING ABSTRACT**

1991-08-02

- BT1 abstracts

**LEADING PARTICLES**

INIS: 1981-11-26; ETDE: 1976-09-28

Charged interaction products with large longitudinal momentum.

- BT1 elementary particles
- RT particle models
- RT particle production

**LEAK DETECTORS**

- RT leak testing
- RT leaks

RT reactor components

**LEAK TESTING**

BT1 testing  
RT leak detectors  
RT leaks  
RT sealed sources

**leakage**

USE leaks

**leakage (neutron)**

USE neutron leakage

**LEAKAGE CURRENT**

UF *current (leakage)*  
\*BT1 electric currents

**LEAKS**

UF *leakage*  
RT airtightness  
RT containment  
RT failures  
RT fission product release  
RT gloveboxes  
RT leak detectors  
RT leak testing  
RT porosity  
RT sealed sources

**lear**

INIS: 2000-04-12; ETDE: 1984-08-20  
*Low Energy Antiproton storage Ring at CERN.*  
(Prior to November 1990 this was a valid ETDE descriptor.)  
USE cern lear

**learn tandem accelerator**

1996-07-18  
(Until July 1996 this was a valid descriptor.)  
USE tandem electrostatic accelerators  
USE van de graaff accelerators

**LEARNING**

RT attitudes  
RT behavior  
RT conditioned reflexes  
RT education  
RT training

**LEASE CONDENSATES**

INIS: 2000-04-12; ETDE: 1979-02-23  
*Natural gas liquids recovered from gas well gas, associated and non-associated, in lease separators or field facilities.*  
\*BT1 natural gas liquids  
RT liquefied petroleum gases

**LEASES**

1992-03-30  
BT1 contracts  
RT land leasing

**LEASING**

1995-04-06  
NT1 land leasing  
RT administrative procedures  
RT agreements  
RT contracts  
RT legal aspects  
RT resource exploitation  
RT third-party use

**LEAST SQUARE FIT**

\*BT1 maximum-likelihood fit  
RT prony method

**LEATHER**

RT skin

**LEAVES**

UF *foliage*

NT1 tea leaves  
RT c4 species  
RT calvin cycle species  
RT canopies  
RT chlorophyll  
RT chlorosis  
RT foliar uptake  
RT forest litter  
RT photosynthesis  
RT plants  
RT transpiration

**LEBANESE ORGANIZATIONS**

2004-03-31  
BT1 national organizations

**LEBANON**

BT1 arab countries  
BT1 asia  
BT1 developing countries  
BT1 middle east

**lebedev synchrotron**

USE fian synchrotron

**LECITHINS**

UF *phosphatidylcholine*  
\*BT1 phospholipids  
RT choline  
RT glycerol

**LECTINS**

INIS: 1999-07-20; ETDE: 1981-10-24  
*Substances not known to be antibodies but that combine specifically with antigens and produce phenomena resembling immunological reactions.*  
NT1 concanavalin a  
RT antibodies  
RT antigen-antibody reactions  
RT antigens

**LECTURES**

*Should be used to index all pieces of literature which are a lecture or a collection of lectures.*  
BT1 document types

**led (light emitting diodes)**

INIS: 1978-02-23; ETDE: 1978-04-27  
USE light emitting diodes

**LEDGEMONT PROCESS**

2000-04-12  
*An oxygen leaching process for converting pyrites in coal slurries to soluble sulfates.*  
\*BT1 desulfurization  
RT pyrite

**LEE MODEL**

\*BT1 particle models

**LEE-YANG THEORY**

UF *salam hypothesis*  
UF *yang-lee distribution*  
RT beta decay  
RT p invariance

**leed**

USE electron diffraction

**LEGAL ASPECTS**

1999-07-20  
(From August 1979 till March 1997 LEGAL INCENTIVES was a valid ETDE descriptor.)  
UF *coercion*  
UF *insurance law*  
SF *document destruction*  
SF *legal incentives*  
NT1 antitrust review  
RT administrative procedures  
RT amendments  
RT atomic energy control  
RT compliance

RT conflicts of interest  
RT consumer protection  
RT eminent domain  
RT enforcement  
RT executive orders  
RT financial incentives  
RT iaea agreements  
RT inspection  
RT insurance  
RT intervenors  
RT joint ventures  
RT land leasing  
RT land ownership  
RT laws  
RT leasing  
RT legislation  
RT liabilities  
RT licenses  
RT licensing  
RT mineral rights  
RT ownership  
RT patents  
RT political aspects  
RT price-anderson act  
RT property rights  
RT public policy  
RT radiation protection  
RT recommendations  
RT regulations  
RT regulatory guides  
RT repeals  
RT rights-of-way  
RT safeguards  
RT safety standards  
RT sellback  
RT solar rights  
RT time delay  
RT warranties  
RT water rights  
RT workmens compensation

**legal incentives**

INIS: 2000-04-12; ETDE: 1979-08-07  
(Prior to March 1997 this was a valid ETDE descriptor.)  
SEE government policies  
SEE laws  
SEE legal aspects  
SEE regulations

**LEGENDRE POLYNOMIALS**

\*BT1 polynomials  
RT spherical harmonics method

**LEGIONELLA ANISA**

INIS: 2000-04-12; ETDE: 1985-05-31  
\*BT1 bacteria  
RT bacterial diseases  
RT infectious diseases

**LEGIONELLA PNEUMOPHILA**

INIS: 1993-07-15; ETDE: 1983-06-20  
*The bacterium responsible for legionnaires' disease.*  
\*BT1 bacteria  
RT bacterial diseases  
RT cooling systems  
RT infectious diseases

**LEGISLATION**

1997-06-19  
UF *legislative programs*  
RT amendments  
RT freedom of information act  
RT hearings  
RT implementation  
RT laws  
RT legal aspects  
RT legislative text  
RT local government  
RT national government

- RT public policy  
 RT regulations  
 RT state government  
 RT toxic substances control acts  
 RT us economic recovery tax act

**legislative programs**

2000-04-12

- USE legislation

**LEGISLATIVE TEXT**

INIS: 1987-09-22; ETDE: 1987-10-23

Use only in conjunction with literary indicator

Q for indexing the text of a piece of legislation.

- RT laws  
 RT legislation  
 RT regulations

**LEGS**

- \*BT1 limbs  
 NT1 feet  
 RT femur  
 RT sciatic nerve  
 RT tibia

**LEGUMINOSAE**

1997-06-17

- UF honeylocust trees  
 \*BT1 magnoliopsida  
 NT1 alfalfa  
 NT1 clover  
 NT1 glycine hispida  
 NT1 locust trees  
 NT1 mesquite  
 NT1 phaseolus  
 NT1 pisum  
 NT1 vicia  
 NT1 vigna  
 RT mimosine  
 RT peanuts  
 RT rhizobium

**LEHMANN-KAELLEN REPRESENTATION**

- RT quantum field theory

**lehmann-symanzik-zimmermann method**

- USE Isz theory

**LEIBSTADT REACTOR**

- \*BT1 bwr type reactors

**leipzig zfi**

INIS: 1986-05-23; ETDE: 2002-03-09

- USE zfi leipzig

**LEISURE TIME ACTIVITIES**

INIS: 2000-04-12; ETDE: 1978-12-28

(From November 1978 till March 1997 LIFE STYLES was a valid ETDE descriptor.)

- SF life styles  
 RT behavior  
 RT gardening  
 RT sociology

**LEMONIZ-1 REACTOR**

INIS: 1977-04-07; ETDE: 1977-06-03

Lemoniz, Vizcaya, Spain.

- \*BT1 pwr type reactors

**LEMONIZ-2 REACTOR**

INIS: 1977-04-07; ETDE: 1977-06-03

Lemoniz, Vizcaya, Spain.

- \*BT1 pwr type reactors

**LEMONS**

- \*BT1 fruits  
 RT citrus

**lena triga-mk-2 pulsed reactor**

1984-06-21

- USE triga-2-pavia reactor

**LENDING INSTITUTIONS**

INIS: 1993-02-18; ETDE: 1981-06-17

- RT economy  
 RT financing

**LENGTH**

1999-07-20

- BT1 dimensions  
 NT1 bond lengths  
 NT1 coherence length  
 NT1 debye length  
 NT1 diffusion length  
 NT1 elementary length  
 NT1 extrapolation length  
 NT1 migration length  
 NT1 radiation length  
 NT1 scattering lengths  
 NT1 slowing-down length

**lenin (nuclear ship)**

- USE ns lenin

**LENIN REACTOR**

- UF icebreaker lenin reactor  
 UF nuclear ship lenin reactor  
 \*BT1 pwr type reactors  
 \*BT1 ship propulsion reactors  
 RT ns lenin

**LENINGRAD-1 REACTOR**

Sosnovyy bor, Leningrad, Russian Federation.

- UF rbmk-1000 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 lwgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**LENINGRAD-2 REACTOR**

Sosnovyy bor, Leningrad, Russian Federation.

- \*BT1 enriched uranium reactors  
 \*BT1 lwgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**LENINGRAD-3 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

- \*BT1 enriched uranium reactors  
 \*BT1 lwgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**LENINGRAD-4 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

- \*BT1 enriched uranium reactors  
 \*BT1 lwgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**leningrad institute of nuclear physics**

INIS: 1997-08-08; ETDE: 1977-04-12

(Until July 1997 this was a valid descriptor.)

- USE st petersburg institute of nuclear physics

**LENINGRAD****SYNCHROCYCLOTRON**

2000-04-12

- \*BT1 synchrocyclotrons

**leningrad wwr-m reactor**

INIS: 1984-06-21; ETDE: 2002-03-09

- USE wwr-m-leningrad reactor

**LENNARD-JONES POTENTIAL**

- BT1 potentials  
 RT interatomic forces

**lens (crystalline)**

- USE crystalline lens

**LENSES**

- NT1 electromagnetic lenses  
 NT1 electrostatic lenses  
 NT1 fresnel lens  
 NT1 gravitational lenses  
 RT optical systems

**leonid brezhnev (nuclear ship)**

INIS: 1984-08-27; ETDE: 1994-08-10

- USE ns leonid brezhnev

**LEONID BREZHNEV REACTOR**

INIS: 1984-08-27; ETDE: 1994-08-10

(Prior to November 1982 known as ARKTIKA REACTOR.)

- UF arktika reactor  
 UF icebreaker arktika reactor  
 UF icebreaker leonid brezhnev reactor  
 UF nuclear ship arktika reactor  
 UF nuclear ship leonid brezhnev reactor  
 \*BT1 pwr type reactors  
 \*BT1 ship propulsion reactors  
 RT ns leonid brezhnev

**LEP STORAGE RINGS**

INIS: 1995-10-05; ETDE: 1977-11-10

European Large Electron-Positron storage rings.

- UF cern lep  
 BT1 storage rings  
 \*BT1 synchrotrons

**LEPIDOPTERA**

INIS: 1985-03-15; ETDE: 1981-06-16

- \*BT1 insects  
 NT1 moths  
 NT2 bollworm  
 NT2 codling moth  
 NT2 lymantria dispar  
 NT2 rice stem borers  
 NT2 silkworm

**LEPROSY**

- \*BT1 bacterial diseases  
 RT mycobacterium

**LEPTIN**

2003-02-10

- \*BT1 peptide hormones  
 \*BT1 polypeptides  
 RT adipose tissue  
 RT fat cells  
 RT fats

**LEPTON-BARYON INTERACTIONS**

1996-10-22

(Prior to March 1997 LEPTON-HYPERON INTERACTIONS was a valid ETDE descriptor.)

- UF lepton-hyperon interactions  
 \*BT1 lepton-hadron interactions  
 NT1 lepton-nucleon interactions  
 NT2 deep inelastic scattering  
 NT2 electron-nucleon interactions  
 NT3 electron-neutron interactions  
 NT3 electron-proton interactions  
 NT2 lepton-neutron interactions  
 NT3 antilepton-neutron interactions  
 NT4 antineutrino-neutron interactions  
 NT2 lepton-proton interactions  
 NT3 antilepton-proton interactions  
 NT4 antineutrino-proton interactions  
 NT2 muon-nucleon interactions  
 NT3 muon-neutron interactions  
 NT3 muon-proton interactions  
 NT2 neutrino-nucleon interactions  
 NT3 antineutrino-nucleon interactions

- NT4 antineutrino-neutron interactions
- NT4 antineutrino-proton interactions
- NT3 neutrino-neutron interactions
- NT4 antineutrino-neutron interactions
- NT3 neutrino-proton interactions
- NT4 antineutrino-proton interactions

**LEPTON BEAMS**

- \*BT1 particle beams
- NT1 electron beams
- NT1 muon beams
- NT1 neutrino beams
- NT2 antineutrino beams
- NT1 positron beams

**lepton-deuteron interactions**

- USE deuterium target
- USE lepton reactions

**LEPTON-HADRON INTERACTIONS**

- \*BT1 particle interactions
- NT1 lepton-baryon interactions
- NT2 lepton-nucleon interactions
- NT3 deep inelastic scattering
- NT3 electron-nucleon interactions
- NT4 electron-neutron interactions
- NT4 electron-proton interactions
- NT3 lepton-neutron interactions
- NT4 antilepton-neutron interactions
- NT5 antineutrino-neutron interactions
- NT3 lepton-proton interactions
- NT4 antilepton-proton interactions
- NT5 antineutrino-proton interactions
- NT3 muon-nucleon interactions
- NT4 muon-neutron interactions
- NT4 muon-proton interactions
- NT3 neutrino-nucleon interactions
- NT4 antineutrino-nucleon interactions
- NT5 antineutrino-neutron interactions
- NT5 antineutrino-proton interactions
- NT4 neutrino-neutron interactions
- NT5 antineutrino-neutron interactions
- NT4 neutrino-proton interactions
- NT5 antineutrino-proton interactions
- NT1 lepton-meson interactions
- NT2 electron-meson interactions
- NT3 electron-pion interactions
- NT2 muon-meson interactions
- NT2 neutrino-meson interactions
- RT electromagnetic interactions
- RT weak interactions

**lepton-hyperon interactions**

1996-10-22

(Until October 1996 this was a valid descriptor.)

- USE lepton-baryon interactions

**LEPTON-LEPTON INTERACTIONS**

- \*BT1 particle interactions
- NT1 electron-electron interactions
- NT1 electron-muon interactions
- NT1 electron-positron interactions
- NT1 muon-muon interactions
- NT1 neutrino-electron interactions
- NT2 antineutrino-electron interactions
- NT1 neutrino-muon interactions
- NT1 neutrino-neutrino interactions
- NT1 positron-positron interactions
- RT electromagnetic interactions
- RT weak interactions

**LEPTON-MESON INTERACTIONS**

- \*BT1 lepton-hadron interactions
- NT1 electron-meson interactions
- NT2 electron-pion interactions
- NT1 muon-meson interactions
- NT1 neutrino-meson interactions

**LEPTON-NEUTRON INTERACTIONS**

INIS: 1977-01-25; ETDE: 1977-04-13

- \*BT1 lepton-nucleon interactions
- NT1 antilepton-neutron interactions
- NT2 antineutrino-neutron interactions

**LEPTON-NUCLEON INTERACTIONS**

- \*BT1 lepton-baryon interactions
- NT1 deep inelastic scattering
- NT1 electron-nucleon interactions
- NT2 electron-neutron interactions
- NT2 electron-proton interactions
- NT1 lepton-neutron interactions
- NT2 antilepton-neutron interactions
- NT3 antineutrino-neutron interactions
- NT1 lepton-proton interactions
- NT2 antilepton-proton interactions
- NT3 antineutrino-proton interactions
- NT1 muon-nucleon interactions
- NT2 muon-neutron interactions
- NT2 muon-proton interactions
- NT1 neutrino-nucleon interactions
- NT2 antineutrino-nucleon interactions
- NT3 antineutrino-neutron interactions
- NT3 antineutrino-proton interactions
- NT2 neutrino-neutron interactions
- NT3 antineutrino-neutron interactions
- NT2 neutrino-proton interactions
- NT3 antineutrino-proton interactions

**LEPTON NUMBER**

- NT1 muon number
- RT gauge invariance
- RT leptons

**LEPTON-PROTON INTERACTIONS**

ETDE: 1975-09-11

- \*BT1 lepton-nucleon interactions
- NT1 antilepton-proton interactions
- NT2 antineutrino-proton interactions

**LEPTON REACTIONS**

- UF *lepton-deuteron interactions*
- BT1 nuclear reactions
- NT1 electron reactions
- NT2 electrofission
- NT1 muon reactions
- NT1 neutrino reactions
- NT1 positron reactions
- RT emc effect

**LEPTONIC DECAY***Weak decay in which all decay products are leptons with at least one being a neutrino.*

- \*BT1 weak interactions
- \*BT1 weak particle decay
- RT neutrinos
- RT semileptonic decay

**LEPTONS**

1996-07-18

(Prior to March 1997 FEINBERG-PAIS THEORY was a valid ETDE descriptor.)

- SF *feinberg-pais theory*
- SF *peratization procedure*
- BT1 elementary particles
- BT1 fermions
- NT1 antileptons
- NT2 antineutrinos
- NT3 electron antineutrinos
- NT3 muon antineutrinos
- NT2 muons plus

- NT2 positrons

NT3 cosmic positrons

- NT1 electrons
- NT2 cosmic electrons
- NT2 exoelectrons
- NT2 prompt electrons
- NT2 runaway electrons
- NT2 solar electrons
- NT2 solvated electrons
- NT2 tail electrons
- NT2 trapped electrons
- NT1 heavy leptons
- NT2 heavy neutral muons
- NT2 tau neutrinos
- NT2 tau particles
- NT1 muons
- NT2 cosmic muons
- NT2 muons minus
- NT2 muons plus
- NT1 neutrinos
- NT2 antineutrinos
- NT3 electron antineutrinos
- NT3 muon antineutrinos
- NT2 cosmic neutrinos
- NT2 electron neutrinos
- NT3 electron antineutrinos
- NT2 muon neutrinos
- NT3 muon antineutrinos
- NT2 solar neutrinos
- NT2 tau neutrinos
- RT lepton number
- RT preons
- RT semileptonic decay

**lermontovite**

1996-06-28

(Until June 1996 this was a valid descriptor.)

- USE phosphate minerals
- USE uranium minerals

**LESOTHO**

- BT1 africa
- BT1 developing countries

**LESSER ANTILLES**

INIS: 1992-06-04; ETDE: 1980-02-11

- \*BT1 west indies
- NT1 antigua and barbuda
- NT1 barbados
- NT1 grenada
- NT1 martinique
- NT1 netherlands antilles
- NT1 saint kitts and nevis
- NT1 trinidad and tobago
- NT1 virgin islands

**LET**

- UF *linear energy transfer*
- BT1 energy transfer
- RT biological repair
- RT bragg curve
- RT dose equivalents
- RT energy losses
- RT ionization
- RT microdosimetry
- RT oxygen enhancement ratio
- RT quality factor
- RT radiation quality
- RT rbe

**LETHAL DOSES**

INIS: 1986-03-04; ETDE: 1976-04-19

- UF *doses (lethal)*
- BT1 doses
- NT1 lethal radiation dose
- RT hazardous materials
- RT toxicity

**LETHAL GENES**

- BT1 genes
- RT lethal mutations

**LETHAL IRRADIATION**

BT1 irradiation  
 RT death  
 RT dose-response relationships  
 RT lethal radiation dose  
 RT mortality  
 RT radiation doses  
 RT sublethal irradiation  
 RT supralethal irradiation  
 RT survival curves  
 RT survival time

**LETHAL MUTATIONS**

UF lethals  
 BT1 mutations  
 RT lethal genes

**LETHAL RADIATION DOSE**

*Referring to a percentage kill, frequently with a time indication.*

UF ld 50  
 \*BT1 lethal doses  
 \*BT1 radiation doses  
 RT lethal irradiation  
 RT sublethal irradiation  
 RT supralethal irradiation

**lethals**

USE lethal mutations

**letters-of-credit**

INIS: 2000-04-12; ETDE: 1983-05-21  
 SEE financing

**LETTUCE**

\*BT1 magnoliopsida  
 \*BT1 vegetables

**LEUCINE**

UF aminoisocaproic acid-alpha  
 \*BT1 amino acids

**leucocytes**

USE leukocytes

**leucovorin**

INIS: 2000-04-12; ETDE: 1978-12-11  
 USE citrovorum factor

**LEUKEMIA**

\*BT1 immune system diseases  
 \*BT1 neoplasms  
 NT1 myeloid leukemia  
 RT bone marrow  
 RT leukemia viruses  
 RT leukemogenesis  
 RT leukocytes  
 RT lymphatic system  
 RT oncogenic viruses  
 RT splenomegaly  
 RT vinblastine

**LEUKEMIA VIRUSES**

INIS: 1977-09-06; ETDE: 1977-10-20  
 \*BT1 oncogenic viruses  
 RT experimental neoplasms  
 RT leukemia

**LEUKEMOGENESIS**

\*BT1 carcinogenesis  
 RT leukemia

**LEUKOCYTES**

UF granulocytes  
 UF leucocytes  
 SF leukocytin  
 \*BT1 blood cells  
 NT1 basophils  
 NT1 eosinophils  
 NT1 lymphocytes  
 NT1 monocytes  
 NT1 natural killer cells

NT1 neutrophils  
 RT aids  
 RT leukemia  
 RT leukopenia  
 RT leukopoiesis  
 RT phagocytes

**leukocytin**

2000-04-12

*Substance in blood that stimulates the formation of leukocytes.*

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE blood formation  
 SEE leukocytes

**LEUKOPENIA**

\*BT1 hemic diseases  
 \*BT1 immune system diseases  
 BT1 symptoms  
 NT1 lymphopenia  
 RT leukocytes  
 RT pathological changes

**LEUKOPOIESIS**

UF lymphopoiesis  
 BT1 blood formation  
 RT immune system diseases  
 RT leukocytes

**level density**

USE energy-level density

**LEVEL INDICATORS**

BT1 measuring instruments  
 RT radiometric gages

**LEVEL MIXING RESONANCE**

INIS: 1986-08-19; ETDE: 1989-09-18

*A resonant method which measures nuclear electric quadrupole and magnetic dipole interactions.*

BT1 resonance  
 RT nuclear magnetic resonance  
 RT nuclear quadrupole resonance

**level schemes**

USE energy levels

**LEVEL WIDTHS**

RT energy-level density  
 RT energy levels  
 RT lifetime  
 RT line widths  
 RT porter-thomas distribution

**LEVELS**

1996-08-05

*Limited to vertical distance; see also ENERGY LEVELS.*

UF elevation  
 NT1 ground level  
 NT1 sea level  
 NT1 underground  
 NT1 underwater  
 RT altitude  
 RT height

**LEVINGER-BETHE THEORY**

UF levinger method  
 RT nucleons  
 RT photoproduction

**levinger method**

USE levinger-bethe theory

**LEVINSON THEOREM**

RT quantum mechanics  
 RT scattering

**LEVITATED TRAINS**

INIS: 2000-04-12; ETDE: 1975-11-11

UF magnetic levitated trains

\*BT1 trains  
 RT levitation  
 RT railways

**LEVITATION**

RT levitated trains  
 RT magnetic fields

**LEVITRON DEVICES**

\*BT1 internal ring devices

**LEVULINIC ACID**

UF acetylpropionic acid-beta  
 UF ketovaleric acid-gamma  
 \*BT1 keto acids

**levulose**

USE fructose

**levy-klein potential**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE potentials

**levy potential**

1996-06-28

(Prior to July 1996 LEVY-KLEIN POTENTIAL was a valid ETDE descriptor.)

USE potentials

**LEWIS ACIDS**

1994-06-27

*Substances that can accept an electron pair.*

\*BT1 inorganic acids  
 RT broensted acids  
 RT lewis bases

**LEWIS BASES**

1994-06-27

*Substances that can donate an electron pair.*

BT1 bases  
 RT lewis acids

**lewis effect**

USE lewis peak

**LEWIS PEAK**

UF lewis effect  
 RT nuclear reactions

**LEWIS RIVER**

INIS: 2000-04-12; ETDE: 1981-05-18

\*BT1 rivers  
 RT hydroelectric power plants  
 RT washington

**leyden event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**LFR REACTOR**

*Stichting Energieonderzoek Centrum Nederland, Petten, Netherlands.*

UF lage flux reaktor petten  
 UF low flux reactor petten  
 UF petten low flux reactor  
 \*BT1 argonaut type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**lh (luteinizing hormone)**

ETDE: 2005-01-28

(Prior to January 2005 LH was a valid descriptor.)

USE luteinizing hormone

**LH-RH**

*LH-Releasing Hormone.*

\*BT1 liberins  
 RT luteinizing hormone

**LHD DEVICE**

INIS: 1998-09-23; ETDE: 1998-07-16  
 Large Helical Device, National Institute for  
 Fusion Sciences, Nagoya, Japan.

- \*BT1 closed plasma devices
- RT heliotron
- RT torsatron stellarators

**lhr heating**

INIS: 1984-04-04; ETDE: 2002-03-28  
 Lower hybrid resonance heating.  
 USE lower hybrid heating

**LI-DRIFTED DETECTORS**

- \*BT1 semiconductor detectors
- NT1 li-drifted ge detectors
- NT1 li-drifted junction detectors
- NT1 li-drifted si detectors

**LI-DRIFTED GE DETECTORS**

- UF ge(li) detectors
- \*BT1 ge semiconductor detectors
- \*BT1 li-drifted detectors

**LI-DRIFTED JUNCTION DETECTORS**

- \*BT1 junction detectors
- \*BT1 li-drifted detectors

**LI-DRIFTED SI DETECTORS**

- UF si(li) detectors
- \*BT1 li-drifted detectors
- \*BT1 si semiconductor detectors

**LIABILITIES**

- UF absolute liability
- UF accountability (legal)
- UF contractual liability
- UF cumulative liability
- UF exclusive liability
- UF fault liability
- UF joint liability
- UF state liability
- SF accountability
- NT1 civil liability
- NT1 nuclear liability
- RT accidents
- RT bcolons
- RT exceptional natural disaster
- RT financial security
- RT hazards
- RT indemnification agreements
- RT insurance
- RT joint ventures
- RT legal aspects
- RT liability exclusions
- RT liability limitations
- RT pcotpl
- RT time limitations
- RT victims compensation

**liability conv maritime carriage nuclear materials**

2000-04-12  
 USE bcoclmcm

**liability conv nuclear damage, vienna**

2000-04-12  
 USE vcoclnd

**liability conv on third party, brussels**

2000-04-12  
 USE bestpc

**liability conv on third party, paris**

2000-04-12  
 USE pcotpl

**liability convention on operation of nuclear ships**

ETDE: 2002-03-27  
 USE bcolons

**LIABILITY EXCLUSIONS**

INIS: 1976-12-08; ETDE: 1994-08-10  
 When under an international convention or national law the nuclear operator is not liable for the damage caused.  
 UF exclusions (liability)  
 RT liabilities  
 RT nuclear liability

**LIABILITY LIMITATIONS**

INIS: 1976-12-08; ETDE: 1994-08-10  
 When under an international convention or national law the liability of the nuclear operator for the damage caused is limited.  
 UF limitations (liability)  
 RT liabilities  
 RT nuclear liability  
 RT time limitations

**liapunov method**

INIS: 1976-09-06; ETDE: 1976-11-01  
 USE lyapunov method

**LIBERIA**

- BT1 africa
- BT1 developing countries

**LIBERINS**

INIS: 1983-02-03; ETDE: 1983-03-07  
 UF releasing factors  
 UF releasing hormones  
 \*BT1 pituitary hormones  
 NT1 lh-rh

**LIBRARIES**

INIS: 1994-08-26; ETDE: 1975-11-28  
 RT buildings  
 RT data compilation  
 RT educational facilities  
 RT information  
 RT information centers  
 RT information systems  
 RT nuclear data collections  
 RT public buildings

**libya**

1997-01-06  
 (Until January 1997 this was a valid descriptor.)  
 USE libyan arab jamahiriya

**LIBYAN ARAB JAMAHIRIYA**

INIS: 1997-01-06; ETDE: 1996-12-24  
 (Until January 1997 this concept was indexed to LIBYA.)  
 UF libya  
 BT1 africa  
 BT1 arab countries  
 BT1 developing countries  
 RT oapec  
 RT opec

**libyan irt-1 reactor**

2005-01-24  
 USE irt-1 libya reactor

**LICADO PROCESS**

INIS: 2000-04-12; ETDE: 1986-04-29  
 Use of liquid carbon dioxide as a non-aqueous medium for cleaning ultrafine coal.  
 BT1 coal preparation  
 BT1 separation processes

**LICENSE APPLICATIONS**

INIS: 1996-02-12; ETDE: 1980-08-25  
 UF permit applications  
 BT1 administrative procedures

RT licenses

**LICENSES**

UF commercial licenses  
 UF handling licenses  
 UF permits  
 UF research licenses  
 NT1 construction permits  
 NT1 operating licenses  
 RT legal aspects  
 RT license applications  
 RT licensing procedures  
 RT licensing regulations  
 RT property rights  
 RT site approvals

**LICENSING**

NT1 reactor licensing  
 RT audits  
 RT certification  
 RT inspection  
 RT legal aspects  
 RT patents  
 RT quality assurance  
 RT radiation protection  
 RT recommendations  
 RT regulations  
 RT safety standards  
 RT site selection

**LICENSING PROCEDURES**

INIS: 1976-12-08; ETDE: 1992-08-17  
 (Prior to August 1992 this concept in ETDE was indexed to LICENSE APPLICATIONS.)  
 BT1 administrative procedures  
 RT hearings  
 RT licenses  
 RT operating licenses

**LICENSING REGULATIONS**

INIS: 1976-12-08; ETDE: 1992-10-13  
 \*BT1 regulations  
 RT licenses  
 RT operating licenses  
 RT retrofitting  
 RT risk assessment  
 RT safety analysis  
 RT safety reports

**LICHENS**

- \*BT1 algae
- \*BT1 eumycota

**LICHTENBERG ALLOY**

2000-04-12  
 \*BT1 bismuth base alloys  
 \*BT1 lead alloys  
 \*BT1 tin alloys

**LICHTENBERG FIGURES**

RT breakdown  
 RT corona discharges  
 RT dielectric materials

**lichtenberg process**

2000-04-12  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 USE coal gasification

**lidar**

INIS: 1992-04-13; ETDE: 1979-01-30  
 USE optical radar

**LIDO REACTOR**

UF ukaea-lido reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors



**LIE GROUPS**

- BT1 symmetry groups
- NT1 conformal groups
- NT1 de sitter group
- NT1 graded lie groups
- NT1 o groups
- NT1 poincare groups
- NT2 lorentz groups
- NT1 sl groups
- NT1 so groups
- NT2 so-10 groups
- NT2 so-12 groups
- NT2 so-2 groups
- NT2 so-3 groups
- NT2 so-4 groups
- NT2 so-5 groups
- NT2 so-6 groups
- NT2 so-8 groups
- NT1 sp groups
- NT1 su groups
- NT2 su-2 groups
- NT2 su-3 groups
- NT2 su-4 groups
- NT2 su-5 groups
- NT2 su-6 groups
- NT2 su-7 groups
- NT2 su-8 groups
- NT2 su-9 groups
- NT1 sw groups
- NT1 u groups
- NT2 u-1 groups
- NT2 u-12 groups
- NT2 u-2 groups
- NT2 u-3 groups
- NT2 u-4 groups
- NT2 u-5 groups
- NT2 u-6 groups
- RT lattice field theory

**lie superalgebra**

- INIS: 1978-11-24; ETDE: 1978-12-20
- USE graded lie groups

**liebigite**

- 1996-06-28
- (Until June 1996 this was a valid descriptor.)
- USE carbonate minerals
- USE uranium minerals

**life (service)**

- INIS: 2000-04-12; ETDE: 1976-08-05
- USE service life

**LIFE CYCLE**

- RT adolescents
- RT adults
- RT age groups
- RT aged adults
- RT children
- RT elderly people
- RT growth
- RT infants
- RT life span
- RT ova
- RT pregnancy
- RT pupae
- RT reproduction
- RT ripening
- RT viability

**LIFE CYCLE ASSESSMENT**

- INIS: 2001-03-27; ETDE: 2001-04-30
- SF energy content
- RT energy consumption
- RT environmental impacts
- RT environmental policy
- RT life-cycle cost
- RT resource conservation

**LIFE-CYCLE COST**

- INIS: 1992-04-14; ETDE: 1976-04-19
- The estimated total cost of a system during its entire service life.

- BT1 cost
- RT cost benefit analysis
- RT cost estimation
- RT economics
- RT external cost
- RT life cycle assessment
- RT payback period
- RT service life

**life shortening**

- USE life span

**LIFE SPAN**

- UF life shortening
- RT age dependence
- RT death
- RT dose commitments
- RT life cycle
- RT mortality

**life styles**

- INIS: 2000-04-12; ETDE: 1978-11-14
- The manners in which the daily lives of individuals or, more generally, communities and the types of values reflected by this organization, are organized.
- (Prior to March 1997 this was a valid ETDE descriptor.)
- SEE behavior
- SEE leisure time activities
- SEE socio-economic factors

**LIFE SUPPORT SYSTEMS**

- INIS: 1999-08-04; ETDE: 1979-05-02
- Systems providing atmospheric control and monitoring.
- RT decontamination
- RT diving operations
- RT miners
- RT protective clothing
- RT respirators

**LIFETIME**

- UF mean life
- NT1 carrier lifetime
- NT1 service life
- NT2 lifetime extension
- RT charge plunger method
- RT days living radioisotopes
- RT decay
- RT dsa method
- RT half-life
- RT hours living radioisotopes
- RT level widths
- RT microseconds living radioisotopes
- RT milliseconds living radioisotopes
- RT minutes living radioisotopes
- RT nanoseconds living radioisotopes
- RT particle properties
- RT particle widths
- RT seconds living radioisotopes
- RT storage life
- RT years living radioisotopes

**LIFETIME EXTENSION**

- INIS: 2004-11-26; ETDE: 2004-12-01
- \*BT1 service life
- RT reactor licensing
- RT reactor operation

**LIFT CYCLES**

- INIS: 2000-04-12; ETDE: 1980-08-12
- Open power cycles that use lift processes to increase the potential energy of transported water which turns a hydraulic turbine for power generation.
- UF foam-lift cycles

- UF otec foam-lift cycle
- UF otec lift cycles
- SF beck cycle
- BT1 thermodynamic cycles
- NT1 mist-lift cycles
- RT ocean thermal power plants
- RT open-cycle systems

**lifts**

- 2006-09-25
- USE elevators

**LIGAMENTS**

- \*BT1 connective tissue

**ligand exchange**

- INIS: 1984-04-04; ETDE: 2002-03-28
- USE ion exchange
- USE ligands

**LIGANDS**

- UF ligand exchange
- RT complexes
- RT coordination number
- RT crown ethers
- RT ligases
- RT stereochemistry

**LIGASES**

- Code number 6.
- UF synthetases
- \*BT1 enzymes
- RT biosynthesis
- RT complexes
- RT ligands

**light**

- USE visible radiation

**light (zodiacal)**

- USE zodiacal light

**LIGHT BULB REACTORS**

- \*BT1 gas fueled reactors

**LIGHT BULBS**

- INIS: 2000-04-12; ETDE: 1977-07-23
- UF incandescent lamps
- UF lamps
- NT1 fluorescent lamps
- RT lighting systems

**LIGHT CONE**

- BT1 space-time
- RT cherenkov radiation
- RT minkowski space
- RT relativity theory

**LIGHT EMITTING DIODES**

- UF led (light emitting diodes)
- \*BT1 semiconductor diodes

**light guides**

- INIS: 2000-04-12; ETDE: 1982-03-29
- USE optical fibers

**LIGHT IONS**

- INIS: 1977-09-15; ETDE: 1977-11-10
- Whenever appropriate use one of the specific terms listed under ION BEAMS.
- \*BT1 ions
- RT ion beams
- RT ion detection
- RT multicharged ions

**LIGHT NUCLEI**

- For nuclei with mass 1-40.
- BT1 nuclei
- NT1 aluminium 22
- NT1 aluminium 23
- NT1 aluminium 24
- NT1 aluminium 25
- NT1 aluminium 26

NT1	aluminium 27	NT1	fluorine 15	NT1	neon 32
NT1	aluminium 28	NT1	fluorine 16	NT1	nitrogen 11
NT1	aluminium 29	NT1	fluorine 17	NT1	nitrogen 12
NT1	aluminium 30	NT1	fluorine 18	NT1	nitrogen 13
NT1	aluminium 31	NT1	fluorine 19	NT1	nitrogen 14
NT1	aluminium 32	NT1	fluorine 20	NT1	nitrogen 15
NT1	aluminium 33	NT1	fluorine 21	NT1	nitrogen 16
NT1	aluminium 34	NT1	fluorine 22	NT1	nitrogen 17
NT1	aluminium 35	NT1	fluorine 23	NT1	nitrogen 18
NT1	aluminium 36	NT1	fluorine 24	NT1	nitrogen 19
NT1	aluminium 37	NT1	fluorine 25	NT1	nitrogen 20
NT1	aluminium 38	NT1	fluorine 26	NT1	nitrogen 21
NT1	aluminium 39	NT1	fluorine 27	NT1	nitrogen 22
NT1	aluminium 40	NT1	fluorine 29	NT1	nitrogen 23
NT1	argon 31	NT1	helium 10	NT1	oxygen 12
NT1	argon 32	NT1	helium 2	NT1	oxygen 13
NT1	argon 33	NT1	helium 3	NT1	oxygen 14
NT1	argon 34	NT2	helium 3 a	NT1	oxygen 15
NT1	argon 35	NT2	helium 3 a1	NT1	oxygen 16
NT1	argon 36	NT2	helium 3 b	NT1	oxygen 17
NT1	argon 37	NT1	helium 4	NT1	oxygen 18
NT1	argon 38	NT2	helium i	NT1	oxygen 19
NT1	argon 39	NT2	helium ii	NT1	oxygen 20
NT1	argon 40	NT1	helium 5	NT1	oxygen 21
NT1	beryllium 10	NT1	helium 6	NT1	oxygen 22
NT1	beryllium 11	NT1	helium 7	NT1	oxygen 23
NT1	beryllium 12	NT1	helium 8	NT1	oxygen 24
NT1	beryllium 13	NT1	helium 9	NT1	oxygen 28
NT1	beryllium 14	NT1	hydrogen 1	NT1	phosphorus 21
NT1	beryllium 5	NT1	hydrogen 4	NT1	phosphorus 24
NT1	beryllium 6	NT1	hydrogen 5	NT1	phosphorus 25
NT1	beryllium 7	NT1	hydrogen 6	NT1	phosphorus 26
NT1	beryllium 8	NT1	hydrogen 7	NT1	phosphorus 27
NT1	beryllium 9	NT1	lithium 10	NT1	phosphorus 28
NT1	boron 10	NT1	lithium 11	NT1	phosphorus 29
NT1	boron 11	NT1	lithium 12	NT1	phosphorus 30
NT1	boron 12	NT1	lithium 13	NT1	phosphorus 31
NT1	boron 13	NT1	lithium 3	NT1	phosphorus 32
NT1	boron 14	NT1	lithium 4	NT1	phosphorus 33
NT1	boron 15	NT1	lithium 5	NT1	phosphorus 34
NT1	boron 16	NT1	lithium 6	NT1	phosphorus 35
NT1	boron 17	NT1	lithium 7	NT1	phosphorus 36
NT1	boron 18	NT1	lithium 8	NT1	phosphorus 37
NT1	boron 19	NT1	lithium 9	NT1	phosphorus 38
NT1	boron 7	NT1	magnesium 19	NT1	phosphorus 39
NT1	boron 8	NT1	magnesium 20	NT1	phosphorus 40
NT1	boron 9	NT1	magnesium 21	NT1	potassium 35
NT1	calcium 35	NT1	magnesium 22	NT1	potassium 36
NT1	calcium 36	NT1	magnesium 23	NT1	potassium 37
NT1	calcium 37	NT1	magnesium 24	NT1	potassium 38
NT1	calcium 38	NT1	magnesium 25	NT1	potassium 39
NT1	calcium 39	NT1	magnesium 26	NT1	potassium 40
NT1	calcium 40	NT1	magnesium 27	NT1	scandium 39
NT1	carbon 10	NT1	magnesium 28	NT1	scandium 40
NT1	carbon 11	NT1	magnesium 29	NT1	silicon 22
NT1	carbon 12	NT1	magnesium 30	NT1	silicon 23
NT1	carbon 13	NT1	magnesium 31	NT1	silicon 24
NT1	carbon 14	NT1	magnesium 32	NT1	silicon 25
NT1	carbon 15	NT1	magnesium 33	NT1	silicon 26
NT1	carbon 16	NT1	magnesium 34	NT1	silicon 27
NT1	carbon 17	NT1	magnesium 35	NT1	silicon 28
NT1	carbon 18	NT1	magnesium 36	NT1	silicon 29
NT1	carbon 19	NT1	magnesium 39	NT1	silicon 30
NT1	carbon 20	NT1	magnesium 40	NT1	silicon 31
NT1	carbon 22	NT1	neon 16	NT1	silicon 32
NT1	carbon 8	NT1	neon 17	NT1	silicon 33
NT1	carbon 9	NT1	neon 18	NT1	silicon 34
NT1	chlorine 31	NT1	neon 19	NT1	silicon 35
NT1	chlorine 32	NT1	neon 20	NT1	silicon 36
NT1	chlorine 33	NT1	neon 21	NT1	silicon 37
NT1	chlorine 34	NT1	neon 22	NT1	silicon 38
NT1	chlorine 35	NT1	neon 23	NT1	silicon 39
NT1	chlorine 36	NT1	neon 24	NT1	silicon 40
NT1	chlorine 37	NT1	neon 25	NT1	sodium 19
NT1	chlorine 38	NT1	neon 26	NT1	sodium 20
NT1	chlorine 39	NT1	neon 27	NT1	sodium 21
NT1	chlorine 40	NT1	neon 28	NT1	sodium 22
NT1	deuterium	NT1	neon 29	NT1	sodium 23
NT1	fluorine 14	NT1	neon 30	NT1	sodium 24

NT1 sodium 25  
 NT1 sodium 26  
 NT1 sodium 27  
 NT1 sodium 28  
 NT1 sodium 29  
 NT1 sodium 30  
 NT1 sodium 31  
 NT1 sodium 32  
 NT1 sodium 33  
 NT1 sodium 34  
 NT1 sodium 35  
 NT1 sulfur 24  
 NT1 sulfur 27  
 NT1 sulfur 28  
 NT1 sulfur 29  
 NT1 sulfur 30  
 NT1 sulfur 31  
 NT1 sulfur 32  
 NT1 sulfur 33  
 NT1 sulfur 34  
 NT1 sulfur 35  
 NT1 sulfur 36  
 NT1 sulfur 37  
 NT1 sulfur 38  
 NT1 sulfur 39  
 NT1 sulfur 40  
 NT1 titanium 39  
 NT1 titanium 40  
 NT1 tritium  
 RT nuclear structure

**LIGHT PIPES**

RT scintillation counters

**LIGHT SCATTERING**

1994-07-01

BT1 scattering  
 RT diffuse solar radiation  
 RT optical properties  
 RT visible radiation

**LIGHT SOURCES**

BT1 radiation sources  
 RT advanced light source  
 RT advanced photon source  
 RT lasers  
 RT nsls  
 RT photon beams  
 RT pohang light source  
 RT swiss light source  
 RT synchrotron radiation sources  
 RT visible radiation

**LIGHT TRANSMISSION**

1992-03-30

BT1 transmission  
 RT fiber optics  
 RT opacity  
 RT optical properties

**light water cooled reactors**

INIS: 2000-04-12; ETDE: 1979-12-17

USE water cooled reactors

**light water moderated reactors**

INIS: 2000-04-12; ETDE: 1979-12-17

USE water moderated reactors

**lighter-than-air craft**

INIS: 2000-04-12; ETDE: 1980-01-15

(Prior to March 1996 AIRSHIPS was used for this concept in ETDE.)

USE aircraft

**LIGHTERING**

INIS: 2000-04-12; ETDE: 1979-08-08

Transhipment of petroleum from VLCC to second vessel in order to reduce VLCC draft so that she can enter harbor.

BT1 materials handling  
 RT petroleum

RT tanker ships  
 RT transport

**LIGHTING LOADS**

INIS: 2000-04-12; ETDE: 1981-05-18

RT lighting systems

**LIGHTING REQUIREMENTS**

INIS: 2006-03-03; ETDE: 2006-02-24

BT1 demand  
 RT brightness  
 RT daylighting  
 RT illuminance  
 RT lighting systems  
 RT visible radiation

**LIGHTING SYSTEMS**

1986-03-04

UF illumination systems  
 BT1 energy systems  
 RT ballasts  
 RT daylighting  
 RT electrical equipment  
 RT fluorescent lamps  
 RT illuminance  
 RT light bulbs  
 RT lighting loads  
 RT lighting requirements  
 RT optical systems  
 RT remote viewing equipment  
 RT skylights  
 RT visible radiation

**LIGHTNING**

BT1 electric discharges  
 NT1 ball lightning  
 RT storms  
 RT whistlers

**LIGHTNING ARRESTERS**

\*BT1 electrical equipment  
 RT circuit breakers

**lightwood**

INIS: 2000-04-12; ETDE: 1980-10-28

*A coniferous wood containing oleoresins or other volatile flammable substances.*

(Prior to January 1995, this was a valid ETDE descriptor.)

USE wood

**LIGNIN**

\*BT1 polysaccharides  
 RT bark  
 RT biomass  
 RT delignification  
 RT glycosides  
 RT hemicellulose  
 RT polyacetals  
 RT wood  
 RT xylans

**LIGNITE**

SF soft coal  
 \*BT1 brown coal  
 RT subbituminous coal

**LIGROIN**

INIS: 2000-04-12; ETDE: 1975-12-16

*Any of several petroleum naphtha fractions boiling usually in the range 20 to 135 degrees C consisting chiefly of pentanes and hexanes.*

UF benzene  
 UF petroleum ether  
 \*BT1 naphtha  
 BT1 petroleum products

**LILIOPSIDA**

INIS: 1996-07-08; ETDE: 1988-12-20

(Prior to August 1996 TRILLIUM was a valid ETDE descriptor.)

UF monocotyledons

UF trillium  
 \*BT1 magnoliophyta  
 NT1 allium sativum  
 NT1 aloe  
 NT1 banana plants  
 NT1 buckwheat  
 NT1 cattails  
 NT1 coconut palms  
 NT1 gramineae  
 NT2 bamboo  
 NT2 cereals  
 NT3 barley  
 NT3 maize  
 NT3 millet  
 NT3 oats  
 NT3 rice  
 NT3 rye  
 NT3 sorghum  
 NT3 wheat  
 NT2 reeds  
 NT3 sugar cane  
 NT1 liliium  
 NT1 oil palms  
 NT1 onions  
 NT2 allium cepa  
 NT1 tradescantia  
 NT1 water hyacinths

**LILIUM**

\*BT1 liliopsida

**LIMBS**

1999-04-06

BT1 body  
 NT1 arms  
 NT2 hands  
 NT3 fingers  
 NT1 legs  
 NT2 feet  
 RT muscles  
 RT skeleton

**LIME-LIMESTONE WET SCRUBBING PROCESSES**

INIS: 1992-08-24; ETDE: 1977-04-12

*Any processes for desulfurization of stack gases using a slurry of calcium oxide or calcium carbonate to absorb sulfur dioxide in a wet scrubber.*

UF jecco process  
 UF sf nateko process  
 \*BT1 desulfurization  
 BT1 scrubbing  
 NT1 bischoff process  
 RT waste processing

**LIME-SODA SINTER PROCESS**

INIS: 2000-04-12; ETDE: 1981-03-17

*A high temperature method for extracting aluminium from fly ash while also producing a by-product used in the manufacture of Portland cement.*

\*BT1 waste processing  
 RT aluminium  
 RT fly ash  
 RT materials recovery  
 RT portland cement

**LIMERICK-1 REACTOR**

Exelon Generation Co., LLC, Limerick, Pennsylvania, USA.

UF philadelphia electric power reactor-1  
 \*BT1 bwr type reactors

**LIMERICK-2 REACTOR**

Exelon Generation Co., LLC, Limerick, Pennsylvania, USA.

UF philadelphia electric power reactor-2  
 \*BT1 bwr type reactors

**LIMESTONE**

- UF chalks
- UF dolomite rock
- \*BT1 carbonate rocks
- NT1 travertine
- RT calcite
- RT calcium carbonates
- RT dolomite
- RT magnesium carbonates

**limestone dual alkali desulfurization process**

- INIS: 2000-04-12; ETDE: 1982-12-01
- USE cea-adi dual alkali process

**LIMING**

- INIS: 1992-03-18; ETDE: 1984-02-10
- The addition of limestone or its oxidized derivatives to soil or water as a means of modifying pH.
- RT calcium carbonates
- RT calcium oxides
- RT land reclamation
- RT ph value
- RT pollution
- RT pollution control
- RT soil chemistry
- RT soils
- RT water

**LIMIT CYCLE**

- 1994-02-28
- A periodic solution of a dynamical problem towards which all other solution curves tend, in some domain of attraction.

- BT1 attractors
- RT chemical reaction kinetics
- RT differential equations
- RT dynamics
- RT equations of motion
- RT hamiltonian function
- RT lyapunov method
- RT non-equilibrium plasma
- RT nonlinear problems
- RT orbits
- RT phase space
- RT trajectories

**limitations (liability)**

- INIS: 1976-12-08; ETDE: 2002-03-28
- USE liability limitations

**LIMITER CIRCUITS**

- BT1 electronic circuits

**LIMITERS**

- UF diaphragms (thermonuclear device)
- UF insulating limiters
- NT1 pumped limiters
- RT pinch devices
- RT pinch effect
- RT plasma confinement
- RT plasma diagnostics
- RT plasma impurities
- RT thermonuclear devices

**LIMITING FRAGMENTATION**

- UF cumulative effect
- UF fragmentation (limiting)
- BT1 hypothesis
- RT asymptotic solutions
- RT inclusive interactions
- RT laboratory system
- RT lorentz transformations
- RT multiple production
- RT particle models

**LIMITING VALUES**

Upper and/or lower bounds on a physical property determined theoretically or experimentally.

- SF constraints
- RT nuclear properties
- RT particle properties
- RT thermodynamic properties

**limnanthes alba**

- INIS: 1991-12-16; ETDE: 1982-03-11
- USE meadow foam

**LIMNOLOGY**

The physical, chemical, meteorological, and esp. the biological and ecological conditions in inland waters.

- RT acid neutralizing capacity
- RT aquatic ecosystems
- RT eutrophication
- RT fresh water
- RT hydrosphere
- RT oceanography
- RT sediment-water interfaces
- RT sedimentary basins

**LIMONITE**

- \*BT1 iron ores
- \*BT1 oxide minerals
- RT goethite
- RT hematite
- RT iron oxides

**linacs**

- USE linear accelerators

**LINDANE**

- INIS: 1976-05-07; ETDE: 1976-08-04
- UF gamma benzene hexachloride
- UF gamma hexachlorohexane
- \*BT1 chlorinated alicyclic hydrocarbons
- \*BT1 insecticides

**LINE BROADENING**

- UF broadening (line)
- UF spectral broadening
- NT1 doppler broadening
- RT line narrowing
- RT line widths
- RT line width
- RT optical depth curve
- RT spectra
- RT spectroscopic curve of growth
- RT stark effect

**LINE DEFECTS**

- \*BT1 crystal defects
- NT1 crowdions
- NT1 dislocations
- NT2 edge dislocations
- NT2 screw dislocations

**line losses**

- INIS: 2000-04-12; ETDE: 1979-01-30
- The various energy losses occurring in a transmission line.
- (Prior to March 1997 this was a valid ETDE descriptor.)

- USE power losses
- USE power transmission lines

**LINE NARROWING**

- INIS: 1976-07-16; ETDE: 1976-09-15
- UF spectral narrowing
- RT line broadening
- RT line widths
- RT spectra

**LINE WIDTHS**

- RT level widths
- RT line broadening
- RT line narrowing
- RT spectra

**lineaments**

- INIS: 2000-04-12; ETDE: 1984-12-10
- Linear topographic features that reveal a characteristic, as a fault or the subsurface structure.
- (Prior to March 1997 this was a valid ETDE descriptor.)
- USE geologic structures

**LINEAR ABSORPTION MODELS**

- 1976-02-11
- Models satisfying operator equation  $a = rs$ , where  $a$  is the physical scattering amplitude,  $r$  is the product of the input regge pole amplitude, and  $s$  is a rescattering factor; and the scalar equation for partial wave projections  $a(b) = r(b)s(b)$ , where  $b = (j + 1/2)/k$  is the impact parameter.
- UF absorption model
- UF absorption models (linear)
- UF models (linear absorption)
- \*BT1 particle models
- RT partial waves
- RT regge poles
- RT scattering amplitudes

**LINEAR ACCELERATORS**

- 1996-08-06
- (HELAC, ING LINAC, MINNESOTA UNIV LINAC, and ZERAN LINAC have been valid ETDE descriptors.)

- UF helac
- UF ing linac
- UF intense neutron generator linac
- UF linacs
- UF minnesota univ linac
- UF zeran linac
- BT1 accelerators
- NT1 anu superconducting linac
- NT1 beat wave accelerators
- NT1 beijing electron-positron collider
- NT1 beijing proton linac
- NT1 brookhaven 200-mev linac
- NT1 cebaf accelerator
- NT1 cern linac
- NT1 fmit linac
- NT1 frascati linac
- NT1 hilacs
  - NT2 atlas superconducting linac
  - NT2 superhilac
- NT1 jaeri linac
- NT1 kek linac
- NT1 kharkov linac
- NT1 lampf linac
- NT1 linear colliders
  - NT2 stanford linear collider
  - NT2 tesla linear collider
- NT1 llnl advanced test accelerator
- NT1 mea linac
- NT1 mit bates linac
- NT1 nrl linac
- NT1 orela
- NT1 orsay linac
- NT1 quadrupole linacs
- NT1 rilac
- NT1 saclay linac
- NT1 stanford 1.2-gev linac
- NT1 stanford 20-gev linac
- NT1 swierk linac
- NT1 unilac
- NT1 wakefield accelerators
- RT drift tubes
- RT kek photon factory
- RT neutron source facilities
- RT pigmi facilities

**LINEAR COLLIDERS**

- INIS: 1993-08-02; ETDE: 1987-12-15
- \*BT1 linear accelerators
- NT1 stanford linear collider

**NT1** tesla linear collider  
**RT** colliding beams

**linear combination of atomic orbitals**  
 1993-11-09  
**USE** lcao method

**linear energy transfer**  
**USE** let

**LINEAR HARD CORE PINCH DEVICES**  
**UF** inverse pinch devices (linear)  
**UF** tubular pinch devices (linear)  
**UF** unpinch devices  
**\*BT1** linear pinch devices  
**RT** hard core pinch

**LINEAR MOMENTUM**  
**UF** impulse (linear momentum)  
**UF** momentum (linear)  
**NT1** longitudinal momentum  
**NT1** transverse momentum  
**RT** angular momentum  
**RT** dalitz plot  
**RT** energy-momentum tensor  
**RT** kinetic energy  
**RT** linear momentum operators  
**RT** linear momentum resolution  
**RT** mass  
**RT** motion  
**RT** prism plot  
**RT** velocity

**LINEAR MOMENTUM OPERATORS**  
**\*BT1** quantum operators  
**RT** linear momentum

**LINEAR MOMENTUM RESOLUTION**  
**BT1** resolution  
**RT** linear momentum

**LINEAR MOMENTUM TRANSFER**  
**UF** transfer (linear momentum)  
**BT1** momentum transfer  
**RT** energy transfer  
**RT** four momentum transfer  
**RT** straight-line path approximation

**LINEAR PINCH DEVICES**  
 1996-06-28  
 (Prior to July 1996 MEGATRON was a valid ETDE descriptor.)  
**UF** megatron  
**\*BT1** open plasma devices  
**\*BT1** pinch devices  
**NT1** linear hard core pinch devices  
**NT1** linear screw pinch devices  
**NT1** linear theta pinch devices  
**NT2** isar devices  
**NT2** scylla devices  
**NT1** linear z pinch devices  
**RT** linear pinch type reactors

**LINEAR PINCH TYPE REACTORS**  
 INIS: 2000-04-12; ETDE: 1976-09-15  
**BT1** thermonuclear reactors  
**RT** linear pinch devices

**LINEAR PROGRAMMING**  
 1999-08-13  
 Optimization of operations or procedures in terms of maximized, or minimized, functions of many variables subject to constraints.  
**BT1** calculation methods  
**RT** dynamic programming  
**RT** econometrics  
**RT** mathematical models  
**RT** nonlinear programming  
**RT** optimization

**LINEAR RATEMETERS**  
**\*BT1** counting ratemeters

**LINEAR SCREW PINCH DEVICES**  
**UF** combined pinch devices (linear)  
**\*BT1** linear pinch devices  
**RT** screw pinch

**linear-segmented array collector**  
 INIS: 2000-04-12; ETDE: 1978-10-25  
**USE** slat type collectors

**LINEAR THETA PINCH DEVICES**  
 1996-07-18  
**UF** azimuthal pinch devices (linear)  
**UF** bsg devices  
**UF** orthogonal pinch devices (linear)  
**UF** piace devices  
**\*BT1** linear pinch devices  
**NT1** isar devices  
**NT1** scylla devices  
**RT** theta pinch

**LINEAR Z PINCH DEVICES**  
**UF** longitudinal pinch devices (linear)  
**UF** z pinch devices (linear)  
**\*BT1** linear pinch devices  
**RT** longitudinal pinch

**LINERS**  
 1977-11-21  
**UF** linings  
**RT** containers  
**RT** lining processes  
**RT** linus reactors  
**RT** seals  
**RT** shells  
**RT** surface coating  
**RT** tanks

**LINGAO-1 REACTOR**  
 2000-05-17  
 Shenzhen, Guangdong, China.  
**\*BT1** pwr type reactors

**LINGAO-2 REACTOR**  
 2000-05-17  
 Shenzhen, Guangdong, China.  
**\*BT1** pwr type reactors

**LINGEN REACTOR**  
**UF** kernkraftwerk lingen  
**UF** kwl reactor  
**\*BT1** bwr type reactors

**LINING PROCESSES**  
**RT** liners  
**RT** surface coating

**linings**  
 INIS: 1977-11-21; ETDE: 2002-03-28  
**USE** liners

**linking (borehole)**  
 INIS: 2000-04-12; ETDE: 1976-11-29  
**USE** borehole linking

**LINOLEIC ACID**  
**\*BT1** monocarboxylic acids

**LINOLENIC ACID**  
**\*BT1** monocarboxylic acids

**linotrons**  
 2000-04-12  
 Combinations of linear and circular accelerators in which particles pass through linac alternately in one and then the other direction, turning around in special reflectors with constant magnetic fields.  
 (Prior to June 1991 this was a valid ETDE descriptor.)  
**USE** cyclic accelerators

**LINSEED OIL**  
**UF** flaxseed oil  
**\*BT1** triglycerides  
**\*BT1** vegetable oils  
**RT** flax plants  
**RT** plasticizers

**linseed plants**  
**USE** flax plants

**LINUS REACTORS**  
 INIS: 1981-08-31; ETDE: 1978-01-23  
**BT1** thermonuclear reactors  
**RT** implosions  
**RT** liners  
**RT** magnetic compression

**liouville equation**  
 ETDE: 2002-03-28  
**USE** boltzmann-vlasov equation

**LIOUVILLE THEOREM**  
**RT** phase space  
**RT** statistical mechanics

**lipase**  
 INIS: 2000-04-12; ETDE: 1981-01-12  
 Code number 3.1.1.3.  
 (From January 1981 to January 1990, this was a valid ETDE descriptor.)  
**USE** lipases

**LIPASES**  
 (From January 1981 to January 1990, this was not a valid ETDE descriptor and material from these years was indexed to LIPASE.)  
**UF** lipase  
**\*BT1** carboxylesterases

**LIPIDS**  
 1996-10-23  
**UF** lanolin  
**UF** wool fat  
**BT1** organic compounds  
**NT1** glycolipids  
**NT2** cerebrosides  
**NT2** gangliosides  
**NT1** lipopolysaccharides  
**NT1** lipoproteins  
**NT2** apolipoproteins  
**NT2** myelin  
**NT1** phospholipids  
**NT2** cardiolipin  
**NT2** lecithins  
**NT2** sphingomyelins  
**NT1** triglycerides  
**NT2** corn oil  
**NT2** linseed oil  
**NT2** olive oil  
**NT2** peanut oil  
**NT2** soybean oil  
**NT2** triolein  
**RT** cholesterol  
**RT** choline  
**RT** chylomicrons  
**RT** esters  
**RT** fats  
**RT** liposomes  
**RT** lipotropic factors  
**RT** valinomycin

**LIPIODOL**  
**BT1** contrast media  
**\*BT1** oils  
**\*BT1** organic iodine compounds

**lipoic acid (alpha)**  
**USE** thioctic acid

**LIPOPOLYSACCHARIDES**  
**\*BT1** lipids  
**\*BT1** polysaccharides

**LIPOPROTEINS**

- UF *proteolipids*
- \*BT1 lipids
- \*BT1 proteins
- NT1 apolipoproteins
- NT1 myelin
- RT membrane proteins

**LIPOSOMES**

INIS: 1980-02-26; ETDE: 1979-07-18  
*Lipoidal inclusions in the cytoplasm or substances prepared in vitro of alternating lipid and water layers and proposed as target-specific pharmaceutical delivery systems in organisms.*

- UF *multilamellar lipid vesicles*
- RT carriers
- RT cell constituents
- RT chemotherapy
- RT cytoplasm
- RT lipids

**LIPOTROPIC FACTORS**

- BT1 drugs
- NT1 betaine
- NT1 choline
- NT1 ethionine
- NT1 inositol
- NT1 methionine
- NT1 phytic acid
- NT1 thioctic acid
- RT lipids
- RT vitamin b group

**LIPPMANN-SCHWINGER EQUATION**

- \*BT1 integral equations
- RT blankebecler-sugar equations
- RT faddeev equations
- RT quantum mechanics
- RT quasipotential equation
- RT schwinger variational method

**lips**

- USE oral cavity

**liptinite**

INIS: 2000-04-12; ETDE: 1987-07-24  
 USE exinite

**LIQUEFACTION**

- UF *liquefying*
- BT1 thermochemical processes
- NT1 coal liquefaction
  - NT2 bcl process
  - NT2 bergius process
  - NT2 catalytic hydrosolvation process
  - NT2 cffc process
  - NT2 coed process
  - NT2 costeam process
  - NT2 dow liquefaction process
  - NT2 exxon liquefaction process
  - NT2 flash hydrolysis process
  - NT2 h-coal process
  - NT2 liquid phase methanol process
  - NT2 occidental flash pyrolysis process
  - NT2 pamco process
  - NT2 pyrosol process
  - NT2 sasol-ii process
  - NT2 sasol process
  - NT2 src-ii process
  - NT2 synthoil process
  - NT2 synthol process
  - NT2 tsl process
- NT1 in-situ liquefaction
- RT melting
- RT vapor condensation

**LIQUEFIED GASES**

INIS: 1992-03-10; ETDE: 1982-01-21  
 \*BT1 liquids

- NT1 liquefied natural gas
- NT1 liquefied petroleum gases
- RT cryogenic fluids

**LIQUEFIED NATURAL GAS**

- 1992-03-10
- UF *lng*
  - \*BT1 liquefied gases
  - \*BT1 natural gas
  - RT liquefied petroleum gases
  - RT liquid fuels
  - RT lng industry
  - RT lng plants
  - RT natural gas liquids
  - RT north star project
  - RT terminal facilities

**LIQUEFIED PETROLEUM GASES**

- 1992-03-10
- UF *lp-gas*
  - \*BT1 liquefied gases
  - \*BT1 natural gas liquids
  - BT1 petroleum products
  - RT heating oils
  - RT lease condensates
  - RT liquefied natural gas
  - RT lpg industry
  - RT plant condensates

**liquefiers**

2000-04-12  
 USE vapor condensers

**liquefying**

ETDE: 2002-03-28  
 USE liquefaction

**liquid asphalt**

INIS: 1992-04-02; ETDE: 1976-01-23  
 USE petroleum residues

**LIQUID COLUMN CHROMATOGRAPHY**

INIS: 1977-04-07; ETDE: 1977-06-03  
 \*BT1 chromatography  
 NT1 high-performance liquid chromatography

**LIQUID CONTAMINATION MONITORS**

- \*BT1 radiation monitors
- RT contamination

**LIQUID CRYSTALS**

- BT1 crystals
- \*BT1 liquids
- RT pockels cell

**liquid-dominated hydrothermal convective systems**

INIS: 2000-04-12; ETDE: 1976-03-11  
 SEE geothermal hot-water systems

**LIQUID DROP MODEL**

- \*BT1 nuclear models
- RT neutron emission
- RT weizsaecker formula

**liquid effluents**

USE liquid wastes

**LIQUID FLOW**

- BT1 fluid flow
- RT hydraulic conductivity
- RT hydrodynamics
- RT liquids
- RT multiphase flow
- RT thermal conductivity
- RT two-phase flow

**LIQUID FUELS**

- BT1 fuels

- NT1 alcohol fuels
- NT2 ethanol fuels
- NT2 methanol fuels
- NT1 diesel fuels
- NT1 fuel oils
  - NT2 heating oils
  - NT2 residual fuels
- NT1 fuel solutions
- NT1 gasohol
- NT1 gasoline
  - NT2 unleaded gasoline
- NT1 jet engine fuels
- NT1 kerosene
- NT1 liquid metal fuels
- NT1 molten salt fuels
- RT automotive fuels
- RT coal liquids
- RT liquefied natural gas

**LIQUID HOLDING RECOVERY**

- BT1 biological recovery

**LIQUID HOMOGENEOUS REACTORS**

- \*BT1 fluid fueled reactors
- \*BT1 homogeneous reactors
- NT1 aqueous homogeneous reactors
  - NT2 ai-1-77 reactor
  - NT2 argus reactor
  - NT2 ber-2 reactor
  - NT2 byu 1-77 reactor
  - NT2 cesnef reactor
  - NT2 dr-1 reactor
  - NT2 frf reactor
  - NT2 gidra reactor
  - NT2 hre-2 reactor
  - NT2 jrr-1 reactor
  - NT2 kewb reactor
  - NT2 kstr reactor
  - NT2 nescr-1 reactor
  - NT2 nevada university reactor
  - NT2 prnc-1-77 reactor
  - NT2 supo reactor
  - NT2 wrrr reactor
- RT fuel solutions

**LIQUID ION EXCHANGERS**

- \*BT1 ion exchange materials

**LIQUID IONIZATION CHAMBERS**

- \*BT1 ionization chambers

**LIQUID LASERS**

INIS: 1999-08-16; ETDE: 1977-05-07  
 BT1 lasers  
 NT1 dye lasers

**liquid-liquid extraction**

INIS: 1975-10-23; ETDE: 2002-03-28  
 USE solvent extraction

**liquid magnets**

INIS: 2000-04-12; ETDE: 1985-03-12  
 (Prior to March 1997 MAGNETIC LIQUIDS was used for this concept in ETDE.)  
 USE liquids  
 USE magnetic materials

**liquid metal coolant**

USE liquid metals

**LIQUID METAL COOLED REACTORS**

- BT1 reactors
- NT1 lithium cooled reactors
- NT1 lmfr type reactors
  - NT2 beloyarsk-3 reactor
  - NT2 beloyarsk-4 reactor
  - NT2 bn-1600 reactor
  - NT2 bn-350 reactor
  - NT2 bn-800 reactor

NT2 bor-60 reactor  
 NT2 cdfr reactor  
 NT2 clinch river breeder reactor  
 NT2 dfr reactor  
 NT2 ebr-1 reactor  
 NT2 ebr-2 reactor  
 NT2 enrico fermi-1 reactor  
 NT2 joyo reactor  
 NT2 kalpakkam lmfr reactor  
 NT2 monju reactor  
 NT2 pfr reactor  
 NT2 phenix reactor  
 NT2 plfr reactor  
 NT2 rapsodie reactor  
 NT2 sbr-1 reactor  
 NT2 sbr-2 reactor  
 NT2 sbr-5 reactor  
 NT2 snr-2 reactor  
 NT2 snr reactor  
 NT2 super phenix reactor  
 NT1 mercury cooled reactors  
 NT2 clementine reactor  
 NT2 sbr-2 reactor  
 NT1 nak cooled reactors  
 NT2 ebr-1 reactor  
 NT2 s10fs-1 reactor  
 NT2 s10fs-3 reactor  
 NT2 s10fs-4 reactor  
 NT2 s2ds reactor  
 NT2 s8dr reactor  
 NT2 s8er reactor  
 NT2 ser reactor  
 NT2 snaptran reactors  
 NT1 potassium cooled reactors  
 NT2 ebr-1 reactor  
 NT2 ser reactor  
 NT2 snap 10 reactor  
 NT3 s10fs-1 reactor  
 NT3 s10fs-3 reactor  
 NT3 s10fs-4 reactor  
 NT2 snap-tsfr reactor  
 NT2 snaptran reactors  
 NT1 sodium cooled reactors  
 NT2 beloyarsk-3 reactor  
 NT2 beloyarsk-4 reactor  
 NT2 bn-1600 reactor  
 NT2 bn-350 reactor  
 NT2 bn-800 reactor  
 NT2 bor-60 reactor  
 NT2 cdfr reactor  
 NT2 clinch river breeder reactor  
 NT2 ebr-1 reactor  
 NT2 ebr-2 reactor  
 NT2 enrico fermi-1 reactor  
 NT2 ffr reactor  
 NT2 hnpf reactor  
 NT2 knk-2 reactor  
 NT2 knk reactor  
 NT2 lampre-1 reactor  
 NT2 monju reactor  
 NT2 pfr reactor  
 NT2 phenix reactor  
 NT2 rapsodie reactor  
 NT2 sbr-5 reactor  
 NT2 sefor reactor  
 NT2 ser reactor  
 NT2 sgr type reactors  
 NT3 sre reactor  
 NT2 snap 10 reactor  
 NT3 s10fs-1 reactor  
 NT3 s10fs-3 reactor  
 NT3 s10fs-4 reactor  
 NT2 snap-tsfr reactor  
 NT2 snaptran reactors  
 NT2 snr-2 reactor  
 NT2 snr reactor  
 NT2 super phenix reactor  
 NT2 zrr reactor  
 NT1 szr type reactors

NT2 knk-2 reactor  
 NT2 knk reactor

## LIQUID METAL FUELS

\*BT1 liquid fuels  
 \*BT1 nuclear fuels  
 RT fluid fueled reactors

## LIQUID-METAL MHD GENERATORS

1975-12-09  
 \*BT1 closed-cycle mhd generators

## liquid metal test facilities

2000-04-12  
 USE test facilities

## liquid metal-water reactions

INIS: 2000-04-12; ETDE: 1977-06-02  
 USE molten metal-water reactions

## LIQUID METALS

UF liquid metal coolant  
 \*BT1 liquids  
 \*BT1 metals  
 RT coolants

## LIQUID PENETRANT INSPECTION

UF fluorescent penetrant tests  
 UF penetrant inspection (liquid)  
 \*BT1 nondestructive testing

## LIQUID PHASE EPITAXY

INIS: 1999-07-30; ETDE: 1982-10-20  
*Epitaxial growth resulting from precipitation from a supersaturated melt in contact with the substrate.*  
 \*BT1 epitaxy  
 RT crystal growth

## liquid phase methanation process

INIS: 2000-04-12; ETDE: 1976-05-17  
*Process being developed by Chem Systems, Inc., under auspices of ERDA and AGA. Overall objective is to develop practical and useful process for converting coal-derived synthesis gases to methane as major constituent of sng, using liquid fluidized beds. (Prior to March 1994, this was a valid ETDE descriptor.)*  
 USE coal gasification

## LIQUID PHASE METHANOL PROCESS

INIS: 1999-05-19; ETDE: 1983-05-21  
*Indirect coal liquefaction process developed by Chem Systems for DOE.*  
 \*BT1 coal liquefaction  
 RT methanol

## liquid-phase sintering

USE sintering

## LIQUID PROPORTIONAL COUNTERS

\*BT1 proportional counters

## LIQUID SCINTILLATION DETECTORS

\*BT1 scintillation counters  
 RT liquid scintillators  
 RT scintillation quenching

## LIQUID SCINTILLATORS

BT1 phosphors  
 RT liquid scintillation detectors  
 RT scintillation counting  
 RT terphenyls

## liquid sodium-water reactions

INIS: 1977-09-15; ETDE: 2002-03-28  
 USE molten metal-water reactions

## LIQUID WASTES

UF effluents (liquid)  
 UF liquid effluents  
 UF sewage disposal  
 UF sewage treatment  
 UF waste solutions  
 SF emissions (industrial)  
 BT1 wastes  
 NT1 spent liquors  
 NT1 waste water  
 NT2 shale tar water  
 RT acid mine drainage  
 RT bioadsorbents  
 RT biochemical oxygen demand  
 RT biological wastes  
 RT ceramic melters  
 RT chemical effluents  
 RT chemical oxygen demand  
 RT emissions tax  
 RT ground disposal  
 RT ground water  
 RT industrial wastes  
 RT leachates  
 RT organic wastes  
 RT plumes  
 RT radioactive effluents  
 RT reinjection  
 RT surface waters  
 RT waste disposal  
 RT waste disposal acts  
 RT waste forms  
 RT waste processing  
 RT water  
 RT water pollution monitors  
 RT wet oxidation processes

## LIQUIDS

UF ferrofluids  
 UF liquid magnets  
 UF magnetic liquids  
 BT1 fluids  
 NT1 black liquids  
 NT1 coal liquids  
 NT1 liquefied gases  
 NT2 liquefied natural gas  
 NT2 liquefied petroleum gases  
 NT1 liquid crystals  
 NT1 liquid metals  
 NT1 natural gas liquids  
 NT2 gas condensates  
 NT2 lease condensates  
 NT2 liquefied petroleum gases  
 NT2 plant condensates  
 RT dispersions  
 RT droplets  
 RT hydrostatic bearings  
 RT liquid flow  
 RT phase diagrams  
 RT pour point  
 RT structure factors  
 RT vapors  
 RT void fraction

## LISP

INIS: 1994-09-13; ETDE: 1985-08-08  
 BT1 programming languages  
 RT artificial intelligence

## litek lamp

INIS: 2000-04-12; ETDE: 1977-07-23  
 USE fluorescent lamps

## LITHIUM

\*BT1 alkali metals

## LITHIUM 10

\*BT1 light nuclei  
 \*BT1 lithium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei

**LITHIUM 11**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 lithium isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**LITHIUM 11 REACTIONS**

*INIS: 1990-01-30; ETDE: 1990-02-13*  
 \*BT1 heavy ion reactions

**LITHIUM 11 TARGET**

*INIS: 1998-01-27; ETDE: 1998-02-24*  
 BT1 targets

**LITHIUM 12**

*1992-09-22*  
 \*BT1 light nuclei  
 \*BT1 lithium isotopes  
 \*BT1 odd-odd nuclei

**LITHIUM 13**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 lithium isotopes
- \*BT1 odd-even nuclei

**LITHIUM 3**

- \*BT1 light nuclei
- \*BT1 lithium isotopes
- \*BT1 odd-even nuclei

**LITHIUM 4**

- \*BT1 light nuclei
- \*BT1 lithium isotopes
- \*BT1 odd-odd nuclei

**LITHIUM 5**

- \*BT1 alpha decay radioisotopes
- \*BT1 light nuclei
- \*BT1 lithium isotopes
- \*BT1 odd-even nuclei

**LITHIUM 6**

- \*BT1 light nuclei
- \*BT1 lithium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 stable isotopes
- RT* lithium 6 beams
- RT* lithium 6 reactions

**LITHIUM 6 BEAMS**

- \*BT1 ion beams
- RT* lithium 6

**LITHIUM 6 REACTIONS**

- \*BT1 heavy ion reactions
- RT* lithium 6

**LITHIUM 6 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**LITHIUM 7**

- \*BT1 light nuclei
- \*BT1 lithium isotopes
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes
- RT* lithium 7 beams
- RT* lithium 7 reactions

**LITHIUM 7 BEAMS**

- \*BT1 ion beams
- RT* lithium 7

**LITHIUM 7 REACTIONS**

- \*BT1 heavy ion reactions
- RT* lithium 7

**LITHIUM 7 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**LITHIUM 8**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 lithium isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei

**LITHIUM 8 REACTIONS**

*INIS: 1979-09-18; ETDE: 1979-10-23*  
 \*BT1 heavy ion reactions

**LITHIUM 8 TARGET**

*INIS: 1991-10-22; ETDE: 1991-11-26*  
 BT1 targets

**LITHIUM 9**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 lithium isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei

**LITHIUM 9 REACTIONS**

*INIS: 1991-03-22; ETDE: 1991-04-09*  
 \*BT1 heavy ion reactions

**LITHIUM 9 TARGET**

*INIS: 1976-03-17; ETDE: 1976-07-12*  
 BT1 targets

**LITHIUM ADDITIONS**

*Alloys containing not more than 1% Li are listed here.*  
 \*BT1 lithium alloys

**LITHIUM ALLOYS**

*Alloys containing more than 1% Li.*  
 BT1 alloys

- NT1 lithium additions
- NT1 lithium base alloys

**LITHIUM ARSENIDES**

*INIS: 2000-04-12; ETDE: 1984-09-05*  
 \*BT1 arsenides  
 \*BT1 lithium compounds

**LITHIUM BASE ALLOYS**

- \*BT1 lithium alloys

**LITHIUM BORIDES**

- \*BT1 borides
- \*BT1 lithium compounds

**LITHIUM BROMIDES**

- \*BT1 bromides
- \*BT1 lithium halides

**LITHIUM CARBIDES**

- \*BT1 carbides
- \*BT1 lithium compounds

**LITHIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 lithium compounds

**LITHIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 lithium halides

**LITHIUM-CHLORINE BATTERIES**

*2000-04-12*  
 \*BT1 metal-gas batteries

**LITHIUM COMPLEXES**

- BT1 complexes

**LITHIUM COMPOUNDS**

*1997-06-17*  
 BT1 alkali metal compounds  
 NT1 lithium arsenides  
 NT1 lithium borides  
 NT1 lithium carbides  
 NT1 lithium carbonates  
 NT1 lithium halides

- NT2 lithium bromides
- NT2 lithium chlorides
- NT2 lithium fluorides
- NT2 lithium iodides
- NT1 lithium hydrides
- NT2 lithium deuterides
- NT2 lithium tritides
- NT1 lithium hydroxides
- NT1 lithium nitrates
- NT1 lithium nitrides
- NT1 lithium oxides
- NT1 lithium perchlorates
- NT1 lithium phosphates
- NT1 lithium phosphides
- NT1 lithium selenides
- NT1 lithium silicates
- NT1 lithium silicides
- NT1 lithium sulfates
- NT1 lithium sulfides
- NT1 lithium tellurides
- NT1 lithium titanates
- NT1 lithium tungstates
- NT1 lithium uranates

***lithium cooled reactor experiment***

*2000-04-12*  
 USE experimental reactors  
 USE lithium cooled reactors

**LITHIUM COOLED REACTORS**

*1976-05-07*  
*UF* *lcre reactor*  
*UF* *lithium cooled reactor experiment*  
 \*BT1 liquid metal cooled reactors

**LITHIUM-COPPER CHLORIDE BATTERIES**

*INIS: 2000-04-12; ETDE: 1976-03-22*  
 \*BT1 metal-nonmetal batteries

**LITHIUM DEUTERIDES**

- \*BT1 deuterides
- \*BT1 lithium hydrides

**LITHIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 lithium halides
- RT* dielectric track detectors
- RT* flibe
- RT* thermoluminescent dosimeters

**LITHIUM HALIDES**

*1981-08-06*  
 \*BT1 halides  
 \*BT1 lithium compounds  
 NT1 lithium bromides  
 NT1 lithium chlorides  
 NT1 lithium fluorides  
 NT1 lithium iodides

**LITHIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 lithium compounds
- NT1 lithium deuterides
- NT1 lithium tritides

**LITHIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 lithium compounds

**LITHIUM IODIDES**

- \*BT1 inorganic phosphors
- \*BT1 iodides
- \*BT1 lithium halides

**LITHIUM IONS**

- \*BT1 ions

**LITHIUM ISOTOPES**

*1999-07-16*  
 BT1 isotopes  
 NT1 lithium 10



NT1 lithium 11  
 NT1 lithium 12  
 NT1 lithium 13  
 NT1 lithium 3  
 NT1 lithium 4  
 NT1 lithium 5  
 NT1 lithium 6  
 NT1 lithium 7  
 NT1 lithium 8  
 NT1 lithium 9

**LITHIUM NITRATES**

\*BT1 lithium compounds  
 \*BT1 nitrates

**LITHIUM NITRIDES**

\*BT1 lithium compounds  
 \*BT1 nitrides

**LITHIUM OXIDES**

\*BT1 lithium compounds  
 \*BT1 oxides

**LITHIUM PERCHLORATES**

INIS: 1977-10-17; ETDE: 1975-10-28

\*BT1 lithium compounds  
 \*BT1 perchlorates

**LITHIUM PHOSPHATES**

\*BT1 lithium compounds  
 \*BT1 phosphates

**LITHIUM PHOSPHIDES**

INIS: 2000-04-12; ETDE: 1984-12-26

\*BT1 lithium compounds  
 \*BT1 phosphides

**LITHIUM SELENIDES**

\*BT1 lithium compounds  
 \*BT1 selenides

**LITHIUM SILICATES**

\*BT1 lithium compounds  
 \*BT1 silicates  
 RT petalite

**LITHIUM SILICIDES**

INIS: 2000-04-12; ETDE: 1979-02-23

\*BT1 lithium compounds  
 \*BT1 silicides

**LITHIUM SULFATES**

\*BT1 lithium compounds  
 \*BT1 sulfates

**LITHIUM SULFIDES**

\*BT1 lithium compounds  
 \*BT1 sulfides

**LITHIUM-SULFUR BATTERIES**

1993-01-28

\*BT1 metal-nonmetal batteries

**LITHIUM TELLURIDES**

INIS: 1977-06-14; ETDE: 1976-11-29

\*BT1 lithium compounds  
 \*BT1 tellurides

**LITHIUM TITANATES**

2003-06-04

\*BT1 lithium compounds  
 \*BT1 titanates

**LITHIUM TRITIDES**

1976-02-05

\*BT1 lithium hydrides  
 \*BT1 tritides

**LITHIUM TUNGSTATES**

INIS: 1978-05-19; ETDE: 1977-06-02

\*BT1 lithium compounds  
 \*BT1 tungstates

**LITHIUM URANATES**

INIS: 1975-11-27; ETDE: 1975-08-19

\*BT1 lithium compounds  
 \*BT1 uranates

**LITHIUM-WATER-AIR BATTERIES**

INIS: 2000-04-12; ETDE: 1976-01-07

\*BT1 metal-gas batteries

**LITHOLOGY**

1993-03-23

Description of the physical character of a rock as determined by eye or a low power magnifier and based on color, structure, mineralogic components and grain size.

\*BT1 petrology  
 RT rocks

**LITHOTYPES**

INIS: 2000-04-12; ETDE: 1978-05-03

RT coal  
 RT macerals  
 RT petrology

**LITHUANIA**

INIS: 1997-08-20; ETDE: 1993-01-28

(Prior to January 1993, this was indexed by USSR.)

SF soviet union  
 SF union of soviet socialist republics  
 SF ussr  
 \*BT1 eastern europe

**LITHUANIAN ORGANIZATIONS**

INIS: 1999-07-14; ETDE: 1999-08-30

BT1 national organizations

**litigation**

INIS: 2000-04-12; ETDE: 1978-09-13

USE lawsuits

**LITR REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut down in 1968.

UF low intensity test reactor  
 UF us aec low intensity test reactor  
 UF us aec low intensity training reactor

\*BT1 enriched uranium reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**LITTER SIZE**

RT progeny

**LITTLE BOY**

INIS: 2000-05-30; ETDE: 1984-11-29

The name of the nuclear weapon exploded over Hiroshima, Japan.

\*BT1 nuclear weapons  
 RT a-bomb survivors  
 RT atmospheric explosions  
 RT hirosshima  
 RT nuclear explosions

**LITTLE ICE AGE**

INIS: 1993-06-04; ETDE: 1987-02-13

Cold period lasting from the 15th to the 19th centuries in the northern hemisphere.

RT climates  
 RT paleoclimatology

**LITTLE TENNESSEE RIVER**

INIS: 2000-04-12; ETDE: 1981-05-18

\*BT1 rivers  
 RT hydroelectric power plants  
 RT tennessee  
 RT tennessee valley authority  
 RT tennessee valley region

**live time**

INIS: 1984-04-04; ETDE: 2002-03-28

Time during which equipment is actually sensitive to incoming signals.

USE dead time

**LIVER**

BT1 digestive system  
 \*BT1 glands  
 RT abdomen  
 RT biliary tract  
 RT glycogen  
 RT hepatectomy  
 RT hepatitis  
 RT hepatomas  
 RT jaundice  
 RT liver cells  
 RT liver cirrhosis  
 RT metabolic diseases  
 RT metabolism  
 RT peritoneum  
 RT portal system  
 RT reticuloendothelial system

**LIVER CELLS**

INIS: 1983-06-30; ETDE: 1982-06-07

UF hepatocytes  
 \*BT1 somatic cells  
 RT liver

**LIVER CIRRHOSIS**

\*BT1 digestive system diseases  
 RT liver

**livermore pool type reactor**

USE lptr reactor

**livestock**

USE domestic animals

**living standards**

INIS: 2000-04-12; ETDE: 1978-10-23

USE standard of living

**lixiviation**

USE leaching

**LIZARDS**

\*BT1 reptiles

**ljubljana triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-03-28

USE triga-2-ljubljana reactor

**ljungstrom process**

2000-04-12

Electrothermal production of shale oil in-situ.

(Prior to January 1995, this was a valid ETDE descriptor.)

USE in-situ retorting  
 USE oil shales

**LLAMAS**

\*BT1 ruminants

**llnl**

INIS: 1984-04-04; ETDE: 2002-03-28

USE lawrence livermore national laboratory

**LLNL ADVANCED TEST ACCELERATOR**

INIS: 1988-05-13; ETDE: 1987-12-15

Linear induction accelerator at Lawrence Livermore Laboratory, Livermore, California, USA.

SF advanced test accelerator  
 \*BT1 linear accelerators  
 RT electron beams  
 RT induction

**LLOYDMINSTER DEPOSIT**

2000-04-12

\*BT1 oil sand deposits

**LM DEVICES***Linear multipoles.*

\*BT1 internal ring devices

RT multipolar configurations

**LMFBR TYPE REACTORS***SF medec process*

\*BT1 fbr type reactors

\*BT1 liquid metal cooled reactors

NT1 beloyarsk-3 reactor

NT1 beloyarsk-4 reactor

NT1 bn-1600 reactor

NT1 bn-350 reactor

NT1 bn-800 reactor

NT1 bor-60 reactor

NT1 cdfir reactor

NT1 clinch river breeder reactor

NT1 dfr reactor

NT1 ebr-1 reactor

NT1 ebr-2 reactor

NT1 enrico fermi-1 reactor

NT1 joyo reactor

NT1 kalpakkam lmfbr reactor

NT1 monju reactor

NT1 pfr reactor

NT1 phenix reactor

NT1 plbr reactor

NT1 rapsodie reactor

NT1 sbr-1 reactor

NT1 sbr-2 reactor

NT1 sbr-5 reactor

NT1 snr-2 reactor

NT1 snr reactor

NT1 super phenix reactor

**lng**

2000-04-12

USE liquefied natural gas

**LNG INDUSTRY***INIS: 1993-04-27; ETDE: 1978-06-14*

\*BT1 natural gas industry

RT liquefied natural gas

RT lng plants

**LNG PLANTS***INIS: 1993-04-27; ETDE: 1976-01-23*

BT1 industrial plants

RT liquefied natural gas

RT lng industry

RT natural gas

**lng spills***INIS: 1992-04-09; ETDE: 1980-06-06*

USE gas spills

**LNLS STORAGE RING**

1991-02-11

*Brazilian Synchrotron Radiation Source.**UF brazilian lnls synchrotron*

BT1 storage rings

\*BT1 synchrotron radiation sources

**LO AGUIRRE RECH-2 REACTOR***INIS: 1989-02-24; ETDE: 1989-03-20**Lo Aguirre, Santiago, Chile.*

\*BT1 pool type reactors

\*BT1 research reactors

**load (dynamic)***INIS: 2000-04-12; ETDE: 1976-08-05*

USE dynamic loads

**LOAD ANALYSIS***INIS: 1999-04-22; ETDE: 1981-04-17**Measurement and study of the load characteristics of the more important services rendered by the utility.**UF analysis (load)**UF load characteristics*

RT electric utilities

RT gas utilities

RT load management

RT peak load

**load characteristics***INIS: 1999-04-22; ETDE: 1981-04-17*

USE load analysis

**LOAD COLLECTOR RATIO***INIS: 2000-04-12; ETDE: 1981-05-18**Ratio of building load coefficient (btu/dd) to the solar collector area (sq. Ft.).**UF lcr*

RT buildings

RT heating load

RT passive solar heating systems

**LOAD MANAGEMENT***INIS: 1977-11-21; ETDE: 1976-03-22**Management of electric power demands on a distribution grid to achieve maximum power-production efficiency.*

BT1 management

RT capacity

RT dispersed storage and generation

RT electric power

RT load analysis

RT marginal-cost pricing

RT off-peak energy storage

RT peak load

RT peak-load pricing

RT peaking power plants

RT time-of-use pricing

**LOADERS***INIS: 2000-04-12; ETDE: 1985-04-09*

\*BT1 haulage equipment

NT1 cutter loaders

NT2 coal plows

NT2 continuous miners

NT2 heading machines

NT2 shearer loaders

RT materials handling

RT mine haulage

**LOADING***INIS: 1997-06-05; ETDE: 1978-08-08**(Until June 1997 this concept was indexed to MATERIALS HANDLING.)*

BT1 materials handling

RT unloading

**loading (fission reactor)**

1982-11-29

USE reactor fueling

**loading machines (fission reactor)**

1993-11-09

USE reactor charging machines

**LOADING RATE***INIS: 2000-05-02; ETDE: 1978-07-05*

RT chemical reactors

**loads (dynamic)***INIS: 1981-02-27; ETDE: 2002-03-28*

USE dynamic loads

**loads (power demand)***INIS: 1984-04-04; ETDE: 2002-03-28*

USE power demand

**loads (static)***INIS: 1981-02-27; ETDE: 1976-08-05*

USE static loads

**loads (stresses)***INIS: 1984-04-04; ETDE: 2002-03-28*

USE stresses

**LOAM**

BT1 soils

RT clays

**loan guarantees***INIS: 1982-12-03; ETDE: 1981-01-27**(Prior to March 1997 this was a valid ETDE descriptor.)*

USE financial incentives

**loans***INIS: 2000-04-12; ETDE: 1980-04-14**(Prior to March 1996 FINANCIAL ASSISTANCE was used for this concept in ETDE.)*

USE financing

**lobachevsky-bolyai geometry**

USE lobachevsky geometry

**LOBACHEVSKY GEOMETRY**

1999-08-24

*UF lobachevsky-bolyai geometry**UF lobachevsky space*

\*BT1 geometry

RT mathematical space

**lobachevsky space**

USE lobachevsky geometry

**lobbies***INIS: 1982-12-03; ETDE: 1980-12-08*

USE interest groups

**LOBSTERS***INIS: 1977-04-07; ETDE: 1976-01-07*

\*BT1 decapods

RT prawns

RT seafood

**loca***INIS: 2000-04-12; ETDE: 1983-03-07*

USE loss of coolant

**LOCAL AREA NETWORKS**

1994-04-12

*UF lans*

BT1 computer networks

**local boiling**

USE subcooled boiling

**LOCAL FALLOUT***UF close-in fallout*

BT1 fallout

RT civil defense

RT external irradiation

RT fallout shelters

RT nuclear weapons

RT shelters

**local galaxy**

USE milky way

**LOCAL GOVERNMENT***INIS: 1981-02-27; ETDE: 1977-08-09*

RT government policies

RT legislation

RT national government

RT public officials

RT regional cooperation

RT regulations

RT social services

RT state government

*RT* us federal assistance programs

**local group**  
*USE* galaxies

**LOCAL IRRADIATION**  
*BT1* irradiation  
*RT* abscopal radiation effects  
*RT* external irradiation  
*RT* local radiation effects  
*RT* partial body irradiation  
*RT* spatial dose distributions

**LOCAL RADIATION EFFECTS**  
*\*BT1* biological radiation effects  
*NT1* osteoradionecrosis  
*NT1* radiation burns  
*NT1* radiodermatitis  
*RT* local irradiation

**local thermodynamic equilibrium**  
*USE* lte

**LOCALITY**  
*RT* nonlocal potential  
*RT* phi4-field theory  
*RT* quantum field theory

**localization (biological)**  
*USE* biological localization

**LOCK-IN AMPLIFIERS**  
*INIS: 2000-04-12; ETDE: 1984-03-06*  
*Amplifiers that use some automatic synchronization with an external reference signal to measure very weak signals in the presence of very strong noise.*  
*\*BT1* amplifiers  
*RT* electronic circuits  
*RT* gain

**locks (security)**  
*USE* physical protection devices

**LOCOMOTIVES**  
*INIS: 1993-03-25; ETDE: 1986-01-15*  
*\*BT1* trains  
*RT* railroad cars  
*RT* railways

**LOCUST TREES**  
*INIS: 1999-07-20; ETDE: 1986-04-29*  
*UF* *robinia pseudoacacia*  
*\*BT1* leguminosae  
*\*BT1* trees  
*RT* mycorrhizas

**LOCUSTS**  
*\*BT1* grasshoppers

**LODOCHNIKITE**  
 2000-04-12  
*\*BT1* oxide minerals  
*\*BT1* thorium minerals  
*\*BT1* uranium minerals  
*RT* thorium oxides  
*RT* titanium oxides  
*RT* uranium oxides

**LOFRECO PROCESS**  
*INIS: 2000-04-12; ETDE: 1980-06-06*  
*Horizontal in-situ retorting process with low front end cost developed by Geokinetics Inc. For areas where shale bed is relatively thin and close to the surface.*  
*RT* oil shales

**LOFT REACTOR**  
*INEEL, Idaho Falls, Idaho, USA. Shut down in 1985.*  
*UF* *loss of fluid test reactor*  
*\*BT1* pwr type reactors  
*\*BT1* tank type reactors

*\*BT1* test reactors

**LOGARITHMIC RATEMETERS**  
*\*BT1* counting ratemeters

**logging while drilling**  
*INIS: 2000-04-12; ETDE: 1978-12-11*  
*USE* mwd systems

**logic (mathematics)**  
*INIS: 2000-04-12; ETDE: 1975-11-11*  
*USE* mathematical logic

**LOGIC CIRCUITS**  
*BT1* electronic circuits  
*RT* gating circuits

**lollipop event**  
 1997-01-28  
 (Prior to February 1996 this was a valid ETDE descriptor.)  
*USE* vela project

**london convention for prevention of marine pollution**  
*INIS: 1993-11-09; ETDE: 2002-03-28*  
 1972 London Convention on Prevention of Marine Pollution by Dumping of Waste and other Matter.  
*USE* lcpmpdpw

**LONDON EQUATION**  
*BT1* equations  
*RT* superconductivity

**london safety of life at sea convention**  
*USE* solas convention

**LONG COUNTERS**  
*\*BT1* moderating detectors

**LONG ISLAND SOUND**  
*INIS: 1992-04-08; ETDE: 1981-03-17*  
*\*BT1* atlantic ocean  
*\*BT1* estuaries  
*RT* connecticut  
*RT* mid-atlantic bight  
*RT* new york

**long-lens spectrometers**  
*USE* magnetic lens spectrometers

**long-range interactions**  
*USE* interaction range

**LONG-RANGE TRANSPORT**  
*INIS: 1992-09-16; ETDE: 1983-08-25*  
*\*BT1* environmental transport  
*RT* air pollution  
*RT* pollutants  
*RT* pollution  
*RT* transfrontier pollution  
*RT* water pollution

**LONG SHOT EVENT**  
*BT1* vela project

**long term intake**  
*USE* chronic intake

**long term irradiation**  
*USE* chronic irradiation

**LONG VALLEY**  
*INIS: 1992-06-04; ETDE: 1976-04-19*  
*BT1* valleys  
*RT* california

**LONG WAVE RADIATION**  
*UF* *low frequency radiation*  
*\*BT1* radiowave radiation

**LONGITUDINAL MOMENTUM**

*UF* *momentum (longitudinal)*  
*BT1* linear momentum  
*RT* center-of-mass system  
*RT* nuclear reactions  
*RT* particle interactions  
*RT* particle rapidity  
*RT* transverse momentum

**LONGITUDINAL PINCH**

*UF* *zet pinch*  
*BT1* pinch effect  
*NT1* belt pinch  
*RT* linear z pinch devices  
*RT* tlp devices

**longitudinal pinch devices (linear)**

1993-11-09  
*USE* linear z pinch devices

**longitudinal pinch devices (toroidal)**

1993-11-09  
*USE* tlp devices

**LONGWALL MINING**

*INIS: 1992-07-21; ETDE: 1977-03-08*  
*\*BT1* underground mining  
*RT* coal mining  
*RT* hydraulic mining

**loops (coolant)**

*USE* coolant loops

**loops (in pile)**

*USE* in pile loops

**LOOSE PARTS MONITORING**

*INIS: 1981-08-18; ETDE: 1976-12-16*  
*Monitoring foreign, misplaced, or loose objects in reactor cores and cooling systems.*  
*BT1* monitoring  
*RT* reactor instrumentation  
*RT* reactor monitoring systems

**LOPRA REACTOR**

*Univ. of Illinois at Urbana-Champaign, Urbana, Illinois, USA. Decommissioned.*  
*UF* *low power reactor assembly*  
*UF* *university of illinois lopra reactor*  
*\*BT1* triga type reactors

**LORENTZ FORCE**

*RT* charged particles  
*RT* interactions  
*RT* magnetic fields  
*RT* ponderomotive force

**LORENTZ GAS**

*UF* *lorentz plasma*  
*\*BT1* fully ionized gases

**LORENTZ GROUPS**

*\*BT1* poincare groups

**LORENTZ INVARIANCE**

*BT1* invariance principles  
*RT* lorentz transformations  
*RT* special relativity theory

**lorentz plasma**

*USE* lorentz gas

**LORENTZ POLES**

*UF* *toller poles*  
*RT* regge poles

**LORENTZ TRANSFORMATIONS**

1999-08-25  
*BT1* transformations  
*RT* center-of-mass system  
*RT* laboratory system  
*RT* limiting fragmentation  
*RT* lorentz invariance

RT minkowski space  
 RT poincare groups  
 RT space-time  
 RT special relativity theory

**LOS ALAMOS**

INIS: 1992-06-04; ETDE: 1979-03-05

\*BT1 new mexico  
 BT1 urban areas

**los alamos meson physics facility**

USE lampf linac

**los alamos molten plutonium reactor experiment**

1993-11-09

USE lampre-1 reactor

**los alamos national laboratory**

INIS: 1984-04-04; ETDE: 1989-06-30

USE lanl

**los alamos omega west reactor**

1993-11-09

USE owr reactor

**los alamos scientific laboratory**

1995-04-03

Name changed in 1980 to Los Alamos National Laboratory.

(Older material should have been indexed to LASL, which was a valid descriptor until March 1995.)

USE lanl

**los alamos water boiler reactor**

2000-04-12

USE supo reactor

**LOS ANGELES**

1992-07-21

\*BT1 california  
 BT1 urban areas

**LOSS CONE**

RT earth magnetosphere  
 RT loss cone instability  
 RT plasma  
 RT plasmopause  
 RT solar wind

**LOSS CONE INSTABILITY**

\*BT1 plasma microinstabilities  
 RT loss cone

**LOSS OF COOLANT**

UF loca  
 \*BT1 reactor accidents  
 RT blowdown  
 RT coolants  
 RT core flooding systems  
 RT core spray systems  
 RT loss of flow  
 RT reactor cooling systems

**LOSS OF FLOW**

\*BT1 reactor accidents  
 RT flow blockage  
 RT loss of coolant

**loss of fluid test reactor**

USE loft reactor

**LOSSES**

UF lost circulation  
 NT1 chromosome losses  
 NT1 energy losses  
 NT2 ac losses  
 NT2 heat losses  
 NT2 power losses  
 NT2 relaxation losses  
 NT1 particle losses  
 RT accounting

RT inventories  
 RT material balance  
 RT material unaccounted for  
 RT nuclear materials management  
 RT safeguards

**lost circulation**

INIS: 2000-04-12; ETDE: 1981-10-24

Excessive loss of drilling fluids to exposed formations.

(Prior to March 1997 this was a valid ETDE descriptor.)

USE drilling fluids  
 USE losses

**LOTUS FACILITY**

INIS: 1985-12-10; ETDE: 1986-01-16

RT breeding blankets  
 RT hybrid reactors

**LOUISIANA**

\*BT1 usa  
 RT mississippi river  
 RT us gulf coast

**louvain isochronous cyclotron**

INIS: 1984-01-18; ETDE: 2002-03-28

USE cyclone cyclotron

**love waves**

INIS: 2000-04-12; ETDE: 1978-07-05

(Prior to March 1997 this was a valid ETDE descriptor.)

USE seismic surface waves

**lovelace biomedical and environmental research institute**

INIS: 2000-04-12; ETDE: 1982-07-27

USE inhalation toxicology research institute

**LOVIISA-1 REACTOR**

1976-08-13

Loviisa, Finland.

UF imatran voima-1 reactor  
 UF imatran voima power reactor  
 UF loviisa reactor  
 \*BT1 wwer type reactors

**LOVIISA-2 REACTOR**

1976-08-13

Loviisa, Finland.

UF imatran voima-2 reactor  
 \*BT1 wwer type reactors

**loviisa reactor**

2000-04-12

USE loviisa-1 reactor

**LOVOZERITE**

2000-04-12

\*BT1 silicate minerals  
 RT sodium silicates  
 RT zirconium silicates

**LOVOZERO**

2000-04-12

\*BT1 russian federation

**LOW ALLOY STEELS**

INIS: 1996-11-13; ETDE: 1988-11-09

UF steel-20n14  
 UF steel-astm-a350 (gr 3)  
 UF steel-din-1-6348  
 UF steel-ni3mov  
 UF steel-ni4  
 \*BT1 steels  
 NT1 steel-astm-a350  
 NT1 steel-astm-a387  
 NT1 steel-astm-a508  
 NT1 steel-astm-a533  
 NT1 steel-cr2mo

NT2 steel-astm-a542  
 NT1 steel-cr2moninb  
 NT1 steel-cr2mov  
 NT1 steel-cr2nimov  
 NT1 steel-cr5mo  
 NT1 steel-cralnimo  
 NT1 steel-crmo  
 NT1 steel-crmov  
 NT1 steel-crni  
 NT1 steel-mncumo  
 NT2 steel-astm-a537  
 NT1 steel-mnmo  
 NT2 steel-astm-a302  
 NT1 steel-mnnimo  
 NT2 steel-astm-a533-b  
 NT1 steel-mnnimov  
 NT1 steel-ni3cr  
 NT1 steel-ni3crmo  
 NT2 steel-astm-a543  
 NT1 steel-ni3crmov  
 NT1 steel-ni4crw  
 NT1 steel-nicr  
 NT1 steel-nicrmo  
 NT1 steel-nimocr

**low-angle silicon-sheet growth method**

INIS: 2000-04-12; ETDE: 1982-07-27

USE crystal growth methods

**LOW-BETA PLASMA**

Beta from 0 to 0.01.

BT1 plasma  
 RT beta ratio

**LOW BTU GAS**

2000-04-12

150 to 250 btu per cubic foot.

UF pyrotek process  
 \*BT1 fuel gas  
 NT1 producer gas  
 RT gegas process  
 RT wooddall-duckham process

**LOW CARBON-HIGH ALLOY STEELS**

INIS: 1996-11-13; ETDE: 1988-12-16

High alloy steels with not more than 0.05% C.

UF stainless steel-44ln  
 UF steel-cr13ni6mo-1  
 UF steel-cr26ni5mo-1  
 UF steel-ni17cr14moti-1  
 \*BT1 stainless steels  
 NT1 steel-cr11ni10mo2ti-1  
 NT1 steel-cr17cu4ni4nb-1  
 NT2 stainless steel-17-4ph  
 NT1 steel-cr17ni12mo3-1  
 NT2 stainless steel-316l  
 NT2 stainless steel-zcnd17-13  
 NT1 steel-cr18ni10-1  
 NT1 steel-cr19ni10-1  
 NT2 stainless steel-304l  
 NT1 steel-cr20ni11-1  
 NT2 stainless steel-308l  
 NT1 steel-ni36cr12ti3al-1

**LOW DOSE IRRADIATION**

BT1 irradiation  
 RT chronic irradiation  
 RT dose rates  
 RT dose-response relationships  
 RT radiation doses

**LOW-EMISSION VEHICLES**

2004-11-02

Vehicles with much lower amounts of polluting emissions than usual, e.g. ELECTRIC VEHICLES.

UF zero-emission vehicles  
 BT1 vehicles

RT air pollution abatement

## LOW-ENERGY BUILDINGS

2004-02-11

*Buildings using significantly less energy (e.g., for domestic water and space heating) than similar buildings in the same location which lack advanced energy conservation measures.*

BT1 buildings  
RT energy audits  
RT energy conservation  
RT energy management systems

## low energy electron diffraction

USE electron diffraction

## LOW-ENERGY THEOREM

UF soft pion theorem  
UF soft-pion theorem  
RT current algebra

## LOW EQUATION

BT1 equations

## low flux reactor petten

USE lfr reactor

## low frequency radiation

USE long wave radiation

## LOW-HEAD HYDROELECTRIC POWER PLANTS

INIS: 1992-04-06; ETDE: 1978-08-08

*Heads less than 15 meters.*

\*BT1 hydroelectric power plants  
RT microgeneration  
RT small-scale hydroelectric power plants

## LOW INCOME GROUPS

INIS: 2000-07-24; ETDE: 1978-04-05

UF poor people  
\*BT1 minority groups  
RT economics  
RT handicapped people  
RT high income groups  
RT income  
RT socio-economic factors

## low intensity test reactor

USE litr reactor

## LOW LEVEL COUNTERS

\*BT1 radiation detectors  
RT low level counting

## LOW LEVEL COUNTING

INIS: 1976-08-17; ETDE: 1976-11-01

BT1 counting techniques  
RT low level counters

## LOW-LEVEL RADIOACTIVE WASTES

INIS: 1978-05-19; ETDE: 1978-01-23

*Wastes containing less than  $5 \times 10 \exp(-5)$  microcuries/milliliter of radioactivity.*

\*BT1 radioactive wastes  
RT alpha-bearing wastes  
RT bohunice radioactive waste processing center  
RT compact commissions  
RT high-level radioactive wastes  
RT intermediate-level radioactive wastes  
RT konrad ore mine  
RT morsleben salt mine  
RT nuclear waste policy acts

## low power reactor assembly

2000-04-12

USE lopra reactor

## low power test facility-nrts

USE lptf reactor

## low pressure

(Prior to November 2003 this was a valid descriptor.)

SEE pressure range kilo pa  
SEE pressure range pa

## LOW PRESSURE COOLANT INJECTION

1977-09-06

UF lpci  
\*BT1 eccs  
RT reactor safety

## low temperature

1992-01-23

(Prior to February 1992, this was a valid ETDE descriptor.)

USE temperature range 0065-0273 k

## lowell technical institute reactor

1993-11-09

USE litr reactor

## LOWER HYBRID CURRENT DRIVE

INIS: 1989-07-19; ETDE: 1989-08-01

BT1 non-inductive current drive  
RT lower hybrid heating

## LOWER HYBRID HEATING

1983-03-15

UF lhr heating  
UF lower hybrid resonance heating  
\*BT1 high-frequency heating  
RT lower hybrid current drive

## lower hybrid resonance heating

1983-03-15

USE lower hybrid heating

## lp-gas

INIS: 2000-04-12; ETDE: 1977-08-24

USE liquefied petroleum gases

## lpci

1977-09-06

(Prior to July 1985, this was a valid ETDE descriptor.)

USE low pressure coolant injection

## LPG INDUSTRY

INIS: 1993-03-10; ETDE: 1982-12-01

\*BT1 petroleum industry  
RT liquefied petroleum gases

## LPR REACTOR

2000-04-12

*Babcock and Wilcox, Lynchburg, Virginia, USA. Shut down in 1981.*

UF babcock and wilcox lpr reactor  
UF lynchburg pool reactor  
\*BT1 enriched uranium reactors  
\*BT1 materials testing reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

## LPTF REACTOR

INEEL, Idaho Falls, Idaho, USA.

UF low power test facility-nrts  
UF nrts-lptf reactor  
\*BT1 zero power reactors

## LPTR REACTOR

*Univ. of California, Lawrence Livermore Laboratory, Livermore, California, USA. Shut down in 1980.*

UF livermore pool type reactor  
UF us aec lptr reactor  
\*BT1 enriched uranium reactors  
\*BT1 isotope production reactors  
\*BT1 pool type reactors  
\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

## LR-0 REACTOR

INIS: 1998-07-07; ETDE: 1982-01-07

(Until July 1998, this was a forbidden term and this concept was indexed by LVR-15 REACTOR.)

UF czechoslovak lr-0 reactor  
UF rez lr-0 reactor  
\*BT1 pool type reactors  
\*BT1 zero power reactors

## LSZ THEORY

UF lehmann-symanzik-zimmermann method

\*BT1 axiomatic field theory

## LT-3 TOKAMAK

UF canberra tokamak

\*BT1 tokamak devices

## LT-4 TOKAMAK

INIS: 1984-06-21; ETDE: 1984-07-10

\*BT1 tokamak devices

## LTE

UF local thermodynamic equilibrium

BT1 equilibrium

RT thermodynamics

## LTH

UF luteotropic hormone

UF prolactin

\*BT1 gonadotropins

RT mammary glands

RT progesterone

## LTIR REACTOR

*Univ. of Lowell, Lowell, Massachusetts, USA.*

UF lowell technical institute reactor

\*BT1 pool type reactors

\*BT1 research reactors

## LUBRICANTS

UF synthetic lubricants

SF mineral oil(s)

NT1 gas lubricants

NT1 greases

NT1 lubricating oils

NT1 solid lubricants

RT cutting fluids

RT gears

RT lubrication

RT tribology

## LUBRICATING OILS

BT1 lubricants

\*BT1 oils

BT1 petroleum products

RT meadow foam

RT tribology

RT waste oil refineries

RT waste oils

## lubricating properties

INIS: 2000-04-12; ETDE: 1985-04-24

(Prior to March 1997 this was a valid ETDE descriptor.)

USE lubrication

## LUBRICATION

(From April 1985 till March 1997

LUBRICATING PROPERTIES was a valid ETDE descriptor.)

UF lubricating properties

RT bearings

RT gears

RT greases

RT hydrostatic bearings

RT lubricants

RT tribology

**lucas process**

INIS: 2000-04-12; ETDE: 1977-04-12

Low-sulfur flue gas from Claus plants is incinerated with low surplus of air, passed through a coke filter to remove sulfur trioxide, and oxygen, and hydrogen sulfide, and stripped of sulfur dioxide by absorption in aqueous alkali phosphate solution. The sulfur is recovered.

(Prior to January 1995, this was a valid ETDE descriptor.)

USE desulfurization

**luccu oil**

USE olive oil

**LUCENS REACTOR**

\*BT1 carbon dioxide cooled reactors

\*BT1 enriched uranium reactors

\*BT1 hwgr type reactors

\*BT1 pressure tube reactors

\*BT1 thermal reactors

**LUCIE-1 REACTOR**

Florida Power and Light Co., Fort Pierce, Florida, USA.

UF hutchinson island-1 reactor

UF st lucie-1 reactor

\*BT1 pwr type reactors

**LUCIE-2 REACTOR**

Florida Power and Light Co., Fort Pierce, Florida, USA.

UF hutchinson island-2 reactor

UF st lucie-2 reactor

\*BT1 pwr type reactors

**LUCIFERASE**

\*BT1 oxidases

**LUCIFERIN**

\*BT1 albumins

**LUCITE**

\*BT1 plastics

\*BT1 polyacrylates

RT pmma

**LUGOL**

UF lugol solution

RT glycerol

RT iodine

RT potassium iodides

**lugol solution**

USE lugol

**lumber industry**

INIS: 1992-03-10; ETDE: 1979-01-30

USE wood products industry

**luminal**

USE phenobarbital

**LUMINESCENCE**

\*BT1 photon emission

NT1 bioluminescence

NT1 cathodoluminescence

NT1 chemiluminescence

NT1 electroluminescence

NT1 fluorescence

NT2 resonance fluorescence

NT1 lyoluminescence

NT1 phosphorescence

NT1 photoluminescence

NT1 radioluminescence

NT2 radiothermoluminescence

NT1 thermoluminescence

NT2 radiothermoluminescence

RT glow curve

RT noctilucous clouds

RT traps

**LUMINESCENT CHAMBERS**

RT phosphors

RT scintillation counters

**LUMINESCENT CONCENTRATORS**

INIS: 2000-04-12; ETDE: 1980-02-11

Solar concentrators based on light absorption and reemission by luminescent molecules dispersed in a transparent medium and on light guiding by total internal reflections.

UF fluorescent concentrators

\*BT1 solar concentrators

RT phosphors

**LUMINESCENT DOSEMETERS**

\*BT1 dosimeters

NT1 rpl dosimeters

NT1 thermoluminescent dosimeters

RT dielectric track detectors

RT glass scintillators

RT phosphors

**LUMINOL**

INIS: 2000-04-12; ETDE: 1982-01-21

A crystalline compound giving a bluish luminescence when oxidized.

UF 5-amino-2,3-dihydro-1,4-phthalazine-dione

\*BT1 amines

\*BT1 phthalazines

RT chemiluminescence

RT ketones

**LUMINOSITY**

\*BT1 optical properties

RT brightness

RT visibility

**luminous flux density**

INIS: 1986-07-09; ETDE: 1981-10-24

USE illuminance

**LUMINOUS PAINTS**

\*BT1 paints

RT dial painters

**lummus clean fuel firm coal process**

INIS: 2000-04-12; ETDE: 1981-10-24

USE coal liquefaction

**LUNA SPACE PROBES**

INIS: 1979-02-21; ETDE: 1979-03-28

\*BT1 space vehicles

**LUNAR ATMOSPHERE**

\*BT1 satellite atmospheres

RT lunar materials

RT moon

**LUNAR MATERIALS**

UF materials (lunar)

BT1 materials

RT anorthosites

RT apollo project

RT dusts

RT lunar atmosphere

RT moon

RT rocks

**lunar occultation**

USE eclipse

**lund synchrotron**

USE lusy

**lung cells**

INIS: 1978-11-24; ETDE: 1978-04-06

USE respiratory tract cells

**LUNG CLEARANCE**

\*BT1 excretion

RT exhalation

RT lungs

RT respiratory system

**LUNGS**

UF alveoli (pulmonary)

UF pulmonary lavage

\*BT1 organs

BT1 respiratory system

RT blood circulation

RT bronchi

RT chest

RT diaphragm

RT emphysema

RT lavage

RT lung clearance

RT lymphatic system

RT pleura

RT pneumoconioses

RT pneumonia

RT pneumonitis

RT respiration

RT respiratory tract cells

**LUPUS**

\*BT1 immune system diseases

RT skin

RT skin diseases

**LURGI CFB GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1986-10-07

Circulating fluidized bed gasification process.

\*BT1 coal gasification

RT lurgi process

**LURGI PROCESS**

2000-04-12

A process in which noncaking coal is converted into intermediate- or high-btu gas at 1150 to 1400 degrees F and 350 to 450 psi in a moving bed gasifier. Substitution of air for oxygen will produce low-btu gas.

\*BT1 coal gasification

RT lurgi cfb gasification process

RT lurgi slagging process

RT sasol-ii process

RT sng processes

**LURGI-RUHRGAS PROCESS**

2000-04-12

An indirect-heat process for retorting finely crushed shale. Heat-carrier solids (sand grains, coke particles, or spent shale solids) are mixed with shale in a screw-type conveyor where retorting takes place.

RT oil shales

RT retorting

**LURGI SLAGGING PROCESS**

INIS: 2000-04-12; ETDE: 1979-03-29

\*BT1 coal gasification

RT lurgi process

**LUSY**

UF lund synchrotron

\*BT1 synchrotrons

**LUTEINIZING HORMONE**

ETDE: 2005-01-28

(Prior to January 2005 LH was used for this concept.)

UF interstitial cell stim hormone

UF lh (luteinizing hormone)

\*BT1 glycoproteins

\*BT1 gonadotropins

RT androgens

RT estrous cycle

RT lh-rh

**luteotropic hormone**

USE lth

**LUTETIUM**

\*BT1 rare earths

**LUTETIUM 151***INIS: 1983-09-05; ETDE: 1982-07-27*

\*BT1 lutetium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 proton decay radioisotopes  
 \*BT1 rare earth nuclei

**LUTETIUM 152***INIS: 1988-10-10; ETDE: 1987-11-24*

\*BT1 lutetium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 153***INIS: 1986-05-05; ETDE: 1986-07-03*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 lutetium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 154***1984-11-30*

\*BT1 electron capture radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 lutetium isotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**LUTETIUM 155***INIS: 1976-01-27; ETDE: 1975-09-12*

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 156***INIS: 1976-11-08; ETDE: 1976-09-14*

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 157***INIS: 1978-04-21; ETDE: 1978-07-06*

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**LUTETIUM 158***INIS: 1979-12-20; ETDE: 1980-01-24*

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**LUTETIUM 159***INIS: 1980-12-01; ETDE: 1981-01-09*

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**LUTETIUM 160***INIS: 1979-12-20; ETDE: 1980-01-24*

\*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**LUTETIUM 161**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 lutetium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 162***INIS: 1976-07-06; ETDE: 1976-04-19*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 163***INIS: 1979-12-20; ETDE: 1980-01-24*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 164**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 165**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 166**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 167**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 168**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 169**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes

\*BT1 lutetium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 170**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 lutetium isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 171**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 lutetium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 172**

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 lutetium isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei

**LUTETIUM 173**

\*BT1 electron capture radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 years living radioisotopes

**LUTETIUM 174**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 lutetium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 years living radioisotopes

**LUTETIUM 174 TARGET***INIS: 1975-12-19; ETDE: 1976-07-12*  
BT1 targets**LUTETIUM 175**

\*BT1 lutetium isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

**LUTETIUM 175 TARGET***ETDE: 1976-07-12*  
BT1 targets**LUTETIUM 176**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 internal conversion radioisotopes  
 \*BT1 lutetium isotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rare earth nuclei  
 \*BT1 years living radioisotopes

**LUTETIUM 176 TARGET***ETDE: 1976-07-09*  
BT1 targets**LUTETIUM 177**

\*BT1 beta-minus decay radioisotopes

- \*BT1 days living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 lutetium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 178**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 179**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 180**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 181**

*INIS: 1982-06-09; ETDE: 1982-07-08*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 182**

*1982-06-09*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei

**LUTETIUM 183**

*1983-03-14*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 lutetium isotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LUTETIUM 184**

*INIS: 1988-03-08; ETDE: 1988-04-07*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 lutetium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**LUTETIUM 187**

*INIS: 1992-09-22; ETDE: 1982-06-07*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 lutetium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**LUTETIUM ADDITIONS**

*Alloys containing not more than 1% Lu are listed here.*

- \*BT1 lutetium alloys
- \*BT1 rare earth additions

**LUTETIUM ALLOYS**

*Alloys containing more than 1% Lu.*

- \*BT1 rare earth alloys
- NT1 lutetium additions
- NT1 lutetium base alloys

**LUTETIUM BASE ALLOYS**

- \*BT1 lutetium alloys

**LUTETIUM BORIDES**

- \*BT1 borides
- \*BT1 lutetium compounds

**LUTETIUM BROMIDES**

- \*BT1 bromides
- \*BT1 lutetium compounds

**LUTETIUM CARBIDES**

- \*BT1 carbides
- \*BT1 lutetium compounds

**LUTETIUM CARBONATES**

*INIS: 2000-04-12; ETDE: 1989-05-11*

- \*BT1 carbonates
- \*BT1 lutetium compounds

**LUTETIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 lutetium compounds

**LUTETIUM COMPLEXES**

- \*BT1 rare earth complexes

**LUTETIUM COMPOUNDS**

*1997-06-17*

- UF lutetium perchlorates
- UF lutetium selenides
- BT1 rare earth compounds
- NT1 lutetium borides
- NT1 lutetium bromides
- NT1 lutetium carbides
- NT1 lutetium carbonates
- NT1 lutetium chlorides
- NT1 lutetium fluorides
- NT1 lutetium hydrides
- NT1 lutetium hydroxides
- NT1 lutetium iodides
- NT1 lutetium nitrates
- NT1 lutetium oxides
- NT1 lutetium phosphates
- NT1 lutetium silicates
- NT1 lutetium silicides
- NT1 lutetium sulfates
- NT1 lutetium sulfides
- NT1 lutetium tungstates

**LUTETIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 lutetium compounds

**LUTETIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 lutetium compounds

**LUTETIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 lutetium compounds

**LUTETIUM IODIDES**

- \*BT1 iodides
- \*BT1 lutetium compounds

**LUTETIUM IONS**

- \*BT1 ions

**LUTETIUM ISOTOPES**

- BT1 isotopes
- NT1 lutetium 151
- NT1 lutetium 152
- NT1 lutetium 153
- NT1 lutetium 154
- NT1 lutetium 155
- NT1 lutetium 156
- NT1 lutetium 157
- NT1 lutetium 158
- NT1 lutetium 159
- NT1 lutetium 160
- NT1 lutetium 161
- NT1 lutetium 162

NT1 lutetium 163

NT1 lutetium 164

NT1 lutetium 165

NT1 lutetium 166

NT1 lutetium 167

NT1 lutetium 168

NT1 lutetium 169

NT1 lutetium 170

NT1 lutetium 171

NT1 lutetium 172

NT1 lutetium 173

NT1 lutetium 174

NT1 lutetium 175

NT1 lutetium 176

NT1 lutetium 177

NT1 lutetium 178

NT1 lutetium 179

NT1 lutetium 180

NT1 lutetium 181

NT1 lutetium 182

NT1 lutetium 183

NT1 lutetium 184

NT1 lutetium 187

**LUTETIUM NITRATES**

- \*BT1 lutetium compounds
- \*BT1 nitrates

**LUTETIUM OXIDES**

- \*BT1 lutetium compounds
- \*BT1 oxides

**lutetium perchlorates**

*1996-06-28*

(Until June 1996 this was a valid descriptor.)

- USE lutetium compounds
- USE perchlorates

**LUTETIUM PHOSPHATES**

*INIS: 1975-10-23; ETDE: 1975-12-16*

- \*BT1 lutetium compounds
- \*BT1 phosphates

**lutetium selenides**

*INIS: 1996-06-28; ETDE: 1975-11-28*

(Until June 1996 this was a valid descriptor.)

- USE lutetium compounds
- USE selenides

**LUTETIUM SILICATES**

*INIS: 1979-02-21; ETDE: 1977-04-12*

- \*BT1 lutetium compounds
- \*BT1 silicates

**LUTETIUM SILICIDES**

*INIS: 1978-07-31; ETDE: 1978-09-11*

- \*BT1 lutetium compounds
- \*BT1 silicides

**LUTETIUM SULFATES**

- \*BT1 lutetium compounds
- \*BT1 sulfates

**LUTETIUM SULFIDES**

- \*BT1 lutetium compounds
- \*BT1 sulfides

**LUTETIUM TUNGSTATES**

*INIS: 2000-04-12; ETDE: 1990-05-16*

- \*BT1 lutetium compounds
- \*BT1 tungstates

**LUXEMBOURG**

*1995-04-03*

- BT1 developed countries
- \*BT1 western europe
- RT oecd

**LVR-15 REACTOR**

*1995-01-04*

*Nuclear Research Institute, Rez, Czech Republic.*

UF czech wwr-s reactor



UF *prague wwr-s reactor*  
 UF *wwr-c-prague reactor*  
 UF *wwr-s-rez reactor*  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 wwr type reactors  
 \*BT1 zero power reactors

**LWBR TYPE REACTORS**

\*BT1 breeder reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**LWGR TYPE REACTORS**

1996-02-09

UF *rbmk type reactors*  
 UF *water cooled graphite moderated reactors*

\*BT1 graphite moderated reactors  
 \*BT1 water cooled reactors  
 NT1 aps reactor  
 NT1 beloyarsk-1 reactor  
 NT1 beloyarsk-2 reactor  
 NT1 bilibin reactor  
 NT1 chernobylsk-1 reactor  
 NT1 chernobylsk-2 reactor  
 NT1 chernobylsk-3 reactor  
 NT1 chernobylsk-4 reactor  
 NT1 ignalina-1 reactor  
 NT1 ignalina-2 reactor  
 NT1 kursk-1 reactor  
 NT1 kursk-2 reactor  
 NT1 kursk-3 reactor  
 NT1 kursk-4 reactor  
 NT1 leningrad-1 reactor  
 NT1 leningrad-2 reactor  
 NT1 leningrad-3 reactor  
 NT1 leningrad-4 reactor  
 NT1 n-reactor  
 NT1 rpt reactor  
 NT1 smolensk-1 reactor  
 NT1 smolensk-2 reactor  
 NT1 smolensk-3 reactor  
 NT1 uwtr reactor  
 RT enriched uranium reactors  
 RT power reactors  
 RT thermal reactors

**LWOR TYPE REACTORS**

UF *water moderated organic cooled reactors*  
 \*BT1 organic cooled reactors  
 \*BT1 water moderated reactors  
 RT power reactors

**lwr type reactors**

INIS: 2000-04-12; ETDE: 1983-03-07  
 USE water cooled reactors

**LYAPUNOV METHOD**

INIS: 1976-09-06; ETDE: 1976-11-01  
 UF *liapunov method*  
 BT1 calculation methods  
 RT differential equations  
 RT limit cycle  
 RT stability

**LYASES**

Code number 4.  
 \*BT1 enzymes  
 NT1 carbon-carbon lyases  
 NT2 aldehyde-lyases  
 NT2 aldolases  
 NT2 carboxy-lyases  
 NT3 carboxylase  
 NT3 decarboxylases  
 NT3 ribulose diphosphate carboxylase  
 NT1 carbon-oxygen lyases  
 NT2 hyaluronidase  
 NT2 hydro-lyases

NT3 carbonic anhydrase  
 NT1 cyclases  
 NT1 dna methylases  
 RT aldehydes  
 RT carboxylation  
 RT decarboxylation

**lyman alpha emission**

USE lyman lines

**lyman alpha radiation**

USE lyman lines

**lyman continuum**

USE lyman lines

**LYMAN LINES**

Includes all aspects of the transitions associated with Lyman lines.

UF *lyman alpha emission*  
 UF *lyman alpha radiation*  
 UF *lyman continuum*  
 UF *lyman series*  
 RT hydrogen  
 RT spectra

**lyman series**

USE lyman lines

**LYMANTRIA DISPAR**

UF *gypsy moth*  
 \*BT1 moths

**LYMPH**

\*BT1 body fluids  
 RT lymphatic system

**LYMPH NODES**

BT1 lymphatic system  
 RT immune system diseases  
 RT lymph vessels  
 RT reticuloendothelial system

**LYMPH VESSELS**

UF *thoracic duct*  
 BT1 lymphatic system  
 RT angiomas  
 RT lymph nodes  
 RT veins

**LYMPHATIC SYSTEM**

UF *appendix (vermiform)*  
 UF *bursa of fabricius*  
 UF *tonsils*  
 NT1 lymph nodes  
 NT1 lymph vessels  
 NT1 thymus  
 RT cardiovascular system  
 RT leukemia  
 RT lungs  
 RT lymph  
 RT lymphocytes  
 RT lymphomas  
 RT organs  
 RT radiation syndrome  
 RT reticuloendothelial system  
 RT spleen  
 RT splenectomy

**lymphoblastomas**

USE lymphomas

**LYMPHOCYTES**

UF *lymphoid cells*  
 \*BT1 connective tissue cells  
 \*BT1 leukocytes  
 RT concanavalin a  
 RT histocompatibility complex  
 RT hybridomas  
 RT immune system diseases  
 RT immunity  
 RT lymphatic system

RT lymphokines  
 RT lymphomas  
 RT lymphopenia  
 RT natural killer cells  
 RT phytohemagglutinin  
 RT plasma cells  
 RT radiation syndrome  
 RT thymus

**lymphogranuloma malignum**

USE hodgkins disease

**lymphogranulomas**

USE lymphomas

**lymphogranulomatosis**

USE hodgkins disease

**lymphoid cells**

USE lymphocytes

**LYMPHOKINES**

INIS: 1999-09-08; ETDE: 1981-01-09  
 Biologically active molecules released from lymphocytes stimulated by antigens of mitogens.

UF *cytokines*  
 UF *interleukins*  
 \*BT1 growth factors  
 NT1 interferon  
 RT complement  
 RT immunity  
 RT lymphocytes

**LYMPHOMAS**

UF *lymphoblastomas*  
 UF *lymphogranulomas*  
 \*BT1 immune system diseases  
 \*BT1 neoplasms  
 NT1 hodgkins disease  
 NT1 lymphosarcomas  
 RT lymphatic system  
 RT lymphocytes

**LYMPHOPENIA**

\*BT1 leukopenia  
 RT lymphocytes

**lymphopoiesis**

USE leukopoiesis

**LYMPHOSARCOMAS**

\*BT1 lymphomas  
 \*BT1 sarcomas

**lynchburg pool reactor**

2000-04-12

USE lpr reactor

**LYNDOCHITE**

2000-04-12

\*BT1 oxide minerals  
 \*BT1 thorium minerals  
 RT niobium oxides  
 RT thorium oxides

**LYNITE**

2000-04-12

\*BT1 aluminium base alloys  
 \*BT1 copper alloys  
 \*BT1 iron alloys  
 \*BT1 zinc alloys

**LYOLUMINESCENCE**

INIS: 1977-09-06; ETDE: 1977-10-19

\*BT1 chemical radiation effects  
 \*BT1 luminescence  
 RT dosimetry

**LYOPHILIZATION**

SF *freeze drying*  
 RT drying  
 RT freezing

**LYSERGIC ACID**

- \*BT1 alkaloids
- \*BT1 heterocyclic acids
- \*BT1 indoles

**lysholm engine**

INIS: 2000-04-12; ETDE: 1984-07-20  
USE helical rotary screw expander

**LYSIMETERS**

INIS: 1986-07-09; ETDE: 1985-11-19  
Devices for measuring the percolation of water through soils and for determining the soluble constituents removed in the drainage.  
BT1 measuring instruments

**LYSINE**

- UF diaminocaproic acid
- \*BT1 amino acids

**LYSIS**

INIS: 1976-05-07; ETDE: 1975-11-11

- NT1 electrolysis
- NT2 anodization
- NT2 electrodeposition
- NT3 electroplating
- NT2 electropolishing
- NT2 electrorefining
- NT2 photoelectrolysis
- NT1 hemolysis
- NT1 hydrolysis
  - NT2 acid hydrolysis
  - NT2 alkaline hydrolysis
  - NT2 autohydrolysis
  - NT2 enzymatic hydrolysis
  - NT2 saccharification
  - NT2 saponification

**LYSOSOMES**

1999-04-20  
RT golgi complexes  
RT subcellular distribution

**LYSOZYME**

Code number 3.2.1.17.  
\*BT1 o-glycosyl hydrolases  
RT mucoproteins  
RT polysaccharides

**M CAPTURE**

INIS: 1979-09-18; ETDE: 1979-08-09  
\*BT1 electron capture decay

**M CENTERS**

- \*BT1 color centers

**M CODES**

- BT1 computer codes

**M CONVERSION**

- UF m-conversion coefficient
- \*BT1 internal conversion

**m-conversion coefficient**

USE m conversion

**m-gas process**

INIS: 2000-04-12; ETDE: 1979-02-27  
Two vessel system to convert hydrocarbons to fuel gas in which steam gasification of feedstock occurs in one fluidized bed and regeneration of catalyst with combustion of coke and fuel in a separate fluidized bed.  
(Prior to January 1995, this was a valid ETDE descriptor.)  
SEE synthetic fuels

**M SHELL**

INIS: 1976-07-06; ETDE: 1976-08-24  
Atomic electron shells.  
UF atomic shells (m)  
BT1 electronic structure

**M1-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28  
Magnetic dipole transitions.  
UF magnetic dipole transitions  
\*BT1 multipole transitions

**M2-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-05-01  
Magnetic quadrupole transitions.  
UF magnetic quadrupole transitions  
\*BT1 multipole transitions

**M3-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28  
Magnetic octupole transitions.  
UF magnetic octupole transitions  
\*BT1 multipole transitions

**M4-TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-05-01  
Magnetic hexadecapole transitions.  
UF magnetic hexadecapole transitions  
\*BT1 multipole transitions

**ma 754**

INIS: 2000-04-12; ETDE: 1979-08-09  
USE nickel base alloys

**ma 956**

INIS: 2000-04-12; ETDE: 1979-08-09  
USE iron base alloys

**MAANSHAN-1 REACTOR**

1991-10-09  
Taiwan, China.  
\*BT1 pwr type reactors

**mac**

USE maximum acceptable contamination

**macaca**

USE macacus

**MACACUS**

- UF macaca
- UF rhesus monkeys
- \*BT1 monkeys

**MACAO**

BT1 asia

**macedonia (the former yugoslav republic of)**

INIS: 1997-06-05; ETDE: 1998-04-10  
USE the former yugoslav republic of macedonia

**MACEDONIAN ORGANIZATIONS**

2004-03-31  
BT1 national organizations

**MACERALS**

INIS: 1997-06-19; ETDE: 1977-06-24  
Petrologic units seen in microscopic sections of coal.  
NT1 exinite  
NT1 inertinite  
NT1 resinite  
NT1 vitrinite  
RT coal  
RT lithotypes  
RT petrology

**MACH NUMBER**

- BT1 dimensionless numbers
- BT1 velocity
- RT aerodynamics
- RT flow rate
- RT shock waves

**MACH PRINCIPLE**

- BT1 hypothesis
- RT cosmology

- RT general relativity theory
- RT space-time

**MACH-ZEHNDER INTERFEROMETER**

- \*BT1 interferometers

**MACHINE PARTS**

1996-04-18

- UF couplings (machine parts)
- NT1 brakes
  - NT2 water brakes
- NT1 gears
- NT1 mechanical shafts
- NT1 mechanical transmissions
- NT1 pistons
- NT1 springs
- RT castings
- RT rotors
- RT stators

**MACHINE TOOLS**

- \*BT1 tools
- NT1 grinding machines
- NT1 lathes
- NT1 milling machines
- RT computer-aided manufacturing
- RT drill bits
- RT machining
- RT presses

**MACHINE TRANSLATIONS**

INIS: 1992-08-18; ETDE: 1976-12-15  
Not for translation of computer programs, for which use TRANSLATORS.  
RT computers  
RT dictionaries  
RT expert systems  
RT standardized terminology

**MACHINERY**

INIS: 1992-01-16; ETDE: 1979-12-10

- BT1 equipment
- NT1 pulverizers
- NT1 refrigerating machinery
- NT1 turbomachinery
  - NT2 turbines
    - NT3 gas turbines
    - NT4 coal-fired gas turbines
    - NT3 hydraulic turbines
      - NT4 pump turbines
    - NT3 radial inflow turbines
    - NT3 radial-outflow reaction turbines
    - NT3 rotary separator turbines
    - NT3 steam turbines
    - NT3 wind turbines
      - NT4 diffuser augmented turbines
      - NT4 horizontal axis turbines
      - NT4 vertical axis turbines
        - NT5 giromill turbines
        - NT5 tornado turbines
      - NT4 vortex augmented turbines
    - NT2 turbochargers
    - NT2 turbodrills
    - NT2 turbofan engines
    - NT2 turbogenerators
    - NT2 turbojet engines
  - NT1 winding machines
  - RT manufacturing

**MACHINING**

- NT1 chemical machining
- NT2 electrochemical machining
- NT1 cutting
- NT1 electron beam machining
- NT1 grinding
- NT1 honing
- NT1 laser beam machining
- NT1 materials drilling
  - NT2 laser drilling
  - NT2 rock drilling

NT1 milling  
 NT1 spark machining  
 NT1 ultrasonic machining  
 RT cutting fluids  
 RT lathes  
 RT machine tools  
 RT materials working  
 RT surface finishing  
 RT tools

**MACKINTOSHITE**

2000-04-12

\*BT1 silicate minerals  
 \*BT1 thorium minerals  
 \*BT1 uranium minerals  
 RT thorium silicates  
 RT uranium silicates

**MACROPHAGES**

\*BT1 connective tissue cells  
 \*BT1 phagocytes  
 RT phagocytosis  
 RT reticuloendothelial system  
 RT spleen

**MADAGASCAR**

BT1 africa  
 BT1 developing countries  
 BT1 islands  
 NT1 malagasy republic  
 RT indian ocean

**MADARAS ROTORS**

INIS: 2000-04-12; ETDE: 1978-10-23

BT1 rotors  
 RT vertical axis turbines

**MAGELLANIC CLOUDS**

BT1 galaxies

**MAGIC NUCLEI**

UF magic numbers  
 BT1 nuclei  
 RT nuclear structure  
 RT stable isotopes

**magic numbers**

USE magic nuclei

**MAGMA**

1996-04-29

*Naturally occurring mobile rock materials, generated within the earth and capable of intrusion and extrusion, from which igneous rocks are thought to have been derived by solidification and related processes.*

RT igneous rocks  
 RT lava  
 RT magmatism  
 RT volcanism  
 RT volcanoes

**MAGMA SYSTEMS**

1992-03-30

*A geothermal system in which the dominant heat source is a reservoir of magma.*

BT1 geothermal systems

**magmamax process**

INIS: 2000-04-12; ETDE: 1977-11-29

USE binary-fluid systems

**MAGMATIC WATER**

2000-04-12

*Water that exists in, or which is derived from, molten igneous rocks or magma.*

\*BT1 ground water

**MAGMATISM**

INIS: 1993-01-22; ETDE: 1978-07-05

*The development, movement, and solidification of magma to igneous rocks.*

RT igneous rocks

RT magma  
 RT volcanism

**MAGNALIUM**

2000-04-12

\*BT1 aluminium base alloys  
 \*BT1 copper alloys  
 \*BT1 magnesium alloys

**MAGNESIUM**

\*BT1 alkaline earth metals

**MAGNESIUM 19**

2004-09-14

\*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 magnesium isotopes  
 \*BT1 milliseconds living radioisotopes

**MAGNESIUM 20**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 magnesium isotopes  
 \*BT1 milliseconds living radioisotopes

**MAGNESIUM 21**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 magnesium isotopes  
 \*BT1 milliseconds living radioisotopes

**MAGNESIUM 22**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 magnesium isotopes  
 \*BT1 seconds living radioisotopes

**MAGNESIUM 23**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 magnesium isotopes  
 \*BT1 seconds living radioisotopes

**MAGNESIUM 23 TARGET**

INIS: 1976-04-03; ETDE: 1976-07-12

BT1 targets

**MAGNESIUM 24**

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 magnesium isotopes  
 \*BT1 stable isotopes  
 RT magnesium 24 beams  
 RT magnesium 24 reactions

**MAGNESIUM 24 BEAMS**

INIS: 1976-01-27; ETDE: 1976-03-12

\*BT1 ion beams  
 RT magnesium 24

**MAGNESIUM 24 REACTIONS**

\*BT1 heavy ion reactions  
 RT magnesium 24

**MAGNESIUM 24 TARGET**

ETDE: 1976-07-09

BT1 targets

**MAGNESIUM 25**

1995-01-04

\*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 magnesium isotopes  
 \*BT1 stable isotopes  
 RT magnesium 25 beams

**MAGNESIUM 25 BEAMS**

1995-01-04

\*BT1 ion beams  
 RT magnesium 25

**MAGNESIUM 25 REACTIONS**

INIS: 1982-04-14; ETDE: 1981-08-04

\*BT1 heavy ion reactions

**MAGNESIUM 25 TARGET**

ETDE: 1976-07-09

BT1 targets

**MAGNESIUM 26**

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 magnesium isotopes  
 \*BT1 stable isotopes

**MAGNESIUM 26 REACTIONS**

INIS: 1982-06-09; ETDE: 1982-07-08

\*BT1 heavy ion reactions

**MAGNESIUM 26 TARGET**

ETDE: 1976-07-09

BT1 targets

**MAGNESIUM 27**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 magnesium isotopes  
 \*BT1 minutes living radioisotopes

**MAGNESIUM 27 TARGET**

INIS: 1979-04-27; ETDE: 1979-05-25

BT1 targets

**MAGNESIUM 28**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 light nuclei  
 \*BT1 magnesium isotopes  
 RT radioisotope generators

**MAGNESIUM 28 DECAY RADIOISOTOPES**

INIS: 1990-01-30; ETDE: 1990-02-13

\*BT1 heavy ion decay radioisotopes

NT1 plutonium 236

NT1 uranium 234

RT magnesium 28 emission decay

**MAGNESIUM 28 EMISSION DECAY**

INIS: 1990-01-30; ETDE: 1990-02-13

\*BT1 heavy ion emission decay

RT magnesium 28 decay radioisotopes

**MAGNESIUM 29**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 magnesium isotopes  
 \*BT1 seconds living radioisotopes

**MAGNESIUM 30**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 magnesium isotopes  
 \*BT1 milliseconds living radioisotopes

**MAGNESIUM 30 EMISSION DECAY**

INIS: 1989-10-27; ETDE: 1989-11-21

\*BT1 heavy ion emission decay

**MAGNESIUM 31**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 magnesium isotopes  
 \*BT1 milliseconds living radioisotopes

**MAGNESIUM 32**

INIS: 1977-10-17; ETDE: 1977-08-09

\*BT1 beta-minus decay radioisotopes

\*BT1 even-even nuclei

- \*BT1 light nuclei
- \*BT1 magnesium isotopes

**MAGNESIUM 33**

*INIS: 1980-07-24; ETDE: 1980-02-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes

**MAGNESIUM 34**

*INIS: 1980-07-24; ETDE: 1980-02-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes

**MAGNESIUM 35**

*INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes

**MAGNESIUM 36**

*INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes

**MAGNESIUM 39**

*2006-09-25*

- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes
- \*BT1 nanoseconds living radioisotopes

**MAGNESIUM 40**

*2005-01-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 magnesium isotopes

**MAGNESIUM ADDITIONS**

*Alloys containing not more than 1% Mg are listed here.*

- \*BT1 magnesium alloys
- NT1 alloy-al95cu4
- NT2 duralumin
- NT1 bondur
- NT1 zamak

**MAGNESIUM ALLOY-AZ31B**

*2000-04-12*

- \*BT1 aluminium alloys
- \*BT1 magnesium base alloys
- \*BT1 manganese additions
- \*BT1 zinc alloys

**MAGNESIUM ALLOY-EK**

*2000-04-12*

- \*BT1 magnesium base alloys
- \*BT1 rare earth alloys
- \*BT1 zirconium additions

**MAGNESIUM ALLOY-EZ**

*2000-04-12*

- \*BT1 magnesium base alloys
- \*BT1 rare earth alloys
- \*BT1 zinc alloys
- \*BT1 zirconium additions

**MAGNESIUM ALLOY-HK31A**

*2000-04-12*

- \*BT1 magnesium base alloys
- \*BT1 thorium alloys
- \*BT1 zirconium additions

**MAGNESIUM ALLOY-ZR**

*2000-04-12*

- \*BT1 chromium alloys
- \*BT1 magnesium base alloys
- \*BT1 zinc alloys

**MAGNESIUM ALLOYS**

*Alloys containing more than 1% Mg.*

- BT1 alloys
- NT1 duralumin
- NT1 magnalium
- NT1 magnesium additions
- NT2 alloy-al95cu4
- NT3 duralumin
- NT2 bondur
- NT2 zamak
- NT1 magnesium base alloys
- NT2 magnesium alloy-az31b
- NT2 magnesium alloy-ek
- NT2 magnesium alloy-ez
- NT2 magnesium alloy-hk31a
- NT2 magnesium alloy-zr
- NT2 magnox

**MAGNESIUM ARSENIDES**

*INIS: 2000-04-12; ETDE: 1976-11-29*

- \*BT1 arsenides
- \*BT1 magnesium compounds

**MAGNESIUM BASE ALLOYS**

- \*BT1 magnesium alloys
- NT1 magnesium alloy-az31b
- NT1 magnesium alloy-ek
- NT1 magnesium alloy-ez
- NT1 magnesium alloy-hk31a
- NT1 magnesium alloy-zr
- NT1 magnox

**MAGNESIUM BORIDES**

- \*BT1 borides
- \*BT1 magnesium compounds

**MAGNESIUM BROMIDES**

- \*BT1 bromides
- \*BT1 magnesium compounds

**MAGNESIUM CARBIDES**

- \*BT1 carbides
- \*BT1 magnesium compounds

**MAGNESIUM CARBONATES**

*1996-06-26*

- \*BT1 carbonates
- \*BT1 magnesium compounds
- RT ankerite
- RT carbonate minerals
- RT dolomite
- RT limestone

**MAGNESIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 magnesium compounds
- RT carnallite
- RT halide minerals

**MAGNESIUM COMPLEXES**

- \*BT1 alkaline earth metal complexes

**MAGNESIUM COMPOUNDS**

*1997-06-17*

- BT1 alkaline earth metal compounds
- NT1 grignard reagents
- NT1 magnesium arsenides
- NT1 magnesium borides
- NT1 magnesium bromides
- NT1 magnesium carbides
- NT1 magnesium carbonates
- NT1 magnesium chlorides
- NT1 magnesium fluorides
- NT1 magnesium hydrides
- NT1 magnesium hydroxides
- NT1 magnesium iodides
- NT1 magnesium nitrates
- NT1 magnesium nitrides
- NT1 magnesium oxides
- NT1 magnesium perchlorates
- NT1 magnesium phosphates
- NT1 magnesium silicates

- NT1 magnesium silicides
- NT1 magnesium sulfates
- NT1 magnesium sulfides
- NT1 magnesium tellurides

**MAGNESIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 magnesium compounds

**MAGNESIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 magnesium compounds

**MAGNESIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 magnesium compounds

**MAGNESIUM IODIDES**

- \*BT1 iodides
- \*BT1 magnesium compounds

**MAGNESIUM IONS**

- \*BT1 ions

**MAGNESIUM ISOTOPES**

*1999-02-01*

- \*BT1 alkaline earth isotopes
- NT1 magnesium 19
- NT1 magnesium 20
- NT1 magnesium 21
- NT1 magnesium 22
- NT1 magnesium 23
- NT1 magnesium 24
- NT1 magnesium 25
- NT1 magnesium 26
- NT1 magnesium 27
- NT1 magnesium 28
- NT1 magnesium 29
- NT1 magnesium 30
- NT1 magnesium 31
- NT1 magnesium 32
- NT1 magnesium 33
- NT1 magnesium 34
- NT1 magnesium 35
- NT1 magnesium 36
- NT1 magnesium 39
- NT1 magnesium 40

**MAGNESIUM NITRATES**

- \*BT1 magnesium compounds
- \*BT1 nitrates

**MAGNESIUM NITRIDES**

- \*BT1 magnesium compounds
- \*BT1 nitrides

**MAGNESIUM OXIDES**

- \*BT1 magnesium compounds
- \*BT1 oxides
- RT novacekite
- RT oxide minerals
- RT spinels

**MAGNESIUM PERCHLORATES**

- \*BT1 magnesium compounds
- \*BT1 perchlorates

**MAGNESIUM PHOSPHATES**

- \*BT1 magnesium compounds
- \*BT1 phosphates
- RT phosphate minerals
- RT salecite

**MAGNESIUM SILICATES**

- \*BT1 magnesium compounds
- \*BT1 silicates
- RT enstatite
- RT lava
- RT olivine
- RT sepiolite
- RT serpentine
- RT silicate minerals
- RT sklodowskite

RT talc  
RT vermiculite

**MAGNESIUM SILICIDES**

INIS: 1976-10-07; ETDE: 1975-10-28

\*BT1 magnesium compounds  
\*BT1 silicides

**MAGNESIUM SLURRY SCRUBBING PROCESS**

INIS: 2000-04-12; ETDE: 1977-04-12

Process uses magnesium oxide to absorb sulfur dioxide in a wet scrubber. Aqueous slurry of magnesium sulfite formed in the scrubber is dried and calcined to regenerate magnesium oxide and produce an sulfur dioxide-rich gas stream for recovery of sulfuric acid or elemental sulfur.

\*BT1 desulfurization  
RT scrubbing  
RT waste processing

**MAGNESIUM SULFATES**

\*BT1 magnesium compounds  
\*BT1 sulfates  
RT lava  
RT polyhalite  
RT sulfate minerals

**MAGNESIUM SULFIDES**

\*BT1 magnesium compounds  
\*BT1 sulfides

**MAGNESIUM TELLURIDES**

INIS: 1991-09-16; ETDE: 1975-09-11

\*BT1 magnesium compounds  
\*BT1 tellurides

**MAGNET COILS**

UF coils (magnetic)  
UF magnetic coils  
\*BT1 electric coils  
NT1 pulsed magnet coils  
RT magnets  
RT septum magnets  
RT solenoids  
RT superconducting coils  
RT superconducting magnets  
RT winding machines

**MAGNET CORES**

UF cores (magnet)  
RT magnet pole pieces  
RT magnets

**MAGNET POLE PIECES**

RT magnet cores  
RT magnets

**MAGNET STEEL-KS**

2000-04-12

\*BT1 chromium steels  
\*BT1 cobalt alloys  
\*BT1 tungsten alloys

**MAGNETIC AMPLIFIERS**

\*BT1 amplifiers

**MAGNETIC ANALYZERS**

BT1 beam analyzers  
RT beam bending magnets  
RT electromagnetic lenses  
RT electrostatic septa  
RT septum magnets

**MAGNETIC BALANCES**

UF balances (magnetic)  
BT1 measuring instruments  
RT magnetic susceptibility

**MAGNETIC BAYS**

UF auroral substorms  
UF bays (magnetic)

UF polar substorms  
RT disturbances  
RT magnetic storms

**MAGNETIC BEARINGS**

BT1 bearings

**magnetic bremsstrahlung**

USE synchrotron radiation

**MAGNETIC CIRCUITS**

UF circuits (magnetic)  
RT electric coils

**MAGNETIC CIRCULAR DICHROISM**

INIS: 1994-06-27; ETDE: 1981-07-18

BT1 dichroism  
RT structural chemical analysis

**magnetic coils**

USE magnet coils

**MAGNETIC COMPRESSION**

UF pulsar concept  
BT1 compression  
RT linus reactors  
RT magnetic fields  
RT pinch effect

**MAGNETIC CONFINEMENT**

INIS: 1996-04-16; ETDE: 1989-11-02

\*BT1 plasma confinement  
NT1 h-mode plasma confinement  
NT1 l-mode plasma confinement  
RT electron rings  
RT ion rings  
RT magnetic field configurations  
RT rotational transform

**magnetic cooling**

INIS: 2000-04-12; ETDE: 1976-02-20

USE adiabatic demagnetization

**MAGNETIC CORES**

For the storage of information in machine-readable form only.

UF cores (magnetic)  
\*BT1 magnetic storage devices  
RT computers

**MAGNETIC DIPOLE MOMENTS**

BT1 dipole moments  
BT1 magnetic moments  
RT nuclear magnetic moments

**magnetic dipole transitions**

INIS: 1978-02-23; ETDE: 1978-04-28

USE m1-transitions

**MAGNETIC DIPOLES**

\*BT1 dipoles  
RT magnetic fields

**MAGNETIC DISKS**

UF disks (magnetic)  
\*BT1 magnetic storage devices

**MAGNETIC DRUMS**

\*BT1 magnetic storage devices

**MAGNETIC ENERGY STORAGE**

INIS: 1995-02-27; ETDE: 1977-01-28

\*BT1 energy storage  
NT1 superconducting magnetic energy storage  
RT magnetic energy storage equipment  
RT superconducting magnets

**MAGNETIC ENERGY STORAGE EQUIPMENT**

INIS: 1995-02-27; ETDE: 1977-09-19

\*BT1 energy storage systems  
BT1 equipment

RT magnetic energy storage  
RT magnets  
RT peaking power plants  
RT superconducting coils  
RT superconducting magnets

**MAGNETIC FIELD CONFIGURATIONS**

For pinch configurations, use the narrower terms of PINCHEFFECT.

NT1 closed configurations  
NT2 minimum average-b configurations  
NT2 multipolar configurations  
NT3 hexapolar configurations  
NT3 octupolar configurations  
NT3 quadrupolar configurations  
NT2 toroidal configuration  
NT1 magnetic field reversal  
NT1 magnetic field ripples  
NT1 magnetic islands  
NT1 magnetic surfaces  
NT2 mode rational surfaces  
NT1 open configurations  
NT2 baseball seam configurations  
NT2 cusped geometries  
NT2 magnetic mirror configurations  
NT3 tlm configurations  
NT2 minimum-b configurations  
RT confinement  
RT divertors  
RT helical configuration  
RT magnetic confinement  
RT magnetic fields  
RT magnetic reconnection  
RT pinch effect  
RT plasma  
RT reversed-field pinch devices  
RT rotational transform  
RT thermonuclear devices

**MAGNETIC FIELD REVERSAL**

INIS: 1981-08-31; ETDE: 1978-02-14

BT1 magnetic field configurations  
RT magnetic fields  
RT magnetic reconnection  
RT reverse-field pinch  
RT reversed-field mirrors

**MAGNETIC FIELD RIPPLES**

INIS: 1981-07-06; ETDE: 1978-04-06

BT1 magnetic field configurations  
RT magnetic fields  
RT plasma

**MAGNETIC FIELDS**

UF external magnetic fields  
UF fields (magnetic)  
UF magnetic force microscopy  
UF magnetolectricity  
UF photoelectromagnetic effect  
UF photomagnetolectric effect  
NT1 critical field  
NT1 force-free magnetic fields  
NT1 geomagnetic field  
NT1 interplanetary magnetic fields  
NT1 interstellar magnetic fields  
RT beta ratio  
RT biot-savart law  
RT crossed fields  
RT demagnetization  
RT electromagnetic fields  
RT end effects  
RT faraday method  
RT galvanomagnetic effect  
RT guiding-center approximation  
RT inhomogeneous fields  
RT langevin equation  
RT larmor radius  
RT levitation  
RT lorentz force

RT magnetic compression  
 RT magnetic dipoles  
 RT magnetic field configurations  
 RT magnetic field reversal  
 RT magnetic field ripples  
 RT magnetic flux  
 RT magnetic islands  
 RT magnetic mirror configurations  
 RT magnetic mirrors  
 RT magnetic properties  
 RT magnetic reconnection  
 RT magnetic rigidity  
 RT magnetism  
 RT magnetization  
 RT magneto-thermal effects  
 RT mirror ratio  
 RT righi-leduc effect  
 RT rotational transform  
 RT shear  
 RT shubnikov-de haas effect  
 RT stoermer theory  
 RT tlm configurations  
 RT trapping  
 RT zeeman effect

**MAGNETIC FILTERS**

INIS: 1983-03-15; ETDE: 1979-10-23

Devices for the collection or removal of magnetic particles from a liquid or gaseous stream by magnetic fields.

BT1 filters  
 RT filtration  
 RT magnetic separators  
 RT separation processes

**MAGNETIC FLUX**

UF flux (magnetic)  
 UF flux jumps  
 UF flux pinning  
 UF fluxoids  
 UF foucault current  
 UF magnetic vortices  
 UF pinning force  
 UF vortices (magnetic)  
 RT aharonov-bohm effect  
 RT flux density  
 RT flux quantization  
 RT magnetic fields  
 RT skin effect  
 RT superconductivity

**MAGNETIC FLUX COORDINATES**

INIS: 1988-11-16; ETDE: 1988-12-05

A coordinate system for a toroidally confined plasma in which the radial coordinate is defined by the magnetic flux contained within a given magnetic flux surface.

\*BT1 curvilinear coordinates  
 RT magnetic surfaces  
 RT plasma radial profiles  
 RT rotational transform

**magnetic force microscopy**

INIS: 2002-09-11; ETDE: 2002-08-26

USE atomic force microscopy  
 USE magnetic fields

**MAGNETIC FORCE WELDING**

\*BT1 welding  
 RT magnetic forming

**MAGNETIC FORMING**

\*BT1 materials working  
 RT magnetic force welding

**MAGNETIC GRADIENT****ACCELERATORS**

INIS: 1982-10-29; ETDE: 1980-01-15

Type of macroparticle accelerator which uses a high-gradient magnetic field to accelerate a projectile. The magnetic field motion of the

accelerator is synchronized with the projectile.

\*BT1 impact fusion drivers  
 RT impact fusion

**magnetic hexadecapole transitions**

INIS: 1978-02-23; ETDE: 1978-04-27

USE m4-transitions

**magnetic induction logging**

INIS: 2000-04-12; ETDE: 1976-06-07

USE induction logging

**MAGNETIC INSULATION**

Insulation of electric fields by means of magnetic fields; not for insulation of the magnetic fields themselves.

UF insulation (electrical, by magnetic fields)  
 UF insulation (magnetic)  
 RT confinement  
 RT thermionic diodes

**MAGNETIC ISLANDS**

INIS: 1981-07-06; ETDE: 1978-04-27

BT1 magnetic field configurations  
 RT magnetic fields  
 RT plasma

**MAGNETIC LENS****SPECTROMETERS**

UF intermediate image spectrometer  
 UF long-lens spectrometers  
 UF short-lens spectrometers  
 UF slatis-siegbahn spectrometers  
 \*BT1 magnetic spectrometers

**magnetic levitated trains**

INIS: 2000-04-12; ETDE: 1975-11-11

USE levitated trains

**magnetic liquids**

INIS: 2000-04-12; ETDE: 1985-03-12

(Prior to March 1997 this was a valid ETDE descriptor.)

USE liquids  
 USE magnetic materials

**MAGNETIC MATERIALS**

UF ferrofluids  
 UF liquid magnets  
 UF magnetic liquids  
 UF materials (magnetic)  
 BT1 materials  
 NT1 antiferromagnetic materials  
 NT1 ferrimagnetic materials  
 NT2 ferrites  
 NT1 ferromagnetic materials  
 RT magnetism

**MAGNETIC MIRROR****CONFIGURATIONS**

\*BT1 open configurations  
 NT1 tlm configurations  
 RT magnetic fields  
 RT magnetic mirrors  
 RT mirror ratio  
 RT plasma potential

**MAGNETIC MIRROR TYPE****REACTORS**

INIS: 1995-01-16; ETDE: 1976-09-15

UF field-reversed mirror reactors  
 UF frm reactors (thermonuclear)  
 BT1 thermonuclear reactors  
 NT1 mars reactor  
 NT1 minimars reactor  
 NT1 tmr reactors  
 RT magnetic mirrors  
 RT tmx devices

**MAGNETIC MIRRORS**

1996-07-23

Including systems with minimum-B configuration.

UF bsg devices  
 UF dcx devices  
 UF elmax devices  
 UF ixion  
 UF mfx device  
 UF mirrors (magnetic)  
 UF mtse devices  
 UF pr-6 device  
 UF pr-7 device  
 UF pr devices  
 UF vgl devices  
 \*BT1 open plasma devices  
 NT1 2x devices  
 NT1 alice  
 NT1 beta ii devices  
 NT1 bumpy tori  
 NT2 elmo bumpy torus  
 NT1 burnout devices  
 NT1 circe devices  
 NT1 deca devices  
 NT1 elmo devices  
 NT2 elmo bumpy torus  
 NT1 gol-3 device  
 NT1 imp device  
 NT1 mftf devices  
 NT1 ogra  
 NT1 phoenix devices  
 NT1 pleiade device  
 NT1 reversed-field mirrors  
 NT1 tandem mirrors  
 NT2 gamma 10 devices  
 NT2 phaedrus mirror devices  
 NT2 tara devices  
 NT2 tmx devices  
 RT magnetic fields  
 RT magnetic mirror configurations  
 RT magnetic mirror type reactors  
 RT mirror ratio  
 RT plasma potential  
 RT q devices  
 RT tlm configurations  
 RT tmr reactors

**MAGNETIC MOMENTS**

NT1 magnetic dipole moments  
 NT1 nuclear magnetic moments  
 RT fermi-segre formula  
 RT gyromagnetic ratio  
 RT magnetism  
 RT magnetization  
 RT quadrupole moments

**MAGNETIC MONOPOLES**

UF dirac monopoles  
 BT1 monopoles  
 \*BT1 postulated particles

**magnetic octupole transitions**

INIS: 1978-02-23; ETDE: 1978-04-28

USE m3-transitions

**magnetic permeability**

USE magnetic susceptibility

**MAGNETIC PROBES**

BT1 probes  
 RT magnetometers

**MAGNETIC PROPERTIES**

BT1 physical properties  
 NT1 magnetic susceptibility  
 NT1 magnetostriction  
 RT abrikosov theory  
 RT coercive force  
 RT domain structure  
 RT electrical properties

RT electromagnets  
 RT magnetic fields  
 RT magnetism  
 RT magnetization  
 RT magneto-optical effects  
 RT muon spin relaxation  
 RT permanent magnets

**MAGNETIC-PUMPING HEATING**

*Plasma heating by a series of periodic compressions and expansions in a limited region of the confinement volume by means of an RF modulation of the confining field.*

\*BT1 high-frequency heating  
 NT1 acoustic heating  
 NT1 collisional heating  
 NT1 transit-time magnetic pumping

**magnetic quadrupole transitions**

INIS: 1978-02-23; ETDE: 1978-04-27  
 USE m2-transitions

**MAGNETIC RECONNECTION**

INIS: 1987-03-24; ETDE: 1986-07-25  
*A topological rearrangement of the magnetic field lines surrounding a plasma.*

RT magnetic field configurations  
 RT magnetic field reversal  
 RT magnetic fields  
 RT reverse-field pinch  
 RT sawtooth oscillations  
 RT solar flares  
 RT solar radio bursts  
 RT solar x-ray bursts

**MAGNETIC REFRIGERATORS**

INIS: 1978-08-30; ETDE: 1978-06-14  
 BT1 refrigerators  
 RT cryogenics  
 RT cryostats  
 RT refrigeration

**MAGNETIC RESONANCE**

UF *abmr method*  
 BT1 resonance  
 NT1 eldor  
 NT1 electron spin resonance  
 NT2 acoustic esr  
 NT1 endor  
 NT1 ferrimagnetic resonance  
 NT1 ferromagnetic resonance  
 NT1 nuclear magnetic resonance  
 NT2 acoustic nmr  
 NT2 td-nmr  
 RT bloch equations  
 RT muon spin relaxation

**MAGNETIC REYNOLDS NUMBER**

\*BT1 reynolds number  
 RT magnetohydrodynamics

**MAGNETIC RIGIDITY**

RT magnetic fields  
 RT stratosphere

**MAGNETIC SEMICONDUCTORS**

INIS: 1976-01-28; ETDE: 1976-03-12  
 \*BT1 semiconductor materials  
 RT ferromagnetic materials

**MAGNETIC SEPARATORS**

INIS: 1994-06-27; ETDE: 1977-12-22  
 (Until June 1994 this concept was indexed to MAGNETIC FILTERS.)  
 BT1 concentrators  
 RT magnetic filters  
 RT separation processes

**MAGNETIC SHIELDING**

1998-10-22  
 (Until October, 1998, this concept was indexed by SHIELDING and MAGNETIC FIELDS.)  
 UF *screening (magnetic fields)*  
 BT1 shielding  
 RT superconductors

**MAGNETIC SPECIFIC HEAT**

INIS: 2000-04-12; ETDE: 1979-07-18  
*Magnetic contribution to specific heat.*  
 \*BT1 specific heat  
 RT electronic specific heat

**MAGNETIC SPECTROMETERS**

\*BT1 spectrometers  
 NT1 flat magnetic spectrometers  
 NT1 magnetic lens spectrometers

**MAGNETIC STARS**

UF *peculiar a-stars*  
 BT1 stars  
 RT pulsars  
 RT stellar magnetospheres  
 RT variable stars

**MAGNETIC STORAGE DEVICES**

BT1 memory devices  
 NT1 magnetic cores  
 NT1 magnetic disks  
 NT1 magnetic drums  
 NT1 magnetic tapes  
 NT2 video tapes

**MAGNETIC STORMS**

UF *geomagnetic storms*  
 RT disturbances  
 RT earth magnetosphere  
 RT forbush decrease  
 RT ionospheric storms  
 RT magnetic bays  
 RT sudden commencements

**MAGNETIC SURFACES**

INIS: 1981-05-11; ETDE: 1978-04-27  
 UF *flux surfaces*  
 BT1 magnetic field configurations  
 NT1 mode rational surfaces  
 RT divertors  
 RT equilibrium plasma  
 RT magnetic flux coordinates  
 RT plasma confinement  
 RT plasma radial profiles  
 RT rotational transform  
 RT stellarators  
 RT tokamak devices

**MAGNETIC SURVEYS**

1979-01-18  
 \*BT1 geophysical surveys  
 RT aerial monitoring  
 RT aerial prospecting  
 RT aerial surveying  
 RT exploration  
 RT geothermal exploration  
 RT induction logging  
 RT seismic surveys

**MAGNETIC SUSCEPTIBILITY**

UF *magnetic permeability*  
 UF *permeability (magnetic)*  
 UF *photomagnetic effect*  
 UF *susceptibility (magnetic)*  
 \*BT1 magnetic properties  
 RT curie point  
 RT curie-weiss law  
 RT magnetic balances  
 RT neel temperature

**MAGNETIC TAPES**

\*BT1 magnetic storage devices

NT1 video tapes

**MAGNETIC TESTING**

\*BT1 nondestructive testing

**magnetic traps (closed)**

USE closed configurations

**magnetic traps (open)**

USE open configurations

**magnetic vortices**

USE magnetic flux

**magnetic well**

USE minimum-b configurations

**MAGNETISM**

NT1 antiferromagnetism  
 NT2 mictomagnetism  
 NT1 diamagnetism  
 NT2 plasma diamagnetism  
 NT1 electromagnetism  
 NT1 ferrimagnetism  
 NT1 ferromagnetism  
 NT2 mictomagnetism  
 NT1 nuclear magnetism  
 NT1 paleomagnetism  
 NT1 paramagnetism  
 NT1 superparamagnetism  
 NT1 thermomagnetism  
 RT adiabatic demagnetization  
 RT demagnetization  
 RT magnetic fields  
 RT magnetic materials  
 RT magnetic moments  
 RT magnetic properties  
 RT magnetization  
 RT magnets  
 RT spin glass state

**MAGNETITE**

\*BT1 iron ores  
 \*BT1 oxide minerals  
 RT black sands  
 RT ferrite  
 RT iron oxides  
 RT spinels

**MAGNETIZATION**

1976-02-11  
*Magnetic moment of unit volume of a material.*  
 RT demagnetization  
 RT magnetic fields  
 RT magnetic moments  
 RT magnetic properties  
 RT magnetism

**MAGNETO-OPTICAL EFFECTS**

NT1 voigt effect  
 RT electro-optical effects  
 RT faraday effect  
 RT kerr effect  
 RT magnetic properties  
 RT optical properties  
 RT stark effect  
 RT zeeman effect

**MAGNETO-THERMAL EFFECTS**

INIS: 1975-10-23; ETDE: 1975-12-16  
 RT magnetic fields

**MAGNETOACOUSTIC WAVES**

UF *magnetosonic waves*  
 BT1 hydromagnetic waves  
 NT1 fast magnetoacoustic waves  
 RT magnetoacoustics

**MAGNETOACOUSTICS**

1999-01-20  
 BT1 acoustics

- RT hydromagnetic waves  
 RT magnetoacoustic waves  
 RT sound waves

**magnetolectricity**

- INIS: 1984-04-04; ETDE: 2002-03-28  
*Appearance of an electric field in certain substances when they are subjected to a static magnetic field.*  
 USE electrical properties  
 USE magnetic fields

**MAGNETOGASDYNAMICS**

- \*BT1 fluid mechanics  
 RT gas flow  
 RT magnetohydrodynamics

**magnetohydrodynamic channels**

- USE mhd channels

**magnetohydrodynamic generators**

- USE mhd generators

**magnetohydrodynamic waves**

- USE hydromagnetic waves

**MAGNETOHYDRODYNAMICS**

- \*BT1 hydrodynamics  
 RT direct energy conversion  
 RT fluid flow  
 RT hartmann number  
 RT magnetic reynolds number  
 RT magnetogasdynamics  
 RT mercier criterion  
 RT mhd equilibrium  
 RT mhd generators  
 RT mhd power plants  
 RT plasma  
 RT plasma fluid equations

**MAGNETOINDUCTION SENSORS**

- \*BT1 beam monitors  
 RT beam monitoring

**MAGNETOMETERS**

- BT1 measuring instruments  
 NT1 fluxgate magnetometers  
 NT1 moving coil magnetometers  
 NT1 proton precession magnetometers  
 NT1 vibrating sample magnetometers  
 RT fluxmeters  
 RT magnetic probes

**MAGNETOPAUSE**

- RT earth magnetosphere  
 RT international magnetospheric study  
 RT magnetosheath

**MAGNETOPLASMA COMPRESSORS**

- BT1 compressors

**MAGNETORESISTANCE**

- \*BT1 electric conductivity  
 RT shubnikov-de haas effect

**MAGNETOSHEATH**

- RT earth magnetosphere  
 RT geomagnetic field  
 RT international magnetospheric study  
 RT magnetopause  
 RT solar wind

**magnetosonic waves**

- USE magnetoacoustic waves

**magnetosphere (earth)**

- 1985-07-18  
 USE earth magnetosphere

**magnetospheres (planetary)**

- INIS: 1985-07-18; ETDE: 2002-03-28  
 USE planetary magnetospheres

**magnetospheres (stellar)**

- INIS: 1985-07-18; ETDE: 2002-03-28  
 USE stellar magnetospheres

**MAGNETOSTRICTION**

- UF *electromagnetostriction*  
 \*BT1 magnetic properties  
 RT deformation

**MAGNETOTAL**

- 1999-04-28  
 \*BT1 earth magnetosphere  
 RT geomagnetic field  
 RT international magnetospheric study  
 RT plasma sheet  
 RT plasmopause  
 RT plasmasphere

**MAGNETOTELLURIC SURVEYS**

- INIS: 1979-02-21; ETDE: 1976-04-19  
*The measurement of natural electrical and magnetic fields of the earth.*  
 \*BT1 electromagnetic surveys

**MAGNETRONS**

- \*BT1 microwave tubes  
 RT klystrons  
 RT rf systems

**MAGNETS**

- 1995-02-27  
 BT1 equipment  
 NT1 beam bending magnets  
 NT1 beam focusing magnets  
 NT1 electromagnets  
 NT2 superconducting magnets  
 NT1 kicker magnets  
 NT1 permanent magnets  
 NT1 septum magnets  
 NT1 wiggler magnets  
 RT demagnetization  
 RT electromagnetic lenses  
 RT magnet coils  
 RT magnet cores  
 RT magnet pole pieces  
 RT magnetic energy storage equipment  
 RT magnetism

**magnex process**

- INIS: 2000-04-12; ETDE: 1980-09-04  
 USE desulfurization

**MAGNOLIOPHYTA**

- INIS: 1991-12-16; ETDE: 1988-12-20  
 UF *angiosperms*  
 BT1 plants  
 NT1 liliopsida  
 NT2 allium sativum  
 NT2 aloe  
 NT2 banana plants  
 NT2 buckwheat  
 NT2 cattails  
 NT2 coconut palms  
 NT2 gramineae  
 NT3 bamboo  
 NT3 cereals  
 NT4 barley  
 NT4 maize  
 NT4 millet  
 NT4 oats  
 NT4 rice  
 NT4 rye  
 NT4 sorghum  
 NT4 wheat  
 NT3 reeds  
 NT4 sugar cane  
 NT2 liliium  
 NT2 oil palms  
 NT2 onions  
 NT3 allium cepa  
 NT2 tradescantia

- NT2 water hyacinths  
 NT1 magnoliopsida  
 NT2 arabidopsis  
 NT2 beech trees  
 NT2 beets  
 NT3 sugar beets  
 NT2 birches  
 NT2 brassica  
 NT3 kale  
 NT2 buffalo gourd  
 NT2 cacao trees  
 NT2 cacti  
 NT2 capsicum  
 NT2 carnations  
 NT2 carrots  
 NT2 cassava  
 NT2 chenopodiaceae  
 NT2 chestnut trees  
 NT2 citrus  
 NT2 coffee plants  
 NT2 corchorus  
 NT3 jute  
 NT2 cotton plants  
 NT2 crepis  
 NT2 cucumbers  
 NT2 digitalis  
 NT2 eucalyptuses  
 NT2 euphorbia  
 NT3 castor  
 NT3 milkweed  
 NT3 rubber trees  
 NT4 guayule  
 NT4 hevea  
 NT2 flax plants  
 NT2 jojoba  
 NT2 leguminosae  
 NT3 alfalfa  
 NT3 clover  
 NT3 glycine hispida  
 NT3 locust trees  
 NT3 mesquite  
 NT3 phaseolus  
 NT3 pisum  
 NT3 vicia  
 NT3 vigna  
 NT2 lettuce  
 NT2 mangroves  
 NT2 maples  
 NT2 marihuana  
 NT2 meadow foam  
 NT2 nicotiana  
 NT2 oaks  
 NT2 olive trees  
 NT2 papaver somniferum  
 NT2 pecan trees  
 NT2 poplars  
 NT3 aspens  
 NT3 cottonwoods  
 NT2 radishes  
 NT2 ranunculaceae  
 NT2 rosaceae  
 NT3 strawberries  
 NT2 sesamum indicum  
 NT2 solanum  
 NT3 solanum tuberosum  
 NT2 spinach  
 NT2 sunflowers  
 NT2 sweet gums  
 NT2 sycamores  
 NT2 tea plants  
 NT2 willows  
 NT2 yams

**MAGNOLIOPSIDA**

- INIS: 1996-11-13; ETDE: 1988-12-20  
 (TUMBLEWEEDS and the UF+ terms below have been valid ETDE descriptors.)  
 UF *atropa belladonna*  
 UF *coleus*



UF *dicotyledons*  
 UF *rabbit brush*  
 UF *russian thistle*  
 UF *salsola kali*  
 UF *tumbleweeds*  
 \*BT1 magnoliophyta  
 NT1 arabidopsis  
 NT1 beech trees  
 NT1 beets  
 NT2 sugar beets  
 NT1 birches  
 NT1 brassica  
 NT2 kale  
 NT1 buffalo gourd  
 NT1 cacao trees  
 NT1 cacti  
 NT1 capsicum  
 NT1 carnations  
 NT1 carrots  
 NT1 cassava  
 NT1 chenopodiaceae  
 NT1 chestnut trees  
 NT1 citrus  
 NT1 coffee plants  
 NT1 corchorus  
 NT2 jute  
 NT1 cotton plants  
 NT1 crepis  
 NT1 cucumbers  
 NT1 digitalis  
 NT1 eucalyptuses  
 NT1 euphorbia  
 NT2 castor  
 NT2 milkweed  
 NT2 rubber trees  
 NT3 guayule  
 NT3 hevea  
 NT1 flax plants  
 NT1 jojoba  
 NT1 leguminosae  
 NT2 alfalfa  
 NT2 clover  
 NT2 glycine hispida  
 NT2 locust trees  
 NT2 mesquite  
 NT2 phaseolus  
 NT2 pisum  
 NT2 vicia  
 NT2 vigna  
 NT1 lettuce  
 NT1 mangroves  
 NT1 maples  
 NT1 marihuana  
 NT1 meadow foam  
 NT1 nicotiana  
 NT1 oaks  
 NT1 olive trees  
 NT1 papaver somniferum  
 NT1 pecan trees  
 NT1 poplars  
 NT2 aspens  
 NT2 cottonwoods  
 NT1 radishes  
 NT1 ranunculaceae  
 NT1 rosaceae  
 NT2 strawberries  
 NT1 sesamum indicum  
 NT1 solanum  
 NT2 solanum tuberosum  
 NT1 spinach  
 NT1 sunflowers  
 NT1 sweet gums  
 NT1 sycamores  
 NT1 tea plants  
 NT1 willows  
 NT1 yams

**MAGNONS**

BT1 quasi particles

RT spin waves

**MAGNOX**

\*BT1 magnesium base alloys  
 RT magnox type reactors

**MAGNOX TYPE REACTORS**

\*BT1 gcr type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 power reactors  
 NT1 berkeley reactor  
 NT1 bradwell reactor  
 NT1 calder hall a-1 reactor  
 NT1 calder hall a-2 reactor  
 NT1 calder hall b-3 reactor  
 NT1 calder hall b-4 reactor  
 NT1 chapelcross-1 reactor  
 NT1 chapelcross-2 reactor  
 NT1 chapelcross-3 reactor  
 NT1 chapelcross-4 reactor  
 NT1 dungeness-a reactor  
 NT1 hinkley point-a reactor  
 NT1 hunterston-a reactor  
 NT1 latina reactor  
 NT1 oldbury-a reactor  
 NT1 sizewell-a reactor  
 NT1 tokai-mura reactor  
 NT1 trawsfynydd reactor  
 NT1 wylfa reactor  
 RT carbon dioxide cooled reactors  
 RT magnox

**mahogany trees**

USE trees

**MAHOGANY ZONE**

2000-04-12

\*BT1 colorado  
 \*BT1 green river formation  
 RT oil shales

**MAIN SEQUENCE STARS**

BT1 stars  
 NT1 carbon stars  
 NT1 sun  
 NT1 wolf-rayet stars  
 RT cno cycle  
 RT hydrogen burning

**MAINE**

\*BT1 usa  
 RT kennebec river  
 RT us east coast

**MAINE YANKEE REACTOR**

*Maine Yankee Atomic Power Co., Wiscasset, Maine, USA. Shut down in 1996.*

UF *atomic power company main yankee*  
 UF *yankee maine reactor*  
 \*BT1 pwr type reactors

**MAINTENANCE**

NT1 reactor maintenance  
 RT maintenance facilities  
 RT modifications  
 RT operation  
 RT outages  
 RT repair

**MAINTENANCE FACILITIES**

INIS: 1999-08-04; ETDE: 1981-01-09

UF *facilities (maintenance)*  
 UF *puget sound naval shipyard*  
 RT energy facilities  
 RT maintenance  
 RT nuclear facilities  
 RT storage facilities  
 RT terminal facilities

**mainz triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-03-28

USE triga-2-mainz reactor

**MAITLANDITE**

2000-04-12

\*BT1 silicate minerals  
 \*BT1 thorium minerals  
 RT thorium silicates

**MAIZE**

UF *corn (maize)*  
 UF *corn stover*  
 UF *zea mays*  
 \*BT1 cereals  
 RT zein

**maize oil**

USE corn oil

**MAJORANA THEORY**

RT binding energy

**maki parameter**

USE ginzburg-landau theory

**MALAGASY REPUBLIC**

INIS: 1992-06-04; ETDE: 1979-12-10

\*BT1 madagascar

**MALARIA**

\*BT1 parasitic diseases  
 RT hemic diseases  
 RT mosquitoes  
 RT plasmodium

**MALATHION**

\*BT1 carboxylic acid esters  
 \*BT1 insecticides  
 \*BT1 organic oxygen compounds  
 \*BT1 organic phosphorus compounds  
 \*BT1 thiols

**MALAWI**

BT1 africa  
 BT1 developing countries

**malaya**

USE malaysia

**MALAYSIA**

UF *federation of malaya*  
 UF *malaya*  
 BT1 asia  
 BT1 developing countries

**malaysian institute for nuclear energy research**

INIS: 2001-10-30; ETDE: 2002-03-28

USE mint

**MALAYSIAN ORGANIZATIONS**

1984-12-04

BT1 national organizations  
 NT1 mint  
 NT1 puspati

**MALE GENITALS**

UF *genitals (male)*  
 UF *seminal vesicles*  
 \*BT1 organs  
 NT1 prostate  
 NT1 testes  
 RT fertility  
 RT gonads  
 RT reproduction  
 RT sex  
 RT urogenital system diseases

**MALEIC ACID**

UF *maleinic acid*  
 \*BT1 dicarboxylic acids

**maleinic acid**

USE maleic acid

**MALES**

- NT1 men
- RT animals
- RT sex
- RT sex dependence

**MALFORMATIONS**

- UF abnormalities (developmental)
- UF hydrocephalus
- UF microcephaly
- BT1 pathological changes
- NT1 congenital malformations
- NT2 downs syndrome

**MALI**

- INIS: 1976-07-06; ETDE: 1976-08-24
- BT1 africa
- BT1 developing countries
- RT niger river

**MALIBU-1 REACTOR**

- 2000-04-12
- Los Angeles Dept. of Water and Power, USA.
- Canceled in 1972 before construction began.
- UF corral canyon nuclear power reactor-1
- \*BT1 pwr type reactors

**MALIC ACID**

- UF hydroxysuccinic acid
- \*BT1 hydroxy acids

**malignancies**

- INIS: 2000-04-12; ETDE: 1981-01-30
- USE neoplasms

**malnutrition**

- USE nutritional deficiency

**MALONIC ACID**

- \*BT1 dicarboxylic acids

**MALTA**

- INIS: 1995-04-03; ETDE: 1979-12-10
- BT1 islands
- \*BT1 western europe
- RT mediterranean sea

**MALTOSE**

- \*BT1 disaccharides

**MAMMALS**

- 1996-11-13
- (Prior to July 1996 PIKAS was a valid ETDE descriptor.)

- UF cony
- UF manatees
- UF pikas
- \*BT1 vertebrates
- NT1 bats
- NT1 bears
- NT1 burros
- NT1 cats
- NT1 cetaceans
- NT1 coyotes
- NT1 dogs
- NT2 beagles
- NT1 foxes
- NT1 horses
- NT1 marsupials
- NT1 otters
- NT1 pinnipeds
- NT1 primates

- NT2 apes
- NT2 man
- NT3 children
- NT4 infants
- NT3 elderly people
- NT3 men
- NT3 women
- NT2 monkeys
- NT3 baboons

- NT3 macacus
- NT1 rabbits
- NT1 rodents
- NT2 gerbils
- NT2 guinea pigs
- NT2 hamsters
- NT2 mice
- NT3 transgenic mice
- NT2 prairie dogs
- NT2 rats
- NT2 squirrels
- NT2 voles
- NT1 ruminants
- NT2 buffalo
- NT2 camels
- NT2 cattle
- NT3 calves
- NT3 cows
- NT2 deer
- NT2 goats
- NT2 llamas
- NT2 sheep
- NT1 shrews
- NT1 swine
- NT2 miniature swine
- NT1 wolves

**MAMMARY GLANDS**

- UF breasts
- \*BT1 glands
- RT chest
- RT lactation
- RT lth
- RT milk

**MAN**

- 1997-06-17
- All of mankind, of any age or of either sex.
- \*BT1 primates
- NT1 children
- NT2 infants
- NT1 elderly people
- NT1 men
- NT1 women
- RT adolescents
- RT adults
- RT age groups
- RT aged adults
- RT anthropology
- RT human populations
- RT patients
- RT personnel
- RT reference man
- RT sociology

**MAN-MACHINE SYSTEMS**

- INIS: 1983-02-04; ETDE: 1982-06-07
- People, machines and the processes by which they interact.
- RT automation
- RT communications
- RT control rooms
- RT control systems
- RT cybernetics
- RT display devices
- RT human factors
- RT human factors engineering
- RT personnel
- RT remote handling
- RT systems analysis

**MANAGEMENT**

- (From September 1982 till March 1997 OPERATIONS RESEARCH was a valid ETDE descriptor. From June 1981 till January 1995 SENIOR EXECUTIVE SERVICE was a valid ETDE descriptor.)
- UF administration
- SF operations research
- SF senior executive service

- NT1 data base management
- NT1 energy management
- NT1 knowledge management
- NT2 knowledge preservation
- NT1 load management
- NT1 nuclear materials management
- NT2 fuel management
- NT1 personnel management
- NT1 program management
- NT2 contract management
- NT1 property management
- NT1 records management
- NT1 resource management
- NT1 waste management
- NT2 nonradioactive waste management
- NT3 nonradioactive waste disposal
- NT2 radioactive waste management
- NT3 radioactive waste disposal
- NT3 radioactive waste processing
- NT4 harvest process
- NT3 radioactive waste storage
- NT4 monitored retrievable storage
- NT2 waste disposal
- NT3 ground disposal
- NT3 ground release
- NT3 marine disposal
- NT3 nonradioactive waste disposal
- NT3 radioactive waste disposal
- NT3 sanitary landfills
- NT3 stack disposal
- NT3 underground disposal
- NT2 waste processing
- NT3 activated sludge process
- NT3 composting
- NT3 fluidized bed refuse gasification
- NT3 landgard pyrolysis system
- NT3 lime-soda sinter process
- NT3 materials recovery
- NT3 molten salt waste gasification process
- NT3 occidental flash pyrolysis process
- NT3 purox pyrolysis process
- NT3 radioactive waste processing
- NT4 harvest process
- NT3 slagging pyrolysis process
- NT3 steam stripping
- NT3 syngas process
- NT3 unisulf process
- NT3 wet oxidation processes
- NT2 waste retrieval
- NT2 waste storage
- NT3 radioactive waste storage
- NT4 monitored retrievable storage
- NT2 waste transportation
- RT accounting
- RT allocations
- RT audits
- RT delphi method
- RT forecasting
- RT labor relations
- RT organizational models
- RT personnel
- RT public relations
- RT rangelands
- RT regional cooperation
- RT schedules
- RT time delay

**manatees**

- INIS: 1997-01-28; ETDE: 1979-03-29
- (Until October 1996 this was a valid descriptor.)
- USE aquatic organisms
- USE mammals

**manaurite 36x**

*INIS: 1997-01-28; ETDE: 1979-08-09*  
(Until October 1996 this was a valid descriptor.)

USE iron base alloys

**manaurite 900**

*INIS: 1997-01-28; ETDE: 1979-08-09*  
(Until October 1996 this was a valid descriptor.)

USE chromium alloys

USE iron base alloys

USE nickel alloys

**MANCHE PLANT**

*INIS: 1993-04-19; ETDE: 1993-07-06*  
\*BT1 radioactive waste facilities

**manchester liverpool university research reactor**

1993-11-09

USE urr reactor

**MANDELIC ACID**

UF amygdalic acid

\*BT1 hydroxy acids

**MANDELSTAM REPRESENTATION**

1996-07-18

(Prior to March 1997 KHURI REPRESENTATION was a valid ETDE descriptor.)

SF khuri representation

RT dispersion relations

RT s channel

RT t channel

RT u channel

**mandible**

*INIS: 1984-04-04; ETDE: 2002-03-28*

USE jaw

**MANDREL OPERATION**

*INIS: 2000-04-12; ETDE: 1979-11-23*

\*BT1 nuclear explosions

\*BT1 underground explosions

RT contained explosions

**MANGANATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

\*BT1 manganese compounds

BT1 oxygen compounds

RT manganese oxides

**MANGANESE**

1996-06-28

(Prior to July 1996 MANGANESE-BETA and MANGANESE-GAMMA were valid ETDE descriptors.)

UF manganese-beta

\*BT1 transition elements

NT1 manganese-alpha

**MANGANESE 44**

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 odd-odd nuclei

**MANGANESE 46**

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 odd-odd nuclei

**MANGANESE 47**

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 odd-even nuclei

**MANGANESE 48**

\*BT1 beta-plus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**MANGANESE 49**

\*BT1 beta-plus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**MANGANESE 50**

\*BT1 beta-plus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

**MANGANESE 51**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

**MANGANESE 51 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**MANGANESE 52**

\*BT1 beta-plus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

**MANGANESE 52 TARGET**

*INIS: 1992-09-23; ETDE: 1979-06-06*

BT1 targets

**MANGANESE 53**

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 odd-even nuclei

\*BT1 years living radioisotopes

**MANGANESE 53 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**MANGANESE 54**

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 odd-odd nuclei

**MANGANESE 54 TARGET**

*INIS: 1979-09-18; ETDE: 1977-04-12*

BT1 targets

**MANGANESE 55**

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 odd-even nuclei

\*BT1 stable isotopes

**MANGANESE 55 REACTIONS**

1984-11-30

\*BT1 heavy ion reactions

**MANGANESE 55 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**MANGANESE 56**

\*BT1 beta-minus decay radioisotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 odd-odd nuclei

**MANGANESE 57**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

**MANGANESE 58**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**MANGANESE 59**

*INIS: 1976-11-08; ETDE: 1976-09-15*

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**MANGANESE 60**

*INIS: 1978-07-03; ETDE: 1978-04-06*

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 manganese isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**MANGANESE 61**

1980-11-07

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**MANGANESE 62**

1982-06-09

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**MANGANESE 63**

*INIS: 1986-01-21; ETDE: 1986-02-21*

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

**MANGANESE 64**

*INIS: 1986-08-19; ETDE: 1986-09-05*

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 odd-odd nuclei

**MANGANESE 65**

*INIS: 1986-08-19; ETDE: 1986-09-05*

\*BT1 intermediate mass nuclei

\*BT1 manganese isotopes

\*BT1 odd-even nuclei

**MANGANESE ADDITIONS**

1996-11-13

*Alloys containing not more than 1% Mn are listed here.*

\*BT1 manganese alloys

NT1 alloy-al95cu4

NT2 duralumin

NT1 alloy-fe40ni35cr22  
 NT1 alloy-fe53ni29co18  
 NT2 kovar  
 NT1 alloy-hs-31  
 NT1 alloy-n28t3  
 NT1 alloy-ni66cu32  
 NT2 monel 400  
 NT1 alloy-ni78cr21  
 NT1 alloy-v-36  
 NT1 ascology  
 NT1 bondur  
 NT1 discaloy  
 NT1 duranickel  
 NT1 duriron  
 NT1 magnesium alloy-az31b  
 NT1 miduale  
 NT1 ni-hard  
 NT1 steel-cr16ni9mo2

**MANGANESE ALLOYS**

1996-11-13

*Alloys containing more than 1% Mn.*

UF steel-40k14g18f  
 UF steel-40kh13n8g8  
 UF steel-cr13mn8ni8  
 \*BT1 transition element alloys  
 NT1 alloy-co43cr20fe18ni13w3  
 NT2 havar  
 NT1 alloy-mo-re-1  
 NT1 alloy-ni73cr20mn3nb3  
 NT2 inconel 82  
 NT1 alloy-ni94mn3al2  
 NT2 alume1  
 NT1 alloy-s-816  
 NT1 heusler alloys  
 NT1 manganese additions  
 NT2 alloy-a195cu4  
 NT3 duralumin  
 NT2 alloy-fe40ni35cr22  
 NT2 alloy-fe53ni29co18  
 NT3 kovar  
 NT2 alloy-hs-31  
 NT2 alloy-n28t3  
 NT2 alloy-ni66cu32  
 NT3 monel 400  
 NT2 alloy-ni78cr21  
 NT2 alloy-v-36  
 NT2 ascology  
 NT2 bondur  
 NT2 discaloy  
 NT2 duranickel  
 NT2 duriron  
 NT2 magnesium alloy-az31b  
 NT2 miduale  
 NT2 ni-hard  
 NT2 steel-cr16ni9mo2  
 NT1 manganese base alloys  
 NT1 manganese steels  
 NT1 manganin  
 NT1 stainless steel-zcnd17-13  
 NT1 steel-cr21mn9ni6  
 NT2 stainless steel-21-6-9  
 NT1 steel-mncumo  
 NT2 steel-astm-a537  
 NT1 steel-mnmo  
 NT2 steel-astm-a302  
 NT1 steel-mnnimo  
 NT2 steel-astm-a533-b  
 NT1 steel-mnnimov

**MANGANESE-ALPHA**

\*BT1 manganese

**MANGANESE ARSENIDES**

INIS: 1976-11-08; ETDE: 1976-12-16

\*BT1 arsenides  
 \*BT1 manganese compounds

**MANGANESE BASE ALLOYS**

\*BT1 manganese alloys

**manganese-beta**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE manganese

**MANGANESE BORIDES**

\*BT1 borides  
 \*BT1 manganese compounds

**MANGANESE BROMIDES**

\*BT1 bromides  
 \*BT1 manganese halides

**MANGANESE CARBIDES**

\*BT1 carbides  
 \*BT1 manganese compounds

**MANGANESE CARBONATES**

\*BT1 carbonates  
 \*BT1 manganese compounds  
 RT ankerite  
 RT carbonate minerals

**MANGANESE CHLORIDES**

\*BT1 chlorides  
 \*BT1 manganese halides

**MANGANESE COMPLEXES**

\*BT1 transition element complexes

**MANGANESE COMPOUNDS**

1996-07-18

UF manganese perchlorates  
 BT1 transition element compounds  
 NT1 manganates  
 NT1 manganese arsenides  
 NT1 manganese borides  
 NT1 manganese carbides  
 NT1 manganese carbonates  
 NT1 manganese halides  
 NT2 manganese bromides  
 NT2 manganese chlorides  
 NT2 manganese fluorides  
 NT2 manganese iodides  
 NT1 manganese hydrides  
 NT1 manganese hydroxides  
 NT1 manganese nitrates  
 NT1 manganese nitrides  
 NT1 manganese oxides  
 NT1 manganese phosphates  
 NT1 manganese phosphides  
 NT1 manganese selenides  
 NT1 manganese silicates  
 NT1 manganese silicides  
 NT1 manganese sulfates  
 NT1 manganese sulfides  
 NT1 manganese tellurides  
 NT1 manganese tungstates  
 NT1 permanganates

**MANGANESE FLUORIDES**

\*BT1 fluorides  
 \*BT1 manganese halides

**MANGANESE HALIDES**

INIS: 1991-09-16; ETDE: 1975-07-29

\*BT1 halides  
 \*BT1 manganese compounds  
 NT1 manganese bromides  
 NT1 manganese chlorides  
 NT1 manganese fluorides  
 NT1 manganese iodides

**MANGANESE HYDRIDES**

INIS: 1977-10-17; ETDE: 1976-04-19

\*BT1 hydrides  
 \*BT1 manganese compounds

**MANGANESE HYDROXIDES**

\*BT1 hydroxides  
 \*BT1 manganese compounds

**MANGANESE IODIDES**

\*BT1 iodides  
 \*BT1 manganese halides

**MANGANESE IONS**

\*BT1 ions

**MANGANESE ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 manganese 44  
 NT1 manganese 46  
 NT1 manganese 47  
 NT1 manganese 48  
 NT1 manganese 49  
 NT1 manganese 50  
 NT1 manganese 51  
 NT1 manganese 52  
 NT1 manganese 53  
 NT1 manganese 54  
 NT1 manganese 55  
 NT1 manganese 56  
 NT1 manganese 57  
 NT1 manganese 58  
 NT1 manganese 59  
 NT1 manganese 60  
 NT1 manganese 61  
 NT1 manganese 62  
 NT1 manganese 63  
 NT1 manganese 64  
 NT1 manganese 65

**MANGANESE NITRATES**

\*BT1 manganese compounds  
 \*BT1 nitrates

**MANGANESE NITRIDES**

\*BT1 manganese compounds  
 \*BT1 nitrides

**manganese nodules**

USE manganese ores

**MANGANESE ORES**

UF manganese nodules  
 BT1 ores

**MANGANESE OXIDES**

\*BT1 manganese compounds  
 \*BT1 oxides  
 RT manganates  
 RT oxide minerals  
 RT permanganates  
 RT tantalite

**manganese perchlorates**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE manganese compounds  
 USE perchlorates

**MANGANESE PHOSPHATES**

\*BT1 manganese compounds  
 \*BT1 phosphates

**MANGANESE PHOSPHIDES**

INIS: 1980-11-07; ETDE: 1976-03-11

\*BT1 manganese compounds  
 \*BT1 phosphides

**MANGANESE SELENIDES**

INIS: 1979-04-27; ETDE: 1978-11-14

\*BT1 manganese compounds  
 \*BT1 selenides

**MANGANESE SILICATES**

\*BT1 manganese compounds  
 \*BT1 silicates  
 RT helvite  
 RT silicate minerals

**MANGANESE SILICIDES**

INIS: 1977-01-26; ETDE: 1976-07-07

- \*BT1 manganese compounds
- \*BT1 silicides

**MANGANESE STEELS**

INIS: 1996-11-13; ETDE: 1982-11-08  
(STEEL-20M5 and STEEL VNT have been valid ETDE descriptors.)

- UF steel-20m5
- UF steel vnt
- UF vnt alloys
- \*BT1 manganese alloys
- \*BT1 steels

**MANGANESE SULFATES**

- \*BT1 manganese compounds
- \*BT1 sulfates

**MANGANESE SULFIDES**

- \*BT1 manganese compounds
- \*BT1 sulfides

**MANGANESE TELLURIDES**

1978-11-24

- \*BT1 manganese compounds
- \*BT1 tellurides

**MANGANESE TUNGSTATES**

INIS: 1979-09-18; ETDE: 1979-10-23

- \*BT1 manganese compounds
- \*BT1 tungstates

**MANGANIN**

2000-04-12

- \*BT1 copper base alloys
- \*BT1 manganese alloys
- \*BT1 nickel alloys

**MANGOES**

- \*BT1 fruits

**MANGROVES**

INIS: 1992-01-09; ETDE: 1975-11-28

- \*BT1 magnoliopsida
- \*BT1 trees

**MANHATTAN PROJECT**

- RT nuclear weapons

**maniac computers**

1996-06-28

(Until June 1996 this was a valid descriptor.)  
USE computers

**manioc**

INIS: 2000-04-12; ETDE: 1978-11-14

- USE cassava

**MANIPULATORS**

- \*BT1 laboratory equipment
- \*BT1 remote handling equipment
- RT distance
- RT hands
- RT hot cells
- RT hot labs
- RT remote handling
- RT shielding
- RT underwater facilities
- RT underwater operations

**MANITOBA**

- \*BT1 canada
- RT williston basin

**MANIVIER CANAL**

2004-12-15

- UF canal manivier
- \*BT1 inland waterways
- RT bohunice radioactive waste processing center
- RT slovakia

**mannomustine**

- USE alkylating agents

**MANNOSE**

- \*BT1 aldehydes
- \*BT1 hexoses

**manometers**

- USE pressure gages

**MANPOWER**

INIS: 1996-05-15; ETDE: 1976-01-23

(Until May 1996 this concept was indexed by PERSONNEL.)

- SF labor
- RT employment
- RT occupations
- RT personnel
- RT training

**MANUALS**

Should be used to index all pieces of literature which are manuals.

- UF handbooks
- BT1 document types
- RT computer program documentation
- RT education
- RT information
- RT recommendations

**manufactured buildings**

INIS: 2000-04-12; ETDE: 1982-01-07

- USE prefabricated buildings

**MANUFACTURERS**

INIS: 1992-03-30; ETDE: 1978-11-14

- RT commercialization
- RT industry

**MANUFACTURING**

INIS: 1992-04-14; ETDE: 1976-10-13

Large-scale commercial fabrication; for fabrication of single systems or components use FABRICATION.

- NT1 computer-aided manufacturing
- RT fabrication
- RT industry
- RT machinery
- RT production

**manufacturing facilities**

INIS: 2000-04-12; ETDE: 1981-01-09

- USE industrial plants

**MANURES**

1991-12-11

- \*BT1 agricultural wastes
- \*BT1 biological wastes

**MANY-BODY PROBLEM**

1996-04-16

- NT1 four-body problem
- NT1 three-body problem
- NT1 two-body problem
- RT bethe-goldstone equation
- RT density functional method
- RT fsc approximation
- RT goldstone diagrams
- RT martin-schwinger theory
- RT mean-field theory
- RT molecular dynamics method
- RT multiple scattering
- RT percus-yevick equation
- RT quasi particles
- RT unitary pole approximation
- RT van hove-hughenoltz theory
- RT wick theorem

**MANY-DIMENSIONAL CALCULATIONS**

More than four dimensions.

- UF calculations (many dimensions)

- UF five-dimensional calculations
- RT four-dimensional calculations
- RT mathematics
- RT three-dimensional calculations
- RT two-dimensional calculations

**MANY-NUCLEON TRANSFER REACTIONS**

More than four nucleons transferred.

- \*BT1 multi-nucleon transfer reactions

**MAPLE REACTOR**

INIS: 2000-04-12; ETDE: 1986-01-03

Multipurpose Applied Physics Lattice Experimental Reactor.

- \*BT1 enriched uranium reactors
- \*BT1 heavy water moderated reactors
- \*BT1 research and test reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**MAPLE TYPE REACTORS**

INIS: 1991-12-11; ETDE: 1992-06-22

Multipurpose Applied Physics Lattice Experimental Reactor.

(Prior to January 1992, this information was indexed by MAPLE REACTOR.)

- UF multipurpose applied physics lattice reactor
- \*BT1 enriched uranium reactors
- \*BT1 heavy water moderated reactors
- \*BT1 research and test reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**MAPLES**

INIS: 1992-01-09; ETDE: 1979-03-27

- \*BT1 magnoliopsida
- \*BT1 trees

**MAPPING**

INIS: 1992-03-09; ETDE: 1978-10-23

- NT1 genetic mapping
- NT1 topological mapping
- NT2 conformal mapping
- RT geometry
- RT maps

**mapping (topological)**

- USE topological mapping

**MAPPING FIBRATION**

UF fibration (topological maps)

- RT differential topology
- RT topological mapping

**MAPS**

- RT diagrams
- RT mapping
- RT topography

**mar-250 alloy**

INIS: 1979-05-28; ETDE: 1979-03-05

- USE maraging steels

**MAR-M509 ALLOYS**

INIS: 2000-04-12; ETDE: 1979-01-30

- UF xc-224
- UF xc-224fe
- \*BT1 cobalt base alloys

**MARAGING STEELS**

INIS: 1979-05-28; ETDE: 1979-03-05

Strong tough low-carbon martensitic steels which contain up to 25% nickel and in which hardening precipitates are formed by aging.

- UF mar-250 alloy
- \*BT1 martensitic steels
- RT martensite

**MARBLE**

INIS: 1976-02-05; ETDE: 1975-10-28

- \*BT1 metamorphic rocks

RT calcium carbonates

### MARBLE HILL-1 REACTOR

INIS: 1976-05-07; ETDE: 1975-11-28  
Public Service of Indiana, Madison, Indiana, USA. Canceled in 1985 before construction began.

\*BT1 pwr type reactors

### MARBLE HILL-2 REACTOR

INIS: 1976-05-07; ETDE: 1975-11-28  
Public Service of Indiana, Madison, Indiana, USA. Canceled in 1985 before construction began.

\*BT1 pwr type reactors

### MARCASITE

INIS: 1983-09-06; ETDE: 1979-03-28

\*BT1 sulfide minerals

RT iron sulfides

RT pyrite

### marcoule (cea)

USE cea marcoule

### marcoule g-1 reactor

USE g-1 reactor

### marcoule g-2 reactor

USE g-2 reactor

### marcoule g-3 reactor

USE g-3 reactor

### marcoule phenix reactor

USE phenix reactor

### MARFE

INIS: 1990-05-17; ETDE: 1990-06-01  
Multifaceted Asymmetric Radiation From the Edge is the result of a radiative thermal instability caused by light impurities in a peripheral plasma.

RT plasma confinement

RT plasma instability

RT plasma sheath

RT stellarators

RT tokamak devices

### MARGINAL-COST PRICING

INIS: 1999-12-07; ETDE: 1978-04-06  
Pricing based on addition to total cost incurred by the producer in providing one or more units.

BT1 prices

RT electric power

RT incremental-cost pricing

RT load management

RT public utilities

RT rolled-in pricing

### margins

INIS: 2000-04-12; ETDE: 1979-05-03

USE profits

### MARIA REACTOR

Institute of Nuclear Research, Swierk, Poland.  
UF swierk maria reactor

\*BT1 beryllium moderated reactors

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research and test reactors

\*BT1 thermal reactors

### MARIANA ISLANDS

INIS: 1992-06-09; ETDE: 1979-12-17

\*BT1 trust territory of the pacific islands

NT1 guam

### mariculture

INIS: 1991-09-18; ETDE: 1976-03-22

USE aquaculture

### MARIGNACITE

2000-04-12

\*BT1 oxide minerals

RT niobium oxides

RT titanium oxides

RT zirconium oxides

### MARIHUANA

INIS: 1991-12-16; ETDE: 1981-05-18

UF marijuana

\*BT1 herbs

\*BT1 magnoliopsida

RT hallucinogens

### marijuana

INIS: 1991-12-16; ETDE: 1981-05-18

USE marihuana

### MARINAS

INIS: 1992-06-12; ETDE: 1977-11-09

RT harbors

RT inland waterways

RT seas

### MARINE DISPOSAL

UF sea disposal

\*BT1 waste disposal

RT boom clay

RT lcpmpdpw

RT oecd mcmsdrw

RT radioactive waste disposal

### marine ecosystems

USE aquatic ecosystems

### marine insurance

USE insurance

### marine pollution prevention, london convention

INIS: 1984-06-21; ETDE: 2002-03-27

USE lcpmpdpw

### MARINE RISERS

INIS: 2000-04-12; ETDE: 1977-04-12  
Pipes through which fluid travels in an upward direction. On offshore operations the term refers to large diameter pipes which extend from the blowout preventer stack on the sea floor to under the derrick floor of an offshore platform or to a large diameter pipe or flow line carrying gas or oil.

UF drilling risers

UF production risers

\*BT1 pipes

RT offshore drilling

RT offshore platforms

### MARINE SURVEYS

INIS: 2000-01-24; ETDE: 1976-11-17

UF offshore surveys

SF surveys

RT geochemical surveys

RT geophysical surveys

### marine vehicle accidents

USE accidents

### MARINER SPACE PROBES

\*BT1 space vehicles

### marit car liab conv bruss 1971

USE bcoclmcnm

### maritime carriage liability conv brussels 1971

2000-04-12

USE bcoclmcnm

### MARITIME LAWS

1990-12-15

(Prior to December 1990, this descriptor was spelled MARITIME LAW.)

BT1 laws

RT high seas

RT maritime transport

RT nuclear ship visits

RT territorial waters

RT transport regulations

### MARITIME TRANSPORT

INIS: 1976-12-08; ETDE: 1977-10-20

BT1 transport

RT maritime laws

RT ships

RT tanker ships

### MARIUS REACTOR

CEA/CEN, Cadarache, St. Paul Lez Durance, France.

UF cadarache reactor marius

\*BT1 graphite moderated reactors

\*BT1 natural uranium reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 zero power reactors

### mark v synchrotron

USE mura synchrotron

### MARKARIAN GALAXIES

With abnormally strong continuum in the ultraviolet spectral region.

BT1 galaxies

RT cosmic radio sources

### MARKET

The chance to buy or sell.

UF market shares

NT1 spot market

RT business

RT cartels

RT commercial sector

RT commercialization

RT cooperatives

RT domestic supplies

RT economics

RT forecasting

RT globalization

RT gross domestic product

RT gross national product

RT marketers

RT marketing

RT monopolies

RT resellers

RT retailers

RT small businesses

RT supply and demand

RT trade

### market life

USE storage life

### market shares

INIS: 2000-04-12; ETDE: 1979-05-03

USE competition

USE market

### MARKETERS

INIS: 1992-04-03; ETDE: 1979-10-03

UF buyers

UF dealers

UF nonbranded independent marketers

UF refiner-marketers

UF sellers

NT1 resellers

NT1 retailers

NT2 gasoline service stations

RT commercial sector

RT competition

RT industry  
RT market

**MARKETING**

INIS: 1992-03-05; ETDE: 1979-11-23

*The aggregate of functions involved in moving goods from producer to customer.*

UF marketing research  
SF petroleum marketing practices act  
BT1 business  
RT advertising  
RT antitrust laws  
RT market  
RT retailers  
RT sales

**marketing research**

INIS: 1995-04-07; ETDE: 1978-01-23

*Research conducted to establish the extent and location of a market or to analyze the cost of products and processes as compared with that of alternative or competitive products or processes.*

USE marketing

**MARKOV PROCESS**

BT1 stochastic processes  
RT chapman-kolmogorov equation  
RT failure mode analysis

**marlex**

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

USE polyethylenes

**marlite**

INIS: 2000-04-12; ETDE: 1976-07-07

USE marlstone

**MARLSTONE**

INIS: 1984-04-04; ETDE: 1976-07-07

*An indurated mixture of clay materials and calcium carbonate (rarely dolomite) usually containing from 25 to 75% clays.*

UF marlite  
RT calcium carbonates  
RT clays

**marmara sea**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE seas  
USE turkey

**marmen effect**

1986-08-19

USE shape memory effect

**marmora sea**

INIS: 2000-04-12; ETDE: 1976-05-17

(Prior to July 1996 MARMARA SEA was a valid ETDE descriptor.)

USE seas  
USE turkey

**MARS PLANET**

BT1 planets

**MARS REACTOR**

INIS: 1986-03-04; ETDE: 1983-05-21

*Mars is a major design study undertaken by Lawrence Livermore Laboratory of a 1200 mw(e) commercial tandem mirror reactor.*

UF mirror advanced reactor study  
\*BT1 magnetic mirror type reactors  
RT minimars reactor

**MARS SPACE PROBES**

INIS: 1978-02-23; ETDE: 1978-04-28

\*BT1 space vehicles  
RT space flight

**marsh event**

INIS: 2000-04-12; ETDE: 1977-06-21

USE anvil project

**MARSHAK BOUNDARY****CONDITIONS**

UF marshak conditions  
BT1 boundary conditions  
RT angular distribution  
RT milne problem  
RT spherical harmonics method

**marshak conditions**

USE marshak boundary conditions  
USE martin-schwinger theory

**MARSHALL ISLANDS**

\*BT1 micronesia  
NT1 bikini  
NT1 eniwetok  
RT nuclear explosions  
RT pacific ocean

**MARSHES**

INIS: 1992-05-08; ETDE: 1976-07-07

*Transitional land-water areas, covered at least part of the time by estuarine or coastal waters and characterized by aquatic and grasslike vegetation.*

\*BT1 wetlands  
RT cattails  
RT surface waters  
RT swamps

**MARSUPIALS**

UF kangaroos  
UF opossum  
UF potorous  
UF rat kangaroos  
\*BT1 mammals

**MARTENSITE**

1996-07-18

\*BT1 carbon additions  
\*BT1 iron alloys  
RT austenite  
RT bainite  
RT cementite  
RT ferrite  
RT iron-alpha  
RT maraging steels  
RT martensitic steels  
RT steels

**MARTENSITIC STEELS**

INIS: 1983-11-09; ETDE: 1989-11-06

\*BT1 steels  
NT1 maraging steels  
NT1 steel-cr10mo2  
NT1 steel-cr12  
NT2 stainless steel-403  
NT1 steel-cr12mov  
NT2 alloy-ht-9  
NT1 steel-cr13  
NT2 stainless steel-410  
NT1 steel-cr16ni  
NT1 steel-cr17cu4ni4nb-l  
NT2 stainless steel-17-4ph  
NT1 steel-cr17mo  
NT2 stainless steel-440  
NT1 steel-cr18  
RT martensite

**martin-puff-schwinger theory**

USE martin-schwinger theory

**MARTIN-SCHWINGER THEORY**

UF marshak conditions  
UF martin-puff-schwinger theory  
RT many-body problem

**MARTINIQUE**

INIS: 1992-06-04; ETDE: 1980-08-12

\*BT1 lesser antilles

**marvel event**

1994-10-14

*A test made under PROJECT PLOWSHARE. (Prior to September 1994, this was a valid ETDE descriptor.)*

USE nuclear explosions  
USE underground explosions

**MARVIKEN REACTOR**

\*BT1 bhwr type reactors  
\*BT1 enriched uranium reactors  
\*BT1 power reactors

**MARX GENERATORS**

INIS: 1986-01-21; ETDE: 1985-08-22

*Pulsed power devices to charge capacitors in parallel and discharge them quickly in series to produce high voltage, high power pulses used in light ion fusion and in some laser fusion systems.*

\*BT1 high-voltage pulse generators  
\*BT1 power supplies

**MARY KATHLEEN MINES**

\*BT1 uranium mines  
RT australia

**MARYLA REACTOR**

*Institute of Nuclear Research, Academy of Mining and Metallurgy, Cracow, Poland.*

UF polish government maryla reactor  
UF swierk research reactor maryla  
\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 zero power reactors

**MARYLAND**

1997-06-17

UF douglas point site  
\*BT1 usa  
RT chesapeake bay  
RT potomac river  
RT potomac river basin  
RT susquehanna river  
RT us east coast

**maryland univ. reactor**

INIS: 1984-06-21; ETDE: 2002-03-28

USE umne-1 reactor

**MASERS**

*Microwave Amplification by Stimulated Emission of Radiation.*

SF stimulated emission devices  
\*BT1 microwave amplifiers  
RT gasers  
RT lasers  
RT microwave radiation  
RT quantum electronics  
RT radiation sources  
RT stimulated emission

**MASKING**

INIS: 1992-02-21; ETDE: 1980-03-29

*Using a covering or coating on a semiconductor or other surface to provide a masked area for selective deposition or etching.*

SF resist  
RT coatings  
RT coverings  
RT deposition  
RT etching  
RT screen printing

**masks**

USE respirators

**MASS**

- NT1 critical mass
- NT1 effective mass
- NT1 missing mass
- NT1 negative mass
- NT1 rest mass
- NT1 thermal mass
- RT dalitz plot
- RT equivalence principle
- RT gravitational fields
- RT linear momentum
- RT mass difference
- RT mass distribution
- RT mass formulae
- RT moment of inertia
- RT weight

**mass (thermal)**

- INIS: 2000-04-12; ETDE: 1978-07-05
- USE thermal mass

**MASS BALANCE**

- UF balance (mass)
- RT confinement
- RT plasma
- RT plasma confinement
- RT thermonuclear devices
- RT thermonuclear reactors

**MASS DEFECT**

- Mass lost to binding energy.
- RT binding energy
- RT nuclear forces

**MASS DIFFERENCE**

- Unexpected difference between particles of the same family, e.g., between pi plus and pi minus.

- BT1 particle properties
- RT mass

**MASS DISTRIBUTION**

- INIS: 1984-08-24; ETDE: 1984-10-24
- The way matter is distributed in space or throughout a body.
- \*BT1 spatial distribution
- RT anisotropy
- RT configuration
- RT density
- RT mass
- RT shape

**MASS DOUBLET**

- 1992-05-07
- RT mass spectroscopy

**MASS FORMULAE**

- NT1 okubo mass formula
- RT mass
- RT quantum field theory

**mass loss**

- INIS: 1984-04-04; ETDE: 2002-03-28
- SEE mass transfer
- SEE stellar winds

**MASS NUMBER**

- SF atomic weight
- RT mass spectroscopy
- RT weizsaecker formula

**mass radius (nuclear)**

- USE nuclear radii

**mass radius (particle)**

- USE particle radii

**MASS REARING**

- BT1 animal breeding
- BT1 rearing
- RT diet
- RT insects

- RT nutrition
- RT sterile male technique

**MASS RENORMALIZATION**

- BT1 renormalization

**MASS RESOLUTION**

- BT1 resolution

**MASS SPECTRA**

- BT1 spectra
- RT icp mass spectroscopy

**MASS SPECTROMETERS**

- \*BT1 spectrometers
- NT1 dynamic mass spectrometers
- NT2 energy balance mass spectrometers
- NT2 time-of-flight mass spectrometers
- NT1 spark mass spectrometers
- NT1 static mass spectrometers
- RT dees
- RT icp mass spectroscopy
- RT mass spectroscopy

**mass spectrometry**

- INIS: 1975-10-23; ETDE: 2002-03-28
- USE mass spectroscopy

**MASS SPECTROSCOPY**

- UF mass spectrometry
- UF sims
- BT1 spectroscopy
- NT1 icp mass spectroscopy
- NT1 resonance ionization mass spectroscopy
- RT mass doublets
- RT mass number
- RT mass spectrometers

**MASS TRANSFER**

- UF transfer (mass)
- SF mass loss
- NT1 advection
- NT1 convection
- NT2 forced convection
- NT2 natural convection
- NT2 thermosyphon effect
- NT1 environmental transport
- NT2 long-range transport
- NT2 radionuclide migration
- NT2 runoff
- RT air-biosphere interactions
- RT atom transport
- RT dialysis
- RT diffusion
- RT energy transfer
- RT fluid flow
- RT membrane transport
- RT osmosis

**MASS TRANSIT SYSTEMS**

- INIS: 1992-09-09; ETDE: 1977-11-28
- SF public transportation systems
- BT1 transportation systems
- RT rapid transit systems
- RT transport

**MASSACHUSETTS**

- 1997-06-17
- \*BT1 usa
- RT connecticut river
- RT connecticut river basin
- RT gulf of maine
- RT us east coast

**massachusetts institute of technology alcator**

- 1993-11-09
- USE alcator device

**massachusetts institute of technology reactor**

- 1993-11-09
- USE mitr reactor

**massey-mohr equation**

- 1996-06-28
- (Until June 1996 this was a valid descriptor.)
- USE equations

**massive transfer reactions**

- INIS: 1985-01-18; ETDE: 2002-03-28
- USE incomplete fusion reactions

**massive vector-meson model**

- USE gluon model

**MASSLESS PARTICLES**

- BT1 elementary particles
- NT1 gravitons
- NT1 neutrinos
- NT2 antineutrinos
- NT3 electron antineutrinos
- NT3 muon antineutrinos
- NT2 cosmic neutrinos
- NT2 electron neutrinos
- NT3 electron antineutrinos
- NT2 muon neutrinos
- NT3 muon antineutrinos
- NT2 solar neutrinos
- NT2 tau neutrinos
- NT1 photons
- NT2 cosmic photons
- RT quantum field theory
- RT special relativity theory

**MAST CELLS**

- UF basophils (connective tissue)
- \*BT1 connective tissue cells
- RT heparin

**MAST TOKAMAK**

- INIS: 1999-07-26; ETDE: 1999-09-03
- Mega Amp Spherical Tokamak, Culham, UK.
- \*BT1 spheromak devices

**MASTER METERING**

- INIS: 2000-04-12; ETDE: 1979-10-03
- Use of a single meter to record energy consumption - either gas or electricity - for an entire multifamily residence.
- BT1 metering
- RT electric power
- RT electric utilities
- RT gas meters
- RT gas utilities
- RT measuring methods
- RT natural gas
- RT power meters

**MASTIGOPHORA**

- INIS: 1993-07-15; ETDE: 1981-06-17
- \*BT1 protozoa
- NT1 dinoflagellate
- NT1 euglena
- NT1 trypanosoma

**MASURCA REACTOR**

- UF cadarache maquette surgeneratic reactor
- \*BT1 air cooled reactors
- \*BT1 enriched uranium reactors
- \*BT1 fast reactors
- \*BT1 plutonium reactors
- \*BT1 zero power reactors

**masurium**

- USE technetium



**masuyite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE oxide minerals
- USE uranium minerals

**MATAGORDA BAY**

INIS: 2000-04-12; ETDE: 1979-11-23

- \*BT1 bays
- RT texas

**MATERIAL BALANCE**

- SF input-output
- RT accounting
- RT inventories
- RT losses
- RT material unaccounted for
- RT materials
- RT shipper-receiver differences

**MATERIAL BALANCE AREA**

- RT safeguards
- RT strategic points

**MATERIAL BUCKLING**

A form of neutron density distribution in reactors. For buckling of materials, see DEFORMATION or FAILURES.

- BT1 buckling

**MATERIAL SUBSTITUTION**

INIS: 1993-02-18; ETDE: 1977-12-22

- RT fuel substitution
- RT interchangeability

**MATERIAL UNACCOUNTED FOR**

- UF muf
- RT accounting
- RT inventories
- RT losses
- RT material balance
- RT nuclear materials management
- RT safeguards
- RT shipper-receiver differences

**MATERIALS**

1997-06-19

Use of a more specific term is strongly recommended.

- UF molding materials
- SF renewable resources

- NT1 biological materials
  - NT2 biological wastes
    - NT3 feces
    - NT3 manures
    - NT3 sewage sludge
    - NT3 sweat
    - NT3 urine
  - NT2 body fluids
    - NT3 amniotic fluid
  - NT3 bile
  - NT3 blood
    - NT4 blood cells
      - NT5 blood platelets
      - NT5 erythrocytes
      - NT6 reticulocytes
      - NT5 leukocytes
      - NT6 basophils
      - NT6 eosinophils
      - NT6 lymphocytes
      - NT6 monocytes
      - NT6 natural killer cells
      - NT6 neutrophils
    - NT4 blood plasma
      - NT5 blood serum
  - NT3 cerebrospinal fluid
  - NT3 gastric acid
  - NT3 lymph
  - NT3 milk
  - NT3 saliva
  - NT3 sweat

- NT3 urine
- NT2 forest litter
- NT2 plant sap
- NT2 tissue extracts
- NT1 building materials
  - NT2 adobe
  - NT2 bricks
  - NT2 cements
    - NT3 gypsum cements
    - NT3 portland cement
  - NT2 concrete blocks
  - NT2 concretes
    - NT3 prestressed concrete
    - NT3 reinforced concrete
- NT1 carbonaceous materials
  - NT2 bituminous materials
    - NT3 kerogen
    - NT3 oil sands
    - NT3 oil shales
      - NT4 black shales
  - NT2 coal
    - NT3 black coal
      - NT4 anthracite
      - NT4 bituminous coal
    - NT3 brown coal
      - NT4 lignite
    - NT3 coal fines
      - NT3 sapropelic coal
        - NT4 boghead coal
        - NT5 torbanite
        - NT4 cannel coal
      - NT3 subbituminous coal
  - NT1 composite materials
    - NT2 cermets
      - NT3 td-nickel
      - NT3 td-nickel chromium
    - NT2 concrete-plastic composites
    - NT2 fiberglass
    - NT2 prestressed concrete
    - NT2 reinforced concrete
    - NT2 superconducting composites
    - NT2 wood-plastic composites
  - NT1 dielectric materials
    - NT2 antiferroelectric materials
    - NT2 electrets
    - NT2 ferroelectric materials
  - NT1 doped materials
  - NT1 environmental materials
  - NT1 fertile materials
  - NT1 fissionable materials
    - NT2 fissile materials
  - NT1 glazing materials
  - NT1 granular materials
  - NT1 hazardous materials
    - NT2 toxic materials
      - NT3 toxins
        - NT4 endotoxins
        - NT4 mycotoxins
        - NT5 aflatoxins
  - NT1 heat resistant materials
    - NT2 heat resisting alloys
      - NT3 alloy-co36cr22ni22w15fe3
      - NT4 haynes 188 alloy
      - NT3 alloy-co54cr20w15ni10
        - NT4 alloy-hs-25
        - NT4 haynes 25 alloy
      - NT3 alloy-co60cr30w4
        - NT4 stellite 6
      - NT3 alloy-d-979
      - NT3 alloy-fe44ni33cr21
        - NT4 incoloy 800h
      - NT3 alloy-fe46ni33cr21
        - NT4 incoloy 800
        - NT4 incoloy 802
      - NT3 alloy-mo99
        - NT4 alloy-tzm
        - NT4 alloy-zm-2a
      - NT3 alloy-n-10m
      - NT3 alloy-n-9m

- NT3 alloy-ni41fe40cr16nb3
  - NT4 incoloy 706
- NT3 alloy-ni43fe30cr22mo3
  - NT4 incoloy 825
- NT3 alloy-ni43fe33cr16mo3
  - NT4 nimonic pe16
- NT3 alloy-ni46cr23co19ti5al4
  - NT4 alloy-in-939
- NT3 alloy-ni49cr22fe18mo9
  - NT4 hastelloy x
- NT3 alloy-ni50co20cr15al5mo5
  - NT4 nimonic 105
- NT3 alloy-ni50cr22fe18mo9
  - NT4 hastelloy xr
- NT3 alloy-ni50mo32cr15si3
  - NT4 incoloy 671
- NT3 alloy-ni53cr19fe19nb5mo3
  - NT4 incoloy 718
- NT3 alloy-ni54cr22co13mo9
  - NT4 incoloy 617
- NT3 alloy-ni54mo17cr16fe6w4
  - NT4 hastelloy c
- NT3 alloy-ni55cr19co11mo10ti3
  - NT4 rene 41
- NT3 alloy-ni58cr20co14mo4ti3
  - NT4 waspaloy
- NT3 alloy-ni59cr20co17ti2
  - NT4 incoloy 690
- NT3 alloy-ni60co15cr10al6ti5mo3
  - NT4 alloy-in-100
- NT3 alloy-ni60fe24cr16
  - NT4 nichrome
- NT3 alloy-ni61cr16co9al3ti3w3
  - NT4 alloy-in-738
- NT3 alloy-ni61cr22mo9nb4fe3
  - NT4 incoloy 625
- NT3 alloy-ni62cr16mo15fe3
  - NT4 hastelloy s
- NT3 alloy-ni65cr25mo10
  - NT4 nimonic 86
- NT3 alloy-ni70mo17cr7fe5
  - NT4 hastelloy n
  - NT4 inor-8
- NT3 alloy-ni73cr15fe7ti3
  - NT4 incoloy x750
- NT3 alloy-ni73cr20mn3nb3
  - NT4 incoloy 82
- NT3 alloy-ni74cr13al6mo4
  - NT4 incoloy 713c
- NT3 alloy-ni75cr12al6mo5
  - NT4 incoloy 713c
- NT3 alloy-ni76cr15fe8
  - NT4 incoloy 600
- NT3 alloy-ni76cr20ti2
  - NT4 nimonic 80a
- NT3 alloy-ni77cr20ti2
  - NT4 alloy-nt25a5
- NT3 alloy-ra-333
- NT3 alloy-s-590
- NT3 alloy-s-816
- NT3 alloy-v-36
- NT3 alloy-zr97nb3
- NT3 alloy-zr98sn-2
  - NT4 zircaloy 2
- NT3 alloy-zr98sn-4
  - NT4 zircaloy 4
- NT3 enduro
- NT3 incoloy 901
- NT3 rene 80
- NT3 rene 95
- NT3 steel-cr12
  - NT4 stainless steel-403
- NT3 steel-cr12moniv
  - NT4 alloy-ht-9
- NT3 steel-cr13
  - NT4 stainless steel-410

- NT3** steel-cr13al  
**NT4** stainless steel-405  
**NT3** steel-cr15ni15motib  
**NT3** steel-cr16  
**NT4** stainless steel-430  
**NT3** steel-cr16ni  
**NT3** steel-cr16ni13monbv  
**NT3** steel-cr16ni15mo3nb  
**NT3** steel-cr16ni16monb  
**NT3** steel-cr16ni8mo2  
**NT4** stainless steel-16-8-2  
**NT3** steel-cr17cu4ni4nb-1  
**NT4** stainless steel-17-4ph  
**NT3** steel-cr17mo  
**NT4** stainless steel-440  
**NT3** steel-cr17ni12mo3  
**NT4** stainless steel-316  
**NT3** steel-cr17ni12mo3-1  
**NT4** stainless steel-316l  
**NT4** stainless steel-zcnd17-13  
**NT3** steel-cr17ni12monb  
**NT3** steel-cr17ni13  
**NT3** steel-cr17ni13mo2ti  
**NT3** steel-cr17ni13mo3ti  
**NT3** steel-cr17ni4mo3  
**NT3** steel-cr17ni7  
**NT4** stainless steel-301  
**NT3** steel-cr18ni10  
**NT4** stainless steel-18-10  
**NT3** steel-cr18ni10-l  
**NT3** steel-cr18ni10ti  
**NT4** stainless steel-321  
**NT3** steel-cr18ni11  
**NT4** steel-x6crni1811  
**NT3** steel-cr18ni11nb  
**NT4** stainless steel-347  
**NT3** steel-cr18ni11nbco  
**NT4** stainless steel-348  
**NT3** steel-cr18ni12  
**NT4** stainless steel-305  
**NT3** steel-cr18ni12ti  
**NT3** steel-cr18ni8  
**NT4** stainless steel-18-8  
**NT3** steel-cr18ni9  
**NT4** stainless steel-302  
**NT3** steel-cr18ni9ti  
**NT3** steel-cr19ni10  
**NT4** stainless steel-304  
**NT3** steel-cr19ni10-l  
**NT4** stainless steel-304l  
**NT3** steel-cr20ni11  
**NT4** stainless steel-308  
**NT3** steel-cr20ni11-l  
**NT4** stainless steel-308l  
**NT3** steel-cr21mn9ni6  
**NT4** stainless steel-21-6-9  
**NT3** steel-cr23ni14  
**NT4** stainless steel-309  
**NT4** stainless steel-309s  
**NT3** steel-cr23ni18  
**NT3** steel-cr25  
**NT4** stainless steel-446  
**NT3** steel-cr25ni20  
**NT4** alloy-hk-40  
**NT4** stainless steel-310  
**NT3** steel-cr2moninb  
**NT3** steel-cr2mov  
**NT3** steel-ni25cr20  
**NT4** stainless steel-20-25  
**NT3** steel-ni26cr15ti2movalb  
**NT4** alloy-a-286  
**NT3** steel-nimocr  
**NT3** tophet  
**NT3** tribaloy 800  
**NT3** udimet alloys  
**NT4** alloy-ni53co19cr15mo5al4ti3  
**NT5** udimet 700  
**NT4** udimet 500  
**NT1** ion exchange materials
- NT2** inorganic ion exchangers  
**NT3** bentonite  
**NT3** montmorillonite  
**NT3** mullite  
**NT3** vermiculite  
**NT3** zeolites  
**NT4** clinoptilolite  
**NT4** faujasite  
**NT4** heulandite  
**NT4** laumontite  
**NT4** mordenite  
**NT4** wairakite  
**NT2** liquid ion exchangers  
**NT2** mixed bed ion exchangers  
**NT2** organic ion exchangers  
**NT3** polystyrene-dvb  
**NT1** isotope enriched materials  
**NT2** enriched uranium  
**NT3** highly enriched uranium  
**NT3** moderately enriched uranium  
**NT3** slightly enriched uranium  
**NT1** laser materials  
**NT1** lunar materials  
**NT1** magnetic materials  
**NT2** antiferromagnetic materials  
**NT2** ferrimagnetic materials  
**NT3** ferrites  
**NT2** ferromagnetic materials  
**NT1** matrix materials  
**NT1** phase change materials  
**NT1** photochromic materials  
**NT1** porous materials  
**NT1** potting materials  
**NT1** radioactive materials  
**NT2** fission products  
**NT2** radioactive minerals  
**NT3** baddeleyite  
**NT3** corvusite  
**NT3** fersmite  
**NT3** kainosite  
**NT3** melanovanadite  
**NT3** pascoite  
**NT3** rutile  
**NT3** thorium minerals  
**NT4** allanite  
**NT4** bastnaesite  
**NT4** brannerite  
**NT4** ekanite  
**NT4** freyalite  
**NT4** hydrothorite  
**NT4** lodochnikite  
**NT4** lyndochite  
**NT4** mackintoshite  
**NT4** maitlandite  
**NT4** monazites  
**NT4** naegite  
**NT4** thorianite  
**NT4** thorite  
**NT5** jiningite  
**NT4** thucholite  
**NT4** uranothorite  
**NT3** uranium minerals  
**NT4** autunite  
**NT4** bassetite  
**NT4** becquerelite  
**NT4** billietite  
**NT4** brannerite  
**NT4** carnotite  
**NT4** clarkeite  
**NT4** coffinite  
**NT4** compreignacite  
**NT4** dewindtite  
**NT4** diderichite  
**NT4** djalmaite  
**NT4** ekanite  
**NT4** ellsworthite  
**NT4** ferghanite  
**NT4** fourmarierite  
**NT4** gastunite
- NT4** guilleminite  
**NT4** hallimondite  
**NT4** heinrichite  
**NT4** ianthinite  
**NT4** kahlerite  
**NT4** kirchheimerite  
**NT4** lodochnikite  
**NT4** mackintoshite  
**NT4** moctezumite  
**NT4** montroseite  
**NT4** naegite  
**NT4** natroautunite  
**NT4** ningyoite  
**NT4** novacekite  
**NT4** para-schoepite  
**NT4** ranquillite  
**NT4** rauvite  
**NT4** sabugalite  
**NT4** salecite  
**NT4** schoepite  
**NT4** sengierite  
**NT4** sklodowskite  
**NT4** soddyite  
**NT4** thorianite  
**NT4** thucholite  
**NT4** torbernite  
**NT4** tyuyamunite  
**NT4** uraninites  
**NT5** broeggerite  
**NT5** pitchblende  
**NT4** uranium black  
**NT4** uranophane  
**NT4** uranothorite  
**NT4** vesuvianite  
**NT2** radioactive wastes  
**NT3** alpha-bearing wastes  
**NT3** calcined wastes  
**NT3** high-level radioactive wastes  
**NT3** intermediate-level radioactive wastes  
**NT3** low-level radioactive wastes  
**NT3** radioactive effluents  
**NT3** waste forms  
**NT2** radiopharmaceuticals  
**NT1** raw materials  
**NT2** chemical feedstocks  
**NT1** reactor materials  
**NT2** nuclear fuels  
**NT3** alloy nuclear fuels  
**NT4** uranium-molybdenum fuels  
**NT3** denatured fuel  
**NT3** dispersion nuclear fuels  
**NT3** fuel solutions  
**NT3** liquid metal fuels  
**NT3** mixed carbide fuels  
**NT3** mixed nitride fuels  
**NT3** mixed oxide fuels  
**NT3** molten salt fuels  
**NT3** spent fuels  
**NT2** nuclear poisons  
**NT3** burnable poisons  
**NT3** fission poisons  
**NT3** soluble poisons  
**NT1** reinforced materials  
**NT2** reinforced concrete  
**NT2** reinforced plastics  
**NT1** sealing materials  
**NT1** semiconductor materials  
**NT2** magnetic semiconductors  
**NT2** n-type conductors  
**NT2** organic semiconductors  
**NT2** p-type conductors  
**NT1** shielding materials  
**NT1** sintered materials  
**NT2** sintered aluminium powders  
**NT1** stemming materials  
**NT1** surgical materials  
**NT1** synthetic materials  
**NT2** plastics

**NT3** aramids  
**NT3** bakelite  
**NT3** formvar  
**NT3** lucite  
**NT3** mylar  
**NT3** nylon  
**NT3** perspex  
**NT3** plexiglas  
**NT3** polystyrene  
**NT3** polyurethanes  
**NT4** halthane  
**NT3** reinforced plastics  
**NT3** tedlar  
**NT3** teflon  
**NT3** thermoplastics  
**NT2** synthetic rocks  
**NT1** thermoelectric materials  
**NT1** thermonuclear reactor materials  
**NT1** tissue-equivalent materials  
**NT1** weatherstripping  
*RT* interchangeability  
*RT* material balance  
*RT* materials drilling  
*RT* materials handling  
*RT* materials testing  
*RT* materials working

**materials (antiferroelectric)**

2000-04-12

USE antiferroelectric materials

**materials (antiferromagnetic)**

2000-04-12

USE antiferromagnetic materials

**materials (biological)**

INIS: 2000-04-12; ETDE: 1981-09-22

USE biological materials

**materials (building)**

INIS: 2000-04-12; ETDE: 1981-09-22

USE building materials

**materials (composite)**

INIS: 2000-04-12; ETDE: 1981-09-22

USE composite materials

**materials (dielectric)**

INIS: 2000-04-12; ETDE: 1981-09-22

USE dielectric materials

**materials (doped)**

INIS: 2000-04-12; ETDE: 1981-09-22

USE doped materials

**materials (environmental)**

INIS: 2000-04-12; ETDE: 1981-09-22

USE environmental materials

**materials (ferrimagnetic)**

INIS: 2000-04-12; ETDE: 1981-09-22

USE ferrimagnetic materials

**materials (ferroelectric)**

2000-04-12

USE ferroelectric materials

**materials (ferromagnetic)**

2000-04-12

USE ferromagnetic materials

**materials (lunar)**

INIS: 2000-04-12; ETDE: 1981-09-22

USE lunar materials

**materials (magnetic)**

INIS: 2000-04-12; ETDE: 1981-09-22

USE magnetic materials

**materials (porous)**

INIS: 2000-04-12; ETDE: 1981-09-22

USE porous materials

**materials (reinforced)**

INIS: 2000-04-12; ETDE: 1981-09-22

USE reinforced materials

**materials (semiconductor)**

INIS: 2000-04-12; ETDE: 1981-09-22

USE semiconductor materials

**materials (shielding)**

INIS: 2000-04-12; ETDE: 1981-09-22

USE shielding materials

**materials and minerals policy acts**

INIS: 2000-04-12; ETDE: 1984-06-29

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE laws

**MATERIALS DRILLING***UF* drilling (materials)**BT1** machining**NT1** laser drilling**NT1** rock drilling*RT* drill bits*RT* materials*RT* subterrene penetrators**MATERIALS HANDLING**

1997-06-05

(From May 1978 to March 1997 HOISTING was a valid ETDE descriptor. From August 1979 till March 1997 RETRIEVAL SYSTEMS was a valid ETDE descriptor.)

*UF* handling (materials)*UF* hoisting*SF* retrieval systems**NT1** lightering**NT1** loading**NT1** mine haulage**NT1** unloading*RT* cargo*RT* contact handling*RT* conveyors*RT* cranes*RT* delivery*RT* fuel feeding systems*RT* grabs*RT* haulage equipment*RT* hoists*RT* hydraulic transport*RT* loaders*RT* materials*RT* materials handling equipment*RT* pumping*RT* recycling*RT* remote handling*RT* sample changers*RT* solids flow*RT* transport*RT* waste retrieval*RT* winches**MATERIALS HANDLING EQUIPMENT**

INIS: 1983-09-06; ETDE: 1980-02-11

**BT1** equipment**NT1** earthmoving equipment**NT2** bucket wheel excavators**NT2** draglines**NT1** grabs**NT1** haulage equipment**NT2** conveyors**NT3** belt conveyors**NT3** chain conveyors**NT2** loaders**NT3** cutter loaders**NT4** coal plows**NT4** continuous miners**NT4** heading machines**NT4** shearer loaders**NT2** mine cars**NT1** hoists**NT1** mixers**NT1** remote handling equipment**NT2** cranes**NT2** manipulators**NT1** shredders**NT1** winches*RT* contact handling*RT* materials handling*RT* remote handling*RT* robots*RT* transport**MATERIALS PROCESSING REACTORS***For routine irradiation of production items to obtain desirable changes in properties.*

\*BT1 irradiation reactors

**MATERIALS RECOVERY**

INIS: 1992-05-04; ETDE: 1975-09-11

*SF* recovery

\*BT1 waste processing

*RT* lime-soda sinter process*RT* recycling*RT* resource recovery facilities*RT* resox process*RT* syngas process**MATERIALS TESTING***UF* testing (materials)**BT1** testing**NT1** destructive testing**NT2** charpy test**NT1** mechanical tests**NT2** impact tests**NT3** charpy test**NT1** nondestructive testing**NT2** acoustic testing**NT3** acoustic emission testing**NT3** ultrasonic testing**NT2** electrical testing**NT2** electromagnetic testing**NT3** eddy current testing**NT2** industrial radiography**NT3** beta radiography**NT3** gamma radiography**NT4** gamma fuel scanning**NT3** neutron radiography**NT3** proton radiography**NT3** x-ray radiography**NT2** liquid penetrant inspection**NT2** magnetic testing**NT2** radiation attenuation testing**NT2** thermal testing**NT3** frost tests*RT* ceramography*RT* corrosion*RT* emanation method*RT* fmit linac*RT* inspection*RT* materials*RT* metallography*RT* photoelasticity*RT* quality control*RT* s-n diagram*RT* stresses**materials testing reactor idaho**

INIS: 1993-11-09; ETDE: 2002-03-28

USE mtr reactor

**materials testing reactor japan**

1993-11-09

USE jmtr reactor

**MATERIALS TESTING REACTORS***For testing properties of materials or equipment in a radioactive environment.*

\*BT1 irradiation reactors

NT1 atr reactor  
 NT1 br-2 reactor  
 NT1 cp-2 reactor  
 NT1 dido reactor  
 NT1 dmtr reactor  
 NT1 dr-3 reactor  
 NT1 el-3 reactor  
 NT1 ewg-1 reactor  
 NT1 frg-2 reactor  
 NT1 frj-2 reactor  
 NT1 ga siwabessy reactor  
 NT1 gleep reactor  
 NT1 hanaro reactor  
 NT1 hector reactor  
 NT1 hfetr reactor  
 NT1 hfr reactor  
 NT1 hifar reactor  
 NT1 hwctr reactor  
 NT1 hwrr reactor  
 NT1 igr reactor  
 NT1 ivv-2m reactor  
 NT1 jmtr reactor  
 NT1 jrr-3 reactor  
 NT1 jrr-3m reactor  
 NT1 jules horowitz reactor  
 NT1 kstr reactor  
 NT1 lpr reactor  
 NT1 merlin reactor  
 NT1 mtr reactor  
 NT1 nbsr reactor  
 NT1 nrx reactor  
 NT1 osiris reactor  
 NT1 pbr reactor  
 NT1 pluto reactor  
 NT1 r-2 reactor  
 NT1 rv-1 reactor  
 NT1 sm-2 reactor  
 NT1 taiwan research reactor  
 NT1 triga-1-hanford reactor  
 NT1 wr-1 reactor  
 NT1 wwr-m-kiev reactor  
 NT1 wwr-m-leningrad reactor  
 NT1 zephyr reactor

## MATERIALS WORKING

*Covers metal and non-metal working.*

UF *forming (materials)*  
 UF *working (materials)*  
 BT1 fabrication  
 NT1 canning  
 NT1 cold working  
 NT2 shot peening  
 NT1 drawing  
 NT1 explosive forming  
 NT1 extrusion  
 NT2 coextrusion  
 NT1 forging  
 NT1 hot working  
 NT1 magnetic forming  
 NT1 pressing  
 NT2 cold pressing  
 NT2 hot pressing  
 NT1 rolling  
 NT1 swaging  
 NT1 thermomechanical treatments  
 RT casting  
 RT deformation  
 RT machining  
 RT materials  
 RT molding

## MATHEMATICAL EVOLUTION

*2003-06-26*

*Development of an algorithm, formula, analytic function, series expansion or mathematical model from a simple approach to a more advanced, complex, sophisticated form.*

BT1 evolution  
 RT algorithms

RT analytic functions  
 RT asymptotic solutions  
 RT functional analysis  
 RT mathematical models  
 RT series expansion

## MATHEMATICAL LOGIC

*INIS: 1986-07-10; ETDE: 1975-11-11*

UF *logic (mathematics)*  
 UF *symbolic logic*  
 NT1 algorithms  
 NT1 fuzzy logic  
 RT mathematical models  
 RT mathematical solutions  
 RT mathematics  
 RT system failure analysis

## MATHEMATICAL MANIFOLDS

*1997-08-20*

NT1 complex manifolds  
 NT1 convex manifolds  
 NT1 smooth manifolds  
 RT graph theory  
 RT mathematical space  
 RT mathematics  
 RT measure theory  
 RT topological mapping  
 RT topology

## MATHEMATICAL MODELS

*1996-07-23*

(From September 1982 till March 1997 OPERATIONS RESEARCH was a valid ETDE descriptor.)

UF *models (mathematical)*  
 UF *thermal-nelson model*  
 SF *operations research*  
 NT1 atomic models  
 NT2 thomas-fermi model  
 NT1 box models  
 NT1 climate models  
 NT1 cosmological models  
 NT2 inflationary universe  
 NT1 crystal models  
 NT2 heisenberg model  
 NT2 hubbard model  
 NT2 ising model  
 NT1 electron-promotion model  
 NT1 flow models  
 NT1 general circulation models  
 NT1 harmonic oscillator models  
 NT1 molecular models  
 NT2 thermodynamic molecular model  
 NT1 nuclear models  
 NT2 black nucleus model  
 NT2 brueckner model  
 NT2 cloudy crystal ball model  
 NT2 cluster model  
 NT2 coherent tube model  
 NT2 collective model  
 NT3 rotation-vibration model  
 NT2 cranking model  
 NT2 davydov-filipov model  
 NT2 droplet model  
 NT2 elliot model  
 NT2 evaporation model  
 NT3 weiskopf model  
 NT2 exciton model  
 NT2 fermi gas model  
 NT2 folding model  
 NT2 goldberger model  
 NT2 lane-thomas-wigner model  
 NT2 liquid drop model  
 NT2 nilsson-mottelson model  
 NT2 nuclear fireball model  
 NT2 order-disorder model  
 NT2 particle-core coupling model  
 NT2 particle-hole model  
 NT2 perey-buck model  
 NT2 quartet model

NT2 quasiparticle-phonon model  
 NT2 scission-point model  
 NT2 shell models  
 NT3 governor model  
 NT3 interacting boson model  
 NT3 multi-center shell model  
 NT2 single-particle model  
 NT2 spherical model  
 NT2 strong-absorption model  
 NT2 superfluid model  
 NT2 unified model  
 NT2 valency model  
 NT2 vibron model  
 NT2 vmi model  
 NT2 walecka model  
 NT2 weak-coupling model  
 NT1 optical models  
 NT1 particle models  
 NT2 coherent tube model  
 NT2 composite models  
 NT3 bootstrap model  
 NT3 cim model  
 NT3 quark model  
 NT4 bag model  
 NT4 color model  
 NT4 flavor model  
 NT4 string models  
 NT5 superstring models  
 NT2 correlated-particle models  
 NT2 diffraction models  
 NT2 dual absorption model  
 NT2 extended particle model  
 NT3 bag model  
 NT3 string models  
 NT4 superstring models  
 NT2 feynman gas model  
 NT2 fireball model  
 NT2 gluon model  
 NT2 hard collision models  
 NT2 higgs model  
 NT2 isobar model  
 NT2 jet model  
 NT2 lee model  
 NT2 linear absorption models  
 NT2 nova model  
 NT2 octet model  
 NT2 peripheral models  
 NT3 baryon-exchange models  
 NT3 boson-exchange models  
 NT4 obe model  
 NT5 ope model  
 NT6 electric born model  
 NT4 sigma model  
 NT3 multiperipheral model  
 NT4 cluster emission model  
 NT5 space-time model  
 NT2 strong-coupling model  
 NT2 tensor dominance model  
 NT2 thermodynamic model  
 NT3 hydrodynamic model  
 NT2 uncorrelated-particle model  
 NT2 unified gauge models  
 NT3 grand unified theory  
 NT4 standard model  
 NT3 weinberg-salam gauge model  
 NT2 van hove model  
 NT2 vector dominance model  
 NT2 veneziano model  
 NT3 dual resonance model  
 NT1 star models  
 NT1 statistical models  
 NT2 feynman gas model  
 NT2 thermodynamic model  
 NT3 hydrodynamic model  
 RT bifurcation  
 RT biological models  
 RT comparative evaluations  
 RT computer-aided design  
 RT computer calculations

RT dynamic programming  
 RT energy models  
 RT exact solutions  
 RT functional models  
 RT fuzzy logic  
 RT hypothesis  
 RT linear programming  
 RT mathematical evolution  
 RT mathematical logic  
 RT microcosms  
 RT mockup  
 RT nonlinear programming  
 RT parametric analysis  
 RT projection series  
 RT response functions  
 RT scaling laws  
 RT sensitivity analysis  
 RT simulation  
 RT structural models  
 RT time-series analysis  
 RT validation

**MATHEMATICAL OPERATORS**

UF operators (mathematical)  
 NT1 casimir operators  
 NT1 hermitian operators  
 NT1 laplacian  
 NT1 projection operators  
 NT1 quantum operators  
 NT2 angular momentum operators  
 NT3 orbital momentum operators  
 NT3 pauli spin operators  
 NT2 annihilation operators  
 NT2 commutators  
 NT3 current commutators  
 NT4 sigma terms  
 NT2 creation operators  
 NT2 dirac operators  
 NT2 field operators  
 NT2 hamiltonians  
 NT2 linear momentum operators  
 NT2 moshinsky transformation  
 NT2 position operators  
 NT1 superoperators  
 RT commutation relations  
 RT density matrix  
 RT digital frequency analysis  
 RT eigenvalues  
 RT eigenvectors  
 RT mathematics  
 RT quantum mechanics  
 RT transfer matrix method

**MATHEMATICAL SOLUTIONS**

INIS: 2003-06-19; ETDE: 2003-07-29

NT1 analytical solution  
 NT1 asymptotic solutions  
 NT1 exact solutions  
 NT1 numerical solution  
 NT2 collision probability method  
 NT2 extrapolation  
 NT2 finite difference method  
 NT2 finite element method  
 NT3 boundary element method  
 NT2 interpolation  
 NT2 maximum-likelihood fit  
 NT3 least square fit  
 NT2 runge-kutta method  
 RT algorithms  
 RT calculation methods  
 RT equations  
 RT mathematical logic  
 RT mathematics

**MATHEMATICAL SPACE**

BT1 space  
 NT1 banach space  
 NT2 hilbert space  
 NT1 hausdorff space  
 NT1 minkowski space

NT1 phase space  
 NT1 riemann space  
 NT2 euclidean space  
 RT chaos theory  
 RT differential geometry  
 RT fock representation  
 RT functional analysis  
 RT geodesics  
 RT graph theory  
 RT lobachevsky geometry  
 RT mathematical manifolds  
 RT mathematics  
 RT measure theory  
 RT metrics  
 RT space dependence  
 RT space-time

**MATHEMATICS**

NT1 algebra  
 NT1 chaos theory  
 NT1 differential calculus  
 NT1 functional analysis  
 NT1 geometry  
 NT2 differential geometry  
 NT2 lobachevsky geometry  
 NT1 global analysis  
 NT1 graph theory  
 NT1 group theory  
 NT1 integral calculus  
 NT1 measure theory  
 NT1 numerical analysis  
 NT1 prony method  
 NT1 set theory  
 NT1 statistics  
 NT2 game theory  
 NT2 kriging  
 NT2 multivariate analysis  
 NT2 regression analysis  
 NT2 time-series analysis  
 NT1 topology  
 NT2 differential topology  
 RT algorithms  
 RT anharmonic oscillators  
 RT bethe-tait method  
 RT boundary element method  
 RT canonical transformations  
 RT conformal mapping  
 RT convergence  
 RT coordinates  
 RT differential equations  
 RT eigenvectors  
 RT equations  
 RT extrapolation  
 RT extreme-value problems  
 RT factorization  
 RT finite difference method  
 RT finite element method  
 RT four-dimensional calculations  
 RT fourier analysis  
 RT functions  
 RT galerkin-petrov method  
 RT gamma function  
 RT geodesy  
 RT harmonic oscillators  
 RT integral equations  
 RT integral transformations  
 RT integrals  
 RT interpolation  
 RT iterative methods  
 RT many-dimensional calculations  
 RT mathematical logic  
 RT mathematical manifolds  
 RT mathematical operators  
 RT mathematical solutions  
 RT mathematical space  
 RT matrices  
 RT mesh generation  
 RT metrics  
 RT network analysis

RT newton method  
 RT nodal expansion method  
 RT nonlinear problems  
 RT one-dimensional calculations  
 RT perturbation theory  
 RT phase space  
 RT polynomials  
 RT power series  
 RT quasilinear problems  
 RT queues  
 RT regge calculus  
 RT runge-kutta method  
 RT saddle-point method  
 RT scalars  
 RT series expansion  
 RT spherical harmonics  
 RT spline functions  
 RT superconvergence relations  
 RT tensors  
 RT three-dimensional calculations  
 RT two-dimensional calculations  
 RT variational methods  
 RT vectors  
 RT weierstrass functions

**MATHIEU EQUATION**

\*BT1 differential equations

**MATING**

RT behavior  
 RT reproduction  
 RT sex

**MATRICES**

NT1 density matrix  
 NT1 g matrix  
 NT1 hermitian matrix  
 NT1 k matrix  
 NT1 kobayashi-maskawa matrix  
 NT1 nuclear matrix  
 NT1 r matrix  
 NT1 s matrix  
 RT mathematics  
 RT matrix elements  
 RT metrics  
 RT secular equation

**MATRIX ELEMENTS**

RT brillouin theorem  
 RT matrices

**MATRIX ISOLATION**

INIS: 1978-08-30; ETDE: 1978-10-19

Method for investigating chemical, physical, spectroscopic and other properties of reactive species of atoms or molecules while trapped in matrices at low temperatures.

RT atoms  
 RT clathrates  
 RT molecular structure  
 RT molecules  
 RT spectroscopy

**MATRIX MATERIALS**

UF electrolyte tiles  
 BT1 materials  
 RT fuel cells  
 RT fuel elements  
 RT graphite  
 RT reactor materials  
 RT resins

**MATSUKAWA GEOTHERMAL FIELD**

2000-04-12

BT1 geothermal fields  
 RT hachimantai  
 RT japan  
 RT vapor-dominated systems

**MATTER**

NT1 antimatter

**NT2** antinuclei  
**NT3** antideuterons  
**NT3** antiprotons  
**NT3** antitritons  
**NT2** antiparticles  
**NT3** antibaryons  
**NT4** antihyperons  
**NT5** antilambda particles  
**NT5** antiomega particles  
**NT5** antisigma particles  
**NT5** antixi particles  
**NT4** antinucleons  
**NT5** antineutrons  
**NT5** antiprotons  
**NT3** antikaons  
**NT4** antikaons neutral  
**NT3** antileptons  
**NT4** antineutrinos  
**NT5** electron antineutrinos  
**NT5** muon antineutrinos  
**NT4** muons plus  
**NT4** positrons  
**NT5** cosmic positrons  
**NT3** antimesons  
**NT4** pseudoscalar antimesons  
**NT5** anti-b neutral mesons  
**NT5** anti-d neutral mesons  
**NT1** nonluminous matter  
**NT1** nuclear matter  
**NT1** organic matter  
**NT2** kerogen  
**NT2** peat  
**NT1** quark matter  
**NT1** volatile matter  
*RT* ambiplasma  
*RT* cosmology  
*RT* rheology

**MATTHIESSEN RULE**  
*RT* electric conductivity  
*RT* thermal conductivity

**MATURATION**  
*INIS: 2000-07-24; ETDE: 1977-08-09*  
*UF* thermal alteration  
*RT* petroleum

**MAURITANIA**  
**BT1** africa  
**BT1** arab countries  
**BT1** developing countries

**MAURITIUS**  
*INIS: 1992-06-04; ETDE: 1981-05-18*  
**BT1** developing countries  
**BT1** islands  
*RT* indian ocean

**max-planck-institut fuer plasmaphysik**  
*INIS: 1993-11-09; ETDE: 2002-03-28*  
 USE ipp garching

**MAXIMUM ACCEPTABLE CONTAMINATION**  
*UF* mac  
**\*BT1** contamination regulations  
**\*BT1** safety standards  
*RT* contamination

**MAXIMUM CREDIBLE ACCIDENT**  
*UF* mca  
**\*BT1** design basis accidents  
*RT* health hazards  
*RT* reactor safety

**MAXIMUM INHALATION QUANTITY**  
*UF* miq  
**\*BT1** safety standards  
*RT* inhalation

*RT* radioactivity

**MAXIMUM-LIKELIHOOD FIT**  
**\*BT1** numerical solution  
**NT1** least square fit  
*RT* probability  
*RT* statistics

**MAXIMUM PERMISSIBLE ACTIVITY**  
*UF* mpa  
**\*BT1** safety standards  
*RT* activity levels  
*RT* radioactivity

**MAXIMUM PERMISSIBLE BODY BURDEN**  
*UF* mpbb  
**\*BT1** safety standards  
*RT* body burden  
*RT* radioactivity  
*RT* retention

**MAXIMUM PERMISSIBLE CONCENTRATION**  
*UF* mpc  
**\*BT1** safety standards

**MAXIMUM PERMISSIBLE DOSE**  
*UF* mpd  
**\*BT1** safety standards  
*RT* dose limits  
*RT* maximum permissible exposure  
*RT* radiation doses

**MAXIMUM PERMISSIBLE EXPOSURE**  
*UF* mpe  
**\*BT1** safety standards  
*RT* integral doses  
*RT* maximum permissible dose  
*RT* radiation doses

**MAXIMUM PERMISSIBLE INTAKE**  
*UF* mpi  
**\*BT1** safety standards  
*RT* intake  
*RT* radioactivity

**MAXIMUM PERMISSIBLE LEVEL**  
*UF* mpl  
**\*BT1** safety standards  
*RT* radioactivity

**maxwell-boltzmann distribution**  
 USE boltzmann statistics

**maxwell-boltzmann equation**  
*ETDE: 2002-03-28*  
 USE boltzmann equation

**maxwell-boltzmann statistics**  
 USE boltzmann statistics

**maxwell-boltzmann system**  
*INIS: 2000-04-12; ETDE: 1995-09-01*  
 SEE boltzmann-vlasov equation

**maxwell distribution**  
 USE boltzmann statistics

**MAXWELL EQUATIONS**  
**\*BT1** partial differential equations  
*RT* born-infeld theory  
*RT* electrodynamics  
*RT* electromagnetic fields  
*RT* field equations  
*RT* poynting theorem

**maxwell statistics**  
 USE boltzmann statistics

**maxwell velocity distribution**  
 USE boltzmann statistics

**mayaguez puerto rico l-77 reactor**  
 1993-11-09  
 USE prnc-l-77 reactor

**mayaguez puerto rico pool reactor**  
 2000-04-12  
 USE prpr reactor

**MAYAK PLANT**  
 1996-06-26  
**BT1** nuclear facilities  
*RT* fuel reprocessing plants  
*RT* russian federation

**mayflies**  
*INIS: 1993-07-14; ETDE: 1984-02-21*  
 USE ephemeroptera

**mbe**  
*INIS: 1994-06-27; ETDE: 1982-10-20*  
 USE molecular beam epitaxy

**MBP**  
*INIS: 1988-08-02; ETDE: 1982-10-05*  
*UF* monobutyl phosphate  
**\*BT1** butyl phosphates

**MC GUIRE-1 REACTOR**  
*Duke Energy Co., Huntersville, North Carolina, USA.*  
*UF* w. b. mc guire-1 reactor  
**\*BT1** pwr type reactors

**MC GUIRE-2 REACTOR**  
*Duke Energy Co., Huntersville, North Carolina, USA.*  
*UF* w. b. mc guire-2 reactor  
**\*BT1** pwr type reactors

**mc master university nuclear reactor**  
 1993-11-09  
 USE mnr reactor

**mca**  
 USE maximum credible accident

**mcdowell-wellman process**  
*INIS: 2000-04-12; ETDE: 1978-04-27*  
*Gasification process in which the gasifier has a continuous automatic gravity coal feeding system, a revolving grate, and an elevated ash pit. The gas-making chamber is completely water-jacketed. The inner wall is made of one-inch thick steel plate and requires no brick lining. Waste heat in the water jacket generates the required steam.*  
 (Prior to July 1993, this was a valid ETDE descriptor.)  
 USE coal gasification

**MCGILL SYNCHROCYCLOTRON**  
**\*BT1** synchrocyclotrons

**mcmurdo sound medium power plant 3a**  
 1993-11-09  
 USE pm-3a reactor

**mcpp**  
*INIS: 2000-04-12; ETDE: 1985-05-31*  
 SEE dual-purpose power plants

**MDPA**  
*UF* monododecylphosphoric acid  
**BT1** chelating agents  
**\*BT1** organic acids  
**\*BT1** phosphoric acid esters

**mea (mercaptoethylamine)**

ETDE: 2005-02-08

(Prior to January 2005 MEA was a valid descriptor.)

USE cysteamine

**MEA LINAC**

INIS: 1976-10-07; ETDE: 1976-11-01

500 MeV linac at NIKHEF, Amsterdam.

\*BT1 linear accelerators

**MEADOW FOAM**

INIS: 1991-12-16; ETDE: 1982-03-11

UF *limnanthes alba*

\*BT1 herbs

\*BT1 magnoliopsida

RT hydrocarbons

RT lubricating oils

**MEAN-FIELD THEORY**

INIS: 1984-08-24; ETDE: 1984-02-10

*An approach for quantum-mechanical many-body problems by definition of a mean field which is derived from the interactions of single bodies.*

RT many-body problem

RT self-consistent field

RT statistical mechanics

**MEAN FREE PATH**

RT anomalous

RT cross sections

RT diffusion

RT geiger-nuttall law

**mean life**

USE lifetime

**mean radiant temperature**

2004-06-08

*Parameter used in description of thermal comfort of building occupants; use one or more of the following descriptors.*

SEE blackbody radiation

SEE thermal comfort

SEE thermodynamic properties

**MEASLES**

INIS: 1976-06-23; ETDE: 1976-08-24

UF *german measles*UF *rubeola*

\*BT1 viral diseases

RT measles virus

**MEASLES VIRUS**

INIS: 1976-06-23; ETDE: 1976-08-24

UF *rubella virus*UF *rubeola virus*

\*BT1 viruses

RT measles

**MEASURE THEORY***Relates to the property of sigma algebras or Borel fields referred to as measure.*

BT1 mathematics

RT graph theory

RT mathematical manifolds

RT mathematical space

RT metrics

RT periodicity

**measured values**

2000-03-28

USE data

**measurement while drilling**

INIS: 1992-08-13; ETDE: 1978-12-11

USE mwd systems

**MEASURING INSTRUMENTS***Use of a more specific term is recommended.*UF *instruments (measuring)*SF *tensiometers*

NT1 accelerometers

NT1 altimeters

NT1 anemometers

NT2 hot wire anemometers

NT2 laser doppler anemometers

NT1 bolometers

NT1 calorimeters

NT1 densimeters

NT2 pycnometers

NT1 diffractometers

NT2 gamma diffractometers

NT2 neutron diffractometers

NT2 x-ray diffractometers

NT1 displacement gages

NT1 dosimeters

NT2 albedo-neutron dosimeters

NT2 biological dosimeters

NT2 bragg gray chambers

NT2 bubble dosimeters

NT2 calorimetric dosimeters

NT2 chemical dosimeters

NT2 colorimetric dosimeters

NT2 condenser ionization chambers

NT2 exoelectron dosimeters

NT2 extrapolation chambers

NT2 luminescent dosimeters

NT3 rpl dosimeters

NT3 thermoluminescent dosimeters

NT2 photographic film dosimeters

NT2 ritac dosimeters

NT2 ritad dosimeters

NT1 dynamometers

NT1 electric measuring instruments

NT2 ammeters

NT2 electrometers

NT2 electroscopes

NT2 galvanometers

NT2 potentiometers

NT2 power meters

NT2 voltmeters

NT1 ellipsometers

NT1 fire detectors

NT2 smoke detectors

NT1 fluorimeters

NT1 fluxmeters

NT2 squid devices

NT1 fuel gages

NT1 goniometers

NT1 interferometers

NT2 fabry-perot interferometer

NT2 mach-zehnder interferometer

NT2 michelson interferometer

NT1 ion-mobility detectors

NT1 level indicators

NT1 lysimeters

NT1 magnetic balances

NT1 magnetometers

NT2 fluxgate magnetometers

NT2 moving coil magnetometers

NT2 proton precession magnetometers

NT2 vibrating sample magnetometers

NT1 meters

NT2 activity meters

NT2 carbon meters

NT2 flowmeters

NT3 plasma eaters

NT2 gas meters

NT2 heat meters

NT2 hydrogen meters

NT2 oxygen meters

NT2 power meters

NT2 reactivity meters

NT2 sulfur meters

NT2 tritium meters

NT1 moisture gages

NT1 monitors

NT2 air pollution monitors

NT2 beam monitors

NT3 beam scanners

NT3 faraday cups

NT3 magnetoinduction sensors

NT2 failed element monitors

NT2 radiation monitors

NT3 exposure ratemeters

NT3 liquid contamination monitors

NT3 neutron monitors

NT3 surface contamination monitors

NT3 survey monitors

NT2 water pollution monitors

NT1 multispectral scanners

NT1 neutron activation analyzers

NT1 noise dosimeters

NT1 nuclear reaction analyzers

NT1 odorometers

NT1 penetrometers

NT1 photometers

NT2 densitometers

NT1 porosimeters

NT1 potentiostats

NT1 pressure gages

NT2 barometers

NT2 hot-wire gages

NT3 pirani gages

NT2 vacuum gages

NT3 ionization gages

NT4 bayard-alpert gages

NT4 philips gages

NT4 radioactive ionization gages

NT3 knudsen gages

NT3 pirani gages

NT1 pyranometers

NT1 pyrhelimeters

NT1 pyrometers

NT2 optical pyrometers

NT1 radiation detectors

NT2 chemical radiation detectors

NT2 cherenkov counters

NT2 compton diode detectors

NT2 corona counters

NT2 crystal counters

NT3 filament crystal counters

NT2 dielectric track detectors

NT2 directional radiation detectors

NT2 electron multiplier detectors

NT2 emanometers

NT2 fermilab collider detector

NT2 flow counters

NT2 four-pi detectors

NT2 gas track detectors

NT3 bubble chambers

NT4 cryogenic bubble chambers

NT4 heavy liquid bubble chambers

NT4 ultrasonic bubble chambers

NT3 cloud chambers

NT4 diffusion chambers

NT4 expansion chambers

NT3 spark chambers

NT4 filmless spark chambers

NT5 sonic spark chambers

NT5 wire spark chambers

NT4 projection spark chambers

NT4 streamer spark chambers

NT4 wide gap spark chambers

NT2 geiger-mueller counters

NT2 gravitational wave detectors

NT2 ionization chambers

NT3 boron coated ion chambers

NT3 bragg gray chambers

NT3 condenser ionization chambers

NT3 extrapolation chambers

NT3 fission chambers

NT3 liquid ionization chambers

NT3 multiwire ionization chambers

NT2 low level counters

NT2 neutron detectors

NT3 activation detectors

NT3 bf3 counters

**NT3** boron coated ion chambers  
**NT3** boron lined counters  
**NT3** fission chambers  
**NT3** fission foil detectors  
**NT3** fission thermocouple detectors  
**NT3** he-3 counters  
**NT3** moderating detectors  
   **NT4** bonner sphere detectors  
   **NT4** long counters  
**NT3** proton recoil detectors  
**NT3** self-powered neutron detectors  
**NT3** threshold detectors  
**NT2** photographic film detectors  
**NT2** position sensitive detectors  
**NT2** proportional counters  
**NT3** bf3 counters  
**NT3** boron lined counters  
**NT3** he-3 counters  
**NT3** liquid proportional counters  
**NT3** multiwire proportional chambers  
   **NT4** drift chambers  
   **NT5** time projection chambers  
**NT3** needle chambers  
**NT2** pyroelectric detectors  
**NT2** radiometers  
**NT2** scintillation counters  
   **NT3** gas scintillation detectors  
   **NT3** liquid scintillation detectors  
   **NT3** scintillator-photodiode detectors  
   **NT3** solid scintillation detectors  
     **NT4** bgo detectors  
     **NT4** nai detectors  
     **NT4** plastic scintillation detectors  
**NT2** secondary emission detectors  
**NT2** self-powered detectors  
   **NT3** self-powered gamma detectors  
   **NT3** self-powered neutron detectors  
**NT2** semiconductor detectors  
   **NT3** bulk semiconductor detectors  
   **NT3** cdte semiconductor detectors  
   **NT3** ge semiconductor detectors  
     **NT4** high-purity ge detectors  
     **NT4** li-drifted ge detectors  
   **NT3** hgi2 semiconductor detectors  
   **NT3** insb semiconductor detectors  
   **NT3** junction detectors  
     **NT4** li-drifted junction detectors  
   **NT3** li-drifted detectors  
     **NT4** li-drifted ge detectors  
     **NT4** li-drifted junction detectors  
     **NT4** li-drifted si detectors  
   **NT3** si semiconductor detectors  
     **NT4** li-drifted si detectors  
     **NT4** si microstrip detectors  
   **NT3** surface barrier detectors  
**NT2** shower counters  
**NT2** spark counters  
**NT2** stanford linear collider detector  
**NT2** superconducting colloid detectors  
**NT2** tissue-equivalent detectors  
**NT2** transition radiation detectors  
**NT2** wall-less counters  
**NT2** whole-body counters  
**NT1** radiometric gages  
   **NT2** electron-capture detectors  
**NT1** range finders  
   **NT2** radar  
     **NT3** acoustic radar  
     **NT3** optical radar  
   **NT2** sonar  
**NT1** riometers  
**NT1** sedimentometers  
**NT1** seismic arrays  
**NT1** seismic detectors  
**NT1** seismographs  
**NT1** spectrometers  
   **NT2** alpha spectrometers  
   **NT2** beta spectrometers  
   **NT2** cosmic ray spectrometers

**NT2** electron spectrometers  
**NT2** electrostatic spectrometers  
**NT2** epr spectrometers  
**NT2** fission fragment spectrometers  
**NT2** fourier transform spectrometers  
**NT2** gamma spectrometers  
   **NT3** compton spectrometers  
   **NT3** moessbauer spectrometers  
   **NT3** pair spectrometers  
**NT2** heavy ion spectrometers  
**NT2** infrared spectrometers  
   **NT3** photoacoustic spectrometers  
**NT2** magnetic spectrometers  
   **NT3** flat magnetic spectrometers  
   **NT3** magnetic lens spectrometers  
**NT2** mass spectrometers  
   **NT3** dynamic mass spectrometers  
     **NT4** energy balance mass spectrometers  
     **NT4** time-of-flight mass spectrometers  
   **NT3** spark mass spectrometers  
   **NT3** static mass spectrometers  
**NT2** missing-mass spectrometers  
**NT2** multiparticle spectrometers  
**NT2** neutral particle analyzers  
**NT2** neutron spectrometers  
   **NT3** bonner sphere spectrometers  
**NT2** nmr spectrometers  
**NT2** optical spectrometers  
**NT2** proton spectrometers  
**NT2** time-of-flight spectrometers  
   **NT3** time-of-flight mass spectrometers  
**NT2** ultraviolet spectrometers  
**NT2** x-ray spectrometers  
**NT1** spectrophotometers  
**NT1** strain gages  
**NT1** thermocouples  
**NT1** thermometers  
   **NT2** geothermometers  
   **NT2** noise thermometers  
**NT1** thickness gages  
**NT1** time interval analyzers  
   **NT2** chronotrons  
**NT1** velocimeters  
**NT1** viscosimeters  
**NT1** weight indicators  
   **NT2** balances  
   **NT3** microbalances  
**RT** dna sequencers  
**RT** gyroscopes  
**RT** ionosondes  
**RT** miniaturization  
**RT** nisus facility  
**RT** on-line measurement systems  
**RT** probes  
**RT** reactor instrumentation  
**RT** recording systems  
**RT** response functions  
**RT** temperature measurement  
**RT** time measurement  
**RT** transducers

## MEASURING METHODS

*Important new measuring techniques only.*

**NT1** ellipsometry  
**NT1** thermography  
   **NT2** infrared thermography  
**RT** calculation methods  
**RT** comparative evaluations  
**RT** dosimetry  
**RT** frequency measurement  
**RT** master metering  
**RT** metering  
**RT** particle discrimination  
**RT** stern-gerlach experiment

## MEAT

**UF** bacon  
**UF** beef

**UF** ham  
**UF** pork  
**BT1** food  
**RT** cattle  
**RT** sheep  
**RT** swine  
**RT** trichinella

## MEAT INDUSTRY

*INIS: 2000-04-12; ETDE: 1977-06-21*

\***BT1** food industry

## MECHANICAL DECLADDING

\***BT1** decladding  
**RT** cutting  
**RT** milling

## mechanical draft cooling towers

*2000-04-12*

(Prior to March 1997 this was a valid ETDE descriptor.)

**USE** cooling towers  
**USE** forced convection

## mechanical effects

*2000-04-12*

(Prior to September 1981, this was a valid ETDE descriptor.)

**USE** mechanical properties

## MECHANICAL EFFICIENCY

**BT1** efficiency  
**RT** gears

## MECHANICAL ENERGY STORAGE EQUIPMENT

*INIS: 2000-04-12; ETDE: 1979-08-07*

**NT1** flywheels  
**NT1** hydraulic accumulators  
**RT** energy storage  
**RT** energy storage systems

## MECHANICAL ENGINEERING

*INIS: 1999-02-15; ETDE: 1982-07-08*

**BT1** engineering

## MECHANICAL FILTERS

*1999-07-29*

**BT1** filters  
**NT1** granular bed filters

## mechanical fragmentation

*INIS: 1995-09-08; ETDE: 2002-03-28*

(Until August 1995 this was a valid term.)

**USE** fragmentation

## MECHANICAL HEART

**BT1** artificial organs  
\***BT1** prostheses  
**RT** blood circulation  
**RT** cardiac pacemakers  
**RT** heart  
**RT** radioisotope batteries

## MECHANICAL IMPEDANCE

*INIS: 1975-11-07; ETDE: 1975-12-16*

**BT1** impedance

## mechanical kidney

*INIS: 2000-04-12; ETDE: 1977-06-02*

(Prior to March 1996 this was a valid ETDE descriptor.)

**USE** artificial organs  
**USE** kidneys

## MECHANICAL POLISHING

\***BT1** polishing

## MECHANICAL PROPERTIES

**UF** mechanical effects  
**UF** properties (mechanical)  
**NT1** brittleness  
**NT1** compressibility



**NT1** compression strength  
**NT1** creep  
**NT1** dilatancy  
**NT1** elasticity  
   **NT2** photoelasticity  
   **NT2** thermoelasticity  
**NT1** fatigue  
   **NT2** corrosion fatigue  
   **NT2** thermal fatigue  
**NT1** flexural strength  
**NT1** fracture properties  
**NT1** hardness  
   **NT2** microhardness  
**NT1** impact strength  
**NT1** plasticity  
**NT1** poisson ratio  
**NT1** shear properties  
**NT1** tensile properties  
   **NT2** ductility  
   **NT2** flexibility  
**NT1** ultimate strength  
**NT1** wear resistance  
**NT1** yield strength  
**NT1** young modulus  
*RT* acoustic microscopy  
*RT* deformation  
*RT* destructive testing  
*RT* physical metallurgy  
*RT* rheology  
*RT* rock mechanics  
*RT* stresses  
*RT* thermal degradation

**MECHANICAL SHAFTS**

*INIS: 1976-09-06; ETDE: 1987-02-20*

(From January 1975 till March 1997 SHAFTS was a valid ETDE descriptor.)

*UF* shafts (mechanical)  
*SF* shafts  
**BT1** machine parts

**MECHANICAL STRUCTURES**

*UF* columns (mechanical)  
*UF* structures (mechanics)  
*UF* towers (structures)  
*SF* towers  
**NT1** bridges  
**NT1** domed structures  
**NT1** honeycomb structures  
**NT1** intake structures  
**NT1** outlet structures  
**NT1** power transmission towers  
**NT1** roofs  
**NT1** supports  
   **NT2** foundations  
   **NT2** fuel racks  
   **NT2** powered supports  
   **NT3** shield supports  
*RT* buildings  
*RT* construction  
*RT* modular structures  
*RT* ratcheting  
*RT* response functions  
*RT* shells  
*RT* soil-structure interactions

**MECHANICAL TESTS**

See also descriptors for the properties tested.

**\*BT1** materials testing  
**NT1** impact tests  
   **NT2** charpy test  
*RT* dynamic loads  
*RT* static loads  
*RT* strain gages  
*RT* stress intensity factors  
*RT* stresses  
*RT* thermal cycling  
*RT* wear

**MECHANICAL TRANSMISSIONS**

1992-03-11

**BT1** machine parts  
*RT* automobiles  
*RT* gears  
*RT* vehicles

**MECHANICAL VIBRATIONS**

(From February 1976 till March 1997

PENDULUMS was a valid ETDE descriptor.)

*UF* vibrations (mechanical)  
*SF* pendulums  
*RT* amplitudes  
*RT* damping  
*RT* dynamic loads  
*RT* harmonics  
*RT* hydrodynamic mass effect  
*RT* oscillations  
*RT* springs  
*RT* standing waves  
*RT* travelling waves

**MECHANICS**

*UF* translation (mechanical)  
**NT1** classical mechanics  
**NT1** dynamics  
   **NT2** beam dynamics  
     **NT3** beam bunching  
     **NT3** betatron oscillations  
     **NT3** phase oscillations  
     **NT3** synchrotron oscillations  
**NT1** electromechanics  
**NT1** fluid mechanics  
   **NT2** aerodynamics  
   **NT2** electrogasdynamics  
   **NT2** hydraulics  
     **NT3** thermal hydraulics  
   **NT2** hydrodynamics  
     **NT3** electrohydrodynamics  
     **NT3** magnetohydrodynamics  
   **NT2** magnetogasdynamics  
   **NT2** pneumatics  
**NT1** fracture mechanics  
**NT1** quantum mechanics  
**NT1** rock mechanics  
**NT1** soil mechanics  
**NT1** statistical mechanics  
*RT* action integral  
*RT* anharmonic oscillators  
*RT* canonical transformations  
*RT* center-of-mass system  
*RT* degrees of freedom  
*RT* equations of motion  
*RT* galilei transformations  
*RT* hamilton-jacobi equations  
*RT* harmonic oscillators  
*RT* kinetics  
*RT* laboratory system  
*RT* lagrange equations  
*RT* lagrangian function  
*RT* moment of inertia  
*RT* physical metallurgy  
*RT* surface forces  
*RT* virial theorem

**medec process**

*INIS: 2000-04-12; ETDE: 1980-08-25*

A process for removal of elemental sodium from LMFBR radioactive wastes.

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE lmfr type reactors  
 SEE radioactive waste processing

**MEDIASTINUM**

**\*BT1** chest  
*RT* aorta  
*RT* esophagus  
*RT* heart  
*RT* pleura

*RT* thymus  
*RT* trachea

**mediation**

*INIS: 2000-04-12; ETDE: 1981-03-17*

Intervention between conflicting parties to promote reconciliation, settlement, or compromise.

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE arbitration  
 SEE dispute settlements  
 SEE negotiation

**medical centers**

*INIS: 2000-04-12; ETDE: 1977-12-22*

(Prior to July 1985, this was a valid ETDE descriptor.)

USE medical establishments

**MEDICAL ESTABLISHMENTS**

*INIS: 1976-12-08; ETDE: 1979-09-26*

*UF* medical centers  
**NT1** hospitals  
*RT* buildings  
*RT* health services  
*RT* public health

**MEDICAL EXAMINATIONS**

*INIS: 1976-12-08; ETDE: 1978-07-05*

**BT1** medical surveillance  
*RT* diagnosis  
*RT* preventive medicine

**MEDICAL PERSONNEL**

**BT1** personnel  
**NT1** radiological personnel  
*RT* medicine

**MEDICAL RECORDS**

*INIS: 1976-12-08; ETDE: 1979-05-25*

*RT* medical surveillance

**medical research reactor, bnl**

*INIS: 1984-06-21; ETDE: 2002-03-28*

USE mrr reactor

**MEDICAL SUPPLIES**

**NT1** prostheses  
   **NT2** mechanical heart  
**NT1** surgical materials  
*RT* drugs  
*RT* isomed  
*RT* medicine

**MEDICAL SURVEILLANCE**

(Prior to May 1996 SURVEILLANCE was a valid ETDE descriptor.)

*UF* surveillance (medical)  
*SF* surveillance  
**NT1** medical examinations  
*RT* contamination  
*RT* delayed radiation effects  
*RT* dose commitments  
*RT* medical records  
*RT* personnel  
*RT* personnel monitoring  
*RT* preventive medicine  
*RT* radiation doses

**MEDICINAL PLANTS**

1996-11-13

*UF* atropa belladonna  
**BT1** plants  
**NT1** aloe  
**NT1** castor  
**NT1** digitalis  
**NT1** papaver somniferum  
*RT* alkaloids  
*RT* drugs

**MEDICINE**

- UF* internal medicine
- NT1** acupuncture
- NT1** balneology
- NT1** dentistry
- NT1** gynecology
- NT1** hematology
- NT1** industrial medicine
- NT1** neurology
- NT1** nuclear medicine
- NT2** radiology
  - NT3** biomedical radiography
  - NT4** fluoroscopy
  - NT4** ionographic imaging
  - NT4** osteodensitometry
  - NT4** renography
  - NT3** radiotherapy
    - NT4** afterloading
    - NT4** brachytherapy
    - NT4** neutron therapy
    - NT5** neutron capture therapy
    - NT4** radioimmunotherapy
- NT1** ophthalmology
- NT1** pediatrics
- NT1** preventive medicine
- NT1** surgery
  - NT2** adrenalectomy
  - NT2** castration
  - NT2** gastrectomy
  - NT2** hepatectomy
  - NT2** hypophysectomy
  - NT2** laryngectomy
  - NT2** nephrectomy
  - NT2** plastic surgery
  - NT2** splenectomy
  - NT2** thymectomy
  - NT2** thyroidectomy
- NT1** therapy
  - NT2** chemotherapy
  - NT2** combined therapy
  - NT2** first aid
  - NT2** gene therapy
  - NT2** immunotherapy
    - NT3** radioimmunotherapy
  - NT2** post-irradiation therapy
  - NT2** radiotherapy
    - NT3** afterloading
    - NT3** brachytherapy
    - NT3** neutron therapy
      - NT4** neutron capture therapy
    - NT3** radioimmunotherapy
  - NT2** transfusions
- NT1** tropical medicine
- NT1** veterinary medicine
  - RT* anesthesia
  - RT* biology
  - RT* diagnosis
  - RT* diagnostic techniques
  - RT* diagnostic uses
  - RT* diseases
  - RT* hospitals
  - RT* medical personnel
  - RT* medical supplies
  - RT* pathology
  - RT* patients
  - RT* who

**medicines**

USE drugs

**mediterranean fruit fly**

*ETDE: 2000-08-10*

USE ceratitis capitata

**MEDITERRANEAN SEA**

- \*BT1 seas
- NT1** adriatic sea
- NT1** aegean sea
- RT* cyprus
- RT* malta

**MEDIUM-BETA PLASMA**

*Beta from 0.01 to 0.1.*

- BT1 plasma
- RT* beta ratio

**MEDIUM-HEAD HYDROELECTRIC**

**POWER PLANTS**

*INIS: 1993-12-30; ETDE: 1978-08-08*

*Heads of 15 to 150 meters.*

\*BT1 hydroelectric power plants

**medium-level wastes**

*INIS: 1979-04-27; ETDE: 2002-03-28*

USE intermediate-level radioactive wastes

**medium pressure**

(Prior to November 2003 this was a valid descriptor.)

- SEE pressure range kilo pa
- SEE pressure range mega pa 01-10

**medium temperature**

*1992-01-23*

(Prior to February 1992, this was a valid ETDE descriptor.)

USE temperature range 0273-0400 k

**medium vacuum**

(Prior to November 2003 this was a valid descriptor.)

- SEE pressure range milli pa
- SEE pressure range pa

**MEDIUM WAVE RADIATION**

\*BT1 radiowave radiation

**MEETINGS**

*1996-05-14*

- UF* conferences
- UF* symposia
- RT* hearings
- RT* proceedings

**meg (mercaptoethylguanidine)**

*ETDE: 2005-01-28*

(Prior to January 2005 MEG was a valid descriptor.)

USE mercaptoethylguanidine

**MEGA AMP BEAM CURRENTS**

*INIS: 1976-10-07; ETDE: 1976-07-07*

*From 10 exp 6 to 10 exp 9 amp.*

\*BT1 beam currents

**megakaryocytes**

USE bone marrow cells

**MEGALOBlastic ANEMIA**

- \*BT1 anemias
- RT* erythrocytes

**megatron**

*1996-06-28*

(Until June 1996 this was a valid descriptor.)

USE linear pinch devices

**MEGAWATT POWER RANGE**

*INIS: 1988-04-15; ETDE: 1989-08-10*

- BT1 power range
- NT1** power range 01-10 mw
- NT1** power range 10-100 mw
- NT1** power range 100-1000 mw

**mehrzweck-forschungsreaktor**

USE mzfr reactor

**meinzer unit**

*INIS: 1983-06-30; ETDE: 2002-03-28*

USE hydraulic conductivity

**MEIOSIS**

- BT1 cell division
- RT* crossing-over

- RT* gametogenesis
- RT* gene recombination proteins
- RT* mutations

**MEISSNER-OCHSENFELD EFFECT**

*RT* superconductivity

**MEITNERIUM**

*2004-03-19*

(Prior to March 2004 ELEMENT 109 was used for this element.)

*UF* eka-iridium

*UF* element 109

*UF* unmillennium

\*BT1 transactinide elements

**MEITNERIUM 266**

*2004-03-19*

(Prior to March 2004 ELEMENT 109 266 was used for this concept.)

*UF* element 109 266

\*BT1 alpha decay radioisotopes

\*BT1 heavy nuclei

\*BT1 meitnerium isotopes

\*BT1 microseconds living radioisotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 spontaneous fission radioisotopes

**MEITNERIUM 268**

*2004-03-19*

(Prior to March 2004 ELEMENT 109 268 was used for this concept.)

*UF* element 109 268

\*BT1 alpha decay radioisotopes

\*BT1 heavy nuclei

\*BT1 meitnerium isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

**MEITNERIUM ISOTOPES**

*2004-03-19*

(Prior to March 2004 ELEMENT 109 ISOTOPES was used for this concept.)

*UF* element 109 isotopes

BT1 isotopes

**NT1** meitnerium 266

**NT1** meitnerium 268

**MELAMINE**

\*BT1 amines

\*BT1 triazines

*RT* organic polymers

**MELANIN**

*UF* melanocytes

\*BT1 hydroxy compounds

\*BT1 organic nitrogen compounds

BT1 pigments

*RT* hair

*RT* methyl tyrosine

*RT* skin

*RT* tyrosine

**melanocytes**

USE animal cells

USE melanin

**MELANOMAS**

\*BT1 epitheliomas

**MELANOVANADITE**

*2000-04-12*

\*BT1 oxide minerals

\*BT1 radioactive minerals

*RT* calcium oxides

*RT* vanadium oxides

**MELATONIN**

\*BT1 tryptamines

*RT* pineal gland

**melekess-arbus reactor**

USE arbus reactor

**melekess-mir reactor**

USE mir reactor

**melekess-sm-2 reactor**

USE sm-2 reactor

**melbiose**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE disaccharides

**melilotic acid**

INIS: 1996-06-28; ETDE: 2002-03-28

(Until June 1996 this was a valid descriptor.)

USE hydroxy acids

**MELLIN TRANSFORM**

\*BT1 integral transformations

**MELLITIC ACID**

\*BT1 carboxylic acids

**MELOSH TRANSFORMATION**

BT1 transformations

RT hadrons

RT quantum field theory

RT quarks

**melt refining process**

INIS: 1980-07-24; ETDE: 1979-12-10

USE pyrochemical reprocessing

**MELTDOWN**

\*BT1 reactor accidents

RT core catchers

RT corium

RT source terms

**MELTING***Changing a substance from solid to liquid form by addition of heat.*

UF fusion (melting)

BT1 phase transformations

NT1 electron beam melting

NT1 vacuum melting

NT1 zone melting

RT casting

RT crucibles

RT defrosting

RT freezing

RT furnaces

RT heating

RT liquefaction

RT melting points

RT metallurgical flux

RT smelting

RT solidification

RT subterrene penetrators

RT thawing

RT welding

**MELTING POINTS**

UF freezing points

\*BT1 transition temperature

RT freeze protection

RT melting

RT phase diagrams

**MELUSINE-1 REACTOR***CEA-Grenoble Nuclear Studies Centre, Grenoble Cedex, France.*

UF grenoble reactor melusine-1

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**melusine-2 reactor**

USE siloette reactor

**MEMBER STATES***Countries participating in an international organization.*

RT international organizations

**MEMBRANE PORES**

INIS: 2000-04-12; ETDE: 1985-08-22

RT cell membranes

RT membrane transport

**MEMBRANE PROTEINS**

INIS: 2000-04-12; ETDE: 1987-10-26

\*BT1 proteins

NT1 porins

NT1 receptors

NT1 thylakoid membrane proteins

NT2 phycobiliproteins

NT3 phycocyanin

RT antigens

RT gtp-ases

RT lipoproteins

RT membrane transport

**MEMBRANE TRANSPORT**

INIS: 1986-07-09; ETDE: 1976-03-22

RT calmodulin

RT diffusion

RT mass transfer

RT membrane pores

RT membrane proteins

RT membranes

RT osmosis

RT porins

RT supported liquid membranes

**MEMBRANES**

UF ion exchange membranes

NT1 cell membranes

NT2 myelin

NT1 fetal membranes

NT2 placenta

NT1 meninges

NT1 mucous membranes

NT2 conjunctiva

NT1 photosynthetic membranes

NT1 serous membranes

NT2 mesentery

NT2 pericardium

NT2 peritoneum

NT2 pleura

NT1 supported liquid membranes

RT dialysis

RT membrane transport

RT osmosis

RT permeability

**MEMORY DEVICES**

UF data storage devices

UF punched cards

UF storage devices (data)

NT1 cryogenic storage devices

NT1 magnetic storage devices

NT2 magnetic cores

NT2 magnetic disks

NT2 magnetic drums

NT2 magnetic tapes

NT3 video tapes

NT1 semiconductor storage devices

NT1 thin film storage devices

RT punched tapes

RT quantum cryptography

**MEMORY MANAGEMENT**

INIS: 1992-08-18; ETDE: 1987-04-24

*The task of assigning a computer's main storage within a multitasking environment.*

\*BT1 data processing

RT computers

RT executive codes

RT parallel processing

RT programming

**MEN**

BT1 males

\*BT1 man

RT adults

**mendelev periodic system**

USE periodic system

**MENDELEVIUM**

\*BT1 actinides

\*BT1 transplutonium elements

**MENDELEVIUM 247**

INIS: 1986-06-09; ETDE: 1982-03-11

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 mendelevium isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**MENDELEVIUM 248**

1980-07-24

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 mendelevium isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**MENDELEVIUM 249**

1977-01-25

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 mendelevium isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

**MENDELEVIUM 250**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 mendelevium isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

**MENDELEVIUM 251**

1977-01-26

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 mendelevium isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

**MENDELEVIUM 252**

\*BT1 actinide nuclei

\*BT1 electron capture radioisotopes

\*BT1 mendelevium isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

**MENDELEVIUM 253**

INIS: 1977-01-26; ETDE: 1976-11-01

\*BT1 actinide nuclei

\*BT1 electron capture radioisotopes

\*BT1 mendelevium isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

**MENDELEVIUM 254**

\*BT1 actinide nuclei

\*BT1 electron capture radioisotopes

\*BT1 mendelevium isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

**MENDELEVIUM 255**

\*BT1 actinide nuclei

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

**MENDELEVIUM 256**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 odd-odd nuclei

**MENDELEVIUM 257**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 odd-even nuclei

**MENDELEVIUM 258**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei

**MENDELEVIUM 259**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 mendeleevium isotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes

**MENDELEVIUM 260**

*INIS: 1986-03-04; ETDE: 1985-04-09*

- \*BT1 actinide nuclei
- \*BT1 mendeleevium isotopes
- \*BT1 odd-odd nuclei

**MENDELEVIUM 261**

*INIS: 1987-02-25; ETDE: 1987-05-01*

- \*BT1 actinide nuclei
- \*BT1 mendeleevium isotopes
- \*BT1 odd-even nuclei

**MENDELEVIUM ADDITIONS**

*2000-04-12*

- RT* mendeleevium compounds

**MENDELEVIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes

**MENDELEVIUM COMPOUNDS**

*1996-06-28*

- UF* mendeleevium oxides
- BT1 actinide compounds
- \*BT1 transplutonium compounds
- RT* mendeleevium additions

**mendeleevium ions**

*1996-07-18*

(Until July 1996 this was a valid descriptor.)

- USE ions

**MENDELEVIUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 mendeleevium 247
- NT1 mendeleevium 248
- NT1 mendeleevium 249
- NT1 mendeleevium 250
- NT1 mendeleevium 251
- NT1 mendeleevium 252
- NT1 mendeleevium 253
- NT1 mendeleevium 254
- NT1 mendeleevium 255

NT1 mendeleevium 256

NT1 mendeleevium 257

NT1 mendeleevium 258

NT1 mendeleevium 259

NT1 mendeleevium 260

NT1 mendeleevium 261

**mendeleevium oxides**

*1996-06-28*

(Until June 1996 this was a valid descriptor.)

- USE mendeleevium compounds
- USE oxides

**MENDOCINO-1 REACTOR**

*Mendocino, California, USA. Canceled before construction began.*

- \*BT1 bwr type reactors

**MENDOCINO-2 REACTOR**

*Mendocino, California, USA. Canceled before construction began.*

- \*BT1 bwr type reactors

**MENDOZA**

- \*BT1 argentina

**MENINGES**

- BT1 membranes
- RT* central nervous system
- RT* meningococcus

**MENINGOCOCCUS**

- \*BT1 bacteria
- RT* meninges
- RT* nervous system diseases

**MENOMINEE RIVER**

*INIS: 2000-04-12; ETDE: 1980-12-08*

- \*BT1 rivers
- RT* hydroelectric power plants
- RT* michigan
- RT* wisconsin

**MENOPAUSE**

- RT* age dependence
- RT* estrous cycle
- RT* fertility
- RT* menstrual cycle
- RT* menstruation disorders

**menorrhagia**

- USE menstruation disorders

**MENSTRUAL CYCLE**

*INIS: 1984-10-23; ETDE: 1984-11-08*

- RT* estrous cycle
- RT* female genitals
- RT* fertility
- RT* menopause
- RT* menstruation disorders
- RT* ovulation
- RT* rhythmicity

**MENSTRUATION DISORDERS**

- UF* amenorrhea
- UF* menorrhagia
- \*BT1 urogenital system diseases
- RT* endocrine diseases
- RT* estrous cycle
- RT* female genitals
- RT* menopause
- RT* menstrual cycle
- RT* reproductive disorders

**MENTAL DISORDERS**

- UF* psychoses
- RT* behavior
- RT* brain
- RT* central nervous system agents
- RT* nervous system diseases
- RT* psychotropic drugs

**meperidine**

*INIS: 2000-04-12; ETDE: 1981-04-20*

- USE pethidine

**merc process**

*INIS: 2000-04-12; ETDE: 1978-07-05*

*Fixed bed, high temperature gasification process (using stirring) for caking coals. (Prior to March 1994, this was a valid ETDE descriptor.)*

- USE coal gasification

**mercamine**

- USE cysteamine

**mercaptans**

- USE thiols

**mercaptoalanine-beta**

- USE cysteine

**mercaptoaminoisovaleric acid**

- USE penicillamine

**mercaptoethylamine**

- USE cysteamine

**MERCAPTOETHYLGUANIDINE**

*ETDE: 2005-01-28*

(Prior to January 2005 MEG was used for this concept.)

*UF meg (mercaptoethylguanidine)*

- \*BT1 carbonic acid derivatives
- \*BT1 radioprotective substances
- \*BT1 thiols
- RT* guanidines

**MERCAPTOPROPYLAMINE**

- \*BT1 radioprotective substances

**MERCAPTOPURINE**

- \*BT1 antimetabolites
- \*BT1 purines
- \*BT1 thiols

**mercaptovaline**

- USE penicillamine

**MERCIER CRITERION**

*INIS: 1985-10-23; ETDE: 1985-11-19*

- RT* flute instability
- RT* grad-shafranov equation
- RT* magnetohydrodynamics
- RT* plasma instability
- RT* suydam criterion

**mercuric iodide detectors**

*INIS: 1975-12-09; ETDE: 2002-03-28*

- USE hgi2 semiconductor detectors

**MERCURY**

- \*BT1 metals

**MERCURY 175**

*1983-09-01*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 mercury isotopes
- \*BT1 milliseconds living radioisotopes

**MERCURY 176**

*1983-09-01*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 mercury isotopes
- \*BT1 milliseconds living radioisotopes

**MERCURY 177**

*INIS: 1976-05-07; ETDE: 1976-08-04*

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes



**MERCURY 204 TARGET***ETDE: 1976-07-09*

BT1 targets

**MERCURY 205**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 mercury isotopes
- \*BT1 minutes living radioisotopes

**MERCURY 206**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 mercury isotopes
- \*BT1 minutes living radioisotopes

**MERCURY 206 TARGET***1980-05-14*

BT1 targets

**MERCURY 207**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 mercury isotopes

**MERCURY 208**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 mercury isotopes

**MERCURY 209**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 mercury isotopes

**MERCURY 210**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 mercury isotopes

**MERCURY 211**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 mercury isotopes

**MERCURY 212**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 mercury isotopes

**MERCURY ADDITIONS***Alloys containing not more than 1% Hg are listed here.*

\*BT1 mercury alloys

**MERCURY ALLOYS***Alloys containing more than 1% Hg.**UF amalgams*

BT1 alloys

NT1 mercury additions

NT1 mercury base alloys

**MERCURY BASE ALLOYS**

\*BT1 mercury alloys

**MERCURY BROMIDES**

- \*BT1 bromides
- \*BT1 mercury halides

**MERCURY CHLORIDES**

- \*BT1 chlorides
- \*BT1 mercury halides

**MERCURY COMPLEXES**

BT1 complexes

**MERCURY COMPOUNDS***1997-06-17*

- NT1 mercury halides
- NT2 mercury bromides
- NT2 mercury chlorides
- NT2 mercury fluorides

NT2 mercury iodides

NT1 mercury hydrides

NT1 mercury nitrates

NT1 mercury oxides

NT1 mercury perchlorates

NT1 mercury selenides

NT1 mercury sulfates

NT1 mercury sulfides

NT1 mercury tellurides

*RT organic mercury compounds***MERCURY COOLED REACTORS**

\*BT1 liquid metal cooled reactors

NT1 clementine reactor

NT1 sbr-2 reactor

**MERCURY FLUORIDES**

\*BT1 fluorides

\*BT1 mercury halides

**MERCURY HALIDES***1988-11-16*

\*BT1 halides

BT1 mercury compounds

NT1 mercury bromides

NT1 mercury chlorides

NT1 mercury fluorides

NT1 mercury iodides

**MERCURY HYDRIDES***INIS: 1987-03-24; ETDE: 1987-11-24*

\*BT1 hydrides

BT1 mercury compounds

**MERCURY IODIDES**

\*BT1 iodides

\*BT1 mercury halides

**MERCURY IONS**

\*BT1 ions

**MERCURY ISOTOPES***1999-07-16*

BT1 isotopes

NT1 mercury 175

NT1 mercury 176

NT1 mercury 177

NT1 mercury 178

NT1 mercury 179

NT1 mercury 180

NT1 mercury 181

NT1 mercury 182

NT1 mercury 183

NT1 mercury 184

NT1 mercury 185

NT1 mercury 186

NT1 mercury 187

NT1 mercury 188

NT1 mercury 189

NT1 mercury 190

NT1 mercury 191

NT1 mercury 192

NT1 mercury 193

NT1 mercury 194

NT1 mercury 195

NT1 mercury 196

NT1 mercury 197

NT1 mercury 198

NT1 mercury 199

NT1 mercury 200

NT1 mercury 201

NT1 mercury 202

NT1 mercury 203

NT1 mercury 204

NT1 mercury 205

NT1 mercury 206

NT1 mercury 207

NT1 mercury 208

NT1 mercury 209

NT1 mercury 210

NT1 mercury 211

NT1 mercury 212

**MERCURY NITRATES**

BT1 mercury compounds

\*BT1 nitrates

**MERCURY OXIDES**

BT1 mercury compounds

\*BT1 oxides

**MERCURY PERCHLORATES***INIS: 2000-04-12; ETDE: 1978-03-03*

BT1 mercury compounds

\*BT1 perchlorates

**MERCURY PLANET**

BT1 planets

**MERCURY SELENIDES***1976-03-02*

BT1 mercury compounds

\*BT1 selenides

**MERCURY SULFATES**

BT1 mercury compounds

\*BT1 sulfates

**MERCURY SULFIDES**

BT1 mercury compounds

\*BT1 sulfides

*RT sulfide minerals***MERCURY TELLURIDES**

BT1 mercury compounds

\*BT1 tellurides

**MERISTEMS***UF cambium*

BT1 plant tissues

**merlin-juelich reactor**

USE frj-1 reactor

**MERLIN REACTOR***2000-04-12**UF aldermaston reactor merlin**UF ukaea-merlin reactor*

\*BT1 enriched uranium reactors

\*BT1 materials testing reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**MERONS***INIS: 1983-02-03; ETDE: 1978-10-23**Class of solutions of certain field equations; merons appear as particles with one-half unit of topological charge.*

BT1 quasi particles

*RT field equations**RT instantons**RT quark model**RT thirring model***MESENTERY***UF omentum*

\*BT1 serous membranes

*RT peritoneum**RT small intestine***MESH GENERATION***INIS: 1982-10-29; ETDE: 1979-12-10**Procedure of preparing coordinate grid for complex calculations, e.g. neutron transport calculations.**RT boundary element method**RT computer calculations**RT coordinates**RT finite difference method**RT finite element method**RT mathematics**RT nodal expansion method*

**MESIC ATOMS**

*UF mesoatoms*  
 \*BT1 hadronic atoms  
 NT1 kaonic atoms  
 NT1 pionic atoms  
 RT mesic molecules  
 RT mesons  
 RT muonic atoms  
 RT pi-k atoms  
 RT pi-mu atoms

**MESIC MOLECULES**

BT1 molecules  
 NT1 muonic molecules  
 RT mesic atoms  
 RT mesons

**MESITYL RADICALS**

\*BT1 aryl radicals

**MESITYLENE**

*UF 1,3,5-trimethylbenzene*  
*UF trimethylbenzene-sym*  
 \*BT1 alkylated aromatics  
 \*BT1 hydrocarbons

**mesoatoms**

USE mesic atoms

**mesocricetus**

USE hamsters

**MESODIALYTE**

2000-04-12

\*BT1 silicate minerals  
 RT niobium silicates  
 RT zirconium silicates

**MESON-BARYON INTERACTIONS**

\*BT1 hadron-hadron interactions  
 NT1 meson-hyperon interactions  
 NT2 kaon-hyperon interactions  
 NT2 pion-hyperon interactions  
 NT1 meson-nucleon interactions  
 NT2 kaon-nucleon interactions  
 NT3 kaon-neutron interactions  
 NT4 kaon minus-neutron interactions  
 NT4 kaon neutral-neutron interactions  
 NT4 kaon plus-neutron interactions  
 NT3 kaon-proton interactions  
 NT4 kaon minus-proton interactions  
 NT4 kaon neutral-proton interactions  
 NT4 kaon plus-proton interactions  
 NT2 pion-nucleon interactions  
 NT3 pion-neutron interactions  
 NT4 pion minus-neutron interactions  
 NT4 pion plus-neutron interactions  
 NT3 pion-proton interactions  
 NT4 pion minus-proton interactions  
 NT4 pion plus-proton interactions

**MESON BEAMS**

\*BT1 particle beams  
 NT1 eta meson beams  
 NT1 kaon beams  
 NT1 pion beams

**meson-deuteron interactions**

USE deuterium target  
 USE meson reactions

**meson exchange**

*INIS: 2000-04-12; ETDE: 1979-02-23*

USE boson-exchange models

**MESON FACTORIES**

BT1 accelerators  
 NT1 lampf ii synchrotron  
 NT1 lampf linac  
 NT1 pigmi facilities

**MESON-HYPERON INTERACTIONS**

\*BT1 meson-baryon interactions  
 NT1 kaon-hyperon interactions  
 NT1 pion-hyperon interactions

**MESON-MESON INTERACTIONS**

\*BT1 hadron-hadron interactions  
 NT1 kaon-kaon interactions  
 NT1 pion-kaon interactions  
 NT1 pion-pion interactions

**MESON NONETS**

\*BT1 particle multiplets  
 RT pseudoscalar mesons  
 RT tensor mesons  
 RT vector mesons

**MESON-NUCLEON INTERACTIONS**

\*BT1 meson-baryon interactions  
 NT1 kaon-nucleon interactions  
 NT2 kaon-neutron interactions  
 NT3 kaon minus-neutron interactions  
 NT3 kaon neutral-neutron interactions  
 NT3 kaon plus-neutron interactions  
 NT2 kaon-proton interactions  
 NT3 kaon minus-proton interactions  
 NT3 kaon neutral-proton interactions  
 NT3 kaon plus-proton interactions  
 NT1 pion-nucleon interactions  
 NT2 pion-neutron interactions  
 NT3 pion minus-neutron interactions  
 NT3 pion plus-neutron interactions  
 NT2 pion-proton interactions  
 NT3 pion minus-proton interactions  
 NT3 pion plus-proton interactions

**MESON OCTETS**

\*BT1 particle multiplets

**MESON REACTIONS**

*UF meson-deuteron interactions*  
 \*BT1 charged-particle reactions  
 \*BT1 hadron reactions  
 NT1 kaon reactions  
 NT2 kaon minus reactions  
 NT2 kaon neutral reactions  
 NT2 kaon plus reactions  
 NT1 pion reactions  
 NT2 pion minus reactions  
 NT2 pion plus reactions

**meson resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE mesons

**MESON SPECTROSCOPY**

BT1 spectroscopy  
 RT mesons

**MESONS**

*UF a resonances*  
*UF a2h-1320 resonances*  
*UF a2l-1280 resonances*  
*UF c-1430 resonances*  
*UF chi-2800 resonances*  
*UF chi-3455 resonances*  
*UF chi resonances*  
*UF delta resonances (meson)*  
*UF epsilon resonances*  
*UF eta-700 resonances*  
*UF f-1540 resonances*  
*UF kappa-725 resonances*  
*UF meson resonances*  
*UF omega-1778 resonances*  
*UF pi-1016 resonances*  
*UF psi-4300 resonances*  
*UF psi resonances*  
*UF r-1650 resonances*  
*UF rho-1500 resonances*

*UF rho-1700 resonances*

*UF s-1000 resonances*

*UF x-2830 resonances*

BT1 bosons

\*BT1 hadrons

NT1 antimesons

NT2 pseudoscalar antimesons

NT3 anti-b neutral mesons

NT3 anti-d neutral mesons

NT1 axial vector mesons

NT2 a1-1260 mesons

NT2 b1-1235 mesons

NT2 chi b1-9890 mesons

NT2 chi1-3510 mesons

NT2 d s-2536 mesons

NT2 d1-2420 mesons

NT2 f1-1285 mesons

NT2 f1-1420 mesons

NT2 f1-1510 mesons

NT2 h1-1170 mesons

NT2 k1-1270 mesons

NT2 k1-1400 mesons

NT1 baryonium

NT1 beauty mesons

NT2 b c mesons

NT2 b mesons

NT3 b minus mesons

NT3 b neutral mesons

NT4 anti-b neutral mesons

NT3 b plus mesons

NT2 b s mesons

NT2 b\*-5325 mesons

NT1 bottomonium

NT2 chi b0-10235 mesons

NT2 chi b0-9860 mesons

NT2 chi b1-10255 mesons

NT2 chi b1-9890 mesons

NT2 chi b2-10270 mesons

NT2 chi b2-9915 mesons

NT2 upsilon-10023 mesons

NT2 upsilon-10355 mesons

NT2 upsilon-10580 mesons

NT2 upsilon-10860 mesons

NT2 upsilon-11020 mesons

NT2 upsilon-9460 mesons

NT1 charmed mesons

NT2 b c mesons

NT2 d mesons

NT3 d minus mesons

NT3 d neutral mesons

NT4 anti-d neutral mesons

NT3 d plus mesons

NT2 d s-2536 mesons

NT2 d s mesons

NT2 d\*-2010 mesons

NT2 d\*2-2460 mesons

NT2 d\*s-2110 mesons

NT2 d1-2420 mesons

NT1 charmonium

NT2 chi0-3415 mesons

NT2 chi1-3510 mesons

NT2 chi2-3555 mesons

NT2 eta c-2980 mesons

NT2 eta c-3590 mesons

NT2 j psi-3097 mesons

NT2 psi-3685 mesons

NT2 psi-3770 mesons

NT2 psi-4040 mesons

NT2 psi-4160 mesons

NT2 psi-4415 mesons

NT1 pseudoscalar mesons

NT2 b c mesons

NT2 b mesons

NT3 b minus mesons

NT3 b neutral mesons

NT4 anti-b neutral mesons

NT3 b plus mesons

NT2 b s mesons

NT2 d mesons

**NT3** d minus mesons  
**NT3** d neutral mesons  
**NT4** anti-d neutral mesons  
**NT3** d plus mesons  
**NT2** d s mesons  
**NT2** eta-1295 mesons  
**NT2** eta-1440 mesons  
**NT2** eta c-2980 mesons  
**NT2** eta mesons  
**NT2** eta prime-958 mesons  
**NT2** k-1460 mesons  
**NT2** k-1830 mesons  
**NT2** kaons  
**NT3** antikaons  
**NT4** antikaons neutral  
**NT3** cosmic kaons  
**NT3** kaons minus  
**NT3** kaons neutral  
**NT4** antikaons neutral  
**NT4** kaons neutral long-lived  
**NT4** kaons neutral short-lived  
**NT3** kaons plus  
**NT2** pi-1300 mesons  
**NT2** pi-1770 mesons  
**NT2** pions  
**NT3** cosmic pions  
**NT3** pions minus  
**NT3** pions neutral  
**NT3** pions plus  
**NT2** pseudoscalar antimesons  
**NT3** anti-b neutral mesons  
**NT3** anti-d neutral mesons  
**NT1** scalar mesons  
**NT2** a0-980 mesons  
**NT2** chi0-3415 mesons  
**NT2** f0-1240 mesons  
**NT2** f0-1300 mesons  
**NT2** f0-1590 mesons  
**NT2** f0-1730 mesons  
**NT2** f0-980 mesons  
**NT2** k\*0-1430 mesons  
**NT1** strange mesons  
**NT2** b s mesons  
**NT2** d s-2536 mesons  
**NT2** d s mesons  
**NT2** d\*s-2110 mesons  
**NT2** k-1460 mesons  
**NT2** k-1830 mesons  
**NT2** k\*-1410 mesons  
**NT2** k\*-1680 mesons  
**NT2** k\*-892 mesons  
**NT2** k\*0-1430 mesons  
**NT2** k\*2-1430 mesons  
**NT2** k\*3-1780 mesons  
**NT2** k\*4-2045 mesons  
**NT2** k1-1270 mesons  
**NT2** k1-1400 mesons  
**NT2** k2-1770 mesons  
**NT2** k2-1820 mesons  
**NT2** kaons  
**NT3** antikaons  
**NT4** antikaons neutral  
**NT3** cosmic kaons  
**NT3** kaons minus  
**NT3** kaons neutral  
**NT4** antikaons neutral  
**NT4** kaons neutral long-lived  
**NT4** kaons neutral short-lived  
**NT3** kaons plus  
**NT1** strangeonium  
**NT2** f2 prime-1525 mesons  
**NT2** phi-1020 mesons  
**NT2** phi-1680 mesons  
**NT2** phi3-1850 mesons  
**NT1** tensor mesons  
**NT2** a2-1320 mesons  
**NT2** a4-2040 mesons  
**NT2** a6-2450 mesons  
**NT2** chi b2-9915 mesons

**NT2** chi2-3555 mesons  
**NT2** d\*2-2460 mesons  
**NT2** f2-1270 mesons  
**NT2** f2-1430 mesons  
**NT2** f2-1720 mesons  
**NT2** f2-1810 mesons  
**NT2** f2-2010 mesons  
**NT2** f2-2300 mesons  
**NT2** f2-2340 mesons  
**NT2** f2 prime-1525 mesons  
**NT2** f4-2050 mesons  
**NT2** f4-2300 mesons  
**NT2** f6-2510 mesons  
**NT2** k\*2-1430 mesons  
**NT2** k\*3-1780 mesons  
**NT2** k\*4-2045 mesons  
**NT2** k2-1770 mesons  
**NT2** k2-1820 mesons  
**NT2** omega3-1670 mesons  
**NT2** phi3-1850 mesons  
**NT2** pi2-1670 mesons  
**NT2** pi2-2100 mesons  
**NT2** rho3-1690 mesons  
**NT2** rho3-2250 mesons  
**NT2** rho5-2350 mesons  
**NT1** toponium  
**NT1** vector mesons  
**NT2** b\*-5325 mesons  
**NT2** d\*-2010 mesons  
**NT2** j psi-3097 mesons  
**NT2** k\*-1410 mesons  
**NT2** k\*-1680 mesons  
**NT2** k\*-892 mesons  
**NT2** omega-1420 mesons  
**NT2** omega-1600 mesons  
**NT2** omega-782 mesons  
**NT2** phi-1020 mesons  
**NT2** phi-1680 mesons  
**NT2** psi-3685 mesons  
**NT2** psi-3770 mesons  
**NT2** psi-4040 mesons  
**NT2** psi-4160 mesons  
**NT2** psi-4415 mesons  
**NT2** rho-1450 mesons  
**NT2** rho-1700 mesons  
**NT2** rho-2150 mesons  
**NT2** rho-770 mesons  
**NT2** upsilon-10023 mesons  
**NT2** upsilon-10355 mesons  
**NT2** upsilon-10580 mesons  
**NT2** upsilon-10860 mesons  
**NT2** upsilon-11020 mesons  
**NT2** upsilon-9460 mesons  
**NT1** x-1700 mesons  
**NT1** x-1935 mesons  
**NT1** x-2220 mesons  
**NT1** x-3075 mesons  
**RT** mesic atoms  
**RT** mesic molecules  
**RT** meson spectroscopy

### MESOPHILIC CONDITIONS

*INIS: 1992-03-10; ETDE: 1977-05-09*  
*Temperature range centered at 40 degrees C favoring the growth of certain bacteria.*  
**RT** anaerobic digestion  
**RT** fermentation  
**RT** thermophilic conditions

### MESOSPHERE

**BT1** earth atmosphere

### MESOZOIC ERA

*INIS: 1992-04-14; ETDE: 1977-10-19*  
**BT1** geologic ages  
**NT1** cretaceous period  
**NT1** jurassic period  
**NT1** triassic period

### MESQUITE

*INIS: 2000-04-12; ETDE: 1981-05-18*  
**\*BT1** leguminosae  
**\*BT1** trees

### MESSENGER-RNA

*1995-06-09*  
**\*BT1** rna  
**RT** dna hybridization  
**RT** exons  
**RT** post-translation modification  
**RT** rna polymerases  
**RT** rna processing  
**RT** transcription

### METABOLIC ACTIVATION

*INIS: 1992-04-09; ETDE: 1980-01-15*  
**BT1** metabolism  
**RT** biological pathways  
**RT** chemical activation  
**RT** enzyme activity  
**RT** stimulation

### METABOLIC DISEASES

*1996-06-28*  
**UF** glycosuria  
**UF** obesity  
**BT1** diseases  
**NT1** diabetes mellitus  
**NT1** rickets  
**RT** biochemical reaction kinetics  
**RT** endocrine diseases  
**RT** gastrointestinal tract  
**RT** liver  
**RT** metabolism

### metabolic pathways

*INIS: 1978-11-24; ETDE: 1978-12-20*  
**USE** biological pathways

### METABOLISM

**NT1** anabolism  
**NT1** basal metabolism  
**NT1** catabolism  
**NT1** glycolysis  
**NT1** metabolic activation  
**RT** biochemical reaction kinetics  
**RT** biochemistry  
**RT** biological functions  
**RT** biological markers  
**RT** biosynthesis  
**RT** carbon cycle  
**RT** carbon dioxide fixation  
**RT** coenzymes  
**RT** diabetes mellitus  
**RT** dna adducts  
**RT** enzyme activity  
**RT** enzymes  
**RT** fasting  
**RT** glucagon  
**RT** growth  
**RT** hypothalamus  
**RT** insulin  
**RT** krebs cycle  
**RT** labelled pool techniques  
**RT** liver  
**RT** metabolic diseases  
**RT** metabolites  
**RT** molecular biology  
**RT** nitrogen cycle  
**RT** nitrogen fixation  
**RT** phosphoenolpyruvate  
**RT** physiology  
**RT** precursor  
**RT** radionuclide kinetics  
**RT** renal clearance  
**RT** respiration  
**RT** sulfur cycle  
**RT** thermoregulation  
**RT** thyroid hormones



RT vitamins

## METABOLITES

INIS: 1996-10-23; ETDE: 1977-09-19

Products of intermediate metabolism.

NT1 glucuronide conjugates

NT1 glutathione conjugates

RT antimetabolites

RT carboxylic acids

RT krebs cycle

RT metabolism

## metacercariae

USE larvae

## metagalaxy

USE universe

## metaiodobenzylguanidine

INIS: 1995-01-10; ETDE: 1987-04-24

USE mibg

## metal buildings

INIS: 2000-04-12; ETDE: 1982-01-07

USE prefabricated buildings

## metal castings

2000-04-12

USE castings

## METAL-GAS BATTERIES

1997-06-17

\*BT1 electric batteries

NT1 aluminium-air batteries

NT1 cadmium-air batteries

NT1 iron-air batteries

NT1 lithium-chlorine batteries

NT1 lithium-water-air batteries

NT1 nickel-hydrogen batteries

NT1 silver-hydrogen batteries

NT1 zinc-air batteries

NT1 zinc-chlorine batteries

RT fuel cells

## METAL INDUSTRY

1992-03-10

UF steel industry

BT1 industry

RT beverage industry

RT ceramics industry

RT foundries

RT metals

RT mineral industry

RT scrap metals

RT smelters

## metal-insulator-semiconductor solar cells

INIS: 2000-04-12; ETDE: 1981-07-18

USE mis solar cells

## metal-insulator solar cells

INIS: 2000-04-12; ETDE: 1981-07-18

USE mi solar cells

## METAL-METAL BATTERIES

2000-04-12

\*BT1 electric batteries

## METAL-METAL OXIDE BATTERIES

1992-10-02

\*BT1 electric batteries

NT1 iron-nickel batteries

NT1 nickel-cadmium batteries

NT1 nickel-zinc batteries

NT1 silver-cadmium batteries

NT1 silver-zinc batteries

NT1 zinc-manganese batteries

## METAL MODERATED REACTORS

BT1 reactors

NT1 beryllium moderated reactors

NT2 agata reactor

NT2 br-02 reactor

NT2 ebor reactor

NT2 ewg-1 reactor

NT2 maria reactor

NT2 nuclear furnace reactor

## METAL-NONMETAL BATTERIES

1996-06-19

\*BT1 electric batteries

NT1 lithium-copper chloride batteries

NT1 lithium-sulfur batteries

NT1 sodium-sulfur batteries

NT1 zinc-bromine batteries

## metal oxide-semiconductor solar cells

INIS: 1992-05-29; ETDE: 1981-07-18

USE mos solar cells

## metal-semiconductor solar cells

INIS: 1992-05-29; ETDE: 1981-07-18

USE ms solar cells

## metal spraying

USE spray coating

## METAL TRANSFER PROCESS

BT1 separation processes

RT molten salt reactors

## METAL VAPOR LASERS

INIS: 1992-08-18; ETDE: 1981-08-21

(Until August 1992, this concept was indexed by GAS LASERS.)

UF copper vapor lasers

\*BT1 gas lasers

## metal-water reactions

INIS: 1977-09-06; ETDE: 1977-04-12

USE molten metal-water reactions

## METALLIC GLASSES

INIS: 1984-01-18; ETDE: 1983-01-21

Amorphous alloys produced by extremely rapid quenching of molten material.

UF glassy alloys

UF glassy metals

UF metglass

RT alloys

RT amorphous state

RT glass

RT vitrification

## METALLOGRAPHY

Limited to the branch of metallurgy concerned with the preparation and examination of the surface of metals.

RT etching

RT fractography

RT materials testing

RT microscopy

RT microstructure

RT photomicrography

RT polishing

RT surface finishing

## metalloids

USE semimetals

## METALLOPROTEINS

INIS: 1993-08-26; ETDE: 1981-04-17

\*BT1 proteins

NT1 ceruloplasmin

NT1 ferredoxin

NT1 ferritin

NT1 hemocyanin

NT1 hemosiderin

NT1 lactoferrin

NT1 metallothionein

NT1 rubredoxin

NT1 transferrin

RT complexes

RT metals

## METALLOTHIONEIN

INIS: 1984-12-04; ETDE: 1980-11-25

Low molecular weight metal-binding proteins controlling heavy metal detoxification.

\*BT1 metallothioneins

RT metals

## METALLURGICAL EFFECTS

1994-07-01

The effects of an alloying element on the physical, mechanical or chemical properties of an alloy.

UF alloying effects

RT metallurgy

## METALLURGICAL FLUX

(From January 1975 till March 1997

WELDING FLUXES was a valid ETDE descriptor.)

UF flux (metallurgy)

UF solder fluxes

UF soldering fluxes

UF welding fluxes

RT melting

RT welding

## METALLURGY

Use of a more specific descriptor is recommended; see also FABRICATION.

NT1 electrometallurgy

NT1 extractive metallurgy

NT2 hydrometallurgy

NT2 pyrometallurgy

NT3 chloride volatility process

NT3 fluoride volatility process

NT1 physical metallurgy

NT1 powder metallurgy

RT metallurgical effects

RT zone refining

## METALS

BT1 elements

NT1 actinides

NT2 actinium

NT2 americium

NT2 berkelium

NT2 californium

NT2 curium

NT2 einsteinium

NT2 fermium

NT2 lawrencium

NT2 mendelevium

NT2 neptunium

NT3 neptunium-alpha

NT3 neptunium-gamma

NT2 nobelium

NT2 plutonium

NT3 plutonium-alpha

NT3 plutonium-beta

NT3 plutonium-delta

NT3 plutonium-epsilon

NT3 plutonium-gamma

NT2 protactinium

NT2 thorium

NT3 thorium-alpha

NT3 thorium-beta

NT2 uranium

NT3 depleted uranium

NT3 enriched uranium

NT4 highly enriched uranium

NT4 moderately enriched uranium

NT4 slightly enriched uranium

NT3 natural uranium

NT3 uranium-alpha

NT3 uranium-beta

NT3 uranium-gamma

NT1 alkali metals

NT2 cesium

NT2 francium

NT2 lithium  
 NT2 potassium  
 NT2 rubidium  
 NT2 sodium  
 NT1 alkaline earth metals  
 NT2 barium  
 NT2 beryllium  
 NT2 calcium  
 NT2 magnesium  
 NT2 radium  
 NT2 strontium  
 NT1 aluminium  
 NT1 antimony  
 NT1 bismuth  
 NT1 cadmium  
 NT1 gallium  
 NT1 germanium  
 NT1 heavy metals  
 NT1 indium  
 NT1 lead  
 NT1 liquid metals  
 NT1 mercury  
 NT1 polonium  
 NT1 rare earths  
 NT2 cerium  
   NT3 cerium-alpha  
   NT3 cerium-beta  
   NT3 cerium-gamma  
 NT2 dysprosium  
 NT2 erbium  
 NT2 europium  
 NT2 gadolinium  
 NT2 holmium  
 NT2 lanthanum  
 NT2 lutetium  
 NT2 neodymium  
 NT2 praseodymium  
 NT2 promethium  
 NT2 samarium  
 NT2 terbium  
 NT2 thulium  
 NT2 ytterbium  
 NT1 refractory metals  
 NT2 hafnium  
   NT3 hafnium-alpha  
   NT3 hafnium-beta  
 NT2 iridium  
 NT2 molybdenum  
 NT2 niobium  
   NT3 niobium-alpha  
   NT3 niobium-beta  
 NT2 osmium  
 NT2 rhenium  
 NT2 rhodium  
 NT2 ruthenium  
 NT2 tantalum  
 NT2 technetium  
 NT2 tungsten  
   NT3 tungsten-alpha  
 NT1 scrap metals  
 NT1 thallium  
 NT1 tin  
 NT1 transition elements  
 NT2 chromium  
 NT2 cobalt  
 NT2 copper  
 NT2 gold  
 NT2 hafnium  
   NT3 hafnium-alpha  
   NT3 hafnium-beta  
 NT2 iron  
   NT3 iron-alpha  
   NT3 iron-delta  
   NT3 iron-gamma  
 NT2 manganese  
   NT3 manganese-alpha  
 NT2 molybdenum  
 NT2 nickel  
 NT2 niobium

NT3 niobium-alpha  
 NT3 niobium-beta  
 NT2 platinum metals  
   NT3 iridium  
   NT3 osmium  
   NT3 palladium  
   NT3 platinum  
   NT3 rhodium  
   NT3 ruthenium  
 NT2 rhenium  
 NT2 scandium  
 NT2 silver  
 NT2 tantalum  
 NT2 technetium  
 NT2 titanium  
   NT3 titanium-alpha  
   NT3 titanium-beta  
 NT2 tungsten  
   NT3 tungsten-alpha  
 NT2 vanadium  
 NT2 yttrium  
 NT2 zirconium  
   NT3 zirconium-alpha  
   NT3 zirconium-beta  
   NT3 zirconium-omega  
 NT1 zinc  
 RT alloys  
 RT azbel-kaner resonance  
 RT carbonyls  
 RT grueneisen formula  
 RT metal industry  
 RT metalloproteins  
 RT metallothionein  
 RT semimetals  
 RT work functions

#### METAMICT STATE

*INIS: 1985-06-10; ETDE: 1982-02-23*  
*State of a radioactive mineral, exhibiting lattice disruption due to radiation damage while the original external morphology is retained.*  
 RT crystal structure  
 RT minerals  
 RT physical radiation effects

#### METAMORPHIC ROCKS

UF *crystalline rocks*  
 UF *hornfelses*  
 BT1 rocks  
 NT1 amphibolites  
 NT1 gneisses  
 NT1 granulites  
 NT1 marble  
 NT1 quartzites  
 NT1 schists  
 NT1 serpentinites  
 RT basement rock

#### METAMORPHISM

*The mineralogical and structural adjustment of solid rocks to physical and chemical conditions which have been imposed at depth below the surface zones of weathering and cementation, which differ from the conditions under which the rocks in question originated.*  
 NT1 hydrothermal alteration  
 RT geology  
 RT hydrothermal stage  
 RT tectonics

#### METAMORPHOSIS

RT adults  
 RT animal growth  
 RT larvae  
 RT ontogenesis  
 RT pupae

#### metaphase

USE mitosis

#### METASTABLE STATES

*For atomic and molecular states only; for nuclear states use ISOMERIC NUCLEI.*  
 \*BT1 excited states

#### METASTASES

RT neoplasms

#### meteoric water

2000-04-12  
*Water of recent atmospheric origin.*  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE ground water

#### METEORITES

NT1 iron meteorites  
 NT1 stone meteorites  
   NT2 achondrites  
   NT2 chondrites  
 RT meteoroids  
 RT tektites

#### METEOROIDS

UF *meteors*  
 RT meteorites  
 RT solar system

#### METEOROLOGY

RT acoustic radar  
 RT atmospheric circulation  
 RT atmospheric precipitations  
 RT buoys  
 RT climate models  
 RT climates  
 RT cloud cover  
 RT clouds  
 RT condensation nuclei  
 RT earth atmosphere  
 RT general circulation models  
 RT seasons  
 RT site characterization  
 RT site selection  
 RT storms  
 RT temperature inversions  
 RT weather  
 RT wind  
 RT wmo

#### meteors

USE meteoroids

#### meter wave radiation

USE mhz range  
 USE radiowave radiation

#### METERING

*INIS: 2000-02-01; ETDE: 1980-10-27*  
 NT1 master metering  
 RT measuring methods  
 RT power meters

#### METERS

*INIS: 2000-02-01; ETDE: 1980-11-08*  
 BT1 measuring instruments  
 NT1 activity meters  
 NT1 carbon meters  
 NT1 flowmeters  
   NT2 plasma eaters  
 NT1 gas meters  
 NT1 heat meters  
 NT1 hydrogen meters  
 NT1 oxygen meters  
 NT1 power meters  
 NT1 reactivity meters  
 NT1 sulfur meters  
 NT1 tritium meters

#### metglass

*INIS: 1984-01-18; ETDE: 2002-03-28*  
 USE metallic glasses

**METHACRYLATES**

- BT1 carboxylic acid salts  
RT vinyl monomers

**METHACRYLIC ACID**

- UF methacrylic acid-*alpha*  
\*BT1 monocarboxylic acids  
RT polyacrylates  
RT vinyl monomers

**methacrylic acid-*alpha***

- USE methacrylic acid

**METHACRYLIC ACID ESTERS**

(From May 1975 till March 1997 METHYL METHACRYLATE was a valid ETDE descriptor.)

- UF methyl methacrylate  
\*BT1 carboxylic acid esters  
RT pmma  
RT vinyl monomers

**METHADONE HYDROCHLORIDE**

- INIS: 1984-05-24; ETDE: 1976-12-15  
\*BT1 narcotics

**METHANATION**

2000-04-12

Preparation of methane from carbon monoxide and hydrogen.

- BT1 chemical reactions  
RT beacon process  
RT reduction  
RT shift processes  
RT synthesis gas

**METHANE**

- UF biogas  
UF coalbed methane  
UF digester gas  
UF firedamp  
UF gobar gas  
\*BT1 alkanes  
RT biotherm gas process  
RT bromoform  
RT carbon tetrachloride  
RT carbon tetrafluoride  
RT chloroform  
RT cryogenic fluids  
RT ethyl methanesulfonate  
RT fluoroform  
RT greenhouse gases  
RT iodoform  
RT landfill gas  
RT methanotrophic bacteria  
RT methyl bromide  
RT methyl chloride  
RT methyl fluoride  
RT methyl iodide  
RT methylene chloride  
RT nitromethane

**methane hydrate deposits**

- INIS: 2000-04-12; ETDE: 1983-01-21  
USE natural gas hydrate deposits

**methane hydrates**

- INIS: 1993-01-28; ETDE: 1983-01-21  
USE gas hydrates

**methane rich gas process**

- INIS: 2000-04-12; ETDE: 1976-01-26  
USE sng processes

**METHANOGENIC BACTERIA**

- INIS: 1981-05-11; ETDE: 1978-03-03  
Bacteria which ferment various organic materials with the production of methane.  
\*BT1 bacteria  
NT1 clostridium acetobutylicum

**METHANOL**

- UF carbinol  
UF methyl alcohol  
UF methyl-fuel  
UF wood alcohol  
\*BT1 alcohols  
RT liquid phase methanol process  
RT methanol fuels

**METHANOL FUELS**

- INIS: 1992-04-13; ETDE: 1979-09-06  
Pure methanol, methanol-water mixtures, or methanol with additives; for methanol-gasoline mixtures, use GASOHOL.  
\*BT1 alcohol fuels  
RT automotive fuels  
RT gasohol  
RT methanol

**METHANOL PLANTS**

- INIS: 2000-04-12; ETDE: 1979-02-23  
BT1 industrial plants  
RT biomass conversion plants  
RT chemical plants  
RT coal gasification  
RT gasoline plants

**METHANOTROPHIC BACTERIA**

- INIS: 1992-07-21; ETDE: 1983-05-21  
Gram-negative bacteria that secure growth energy by the oxidation of methane.  
\*BT1 bacteria  
RT cell cultures  
RT methane

**METHEMOGLOBIN**

- \*BT1 hemoglobin  
RT erythrocytes  
RT heme  
RT respiration

**methenamine**

- INIS: 1984-05-24; ETDE: 1981-04-20  
(Prior to April 1994, this was a valid ETDE descriptor.)  
USE antimicrobial agents

**METHIONINE**

- UF methylmercaptoaminobutyric acid  
UF methylthioaminobutyric acid  
\*BT1 amino acids  
\*BT1 lipotropic factors  
\*BT1 organic sulfur compounds  
RT methyl transferases

**METHOTREXATE**

- UF amethopterin  
\*BT1 antimetabolites

**METHOXY RADICALS**

- \*BT1 alkoxy radicals

**methoxybenzene**

- USE anisole

**METHYL ACETATE**

- INIS: 2000-04-12; ETDE: 1983-09-15  
\*BT1 acetic acid esters

**methyl alcohol**

- USE methanol

**METHYL BROMIDE**

- INIS: 1999-04-14; ETDE: 1976-11-01  
\*BT1 brominated aliphatic hydrocarbons  
RT fumigants  
RT methane

**METHYL CHLORIDE**

- INIS: 1978-07-31; ETDE: 1978-09-11  
UF chloromethane  
\*BT1 chlorinated aliphatic hydrocarbons  
RT methane

**METHYL ETHER**

- 1976-07-30  
UF dimethyl ether  
\*BT1 ethers  
RT organic solvents

**methyl ethyl diketone**

- USE 2-3-pentanedione

**METHYL FLUORIDE**

- INIS: 1978-07-31; ETDE: 1978-09-11  
\*BT1 fluorinated aliphatic hydrocarbons  
RT methane

**methyl-fuel**

- INIS: 2000-04-12; ETDE: 1976-05-13  
Trademark name for proprietary blend of methanol and controlled amounts of C2 and C4 alcohols.  
USE alcohols  
USE methanol

**methyl glycocoll**

- USE sarcosine

**METHYL IODIDE**

- \*BT1 iodinated aliphatic hydrocarbons  
RT iodox process  
RT methane

**METHYL ISOBUTYL KETONE**

- UF mibk  
\*BT1 ketones

**methyl methacrylate**

- See also PMMA.  
(Prior to March 1997 this was a valid ETDE descriptor.)  
USE methacrylic acid esters

**METHYL METHANESULFONATE**

- INIS: 1985-07-22; ETDE: 1976-05-17  
(Prior to August 1985 MMS was used.)  
UF mms  
BT1 mutagens  
\*BT1 sulfonic acid esters

**methyl nitrate**

- INIS: 2000-04-12; ETDE: 1980-11-25  
USE nitric acid esters

**METHYL NITROSOUREA**

- INIS: 2000-04-12; ETDE: 1980-07-23  
UF mmu  
\*BT1 carbonic acid derivatives  
BT1 mutagens  
\*BT1 nitroso compounds

**METHYL ORANGE**

- \*BT1 amines  
\*BT1 azo dyes  
BT1 indicators  
\*BT1 sulfonic acids

**methyl phenols**

- USE cresols

**methyl phenyl ether**

- USE anisole

**methyl phenyl ketone**

- USE acetophenone

**methyl pyridines**

- USE picolines

**METHYL RADICALS**

- \*BT1 alkyl radicals

**METHYL RED**

- \*BT1 amino acids  
\*BT1 azo dyes  
BT1 indicators

**METHYL TRANSFERASES**

INIS: 1985-12-11; ETDE: 1984-06-29

A group of enzymes which mediate one carbon metabolism.

- \*BT1 carbon-group transferases
- RT dna methylases
- RT dna repair
- RT methionine
- RT methylation

**METHYL TYROSINE**

INIS: 1981-08-06; ETDE: 1981-09-22

UF methyltyrosine

- \*BT1 amino acids
- \*BT1 aromatics
- \*BT1 hydroxy acids
- RT melanin
- RT radiopharmaceuticals
- RT tyrosine

**METHYL VIOLET**

UF crystal violet

- \*BT1 amines
- \*BT1 triphenylmethane dyes

**methyl viologen**

INIS: 2000-04-12; ETDE: 1980-12-08

USE bipyridines

**methylacetylene**

USE propyne

**METHYLAL**

UF dimethoxymethane

UF formal (methylal)

UF formaldehydedimethylacetal

- \*BT1 ethers
- RT formaldehyde

**METHYLAMINE**

INIS: 1975-09-16; ETDE: 1975-10-28

\*BT1 amines

**methylaminoacetic acid**

USE sarcosine

**METHYLATION**

- BT1 chemical reactions
- RT methyl transferases

**methylbenzene**

USE toluene

**methylbutane (2-)**

INIS: 1983-09-06; ETDE: 2002-03-28

USE 2-methylbutane

**METHYLENE BLUE**

- \*BT1 amines
- \*BT1 antimicrobial agents
- \*BT1 chlorides
- \*BT1 phenothiazines

**METHYLENE CHLORIDE**

1982-02-09

UF dichloromethane

- \*BT1 organic chlorine compounds
- RT methane

**METHYLENE RADICALS**

UF methylidene radicals

BT1 radicals

**methylidene radicals**

USE methylene radicals

**methylmercaptoaminobutyric acid**

USE methionine

**METHYLMERCURY**

INIS: 1999-03-03; ETDE: 1976-03-11

\*BT1 organic mercury compounds

**METHYLNAPHTHALENES**

INIS: 2000-04-12; ETDE: 1986-02-21

- \*BT1 alkylated aromatics
- \*BT1 condensed aromatics

**methylpropane (2-)**

ETDE: 2002-03-28

USE 2-methylpropane

**methylpropanol (2-)**

ETDE: 2002-03-28

USE 2-methylpropanol

**methylpropene (2-)**

ETDE: 2002-03-28

USE 2-methylpropene

**methyltetrahydrofuran**

1984-06-21

USE mthf

**methylthioaminobutyric acid**

USE methionine

**METHYLTHYMOL BLUE**

BT1 indicators

\*BT1 triphenylmethane dyes

**methyltyrosine**

INIS: 1984-04-04; ETDE: 2002-06-13

USE methyl tyrosine

**METRIC SYSTEM**

INIS: 2000-04-12; ETDE: 1975-12-16

RT si units

**METRICS**

- NT1 kerr metric
- NT1 schwarzschild metric
- RT curvilinear coordinates
- RT fractals
- RT gravitational fields
- RT mathematical space
- RT mathematics
- RT matrices
- RT measure theory
- RT relativity theory
- RT space-time
- RT tensors

**METRIZAMIDE**

INIS: 1981-08-06; ETDE: 1981-09-22

UF amipaque

- \*BT1 amides
- BT1 contrast media

**METRONIDAZOLE**

UF flagyl

- \*BT1 alcohols
- \*BT1 antineoplastic drugs
- \*BT1 imidazoles
- \*BT1 nitro compounds
- \*BT1 radiosensitizers

**metropolitan areas**

USE urban areas

**MEV RANGE**

From 10 exp 6 to 10 exp 9 ev.

- BT1 energy range
- NT1 mev range 01-10
- NT1 mev range 10-100
- NT1 mev range 100-1000

**MEV RANGE 01-10**

\*BT1 mev range

**MEV RANGE 10-100**

\*BT1 mev range

**MEV RANGE 100-1000**

\*BT1 mev range

**MEVALONIC ACID**

\*BT1 hydroxy acids

**MEXAMINE**

\*BT1 ethers

\*BT1 radioprotective substances

**MEXICAN ORGANIZATIONS**

INIS: 1975-12-09; ETDE: 1976-01-26

BT1 national organizations

**mexican triga-mark-3 reactor**

2000-04-12

USE triga-3-salazar reactor

**mexican triga-mk-3 reactor**

INIS: 1984-06-21; ETDE: 2002-03-28

USE triga-3-salazar reactor

**MEXICO**

1997-06-19

- BT1 developing countries
- BT1 latin america
- BT1 north america
- RT cerro prieto geothermal field
- RT oecd
- RT pathe geothermal field
- RT rio grande river

**MEYERS PROCESS**

2000-04-12

Process for removal of pyritic sulfur from coal by ferric sulfate leaching.

\*BT1 desulfurization

**MFTF DEVICES**

INIS: 1978-04-21; ETDE: 1977-10-20

Mirror Fusion Test Facility.

UF mirror fusion test facility

UF mx devices

\*BT1 magnetic mirrors

**mfx device**

2000-04-12

Mirror fusion experiment.

USE magnetic mirrors

**MH-1A REACTOR**

USA Army Corps of Engineers, Gatun Lake, Panama Canal Zone.

UF floating nuclear power plant-sturgis

UF sturgis-floating nuclear power plant

- \*BT1 experimental reactors
- \*BT1 mobile reactors
- \*BT1 pwr type reactors

**MHD CHANNELS**

UF magnetohydrodynamic channels

RT diffusers

RT mhd generators

RT mhd power plants

RT plasma seeding

**MHD EQUILIBRIUM**

INIS: 1984-05-28; ETDE: 1984-06-14

- BT1 equilibrium
- RT magnetohydrodynamics
- RT plasma instability

**MHD GENERATOR AEDC**

INIS: 2000-04-12; ETDE: 1980-02-11

MHD test facility at Arnold Engineering Development Center which simulates coal-fired MHD.

UF high performance demonstration experiment

UF hpde

UF mhd high performance demonstration experiment

\*BT1 mhd generators

**MHD GENERATOR AERL MARK VI**

INIS: 2000-04-12; ETDE: 1979-05-02  
Oil-fired MHD test facility at AVCO Everett  
Research Laboratory, Massachusetts, USA.

\*BT1 mhd generators  
RT mhd generator aerl mark vii

**MHD GENERATOR AERL MARK VII**

INIS: 2000-04-12; ETDE: 1985-05-07

\*BT1 mhd generators  
RT mhd generator aerl mark vi

**MHD GENERATOR CDIF**

INIS: 1993-06-08; ETDE: 1979-05-02  
Coal-Fired Component Development and  
Integration Facility, Butte, Montana, USA.

\*BT1 coal-fired mhd generators

**MHD GENERATOR CFFF**

INIS: 1993-05-04; ETDE: 1979-05-09  
Coal Fired Flow Facility for MHD component  
testing, Tullahoma, Tennessee.

UF cfff  
\*BT1 coal-fired mhd generators

**MHD GENERATOR ETF**

INIS: 2000-04-12; ETDE: 1979-05-02  
Engineering test facility. DOE coal-fired  
combined-cycle MHD/steam demonstration  
plant.

\*BT1 coal-fired mhd generators  
\*BT1 combined-cycle power plants  
\*BT1 mhd power plants

**mhd generator etl mark v**

INIS: 2000-04-12; ETDE: 1979-05-02  
Gas- or oil-fired MHD test facility at the  
Electrotechnical Laboratory, Japan.

(Prior to January 1995, this was a valid  
descriptor.)

USE mhd generators

**MHD GENERATOR U-02**

INIS: 2000-04-12; ETDE: 1979-05-02  
Natural-gas fired MHD test facility in the  
Russian Federation.

\*BT1 mhd generators

**MHD GENERATOR U-25**

INIS: 2000-04-12; ETDE: 1979-05-02  
Natural-gas fired MHD pilot plant in the  
Russian Federation.

\*BT1 mhd generators

**MHD GENERATOR UTSI**

INIS: 2000-04-12; ETDE: 1979-05-02  
Coal-fired MHD generator at University of  
Tennessee Space Institute, USA.

\*BT1 coal-fired mhd generators

**MHD GENERATORS**

UF faraday generators  
UF hall generators  
UF magnetohydrodynamic generators  
UF mhd generator etl mark v

BT1 direct energy converters  
NT1 closed-cycle mhd generators  
NT2 liquid-metal mhd generators  
NT1 coal-fired mhd generators  
NT2 mhd generator cdif  
NT2 mhd generator cfff  
NT2 mhd generator etf  
NT2 mhd generator utsi

NT1 disk mhd generators  
NT1 mhd generator aede  
NT1 mhd generator aerl mark vi  
NT1 mhd generator aerl mark vii  
NT1 mhd generator u-02  
NT1 mhd generator u-25  
NT1 open-cycle mhd generators  
NT1 pulsed mhd generators  
RT end effects

RT magnetohydrodynamics  
RT mhd channels  
RT mhd power plants  
RT plasma seeding  
RT seed recovery  
RT seed-slag interactions  
RT vapor jet ejectors  
RT vapor separators

**mhd high performance demonstration experiment**

INIS: 2000-04-12; ETDE: 1980-02-11  
USE mhd generator aede

**mhd instabilities (plasma)**

INIS: 1989-04-20; ETDE: 2002-03-28  
USE plasma macroinstabilities

**MHD POWER PLANTS**

1992-03-30

BT1 power plants  
NT1 mhd generator etf  
RT fossil-fuel power plants  
RT magnetohydrodynamics  
RT mhd channels  
RT mhd generators

**MHZ RANGE**

UF meter wave radiation  
UF very high frequency  
UF very high frequency radiation  
UF vhf  
UF vhf radiation  
BT1 frequency range  
NT1 mhz range 01-100  
NT1 mhz range 100-1000  
RT radioastronomy

**MHZ RANGE 01-100**

\*BT1 mhz range

**MHZ RANGE 100-1000**

UF decimeter wave radiation (3-10dm)  
UF uhf radiation (100-1000 mhz)  
UF uhf radiation (lower range)  
UF ultrahigh frequency radiation (100-  
1000 mhz)  
UF ultrahigh frequency radiation (lower  
range)

\*BT1 mhz range

**MI SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-07-18

UF metal-insulator solar cells  
\*BT1 solar cells

**MIBG**

INIS: 1995-01-11; ETDE: 1987-04-24

UF metaiodobenzylguanidine  
\*BT1 aromatics  
\*BT1 guanidines  
\*BT1 organic iodine compounds  
RT radiopharmaceuticals

**mibk**

USE methyl isobutyl ketone

**MICA**

UF paragonite  
\*BT1 silicate minerals  
NT1 biotite  
NT1 muscovite  
NT1 vermiculite  
RT dielectric materials  
RT dielectric track detectors  
RT kimberlites  
RT pegmatites

**MICE**

\*BT1 rodents  
NT1 transgenic mice

**micellar-polymer flooding**

INIS: 1992-01-16; ETDE: 1976-06-07  
USE microemulsion flooding

**MICELLAR SYSTEMS**

INIS: 1994-07-01; ETDE: 1975-08-19  
Submicroscopic aggregates of molecules.  
RT colloids  
RT microemulsions  
RT molecules  
RT particles

**MICHELSON INTERFEROMETER**

INIS: 1977-03-01; ETDE: 1977-04-12  
\*BT1 interferometers

**MICHIGAN**

1997-06-19

\*BT1 usa  
RT au sable river  
RT detroit river  
RT grand river  
RT menominee river  
RT saginaw river  
RT saint clair river

**michigan state triga-mk-1 reactor**

1976-02-11

(Prior to November 1990 this was a valid  
ETDE descriptor.)

USE triga-1-michigan reactor

**michigan state university cyclotrons**

1993-11-09

USE msu cyclotrons

**MICRO AMP BEAM CURRENTS**

From 10 exp -6 to .001 amp.

\*BT1 beam currents

**MICRO-SCALE HYDROELECTRIC POWER PLANTS**

INIS: 1993-12-30; ETDE: 1982-05-12  
Hydroelectric power plants producing less  
than 100kW.

\*BT1 hydroelectric power plants

**MICROANALYSIS**

NT1 deuteron microprobe analysis  
NT1 electron microprobe analysis  
NT1 ion microprobe analysis  
NT1 proton microprobe analysis  
RT impurities  
RT qualitative chemical analysis  
RT quantitative chemical analysis  
RT trace amounts

**MICROARRAY TECHNOLOGY**

2006-01-26

Biotechnology method useful, for example, in  
determining how a cell can control the  
expression of large numbers of genes  
simultaneously.

BT1 biotechnology  
RT gene regulation  
RT genetic mapping  
RT transcription

**MICROBALANCES**

\*BT1 balances

**MICROBIAL DRUG RESISTANCE**

1992-06-11

The resistance developed by microorganisms  
to a drug.

RT drugs  
RT microorganisms

**microbial enhanced oil recovery**

INIS: 1992-03-10; ETDE: 1980-10-27  
USE microbial eor

**MICROBIAL EOR**

- INIS: 1999-03-19; ETDE: 1980-10-27*  
*UF microbial enhanced oil recovery*  
*SF microbial processes*  
 BT1 enhanced recovery  
*RT bacillus licheniformis*  
*RT corynebacterium fascians*  
*RT microbial leaching*  
*RT microorganisms*

**microbial flora**

USE microorganisms

**MICROBIAL LEACHING**

- INIS: 1992-03-17; ETDE: 1988-10-27*  
 \*BT1 leaching  
*RT microbial eor*

**microbial processes**

- INIS: 1991-09-23; ETDE: 1978-01-23*  
 SEE anaerobic digestion  
 SEE bioconversion  
 SEE biodegradation  
 SEE biophotolysis  
 SEE fermentation  
 SEE microbial eor

**microcephaly**

USE malformations

**MICROCHANNEL ELECTRON MULTIPLIERS**

- INIS: 1976-02-11; ETDE: 1976-04-19*  
 \*BT1 electron multipliers

**MICROCLIMATES**

- INIS: 1992-05-08; ETDE: 1981-06-13*  
*The local, rather uniform, climate of a specific place or habitat, compared with the climate of the entire area of which it is a part.*  
 BT1 climates  
*RT thermal comfort*

**microcline**

- INIS: 2000-04-12; ETDE: 1977-06-02*  
*A white to pale yellow, green, or occasionally red mineral of the feldspar group, like orthoclase or common feldspar in composition, but triclinic in form.*  
 (Prior to March 1996 this was a valid ETDE descriptor.)  
 USE feldspars

**MICROCOCCUS**

- \*BT1 bacteria  
 NT1 micrococcus luteus  
 NT1 micrococcus lysodeicticus  
 NT1 micrococcus radiodurans

**MICROCOCCUS LUTEUS**

- INIS: 1977-10-17; ETDE: 1977-11-10*  
 \*BT1 micrococcus  
*RT nucleases*

**MICROCOCCUS LYSODEICTICUS**

\*BT1 micrococcus

**MICROCOCCUS RADIODURANS**

\*BT1 micrococcus

**MICROCOMPUTERS**

- INIS: 1988-08-02; ETDE: 1976-08-05*  
 \*BT1 digital computers  
 NT1 personal computers

**MICROCOSMS**

- INIS: 1999-05-18; ETDE: 1981-07-06*  
*Experimental units designed to contain important components of and to exhibit important processes occurring in a whole ecosystem.*  
*RT biological models*

- RT functional models*  
*RT mathematical models*  
*RT mockup*  
*RT simulators*

**MICRODOSIMETRY**

- BT1 dosimetry  
*RT energy losses*  
*RT let*  
*RT spatial dose distributions*  
*RT wall effects*

**MICROEARTHQUAKES**

- 1993-01-28  
*Magnitude less than two on the Richter scale.*  
 \*BT1 earthquakes  
*RT aftershocks*

**MICROELECTRONIC CIRCUITS**

- 1976-03-25  
 BT1 electronic circuits  
 NT1 integrated circuits  
 NT1 microprocessors  
*RT microelectronics*  
*RT printed circuits*

**MICROELECTRONICS**

- RT electronic circuits*  
*RT microelectronic circuits*

**MICROEMULSION FLOODING**

- INIS: 1992-01-16; ETDE: 1976-06-07*  
*UF micellar-polymer flooding*  
*SF polymer flooding*  
 \*BT1 miscible-phase displacement  
*RT enhanced recovery*  
*RT petroleum*  
*RT well stimulation*

**MICROEMULSIONS**

- INIS: 1992-02-21; ETDE: 1976-07-07*  
*Optically isotropic, clear, and stable dispersions of oil, water, surfactant, and cosurfactant; the latter is often an alcohol.*  
 \*BT1 emulsions  
*RT micellar systems*  
*RT well stimulation*

**microflora**

USE microorganisms

**MICROGENERATION**

- 2006-05-15  
*Generation of electricity or heat below approximately 50 kW.*  
 BT1 power generation  
*RT fuel cell power plants*  
*RT heat production*  
*RT low-head hydroelectric power plants*  
*RT photovoltaic power plants*  
*RT small-scale hydroelectric power plants*  
*RT solar thermal power plants*

**MICROHARDNESS**

- \*BT1 hardness  
*RT ceramography*

**MICRONESIA**

- INIS: 1985-06-10; ETDE: 1978-12-11*  
*Islands of West Pacific Ocean east of Philippines; includes the Mariana, Palau, Caroline, Marshall, and Gilbert Islands.*  
 BT1 islands  
 BT1 oceania  
 NT1 kiribati  
 NT1 marshall islands  
 NT2 bikini  
 NT2 eniwetok  
 NT1 nauru  
 NT1 tuvalu  
*RT pacific ocean*

**MICROORGANISMS**

- UF germs (microorganisms)*  
*UF microbial flora*  
*UF microflora*  
 NT1 bacteria  
 NT2 actinomyces  
 NT3 frankia  
 NT2 aerobacter  
 NT2 aeromonas  
 NT2 azotobacter  
 NT2 bacillus  
 NT3 bacillus cereus  
 NT3 bacillus licheniformis  
 NT3 bacillus megaterium  
 NT3 bacillus subtilis  
 NT3 thiobacillus ferrooxidans  
 NT3 thiobacillus oxidans  
 NT2 brucella  
 NT2 clostridium  
 NT3 clostridium acetobutylicum  
 NT3 clostridium botulinum  
 NT3 clostridium butyricum  
 NT3 clostridium perfringens  
 NT3 clostridium thermocellum  
 NT3 clostridium  
 thermosaccharolyticum  
 NT2 coliforms  
 NT2 corynebacterium fascians  
 NT2 corynebacterium parvum  
 NT2 escherichia coli  
 NT2 haemophilus  
 NT2 klebsiella  
 NT2 lactobacillus  
 NT2 legionella anisa  
 NT2 legionella pneumophila  
 NT2 meningococcus  
 NT2 methanogenic bacteria  
 NT3 clostridium acetobutylicum  
 NT2 methanotrophic bacteria  
 NT2 micrococcus  
 NT3 micrococcus luteus  
 NT3 micrococcus lysodeicticus  
 NT3 micrococcus radiodurans  
 NT2 mycobacterium  
 NT3 mycobacterium tuberculosis  
 NT2 nocardia  
 NT2 photosynthetic bacteria  
 NT3 rhodospseudomonas  
 NT3 rhodospirillum  
 NT2 pneumococcus  
 NT2 proteus  
 NT2 pseudomonas  
 NT2 rhizobium  
 NT2 salmonella  
 NT3 salmonella typhimurium  
 NT2 serratia  
 NT2 shigella  
 NT2 spirochaetes  
 NT2 staphylococcus  
 NT2 streptococcus  
 NT2 streptomyces  
 NT2 sulfate-reducing bacteria  
 NT3 desulfovibrio  
 NT2 sulfur-oxidizing bacteria  
 NT3 rhodococcus  
 NT3 thiobacillus ferrooxidans  
 NT3 thiobacillus oxidans  
 NT2 thermoactinomyces  
 NT2 zymomonas mobilis  
 NT1 cyanobacteria  
 NT1 mycoplasma  
 NT2 acholeplasma laidlawii b  
 NT1 protozoa  
 NT2 ciliata  
 NT3 paramecium  
 NT3 tetrahymena  
 NT2 mastigophora  
 NT3 dinoflagellate  
 NT3 euglena

- NT3 trypanosoma
- NT2 sarcodina
- NT3 amoeba
- NT3 foraminifera
- NT2 sporozoa
- NT3 babesidae
- NT3 plasmodium
- NT1 rickettsiae
- NT1 unicellular algae
- NT2 chlamydomonas
- NT2 chlorella
- NT2 euglena
- NT2 scenedesmus
- NT1 viruses
- NT2 aids virus
- NT2 bacteriophages
- NT2 influenza viruses
- NT2 measles virus
- NT2 oncogenic viruses
- NT3 adenovirus
- NT3 leukemia viruses
- NT3 polyoma virus
- NT2 polio virus
- NT2 simian virus
- NT2 tobacco mosaic virus
- NT2 vaccinia virus
- NT1 yeasts
- NT2 candida
- NT2 saccharomyces
- NT3 saccharomyces cerevisiae
- NT2 torula
- RT aerobic digestion
- RT anaerobic digestion
- RT anti-infective agents
- RT antibiotics
- RT autotrophs
- RT biology
- RT bioremediation
- RT cell cultures
- RT immobilized cells
- RT infectious diseases
- RT microbial drug resistance
- RT microbial eor
- RT parasites
- RT pathogens
- RT photoreactivation
- RT virulence

**MICROPROCESSORS**

*INIS: 1977-03-01; ETDE: 1976-08-04*

- \*BT1 microelectronic circuits
- RT array processors
- RT computers

**micropulsations**

USE pulsations

**MICRORADIOGRAPHY**

*INIS: 1983-03-15; ETDE: 1975-10-01*

- UF radiography (micro)
- RT biomedical radiography
- RT industrial radiography

**MICROSCOPES**

- NT1 electron microscopes
- NT1 ion microscopes
- NT1 optical microscopes
- RT microscopy

**MICROSCOPY**

- NT1 acoustic microscopy
- NT1 atomic force microscopy
- NT1 electron microscopy
- NT2 scanning electron microscopy
- NT2 transmission electron microscopy
- NT1 ion microscopy
- NT1 optical microscopy
- NT2 scanning light microscopy
- NT1 scanning tunneling microscopy
- RT ceramography
- RT histological techniques

- RT histology
- RT metallography
- RT microscopes
- RT morphological changes
- RT photomicrography

**MICROSECONDS LIVING****RADIOISOTOPES**

*1997-02-07*

(From 10 exp -6 to 0.001 sec; prior to June

2003 MICROSEC LIVING

RADIOISOTOPES was used for this concept.)

- \*BT1 radioisotopes
- NT1 actinium 216
- NT1 actinium 218
- NT1 actinium 219
- NT1 astatine 215
- NT1 astatine 216
- NT1 chromium 64
- NT1 darmstadtium 269
- NT1 dysprosium 140
- NT1 element 112 277
- NT1 europium 130
- NT1 fermium 242
- NT1 fermium 258
- NT1 francium 212
- NT1 francium 213
- NT1 francium 217
- NT1 gold 170
- NT1 gold 171
- NT1 hafnium 156
- NT1 hassium 264
- NT1 hassium 265
- NT1 iodine 109
- NT1 iodine 116
- NT1 iodine 121
- NT1 iodine 122
- NT1 krypton 84
- NT1 krypton 85
- NT1 lutetium 154
- NT1 meitnerium 266
- NT1 mercury 201
- NT1 nobelium 250
- NT1 polonium 188
- NT1 polonium 213
- NT1 polonium 214
- NT1 protactinium 218
- NT1 protactinium 221
- NT1 radium 217
- NT1 radium 218
- NT1 radon 215
- NT1 radon 216
- NT1 radon 217
- NT1 rubidium 76
- NT1 rutherfordium 253
- NT1 rutherfordium 254
- NT1 tellurium 106
- NT1 thorium 217
- NT1 thorium 219
- NT1 thorium 220
- NT1 thulium 144
- NT1 thulium 145
- NT1 tin 102
- NT1 uranium 219
- NT1 uranium 222
- NT1 uranium 223
- NT1 uranium 224
- NT1 ytterbium 153
- RT half-life
- RT lifetime

**microseism**

*INIS: 2000-04-12; ETDE: 1980-03-04*

USE seismic noise

**microseismic monitoring**

*INIS: 2000-04-12; ETDE: 1978-10-30*

USE acoustic monitoring

**MICROSOMES**

- \*BT1 ribosomes
- RT mixed-function oxidases
- RT rna

**MICROSPHERES**

- RT dispersions
- RT particle size
- RT radiopharmaceuticals

**MICROSPORES**

- BT1 spores
- RT pollen

**MICROSTRUCTURE**

*1999-05-19*

- NT1 cleavage
- NT1 grain boundaries
- NT1 grain density
- NT1 grain orientation
- NT1 grain size
- NT1 pore structure
- NT1 widmanstaetten structure
- RT ceramography
- RT crystal defects
- RT crystal lattices
- RT inclusions
- RT metallography
- RT nanostructures
- RT phase diagrams
- RT phase transformations
- RT solids
- RT twinning

**MICROTRONS**

- \*BT1 cyclotrons
- NT1 racetrack microtrons

**MICROTUBULES**

*INIS: 1982-02-10; ETDE: 1981-08-04*

- BT1 cell constituents
- RT proteins

**MICROWAVE AMPLIFIERS**

- UF electron cyclotron masers
- UF gyrotrons
- \*BT1 amplifiers
- \*BT1 microwave equipment
- NT1 masers

**microwave discharges**

USE high-frequency discharges

**MICROWAVE DRYERS**

*INIS: 2000-04-19; ETDE: 1980-06-23*

- BT1 dryers
- \*BT1 microwave equipment
- RT microwave ovens
- RT microwave radiation

**MICROWAVE EQUIPMENT**

- \*BT1 electronic equipment
- NT1 heterodyne receivers
- NT1 microwave amplifiers
- NT2 masers
- NT1 microwave dryers
- NT1 microwave tubes
- NT2 backward wave tubes
- NT2 klystrons
- NT2 lasertrons
- NT2 magnetrons
- NT2 travelling wave tubes
- NT1 squid devices
- RT cavity resonators
- RT microwave radiation
- RT radio equipment
- RT resonators
- RT superconducting cavity resonators
- RT waveguides

**MICROWAVE HEATING**

INIS: 1994-01-07; ETDE: 1981-07-18

- BT1 heating
- RT microwave ovens
- RT microwave radiation
- RT plasma heating

**MICROWAVE OVENS**

INIS: 2000-04-19; ETDE: 1977-06-21

- \*BT1 electric appliances
- \*BT1 ovens
- RT microwave dryers
- RT microwave heating
- RT microwave radiation

**MICROWAVE POWER TRANSMISSION**

1995-02-27

- BT1 power transmission
- RT power supplies
- RT power systems
- RT rectennas
- RT rf systems

**MICROWAVE RADIATION**

- UF *ehf radiation*
- UF *extremely high frequency radiation*
- \*BT1 electromagnetic radiation
- NT1 relict radiation
- RT masers
- RT microwave dryers
- RT microwave equipment
- RT microwave heating
- RT microwave ovens
- RT microwave spectra

**MICROWAVE SPECTRA**

- BT1 spectra
- RT microwave radiation

**MICROWAVE TUBES**

- BT1 electron tubes
- \*BT1 microwave equipment
- NT1 backward wave tubes
- NT1 klystrons
- NT1 lasertrons
- NT1 magnetrons
- NT1 travelling wave tubes
- RT thermionic tubes

**MICTOMAGNETISM**

2000-04-12

*A property exhibited by some alloys whereby they are superparamagnetic.*

- \*BT1 antiferromagnetism
- \*BT1 ferromagnetism

**MID-ATLANTIC BIGHT**

INIS: 1997-06-19; ETDE: 1985-07-19

*The portion of the Atlantic Ocean overlying the continental shelf between Cape Hatteras and Georges Bank.*

- \*BT1 atlantic ocean
- NT1 new york bight
- RT chesapeake bay
- RT coastal waters
- RT continental shelf
- RT georges bank
- RT gulf stream
- RT long island sound
- RT south atlantic bight
- RT us east coast

**mid-atlantic region**

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to June 1982, this was a valid ETDE descriptor.)

- USE usa

**MID-ATLANTIC RIDGE**

INIS: 2000-01-21; ETDE: 1977-08-09

- RT atlantic ocean
- RT geologic structures

**midas computer**

1996-07-18

(Until July 1996 this was a valid descriptor.)

- USE computers

**MIDDAY AURORAE**

- BT1 aurorae
- RT auroral oval
- RT auroral zones
- RT charged-particle precipitation
- RT electron precipitation
- RT ionosphere
- RT proton precipitation

**middle distillates**

INIS: 1992-04-01; ETDE: 1979-11-23

- USE petroleum distillates

**MIDDLE EAST**

1991-11-06

- NT1 bahrain
- NT1 cyprus
- NT1 egyptian arab republic
- NT1 iran
- NT1 iraq
- NT1 israel
- NT1 jordan
- NT1 kuwait
- NT1 lebanon
- NT1 oman
- NT1 qatar
- NT1 saudi arabia
- NT1 syria
- NT1 turkey
- NT1 yemen
- RT arab countries
- RT oapec
- RT opec

**middle gust event**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE chemical explosions
- USE surface explosions

**MIDLAND-1 REACTOR**

*Consumers Power Co., Midland, Michigan, USA. Canceled in 1986 after construction began (1973).*

UF *consumers power company midland-1*

UF *consumers power company midland-1 reactor*

- \*BT1 process heat reactors
- \*BT1 pwr type reactors

**MIDLAND-2 REACTOR**

*Consumers Power Co., Midland, Michigan, USA. Canceled in 1986 after construction began (1973).*

UF *consumers power company midland-2*

UF *consumers power company midland-2 reactor*

- \*BT1 process heat reactors
- \*BT1 pwr type reactors

**midnight discontinuity**

- USE harang discontinuity

**midtemperature solar system test facility**

INIS: 2000-04-12; ETDE: 1980-11-08

- USE msstf

**MIDUALE**

2000-04-12

- \*BT1 chromium steels
- \*BT1 manganese additions
- \*BT1 silicon additions
- \*BT1 tungsten alloys

**MIDWEST FUEL RECOVERY PLANT**

UF *morris plant*

- \*BT1 fuel reprocessing plants

**midwest region**

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to June 1982 this was a valid ETDE descriptor.)

- USE usa

**mifi irt-2000 reactor**

*Moskovskij Inzhenerno-Fizicheskij Inst.*

- USE irt-2000 moscow reactor

**migas process**

INIS: 2000-04-12; ETDE: 1980-11-25

*Process in which excess superheated steam supplies heat of reaction to produce gas with high hydrogen to carbon monoxide ratio.*

(Prior to March 1994, this was a valid ETDE descriptor.)

- USE coal gasification

**MIGDAL THEORY**

- RT bremsstrahlung

**mighty epic event**

INIS: 2000-04-12; ETDE: 1977-06-21

*A test made during PROJECT ANVIL.*

(Prior to January 1995, this term was a valid ETDE descriptor.)

- USE nuclear explosions
- USE underground explosions

**MIGMA DEVICES**

1995-09-14

*Nonthermal, nonpulsed devices, in which fusion occurs among the ions of a self-colliding beam.*

- BT1 thermonuclear devices
- RT ion beams
- RT precession

**MIGRATION**

INIS: 1991-08-09; ETDE: 1976-05-13

- RT fish passage facilities
- RT population dynamics

**migration (kernel)**

INIS: 1991-08-09; ETDE: 1979-03-05

- USE amoeba effect

**migration (radionuclide)**

INIS: 1991-08-09; ETDE: 1981-01-27

- USE radionuclide migration

**migration area**

- USE migration length

**MIGRATION LENGTH**

1999-07-20

- UF *migration area*
- \*BT1 length
- RT diffusion length
- RT slowing-down length

**MIHAMA-1 REACTOR**

*KEPCO, Mihama, Fukui, Japan.*

- UF *kansai-1 reactor*
- \*BT1 pwr type reactors

**MIHAMA-2 REACTOR**

*KEPCO, Mihama, Fukui, Japan.*

- UF *kansai-2 reactor*



\*BT1 pwr type reactors

**MIHAMA-3 REACTOR**

*KEPCO, Mihama, Fukui, Japan.*

\*BT1 pwr type reactors

**MIKE EVENT**

*INIS: 1996-01-24; ETDE: 1984-06-29*

*A test made during PROJECT IVY.*

*(Prior to September 1994, this was a valid ETDE descriptor.)*

USE surface explosions

USE thermonuclear explosions

**MILAN SUPERCONDUCTING CYCLOTRON**

*INIS: 1990-12-17; ETDE: 1983-03-24*

*(Prior to December 1990, this descriptor was spelled MILANSUPERCOND CYCLOTRON.)*

\*BT1 heavy ion accelerators

\*BT1 isochronous cyclotrons

\*BT1 superconducting cyclotrons

**MILDEW**

\*BT1 eumycota

BT1 parasites

RT plant diseases

**MILITARY ASSISTANCE**

*INIS: 2000-04-12; ETDE: 1986-02-03*

RT foreign policy

RT international cooperation

RT national defense

**MILITARY EQUIPMENT**

*1999-02-23*

*(From August 1975 till March 1997*

*ORDNANCE was a valid ETDE descriptor.)*

UF munitions

UF ordnance

BT1 equipment

RT ammunition

**MILITARY FACILITIES**

*INIS: 1998-12-30; ETDE: 1976-03-22*

UF facilities (military)

NT1 tonopah test range

RT government buildings

RT national defense

**MILITARY PERSONNEL**

UF army personnel

BT1 personnel

RT aviation personnel

**MILITARY STRATEGY**

*INIS: 1994-08-26; ETDE: 1986-02-03*

RT warfare

**MILK**

\*BT1 body fluids

BT1 food

RT beverages

RT cows

RT lactation

RT mammary glands

RT milk products

RT whey

**MILK PRODUCTS**

BT1 food

NT1 butter

NT1 cheese

NT1 whey

RT milk

**milk sugar**

USE lactose

**MILKWEED**

*INIS: 2000-04-12; ETDE: 1980-04-14*

*A hydrocarbon-producing plant, possible source of synthetic petroleum.*

\*BT1 euphorbia

**MILKY WAY**

UF local galaxy

BT1 galaxies

RT interstellar space

**MILL TAILINGS**

*INIS: 1986-03-04; ETDE: 1977-03-04*

\*BT1 tailings

RT ore processing

RT radioactive wastes

**MILLER INDICES**

RT crystal lattices

**MILLET**

\*BT1 cereals

**MILLI AMP BEAM CURRENTS**

*From .001 to 1 amp.*

\*BT1 beam currents

**MILLI EV RANGE**

*1999-07-08*

BT1 energy range

**MILLI HZ RANGE**

BT1 frequency range

**milli k range**

*INIS: 1984-04-04; ETDE: 2002-03-28*

USE temperature range 0000-0013 k

**MILLING**

*For milling in the sense of pulverization, use*

*COMMINATION.*

BT1 machining

RT mechanical decladding

RT milling machines

**MILLING MACHINES**

\*BT1 machine tools

RT milling

**MILLISECONDS LIVING RADIOISOTOPES**

*1998-01-27*

*(From 0.001 to 1 sec.; prior to June 2003*

*MILLISEC LIVING RADIOISOTOPES was used for this concept.)*

\*BT1 radioisotopes

NT1 actinium 207

NT1 actinium 208

NT1 actinium 209

NT1 actinium 210

NT1 actinium 211

NT1 actinium 212

NT1 actinium 213

NT1 actinium 215

NT1 actinium 220

NT1 actinium 221

NT1 aluminium 22

NT1 aluminium 23

NT1 aluminium 24

NT1 aluminium 31

NT1 aluminium 32

NT1 aluminium 34

NT1 antimony 104

NT1 antimony 134

NT1 antimony 136

NT1 argon 31

NT1 argon 32

NT1 argon 33

NT1 argon 34

NT1 arsenic 64

NT1 arsenic 66

NT1 arsenic 75

NT1 arsenic 84

NT1 arsenic 86

NT1 arsenic 87

NT1 astatine 191

NT1 astatine 193

NT1 astatine 194

NT1 astatine 195

NT1 astatine 196

NT1 astatine 197

NT1 astatine 212

NT1 astatine 217

NT1 barium 114

NT1 barium 115

NT1 barium 116

NT1 barium 136

NT1 barium 147

NT1 barium 148

NT1 barium 149

NT1 beryllium 12

NT1 beryllium 14

NT1 bismuth 186

NT1 bohrium 261

NT1 bohrium 262

NT1 bohrium 264

NT1 bohrium 265

NT1 boron 12

NT1 boron 13

NT1 boron 14

NT1 boron 15

NT1 boron 17

NT1 boron 8

NT1 bromine 70

NT1 bromine 91

NT1 bromine 92

NT1 bromine 93

NT1 cadmium 125

NT1 cadmium 126

NT1 cadmium 127

NT1 cadmium 128

NT1 cadmium 130

NT1 cadmium 96

NT1 calcium 36

NT1 calcium 37

NT1 calcium 38

NT1 calcium 39

NT1 calcium 53

NT1 carbon 16

NT1 carbon 17

NT1 carbon 18

NT1 carbon 9

NT1 cesium 114

NT1 cesium 116

NT1 cesium 145

NT1 cesium 146

NT1 cesium 147

NT1 cesium 148

NT1 cesium 149

NT1 cesium 150

NT1 chlorine 31

NT1 chlorine 32

NT1 chromium 45

NT1 chromium 46

NT1 chromium 47

NT1 chromium 60

NT1 chromium 62

NT1 chromium 63

NT1 chromium 64

NT1 chromium 65

NT1 chromium 66

NT1 cobalt 52

NT1 cobalt 53

NT1 cobalt 54

NT1 cobalt 64

NT1 cobalt 66

NT1 cobalt 67

NT1 copper 56

NT1 copper 57

NT1 copper 76

NT1 copper 77

NT1 copper 78	NT1 lead 207	NT1 potassium 35
NT1 copper 79	NT1 lithium 10	NT1 potassium 36
NT1 darmstadtium 270	NT1 lithium 11	NT1 potassium 50
NT1 darmstadtium 271	NT1 lithium 8	NT1 potassium 51
NT1 dysprosium 149	NT1 lithium 9	NT1 potassium 52
NT1 erbium 151	NT1 lutetium 151	NT1 potassium 53
NT1 europium 131	NT1 lutetium 152	NT1 potassium 54
NT1 europium 134	NT1 lutetium 153	NT1 protactinium 212
NT1 fermium 243	NT1 lutetium 155	NT1 protactinium 213
NT1 fermium 244	NT1 lutetium 156	NT1 protactinium 214
NT1 fluorine 24	NT1 lutetium 161	NT1 protactinium 215
NT1 francium 199	NT1 lutetium 170	NT1 protactinium 216
NT1 francium 200	NT1 magnesium 19	NT1 protactinium 217
NT1 francium 201	NT1 magnesium 20	NT1 protactinium 222
NT1 francium 202	NT1 magnesium 21	NT1 protactinium 223
NT1 francium 203	NT1 magnesium 30	NT1 protactinium 224
NT1 francium 206	NT1 magnesium 31	NT1 radium 205
NT1 francium 214	NT1 manganese 48	NT1 radium 206
NT1 francium 218	NT1 manganese 49	NT1 radium 213
NT1 francium 219	NT1 manganese 50	NT1 radium 215
NT1 gallium 60	NT1 manganese 61	NT1 radium 219
NT1 gallium 62	NT1 manganese 62	NT1 radium 220
NT1 gallium 72	NT1 manganese 63	NT1 radon 197
NT1 gallium 82	NT1 meitnerium 266	NT1 radon 199
NT1 gallium 83	NT1 meitnerium 268	NT1 radon 213
NT1 gallium 84	NT1 mercury 175	NT1 radon 218
NT1 germanium 61	NT1 mercury 176	NT1 rhenium 161
NT1 germanium 62	NT1 mercury 177	NT1 rhenium 162
NT1 germanium 71	NT1 mercury 178	NT1 rhenium 163
NT1 germanium 73	NT1 molybdenum 109	NT1 rhenium 164
NT1 germanium 85	NT1 molybdenum 89	NT1 rhodium 115
NT1 gold 172	NT1 neodymium 125	NT1 rhodium 116
NT1 gold 173	NT1 neon 17	NT1 rhodium 118
NT1 gold 174	NT1 neon 25	NT1 rhodium 92
NT1 gold 175	NT1 neon 26	NT1 roentgenium 272
NT1 gold 191	NT1 neptunium 226	NT1 roentgenium 279
NT1 hafnium 155	NT1 neptunium 227	NT1 rubidium 100
NT1 hafnium 156	NT1 nickel 49	NT1 rubidium 74
NT1 hafnium 157	NT1 nickel 50	NT1 rubidium 95
NT1 hassium 265	NT1 nickel 52	NT1 rubidium 96
NT1 hassium 266	NT1 nickel 53	NT1 rubidium 97
NT1 hassium 267	NT1 nickel 55	NT1 rubidium 98
NT1 helium 6	NT1 nickel 73	NT1 rubidium 99
NT1 helium 8	NT1 niobium 108	NT1 ruthenium 114
NT1 holmium 141	NT1 nitrogen 12	NT1 rutherfordium 254
NT1 holmium 143	NT1 nitrogen 18	NT1 rutherfordium 256
NT1 holmium 144	NT1 nitrogen 19	NT1 rutherfordium 258
NT1 holmium 148	NT1 nobelium 251	NT1 rutherfordium 260
NT1 indium 114	NT1 nobelium 254	NT1 rutherfordium 262
NT1 indium 128	NT1 nobelium 258	NT1 scandium 40
NT1 indium 129	NT1 osmium 162	NT1 scandium 41
NT1 indium 130	NT1 osmium 164	NT1 scandium 42
NT1 indium 131	NT1 osmium 165	NT1 scandium 50
NT1 indium 132	NT1 osmium 166	NT1 scandium 57
NT1 indium 133	NT1 osmium 167	NT1 scandium 58
NT1 indium 134	NT1 oxygen 13	NT1 seaborgium 259
NT1 indium 135	NT1 oxygen 24	NT1 seaborgium 260
NT1 iodine 108	NT1 palladium 117	NT1 seaborgium 261
NT1 iodine 110	NT1 palladium 119	NT1 seaborgium 262
NT1 iodine 140	NT1 palladium 120	NT1 seaborgium 263
NT1 iodine 141	NT1 phosphorus 26	NT1 selenium 65
NT1 iodine 142	NT1 phosphorus 27	NT1 selenium 66
NT1 iridium 166	NT1 phosphorus 28	NT1 selenium 67
NT1 iridium 167	NT1 phosphorus 38	NT1 selenium 89
NT1 iridium 169	NT1 platinum 169	NT1 selenium 91
NT1 iridium 194	NT1 platinum 170	NT1 silicon 24
NT1 iron 45	NT1 platinum 171	NT1 silicon 25
NT1 iron 46	NT1 platinum 172	NT1 silicon 35
NT1 iron 49	NT1 platinum 173	NT1 silicon 36
NT1 iron 51	NT1 platinum 174	NT1 silver 120
NT1 krypton 71	NT1 platinum 184	NT1 silver 121
NT1 krypton 94	NT1 plutonium 230	NT1 silver 123
NT1 krypton 95	NT1 polonium 190	NT1 silver 94
NT1 lanthanum 150	NT1 polonium 192	NT1 silver 95
NT1 lawrencium 257	NT1 polonium 193	NT1 sodium 19
NT1 lead 180	NT1 polonium 194	NT1 sodium 24
NT1 lead 182	NT1 polonium 211	NT1 sodium 27
NT1 lead 184	NT1 polonium 215	NT1 sodium 28
NT1 lead 205	NT1 polonium 216	NT1 sodium 29

NT1 sodium 30  
 NT1 sodium 31  
 NT1 sodium 32  
 NT1 sodium 33  
 NT1 sodium 34  
 NT1 sodium 35  
 NT1 strontium 100  
 NT1 strontium 101  
 NT1 strontium 102  
 NT1 strontium 75  
 NT1 strontium 97  
 NT1 strontium 98  
 NT1 strontium 99  
 NT1 sulfur 28  
 NT1 sulfur 29  
 NT1 tantalum 156  
 NT1 tantalum 157  
 NT1 tantalum 158  
 NT1 tantalum 159  
 NT1 tantalum 182  
 NT1 technetium 110  
 NT1 technetium 111  
 NT1 technetium 112  
 NT1 technetium 113  
 NT1 tellurium 107  
 NT1 terbium 146  
 NT1 thallium 179  
 NT1 thallium 183  
 NT1 thorium 212  
 NT1 thorium 213  
 NT1 thorium 214  
 NT1 thorium 216  
 NT1 thorium 221  
 NT1 thorium 222  
 NT1 thorium 223  
 NT1 thulium 146  
 NT1 thulium 147  
 NT1 thulium 150  
 NT1 tin 135  
 NT1 tin 137  
 NT1 titanium 40  
 NT1 titanium 41  
 NT1 titanium 42  
 NT1 titanium 43  
 NT1 titanium 58  
 NT1 titanium 59  
 NT1 titanium 60  
 NT1 tungsten 159  
 NT1 tungsten 160  
 NT1 tungsten 161  
 NT1 uranium 218  
 NT1 uranium 225  
 NT1 uranium 226  
 NT1 vanadium 42  
 NT1 vanadium 44  
 NT1 vanadium 45  
 NT1 vanadium 46  
 NT1 xenon 110  
 NT1 xenon 111  
 NT1 xenon 143  
 NT1 xenon 145  
 NT1 ytterbium 154  
 NT1 ytterbium 175  
 NT1 yttrium 100  
 NT1 yttrium 101  
 NT1 yttrium 102  
 NT1 yttrium 103  
 NT1 yttrium 88  
 NT1 yttrium 93  
 NT1 yttrium 97  
 NT1 yttrium 98  
 NT1 zinc 57  
 NT1 zinc 59  
 NT1 zinc 80  
 NT1 zinc 81  
 NT1 zirconium 105  
 NT1 zirconium 90  
 RT half-life  
 RT lifetime

**MILLIWATT POWER RANGE**

INIS: 1988-04-15; ETDE: 1990-11-05

UF power range milli w

BT1 power range

NT1 power range 01-10 milli w

NT1 power range 10-100 milli w

NT1 power range 100-1000 milli w

**MILLSTONE-1 REACTOR**

*Dominion Nuclear Connecticut, Inc., Waterford, Connecticut, USA. Shut down in 1995; permanently closed in 1998.*

\*BT1 bwr type reactors

**MILLSTONE-2 REACTOR**

*Dominion Nuclear Connecticut, Inc., Waterford, Connecticut, USA.*

\*BT1 pwr type reactors

**MILLSTONE-3 REACTOR**

*Dominion Nuclear Connecticut, Inc., Waterford, Connecticut, USA.*

\*BT1 pwr type reactors

**MILNE PROBLEM**

RT angular distribution

RT marshak boundary conditions

RT neutron transport theory

**milrow event**

1994-10-14

*A test made during OPERATION MANDREL.*

*(Prior to September 1994, this was a valid*

*ETDE descriptor.)*

USE nuclear explosions

USE underground explosions

**MIM JUNCTIONS**

*Metal-Insulator-Metal junctions.*

BT1 semiconductor junctions

**mimic**

2000-04-12

*(Prior to January 1995, this was a valid ETDE*

*descriptor.)*

USE programming languages

**MIMOSINE**

\*BT1 amino acids

RT leguminosae

RT toxicity

**minami ambiguity**

1996-06-28

*(Until June 1996 this was a valid descriptor.)*

SEE angular distribution

SEE parity

**minas gerais university triga reactor**

INIS: 1993-11-09; ETDE: 2002-03-28

USE triga-brazil reactor

**MINE CARS**

INIS: 2000-04-12; ETDE: 1980-05-23

\*BT1 haulage equipment

BT1 vehicles

RT mining

RT transport

**MINE DRAINING**

INIS: 1992-04-08; ETDE: 1977-06-24

RT acid mine drainage

RT coal mines

RT drainage

RT underground mining

RT water influx

**MINE DRIVAGE**

INIS: 2000-04-12; ETDE: 1988-11-23

*Driving a drift for development or for use as an underground road.*

RT construction

RT mine roadways

RT tunnels

RT underground mining

**MINE HAULAGE**

INIS: 2000-04-12; ETDE: 1977-06-24

BT1 materials handling

RT chain conveyors

RT haulage equipment

RT loaders

**mine-mouth generating plants**

INIS: 2000-04-12; ETDE: 1979-12-10

USE coal mines

USE fossil-fuel power plants

**MINE RESCUE**

INIS: 2000-04-12; ETDE: 1978-05-03

BT1 rescue operations

RT accidents

RT evacuation

RT mines

RT safety

**MINE ROADWAYS**

INIS: 1993-03-15; ETDE: 1978-05-03

UF roadways (mines)

\*BT1 tunnels

RT mine drivage

RT underground mining

**mine safety and health****administration**

INIS: 2000-04-12; ETDE: 1982-02-08

USE us msha

**MINE SHAFTS**

INIS: 1991-12-18; ETDE: 1981-04-17

*(Prior to January 1992, this concept was indexed to SHAFT EXCAVATIONS.)*

UF shafts (mine)

SF shafts

BT1 shaft excavations

NT1 abandoned shafts

RT cavities

RT openings

RT underground mining

**mine site rehabilitation**

INIS: 2000-03-28; ETDE: 1990-10-09

SEE land reclamation

SEE remedial action

**mine tailings**

INIS: 1981-02-27; ETDE: 2002-03-28

USE tailings

**mine wastes**

INIS: 1993-06-08; ETDE: 2002-03-28

USE mineral wastes

**mineral acids**

USE inorganic acids

**MINERAL CYCLING**

INIS: 1992-02-18; ETDE: 1976-08-24

*The cyclic movement of elemental mineral nutrients in ecosystems.*

RT air-biosphere interactions

RT biogeochemistry

RT carbon cycle

RT carbon sinks

RT ecological concentration

RT ecosystems

RT nitrogen cycle

RT sulfur cycle

**MINERAL INDUSTRY**

INIS: 1993-08-04; ETDE: 1976-11-01

UF mining industry

BT1 industry

RT ceramics industry

RT coal industry

- RT metal industry  
 RT oil sand industry  
 RT oil shale industry  
 RT petroleum industry

**mineral oil(s)**

INIS: 2000-04-12; ETDE: 1976-03-11

- SEE lubricants  
 SEE petroleum

**MINERAL RESOURCES**

1995-04-07

*The totality of the discovered and undiscovered quantities of a particular mineral or similar commodity, i.e., its crustal abundance.*

- BT1 resources  
 NT1 coal deposits  
 NT2 coal seams  
 NT1 natural gas deposits  
 NT2 natural gas fields  
 NT3 gas condensate fields  
 NT1 oil shale deposits  
 NT2 us naval oil shale reserves  
 NT1 petroleum deposits  
 NT2 gas condensate fields  
 NT2 oil fields  
 NT2 us naval petroleum reserves  
 NT1 uranium deposits  
 NT2 blizzard deposit  
 NT2 erzgebirge deposit  
 NT2 jabiluka deposit  
 NT2 koongarra deposit  
 NT2 nabarlek deposit  
 NT2 ranger deposit  
 NT2 ranstad deposit  
 NT2 roxby downs deposit  
 NT2 south alligator deposit  
 NT2 yeelirrie deposit  
 RT mineral rights  
 RT minerals  
 RT resource management  
 RT resource potential  
 RT royalties  
 RT uranium reserves

**MINERAL RIGHTS**

INIS: 2000-04-12; ETDE: 1979-07-24

- UF mining rights  
 RT land ownership  
 RT land use  
 RT legal aspects  
 RT mineral resources  
 RT mining laws  
 RT ownership

**MINERAL SPRINGS**

2000-01-26

- BT1 water springs  
 RT hot springs  
 RT thermal springs

**mineral virginia north anna-1 reactor**

INIS: 1993-11-09; ETDE: 2002-03-28

USE north anna-1 reactor

**mineral virginia north anna-2 reactor**

INIS: 1993-11-09; ETDE: 2002-03-28

USE north anna-2 reactor

**mineral virginia north anna-3 reactor**

INIS: 1993-11-09; ETDE: 2002-03-28

USE north anna-3 reactor

**mineral virginia north anna-4 reactor**

INIS: 2002-04-03; ETDE: 2002-03-28

USE north anna-4 reactor

**MINERAL WASTES**

INIS: 1993-06-08; ETDE: 1976-01-23

- UF mine wastes  
 \*BT1 solid wastes  
 NT1 culm  
 RT dredge spoil  
 RT spoil banks  
 RT tailings

**MINERAL WOOL**

INIS: 2000-04-12; ETDE: 1976-11-01

- RT fibers  
 RT thermal insulation

**MINERALIZATION**

- RT crystallization  
 RT mineralogy  
 RT plutonic rocks

**MINERALOCORTICOIDS**

1996-10-23

(Prior to March 1997 DOCA was a valid ETDE descriptor.)

- UF desoxycorticosterone acetate  
 UF doca  
 \*BT1 corticosteroids  
 NT1 aldosterone

**MINERALOGY**

- RT mineralization  
 RT minerals  
 RT petrochemistry

**MINERALS**

(From May 1982 till February 1997

ELEMENTAL MINERALS was a valid ETDE descriptor.)

- UF elemental minerals  
 UF lead minerals  
 UF sodium minerals  
 UF vanadium minerals  
 NT1 black sands  
 NT1 carbonate minerals  
 NT2 ankerite  
 NT2 aragonite  
 NT2 calcite  
 NT2 dawsonite  
 NT2 diderichite  
 NT2 dolomite  
 NT2 nahcolite  
 NT2 shortite  
 NT2 siderite  
 NT2 trona

- NT1 diamonds  
 NT1 graphite  
 NT1 halide minerals  
 NT2 carnallite  
 NT2 fluorite  
 NT2 halite

- NT1 oxide minerals  
 NT2 baddeleyite  
 NT2 bastnaesite  
 NT2 becquerelite  
 NT2 billietite  
 NT2 brannerite  
 NT2 chrysoberyl  
 NT2 clarkeite  
 NT2 compreignacite  
 NT2 corundum  
 NT3 ruby  
 NT3 sapphire  
 NT2 corvusite  
 NT2 cristobalite  
 NT2 ellsworthite  
 NT2 ferghanite

- NT2 ferrite garnets  
 NT2 gibbsite  
 NT2 goethite  
 NT2 guilleminite  
 NT2 hallimondite  
 NT2 heinrichite  
 NT2 hematite  
 NT2 hollandite  
 NT2 ianthinite  
 NT2 ilmenite  
 NT2 kahlerite  
 NT2 kaolin  
 NT2 kirchheimerite  
 NT2 limonite  
 NT2 lodochnikite  
 NT2 lyndochite  
 NT2 magnetite  
 NT2 marignacite  
 NT2 melanovanadite  
 NT2 moctezumite  
 NT2 mullite  
 NT2 naegite  
 NT2 nogizawalite  
 NT2 nordstrandite  
 NT2 novacekite  
 NT2 para-schoepite  
 NT2 pascoite  
 NT2 perovskite  
 NT2 quartz  
 NT2 rauvite  
 NT2 rutile  
 NT2 schoepite  
 NT2 sengierite  
 NT2 silica  
 NT3 opals  
 NT2 spinels  
 NT2 stishovite  
 NT2 tantalite  
 NT2 tapiolite  
 NT2 thorianite  
 NT2 tyuyamunite  
 NT2 uraninites  
 NT3 broeggerite  
 NT3 pitchblende  
 NT2 uranium black  
 NT2 wolframite  
 NT2 zirconolite  
 NT1 perovskites  
 NT2 perovskite  
 NT1 phosphate minerals  
 NT2 apatites  
 NT2 autunite  
 NT2 monazites  
 NT2 ningyoite  
 NT2 salecite  
 NT2 torbernite  
 NT2 xenotime  
 NT1 pyrochlore  
 NT1 radioactive minerals  
 NT2 baddeleyite  
 NT2 corvusite  
 NT2 fersmite  
 NT2 kainosite  
 NT2 melanovanadite  
 NT2 pascoite  
 NT2 rutile  
 NT2 thorium minerals  
 NT3 allanite  
 NT3 bastnaesite  
 NT3 brannerite  
 NT3 ekanite  
 NT3 freyalite  
 NT3 hydrothorite  
 NT3 lodochnikite  
 NT3 lyndochite  
 NT3 mackintoshite  
 NT3 maitlandite  
 NT3 monazites  
 NT3 naegite

NT3 thorianite  
 NT3 thorite  
 NT4 jiningite  
 NT3 thucholite  
 NT3 uranothorite  
 NT2 uranium minerals  
 NT3 autunite  
 NT3 bassetite  
 NT3 becquerelite  
 NT3 billietite  
 NT3 brannerite  
 NT3 carnotite  
 NT3 clarkeite  
 NT3 coffinite  
 NT3 compreignacite  
 NT3 dewindtite  
 NT3 diderichite  
 NT3 djalmaite  
 NT3 ekanite  
 NT3 ellsworthite  
 NT3 ferghanite  
 NT3 fourmarierite  
 NT3 gastunite  
 NT3 guilleminite  
 NT3 hallimondite  
 NT3 heinrichite  
 NT3 ianthinite  
 NT3 kahlerite  
 NT3 kirchheimerite  
 NT3 lodochnikite  
 NT3 mackintoshite  
 NT3 moctezumite  
 NT3 montroseite  
 NT3 naegite  
 NT3 natroautunite  
 NT3 ningyoite  
 NT3 novacekite  
 NT3 para-schoepite  
 NT3 ranquillite  
 NT3 rauvite  
 NT3 sabugalite  
 NT3 saleeite  
 NT3 schoepite  
 NT3 sengierite  
 NT3 sklodowskite  
 NT3 soddyite  
 NT3 thorianite  
 NT3 thucholite  
 NT3 torbernite  
 NT3 tyuyamunite  
 NT3 uraninites  
 NT4 broeggerite  
 NT4 pitchblende  
 NT3 uranium black  
 NT3 uranophane  
 NT3 uranothorite  
 NT3 vesuvianite  
 NT1 silicate minerals  
 NT2 alamosite  
 NT2 allanite  
 NT2 alvite  
 NT2 amphibole  
 NT3 hornblende  
 NT2 beryl  
 NT2 chlorite minerals  
 NT2 clays  
 NT3 attapulgitite  
 NT3 bentonite  
 NT3 boom clay  
 NT3 clinoptilolite  
 NT3 fullers earth  
 NT3 illite  
 NT3 kaolin  
 NT3 montmorillonite  
 NT3 sepiolite  
 NT3 smectite  
 NT2 coffinite  
 NT2 cristobalite  
 NT2 diopside

NT2 ekanite  
 NT2 enstatite  
 NT2 epidotes  
 NT2 feldspars  
 NT3 anorthite  
 NT3 orthoclase  
 NT2 freyelite  
 NT2 garnets  
 NT2 hedenbergite  
 NT2 helvite  
 NT2 hydrothorite  
 NT2 ilvaite  
 NT2 kainosite  
 NT2 kaolinite  
 NT2 lavenite  
 NT2 lovozerite  
 NT2 mackintoshite  
 NT2 maitlandite  
 NT2 mesodialyte  
 NT2 mica  
 NT3 biotite  
 NT3 muscovite  
 NT3 vermiculite  
 NT2 olivine  
 NT2 petalite  
 NT2 pollucite  
 NT2 pyrophyllite  
 NT2 ranquillite  
 NT2 serpentine  
 NT2 sklodowskite  
 NT2 soddyite  
 NT2 talc  
 NT2 thorite  
 NT3 jiningite  
 NT2 titanite  
 NT2 tourmaline  
 NT2 uranophane  
 NT2 uranothorite  
 NT2 zeolites  
 NT3 clinoptilolite  
 NT3 faujasite  
 NT3 heulandite  
 NT3 laumontite  
 NT3 mordenite  
 NT3 wairakite  
 NT2 zircon  
 NT1 sulfate minerals  
 NT2 alunite  
 NT2 anhydrite  
 NT2 barite  
 NT2 gypsum  
 NT2 polyhalite  
 NT1 sulfide minerals  
 NT2 chalcopyrite  
 NT2 galena  
 NT2 marcasite  
 NT2 pyrite  
 NT2 pyrrhotite  
 NT3 troilite  
 RT concretions  
 RT environmental materials  
 RT geobarometry  
 RT metamict state  
 RT mineral resources  
 RT mineralogy  
 RT ores  
 RT rocks  
 RT tektites  
 RT torbanite  
 RT translocation

## MINERS

BT1 personnel  
 NT1 coal miners  
 RT life support systems

## MINERVE REACTOR

CEA/CEN Cadarache, St. Paul Lez Durance,  
 France.  
 UF french minerve reactor

UF zero power critical experiment  
minerve

\*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 zero power reactors

## MINES

1997-06-17

BT1 underground facilities  
 NT1 asse salt mine  
 NT1 coal mines  
 NT1 konrad ore mine  
 NT1 uranium mines  
 NT2 beaverlodge mine  
 NT2 cluff lake mine  
 NT2 key lake mine  
 NT2 mary kathleen mines  
 NT2 olympic dam mine  
 NT2 osamu utsumi mine  
 NT2 rum jungle mine  
 NT2 stanleigh mine  
 RT abandoned shafts  
 RT backfilling  
 RT mine rescue  
 RT mining  
 RT shaft excavations  
 RT surface mining  
 RT tunnels  
 RT underground mining  
 RT water influx

## mini-serve stations

INIS: 2000-04-12; ETDE: 1979-05-09  
 USE gasoline service stations

## miniata event

2000-04-12

A test made during OPERATION GROMMET.  
 (Prior to January 1995, this was a valid ETDE  
 descriptor.)

USE nuclear explosions  
 USE underground explosions

## miniature neutron source reactors

2004-03-15

USE mnsr type reactors

## MINIATURE SWINE

\*BT1 swine

## MINIATURIZATION

RT electrical equipment  
 RT electronic equipment  
 RT measuring instruments  
 RT semiconductor devices

## MINIMARS REACTOR

INIS: 2000-04-12; ETDE: 1986-04-11

\*BT1 magnetic mirror type reactors  
 RT mars reactor

## MINIMIZATION

INIS: 1983-06-30; ETDE: 1982-08-11

BT1 optimization  
 RT augmentation

## MINIMUM AVERAGE-B CONFIGURATIONS

UF average magnetic well  
 \*BT1 closed configurations  
 RT internal ring devices

## MINIMUM-B CONFIGURATIONS

UF magnetic well  
 \*BT1 open configurations  
 RT ion rings  
 RT tlm configurations

**MINING**

1996-01-24

- NT1 auger mining
- NT1 coal mining
- NT1 hydraulic mining
- NT1 oil sand mining
- NT1 oil shale mining
- NT1 solution mining
- NT1 surface mining
- NT1 underground mining
- NT2 advance mining
- NT2 caving mining
- NT2 longwall mining
- NT2 retreat mining
- NT2 room and pillar mining
- NT2 shortwall mining
- NT2 slice mining
- RT acid mine drainage
- RT belt conveyors
- RT contained explosions
- RT cratering explosions
- RT excavation
- RT explosive fracturing
- RT heading machines
- RT industry
- RT landslides
- RT mine cars
- RT mines
- RT ore composition
- RT overburden
- RT resource exploitation
- RT rock bursts
- RT rock mechanics
- RT shaft excavations
- RT shield supports
- RT underground explosions
- RT uranium ores
- RT working faces

**MINING ENGINEERING**

INIS: 1993-02-18; ETDE: 1979-09-06

- BT1 engineering
- RT auger mining
- RT coal mining
- RT hydraulic mining
- RT oil shale mining
- RT surface mining
- RT underground mining

**MINING EQUIPMENT**

1994-06-27

- BT1 equipment
- NT1 bucket wheel excavators
- NT1 cutting machines
- NT2 cutter loaders
- NT3 coal plows
- NT3 continuous miners
- NT3 heading machines
- NT3 shearer loaders
- NT1 roof bolts
- RT auger mining
- RT chain conveyors
- RT conveyors
- RT draglines
- RT earthmoving equipment
- RT haulage equipment
- RT supports
- RT tunneling machines

**mining industry**

INIS: 1993-08-04; ETDE: 2002-03-28

USE mineral industry

**MINING LAWS**

1990-12-15

(Prior to December 1990, this descriptor was spelled MINING LAW.)

- BT1 laws
- NT1 surface mining acts
- RT mineral rights

**mining research method**

INIS: 2000-04-12; ETDE: 1977-03-04

USE desulfurization

**mining rights**

INIS: 2000-04-12; ETDE: 1979-07-24

USE mineral rights

**MINKOWSKI SPACE**

- \*BT1 mathematical space
- RT light cone
- RT lorentz transformations
- RT relativity theory

**MINNESOTA**

- \*BT1 usa
- RT mississippi river

**minnesota univ linac**

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor.)

USE linear accelerators

**MINORITY GROUPS**

INIS: 1999-04-30; ETDE: 1978-02-14

Coordinate with a descriptor for the geographical area involved.

- UF ethnic groups
- UF racial groups
- \*BT1 human populations
- NT1 american indians
- NT1 black americans
- NT1 elderly people
- NT1 handicapped people
- NT1 high income groups
- NT1 hispanic americans
- NT1 lapps
- NT1 low income groups
- NT1 oriental americans
- RT interest groups
- RT sociology
- RT us affirmative action program

**MINSK COMPUTERS**

BT1 computers

**MINT**

1999-02-25

Malaysian Institute for Nuclear Technology Research.

UF malaysian institute for nuclear energy research

\*BT1 malaysian organizations

**MINUS-PLUS RATIO**

- UF charge ratio
- UF plus-minus ratio
- BT1 dimensionless numbers
- RT electric charges

**MINUTES LIVING RADIOISOTOPES**

1997-02-07

\*BT1 radioisotopes

- NT1 actinium 222
- NT1 actinium 223
- NT1 actinium 230
- NT1 actinium 231
- NT1 actinium 232
- NT1 actinium 233
- NT1 aluminium 28
- NT1 aluminium 29
- NT1 americium 233
- NT1 americium 234
- NT1 americium 235
- NT1 americium 236
- NT1 americium 244
- NT1 americium 246
- NT1 americium 247
- NT1 antimony 111
- NT1 antimony 113

- NT1 antimony 114
- NT1 antimony 115
- NT1 antimony 116
- NT1 antimony 118
- NT1 antimony 120
- NT1 antimony 122
- NT1 antimony 124
- NT1 antimony 126
- NT1 antimony 128
- NT1 antimony 129
- NT1 antimony 130
- NT1 antimony 131
- NT1 antimony 132
- NT1 antimony 133
- NT1 argon 43
- NT1 argon 44
- NT1 arsenic 68
- NT1 arsenic 69
- NT1 arsenic 70
- NT1 arsenic 79
- NT1 astatine 201
- NT1 astatine 202
- NT1 astatine 203
- NT1 astatine 204
- NT1 astatine 205
- NT1 astatine 206
- NT1 astatine 220
- NT1 astatine 221
- NT1 barium 122
- NT1 barium 123
- NT1 barium 124
- NT1 barium 125
- NT1 barium 127
- NT1 barium 131
- NT1 barium 137
- NT1 barium 141
- NT1 barium 142
- NT1 berkelium 240
- NT1 berkelium 242
- NT1 berkelium 251
- NT1 bismuth 193
- NT1 bismuth 194
- NT1 bismuth 195
- NT1 bismuth 196
- NT1 bismuth 197
- NT1 bismuth 198
- NT1 bismuth 199
- NT1 bismuth 200
- NT1 bismuth 201
- NT1 bismuth 211
- NT1 bismuth 212
- NT1 bismuth 213
- NT1 bismuth 214
- NT1 bismuth 215
- NT1 bismuth 216
- NT1 bromine 72
- NT1 bromine 73
- NT1 bromine 74
- NT1 bromine 77
- NT1 bromine 78
- NT1 bromine 80
- NT1 bromine 82
- NT1 bromine 84
- NT1 bromine 85
- NT1 cadmium 100
- NT1 cadmium 101
- NT1 cadmium 102
- NT1 cadmium 103
- NT1 cadmium 104
- NT1 cadmium 105
- NT1 cadmium 111
- NT1 cadmium 118
- NT1 cadmium 119
- NT1 calcium 49
- NT1 californium 240
- NT1 californium 241
- NT1 californium 242
- NT1 californium 243
- NT1 californium 244

NT1 californium 245  
NT1 californium 256  
NT1 carbon 11  
NT1 cerium 128  
NT1 cerium 129  
NT1 cerium 130  
NT1 cerium 131  
NT1 cerium 145  
NT1 cerium 146  
NT1 cesium 120  
NT1 cesium 121  
NT1 cesium 122  
NT1 cesium 123  
NT1 cesium 125  
NT1 cesium 126  
NT1 cesium 128  
NT1 cesium 130  
NT1 cesium 135  
NT1 cesium 138  
NT1 cesium 139  
NT1 cesium 140  
NT1 chlorine 34  
NT1 chlorine 38  
NT1 chlorine 39  
NT1 chlorine 40  
NT1 chromium 49  
NT1 chromium 55  
NT1 chromium 56  
NT1 cobalt 54  
NT1 cobalt 60  
NT1 cobalt 62  
NT1 copper 59  
NT1 copper 60  
NT1 copper 62  
NT1 copper 66  
NT1 copper 68  
NT1 copper 69  
NT1 curium 236  
NT1 curium 237  
NT1 curium 251  
NT1 dysprosium 147  
NT1 dysprosium 148  
NT1 dysprosium 149  
NT1 dysprosium 150  
NT1 dysprosium 151  
NT1 dysprosium 165  
NT1 dysprosium 167  
NT1 dysprosium 168  
NT1 einsteinium 245  
NT1 einsteinium 246  
NT1 einsteinium 247  
NT1 einsteinium 248  
NT1 einsteinium 256  
NT1 element 112 283  
NT1 erbium 154  
NT1 erbium 155  
NT1 erbium 156  
NT1 erbium 157  
NT1 erbium 159  
NT1 erbium 173  
NT1 erbium 174  
NT1 europium 142  
NT1 europium 143  
NT1 europium 154  
NT1 europium 158  
NT1 europium 159  
NT1 fermium 249  
NT1 fermium 250  
NT1 fluorine 17  
NT1 francium 210  
NT1 francium 211  
NT1 francium 212  
NT1 francium 221  
NT1 francium 222  
NT1 francium 223  
NT1 francium 224  
NT1 francium 225  
NT1 francium 227  
NT1 gadolinium 142

NT1 gadolinium 143  
NT1 gadolinium 144  
NT1 gadolinium 145  
NT1 gadolinium 161  
NT1 gadolinium 162  
NT1 gadolinium 163  
NT1 gallium 64  
NT1 gallium 65  
NT1 gallium 70  
NT1 gallium 74  
NT1 gallium 75  
NT1 germanium 64  
NT1 germanium 67  
NT1 gold 185  
NT1 gold 186  
NT1 gold 187  
NT1 gold 188  
NT1 gold 189  
NT1 gold 190  
NT1 gold 200  
NT1 gold 201  
NT1 hafnium 164  
NT1 hafnium 165  
NT1 hafnium 166  
NT1 hafnium 167  
NT1 hafnium 168  
NT1 hafnium 169  
NT1 hafnium 177  
NT1 holmium 150  
NT1 holmium 152  
NT1 holmium 153  
NT1 holmium 154  
NT1 holmium 155  
NT1 holmium 156  
NT1 holmium 157  
NT1 holmium 158  
NT1 holmium 159  
NT1 holmium 160  
NT1 holmium 162  
NT1 holmium 164  
NT1 holmium 168  
NT1 holmium 169  
NT1 holmium 170  
NT1 indium 103  
NT1 indium 104  
NT1 indium 105  
NT1 indium 106  
NT1 indium 107  
NT1 indium 108  
NT1 indium 109  
NT1 indium 111  
NT1 indium 112  
NT1 indium 114  
NT1 indium 116  
NT1 indium 117  
NT1 indium 118  
NT1 indium 119  
NT1 indium 121  
NT1 iodine 115  
NT1 iodine 117  
NT1 iodine 118  
NT1 iodine 119  
NT1 iodine 120  
NT1 iodine 122  
NT1 iodine 128  
NT1 iodine 130  
NT1 iodine 134  
NT1 iodine 136  
NT1 iridium 179  
NT1 iridium 180  
NT1 iridium 181  
NT1 iridium 182  
NT1 iridium 183  
NT1 iridium 192  
NT1 iridium 197  
NT1 iridium 199  
NT1 iron 53  
NT1 iron 61  
NT1 iron 62

NT1 krypton 74  
NT1 krypton 75  
NT1 krypton 89  
NT1 lanthanum 125  
NT1 lanthanum 126  
NT1 lanthanum 127  
NT1 lanthanum 128  
NT1 lanthanum 129  
NT1 lanthanum 130  
NT1 lanthanum 131  
NT1 lanthanum 132  
NT1 lanthanum 134  
NT1 lanthanum 136  
NT1 lanthanum 143  
NT1 lawrencium 260  
NT1 lead 190  
NT1 lead 191  
NT1 lead 192  
NT1 lead 193  
NT1 lead 194  
NT1 lead 195  
NT1 lead 196  
NT1 lead 197  
NT1 lead 199  
NT1 lead 201  
NT1 lead 211  
NT1 lead 213  
NT1 lead 214  
NT1 lutetium 161  
NT1 lutetium 162  
NT1 lutetium 163  
NT1 lutetium 164  
NT1 lutetium 165  
NT1 lutetium 166  
NT1 lutetium 167  
NT1 lutetium 168  
NT1 lutetium 169  
NT1 lutetium 171  
NT1 lutetium 172  
NT1 lutetium 178  
NT1 lutetium 180  
NT1 lutetium 181  
NT1 lutetium 182  
NT1 lutetium 187  
NT1 magnesium 27  
NT1 manganese 50  
NT1 manganese 51  
NT1 manganese 52  
NT1 manganese 57  
NT1 manganese 58  
NT1 mendeleevium 251  
NT1 mendeleevium 252  
NT1 mendeleevium 253  
NT1 mendeleevium 254  
NT1 mendeleevium 255  
NT1 mendeleevium 258  
NT1 mercury 186  
NT1 mercury 187  
NT1 mercury 188  
NT1 mercury 189  
NT1 mercury 190  
NT1 mercury 191  
NT1 mercury 199  
NT1 mercury 205  
NT1 mercury 206  
NT1 molybdenum 101  
NT1 molybdenum 102  
NT1 molybdenum 103  
NT1 molybdenum 104  
NT1 molybdenum 88  
NT1 molybdenum 89  
NT1 molybdenum 91  
NT1 neodymium 132  
NT1 neodymium 133  
NT1 neodymium 134  
NT1 neodymium 135  
NT1 neodymium 136  
NT1 neodymium 137  
NT1 neodymium 139

NTI neodymium 141	NTI praseodymium 149	NTI samarium 158
NTI neodymium 151	NTI promethium 136	NTI scandium 49
NTI neodymium 152	NTI promethium 137	NTI scandium 50
NTI neon 24	NTI promethium 138	NTI selenium 68
NTI neptunium 229	NTI promethium 139	NTI selenium 70
NTI neptunium 230	NTI promethium 140	NTI selenium 71
NTI neptunium 231	NTI promethium 141	NTI selenium 73
NTI neptunium 232	NTI promethium 152	NTI selenium 79
NTI neptunium 233	NTI promethium 153	NTI selenium 81
NTI neptunium 240	NTI promethium 154	NTI selenium 83
NTI neptunium 241	NTI protactinium 226	NTI selenium 84
NTI neptunium 242	NTI protactinium 227	NTI silver 100
NTI neptunium 243	NTI protactinium 234	NTI silver 101
NTI neptunium 244	NTI protactinium 235	NTI silver 102
NTI niobium 85	NTI protactinium 236	NTI silver 104
NTI niobium 86	NTI protactinium 237	NTI silver 105
NTI niobium 87	NTI protactinium 238	NTI silver 106
NTI niobium 88	NTI radium 213	NTI silver 108
NTI niobium 94	NTI radium 227	NTI silver 111
NTI niobium 98	NTI radium 229	NTI silver 113
NTI niobium 99	NTI radium 231	NTI silver 115
NTI nitrogen 13	NTI radium 232	NTI silver 116
NTI nobelium 253	NTI radon 204	NTI silver 117
NTI nobelium 255	NTI radon 205	NTI silver 99
NTI nobelium 259	NTI radon 206	NTI strontium 78
NTI osmium 175	NTI radon 207	NTI strontium 79
NTI osmium 176	NTI radon 208	NTI strontium 81
NTI osmium 177	NTI radon 209	NTI strontium 93
NTI osmium 178	NTI radon 212	NTI strontium 94
NTI osmium 179	NTI radon 221	NTI sulfur 37
NTI osmium 180	NTI radon 223	NTI tantalum 167
NTI osmium 181	NTI radon 225	NTI tantalum 168
NTI osmium 190	NTI radon 226	NTI tantalum 169
NTI osmium 195	NTI rhenium 173	NTI tantalum 170
NTI osmium 196	NTI rhenium 174	NTI tantalum 171
NTI oxygen 14	NTI rhenium 175	NTI tantalum 172
NTI oxygen 15	NTI rhenium 176	NTI tantalum 178
NTI palladium 109	NTI rhenium 177	NTI tantalum 182
NTI palladium 111	NTI rhenium 178	NTI tantalum 185
NTI palladium 113	NTI rhenium 179	NTI tantalum 186
NTI palladium 114	NTI rhenium 180	NTI technetium 101
NTI palladium 96	NTI rhenium 188	NTI technetium 102
NTI palladium 97	NTI rhenium 190	NTI technetium 104
NTI palladium 98	NTI rhenium 191	NTI technetium 105
NTI palladium 99	NTI rhodium 100	NTI technetium 91
NTI phosphorus 30	NTI rhodium 103	NTI technetium 92
NTI platinum 182	NTI rhodium 104	NTI technetium 93
NTI platinum 183	NTI rhodium 107	NTI technetium 94
NTI platinum 184	NTI rhodium 108	NTI technetium 96
NTI platinum 185	NTI rhodium 109	NTI tellurium 112
NTI platinum 199	NTI rhodium 94	NTI tellurium 113
NTI platinum 201	NTI rhodium 95	NTI tellurium 114
NTI plutonium 232	NTI rhodium 96	NTI tellurium 115
NTI plutonium 233	NTI rhodium 97	NTI tellurium 131
NTI plutonium 235	NTI rhodium 98	NTI tellurium 133
NTI polonium 198	NTI rubidium 77	NTI tellurium 134
NTI polonium 199	NTI rubidium 78	NTI terbium 147
NTI polonium 200	NTI rubidium 79	NTI terbium 148
NTI polonium 201	NTI rubidium 81	NTI terbium 149
NTI polonium 202	NTI rubidium 82	NTI terbium 150
NTI polonium 203	NTI rubidium 84	NTI terbium 152
NTI polonium 218	NTI rubidium 86	NTI terbium 162
NTI potassium 38	NTI rubidium 88	NTI terbium 163
NTI potassium 44	NTI rubidium 89	NTI terbium 164
NTI potassium 45	NTI rubidium 90	NTI terbium 165
NTI potassium 46	NTI ruthenium 107	NTI thallium 188
NTI praseodymium 131	NTI ruthenium 108	NTI thallium 189
NTI praseodymium 132	NTI ruthenium 92	NTI thallium 190
NTI praseodymium 133	NTI ruthenium 93	NTI thallium 191
NTI praseodymium 134	NTI ruthenium 94	NTI thallium 192
NTI praseodymium 135	NTI rutherfordium 261	NTI thallium 193
NTI praseodymium 136	NTI rutherfordium 263	NTI thallium 194
NTI praseodymium 138	NTI samarium 138	NTI thallium 206
NTI praseodymium 140	NTI samarium 139	NTI thallium 207
NTI praseodymium 142	NTI samarium 140	NTI thallium 208
NTI praseodymium 144	NTI samarium 141	NTI thallium 209
NTI praseodymium 146	NTI samarium 143	NTI thallium 210
NTI praseodymium 147	NTI samarium 155	NTI thorium 225
NTI praseodymium 148	NTI samarium 157	NTI thorium 226



**NT1** thorium 233  
**NT1** thorium 235  
**NT1** thorium 236  
**NT1** thorium 237  
**NT1** thulium 156  
**NT1** thulium 157  
**NT1** thulium 158  
**NT1** thulium 159  
**NT1** thulium 160  
**NT1** thulium 161  
**NT1** thulium 162  
**NT1** thulium 164  
**NT1** thulium 174  
**NT1** thulium 175  
**NT1** thulium 176  
**NT1** thulium 177  
**NT1** tin 106  
**NT1** tin 107  
**NT1** tin 108  
**NT1** tin 109  
**NT1** tin 111  
**NT1** tin 113  
**NT1** tin 123  
**NT1** tin 125  
**NT1** tin 127  
**NT1** tin 128  
**NT1** tin 129  
**NT1** tin 130  
**NT1** tin 131  
**NT1** titanium 51  
**NT1** titanium 52  
**NT1** tungsten 170  
**NT1** tungsten 171  
**NT1** tungsten 172  
**NT1** tungsten 173  
**NT1** tungsten 174  
**NT1** tungsten 175  
**NT1** tungsten 179  
**NT1** tungsten 185  
**NT1** tungsten 189  
**NT1** tungsten 190  
**NT1** uranium 227  
**NT1** uranium 228  
**NT1** uranium 229  
**NT1** uranium 235  
**NT1** uranium 239  
**NT1** uranium 241  
**NT1** uranium 242  
**NT1** vanadium 47  
**NT1** vanadium 52  
**NT1** vanadium 53  
**NT1** xenon 117  
**NT1** xenon 118  
**NT1** xenon 119  
**NT1** xenon 120  
**NT1** xenon 121  
**NT1** xenon 127  
**NT1** xenon 135  
**NT1** xenon 137  
**NT1** xenon 138  
**NT1** ytterbium 158  
**NT1** ytterbium 159  
**NT1** ytterbium 160  
**NT1** ytterbium 161  
**NT1** ytterbium 162  
**NT1** ytterbium 163  
**NT1** ytterbium 165  
**NT1** ytterbium 167  
**NT1** ytterbium 179  
**NT1** ytterbium 180  
**NT1** yttrium 81  
**NT1** yttrium 83  
**NT1** yttrium 84  
**NT1** yttrium 86  
**NT1** yttrium 91  
**NT1** yttrium 94  
**NT1** yttrium 95  
**NT1** zinc 60  
**NT1** zinc 61

**NT1** zinc 63  
**NT1** zinc 69  
**NT1** zinc 71  
**NT1** zinc 74  
**NT1** zirconium 81  
**NT1** zirconium 82  
**NT1** zirconium 84  
**NT1** zirconium 85  
**NT1** zirconium 89  
*RT* half-life  
*RT* lifetime

**MIOCENE EPOCH**

*INIS: 1992-04-14; ETDE: 1977-10-20*

\*BT1 tertiary period  
*RT* geologic history

**miq**

*USE* maximum inhalation quantity

**MIR ORBITAL STATION**

*INIS: 1989-10-30; ETDE: 1989-11-21*

BT1 satellites  
 \*BT1 space vehicles

**MIR REACTOR**

*UF* *melekess-mir reactor*

\*BT1 experimental reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**mirror advanced reactor study**

*INIS: 2000-04-12; ETDE: 1983-06-20*

*USE* mars reactor

**mirror fusion test facility**

*INIS: 2000-04-12; ETDE: 1977-10-19*

*USE* mff devices

**MIRROR NUCLEI**

BT1 nuclei  
*RT* isobaric nuclei

**MIRROR RATIO**

*INIS: 1975-08-20; ETDE: 1975-10-01*

BT1 dimensionless numbers  
*RT* magnetic fields  
*RT* magnetic mirror configurations  
*RT* magnetic mirrors

**MIRRORS**

*1975-10-09*

(From January 1975 until March 1996 FLAT  
MIRRORS was a valid ETDE descriptor.)

*UF* *flat mirrors*

**NT1** electrostatic mirrors  
**NT1** fresnel reflectors  
**NT1** heat mirrors  
**NT1** laser mirrors  
*RT* optical properties  
*RT* optical systems  
*RT* parabolic reflectors  
*RT* reflection  
*RT* solar concentrators  
*RT* solar reflectors  
*RT* telescopes

**mirrors (magnetic)**

*USE* magnetic mirrors

**MIS SOLAR CELLS**

*INIS: 2000-04-12; ETDE: 1981-07-18*

*UF* *metal-insulator-semiconductor solar cells*

\*BT1 solar cells  
*RT* mis transistors  
*RT* schottky barrier solar cells

**MIS TRANSISTORS**

*1997-06-17*

*Metal Insulator Silicon transistors.*

\*BT1 transistors  
*RT* mis solar cells

**MISCH METAL**

\*BT1 cerium base alloys  
 \*BT1 lanthanum alloys

**miscibility**

*INIS: 2000-04-12; ETDE: 1979-07-18*

*USE* solubility

**miscible flooding**

*INIS: 1992-01-15; ETDE: 1976-03-11*

*USE* miscible-phase displacement

**MISCIBLE-PHASE DISPLACEMENT**

*INIS: 1992-01-15; ETDE: 1976-03-11*

*UF* *miscible flooding*  
 BT1 fluid injection  
**NT1** carbon dioxide injection  
**NT1** microemulsion flooding  
*RT* enhanced recovery  
*RT* petroleum

**MISCO METAL**

*2000-04-12*

\*BT1 chromium alloys  
 \*BT1 iron alloys  
 \*BT1 nickel alloys

**misgurnus**

*USE* fishes

**MISONIDAZOLE**

*INIS: 1981-08-06; ETDE: 1981-01-09*

*UF* *2-nitroimidazole*

*UF* *ro-07-0582*

\*BT1 alcohols  
 \*BT1 antineoplastic drugs  
 \*BT1 imidazoles  
 \*BT1 nitro compounds  
 \*BT1 radiosensitizers  
*RT* chemotherapy

**MISSILE LAUNCHING SITES**

*INIS: 2000-04-12; ETDE: 1980-01-15*

*RT* launching  
*RT* missiles  
*RT* rockets

**MISSILE PROTECTION**

*1975-10-23*

*RT* impact shock  
*RT* reactor accidents  
*RT* reactor protection systems  
*RT* reactor safety

**MISSILE SILOS**

*2000-04-12*

*RT* missiles  
*RT* national defense

**MISSILES**

**NT1** cruise missiles  
*RT* ammunition  
*RT* flight testing  
*RT* launching  
*RT* missile launching sites  
*RT* missile silos  
*RT* propulsion systems  
*RT* reentry  
*RT* reentry vehicles  
*RT* rockets  
*RT* thrusters

**MISSING MASS**

*The unobserved mass resulting from neutral particles in a particle-particle interaction.*

BT1 mass

RT missing-mass spectra  
RT missing-mass spectrometers  
RT neutral particles

### MISSING-MASS SPECTRA

BT1 spectra  
RT abc effect  
RT missing mass  
RT missing-mass spectrometers

### MISSING-MASS SPECTROMETERS

\*BT1 spectrometers  
RT missing mass  
RT missing-mass spectra  
RT neutral particles

### mission analysis

INIS: 2000-04-12; ETDE: 1979-12-10

*A systematic approach to evaluation of the potential feasible applications of a generic new technology. See also MANAGEMENT.* (Prior to March 1997 this was a valid ETDE descriptor.)

USE feasibility studies  
USE technology utilization

### MISSISSIPPI

\*BT1 usa  
RT chattanooga formation  
RT mississippi river  
RT us gulf coast

### MISSISSIPPI RIVER

\*BT1 rivers  
RT arkansas  
RT illinois  
RT iowa  
RT kentucky  
RT louisiana  
RT minnesota  
RT mississippi  
RT mississippi river basin  
RT missouri  
RT tennessee  
RT wisconsin

### MISSISSIPPI RIVER BASIN

INIS: 1992-01-14; ETDE: 1977-04-12

BT1 watersheds  
RT mississippi river

### mississippian period

INIS: 1992-05-22; ETDE: 1977-10-19

(Prior to April 1990 this was a valid ETDE descriptor.)

USE carboniferous period

### MISSOURI

\*BT1 usa  
RT chattanooga formation  
RT kansas city plant  
RT mississippi river  
RT missouri river  
RT missouri river basin  
RT white river basin

### MISSOURI RIVER

1997-06-17

\*BT1 rivers  
RT iowa  
RT kansas  
RT missouri  
RT missouri river basin  
RT montana  
RT nebraska  
RT north dakota  
RT south dakota

### MISSOURI RIVER BASIN

INIS: 2000-04-12; ETDE: 1977-06-24

BT1 watersheds  
RT missouri

RT missouri river

### missouri school of mines reactor

INIS: 1993-11-09; ETDE: 2002-03-28

USE umrr reactor

### missouri university/columbia research reactor

1993-11-09

USE murr reactor

### missouri university/rolla research reactor

1993-11-09

USE umrr reactor

### MIST EXTRACTORS

INIS: 2000-04-12; ETDE: 1977-03-08

*Devices that remove liquid mist or droplets from a gas stream via impingement, flow-direction change, velocity change, centrifugal force, filters, or coalescing packs.*

UF entrainment separators

\*BT1 extraction apparatuses

### MIST-LIFT CYCLES

INIS: 2000-04-12; ETDE: 1980-08-12

UF otec mist-lift cycle

SF beck cycle

\*BT1 lift cycles

### MIT BATES LINAC

INIS: 1977-11-21; ETDE: 1978-03-08

*Bates Electron Linear Accelerator Facility at MIT.*

UF bates linac mit

\*BT1 linear accelerators

### MITES

\*BT1 arachnids  
RT disease vectors  
RT parasites  
RT pest control

### MITIGATION

INIS: 1985-09-09; ETDE: 1983-07-20

*Abatement or diminution of something painful, injurious, severe, or calamitous.*

RT control  
RT modifications  
RT optimization  
RT pollution abatement

### MITOCHONDRIA

BT1 cell constituents  
RT cytoplasm  
RT krebs cycle  
RT subcellular distribution

### MITOGENS

INIS: 1981-10-15; ETDE: 1978-11-14

*Substances that induce cell division or stimulate cells to undergo blastogenic activity.*

NT1 erythropoietin  
NT1 growth factors  
NT2 lymphokines  
NT3 interferon

NT1 phytohemagglutinin  
RT cell division  
RT immunology  
RT response modifying factors  
RT stimulation  
RT tissue extracts

### MITOMYCIN

\*BT1 antibiotics  
\*BT1 antimetabolic drugs  
\*BT1 antineoplastic drugs

### MITOSIS

1995-01-27

UF anaphase

UF metaphase  
UF prophase  
UF telophase

BT1 cell division  
RT antimetabolic drugs  
RT centromeres  
RT chromosomes  
RT concanavalin a  
RT crossing-over  
RT human chromosomes  
RT mitotic delay  
RT mitotic index  
RT phytohemagglutinin

### MITOTIC DELAY

RT mitosis

### MITOTIC INDEX

RT mitosis

### MITR REACTOR

*Massachusetts Institute of Technology, Nuclear Research Lab., Cambridge Massachusetts, USA.*

UF massachusetts institute of technology reactor

\*BT1 enriched uranium reactors  
\*BT1 heavy water cooled reactors  
\*BT1 heavy water moderated reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

### mius (modular integrated utility systems)

INIS: 2000-04-12; ETDE: 2005-02-10

(Prior to January 2005 MIUS was a valid descriptor.)

USE modular integrated utility systems

### MIXED BED ION EXCHANGERS

\*BT1 ion exchange materials

### MIXED CARBIDE FUELS

INIS: 1982-09-21; ETDE: 1982-02-23

*Index also the specific carbides if important.*

\*BT1 nuclear fuels  
\*BT1 solid fuels  
RT plutonium carbides  
RT uranium carbides

### mixed-function oxidase systems

INIS: 2000-04-12; ETDE: 1980-01-15

(Prior to January 1981, this was a valid ETDE descriptor.)

USE mixed-function oxidases

### MIXED-FUNCTION OXIDASES

INIS: 2000-04-12; ETDE: 1981-01-30

UF mixed-function oxidase systems

\*BT1 oxygenases  
RT aryl 4-monooxygenase  
RT cytochrome oxidase  
RT cytochromes  
RT microsomes

### mixed media

USE mixed solvents

### MIXED NITRIDE FUELS

1988-10-10

*Uranium nitride mixed with plutonium nitride or other nitrides. Index other nitrides if important.*

\*BT1 nuclear fuels  
\*BT1 solid fuels  
RT ceramics  
RT plutonium nitrides  
RT uranium nitrides

**MIXED OXIDE FUEL FABRICATION PLANTS**

1994-08-12

(Until August 1994 this descriptor was spelled MIXED OXIDE FUEL PLANT.)

- UF *mixed oxide fuel plant*
- UF *uranium oxide fuel plant*
- \*BT1 fuel fabrication plants

**mixed oxide fuel plant**

INIS: 1994-08-12; ETDE: 2002-03-28

USE mixed oxide fuel fabrication plants

**MIXED OXIDE FUELS**

INIS: 1980-04-02; ETDE: 1980-05-07

Uranium dioxide mixed with other oxide(s); index also the other oxide(s) if important.

- \*BT1 nuclear fuels
- \*BT1 solid fuels
- RT ceramics

**MIXED SOLVENTS**

- UF *mixed media*
- \*BT1 mixtures
- BT1 solvents

**MIXED SPECTRUM REACTORS**UF *fast-mixed spectrum reactor*

- BT1 reactors
- NT1 acpr reactor
- NT1 br-3-vn reactor
- NT1 browns ferry-1 reactor
- NT1 browns ferry-2 reactor
- NT1 browns ferry-3 reactor
- NT1 diorit reactor
- NT1 nsrr reactor
- NT1 omre reactor
- NT1 rpt reactor

**MIXED STATE**

1994-07-01

A state of partial penetration of magnetic fields in orderly arrays of magnetic flux in vortices, usually thought of as a state of Type-II superconductivity only.

RT superconductivity

**MIXER-SETTLERS**

- \*BT1 extraction apparatuses
- RT laboratory equipment
- RT mixers
- RT mixing

**MIXERS**

INIS: 1992-09-04; ETDE: 1976-01-23

- UF *blenders*
- SF *mullers*
- \*BT1 materials handling equipment
- RT mixer-settlers

**MIXING**

Not for the concept covered by CONFIGURATION MIXING.

- UF *blending*
- RT aeration
- RT diffusion
- RT mixer-settlers
- RT mixtures
- RT solubility
- RT stirring
- RT turbulence

**mixing (genetic)**

USE hybridization

**MIXING HEAT**

- UF *heat of mixing*
- \*BT1 enthalpy
- RT solution heat

**mixing matrix (kobayashi-maskawa)**

INIS: 1984-01-18; ETDE: 2002-03-28

USE kobayashi-maskawa matrix

**MIXING RATIO**

- BT1 dimensionless numbers
- RT branching ratio
- RT decay
- RT energy-level transitions
- RT multipolarity
- RT multipoles
- RT neutrino oscillation
- RT particle production
- RT weinberg angle

**MIXTURES**

- BT1 dispersions
- NT1 binary mixtures
- NT1 homogeneous mixtures
- NT2 solutions
- NT3 aqueous solutions
- NT3 fuel solutions
- NT3 hypertonic solutions
- NT3 isotonic solutions
- NT3 leachates
- NT3 process solutions
- NT3 solid solutions
- NT1 mixed solvents
- NT1 slurries
- NT2 fuel slurries
- RT compatibility
- RT mixing

**ML-1 REACTOR**

2000-04-12

INEEL, Idaho Falls, Idaho, USA. Shut down in 1964.

- UF *mobile low power plant-1*
- \*BT1 enriched uranium reactors
- \*BT1 mobile reactors
- \*BT1 nitrogen cooled reactors
- \*BT1 power reactors
- \*BT1 water moderated reactors

**mm-0011**

INIS: 2000-04-12; ETDE: 1978-12-20

USE nickel base alloys

**mms**

INIS: 1985-07-22; ETDE: 1976-05-17

(Prior to August 1985 this was a valid descriptor.)

USE methyl methanesulfonate

**mn-21**

INIS: 2000-04-12; ETDE: 1978-12-20

USE alloy-mn-21

**MNR REACTOR**

McMaster Univ., Hamilton, Ontario, Canada.

- UF *mc master university nuclear reactor*
- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 pool type reactors
- \*BT1 research reactors

**mns reactor**

1991-02-11

(Prior to March 2004 this was a valid descriptor.)

USE mnsr-ciae reactor

**MNSR-CIAE REACTOR**

2004-03-15

CIAE, Beijing, China.

(Prior to March 2004 the descriptor MNS REACTOR was used for this reactor.)

- UF *beijing miniature neutron source reactor*
- UF *mns reactor*
- \*BT1 mnsr type reactors

RT *ciae***MNSR-SD REACTOR**

2004-03-15

Research Institute of Geological Science, Shandong, China.

- UF *shandong miniature neutron source reactor*
- \*BT1 mnsr type reactors

**MNSR-SH REACTOR**

2004-03-15

Shanghai Testing and Research Institute, China.

- UF *shanghai miniature neutron source reactor*
- \*BT1 mnsr type reactors

**MNSR-SZ REACTOR**

2004-03-15

Shenzhen Univ., China.

- UF *shenzhen miniature neutron source reactor*
- \*BT1 mnsr type reactors

**MNSR TYPE REACTORS**

2004-03-15

UF *miniature neutron source reactors*

- \*BT1 enriched uranium reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors
- NT1 gharr-1 reactor
- NT1 mnsr-ciae reactor
- NT1 mnsr-sd reactor
- NT1 mnsr-sh reactor
- NT1 mnsr-sz reactor
- NT1 niir-1 reactor
- NT1 parr-2 reactor
- NT1 srr-1 reactor

**mnu**

INIS: 2000-04-12; ETDE: 1980-07-23

USE methyl nitrosourea

**mo-re 1**

INIS: 2000-04-12; ETDE: 1979-08-09

USE alloy-mo-re-1

**mo-re 2**

INIS: 2000-04-12; ETDE: 1979-10-23

USE alloy-mo-re-2

**MOATA REACTOR**

Australian Atomic Energy Commission Research Establishment, Lucas Heights, Australia.

- UF *australian moata reactor*
- \*BT1 argonaut type reactors
- \*BT1 research reactors
- \*BT1 training reactors

**MOBIL M-GASOLINE PROCESS**

INIS: 2000-04-12; ETDE: 1976-12-16

One-step catalytic conversion of methanol to gasoline. Crude methanol is produced from coal gasification synthesis gas or natural gas.

- RT gasoline
- RT gasoline plants
- RT synthetic fuels
- RT synthetic petroleum

**MOBILE HOMES**

2000-04-12

- \*BT1 residential buildings
- RT households
- RT houses
- RT prefabricated buildings
- RT residential sector
- RT vehicles

**mobile low power plant-1**

2000-04-12

USE ml-1 reactor

**MOBILE POLLUTANT SOURCES**

INIS: 1992-03-09; ETDE: 1978-04-05

Use for general articles when sources are not named. See also specific mobile sources e.g., AUTOMOBILES.

BT1 pollution sources  
RT air pollution  
RT point pollutant sources  
RT pollution  
RT stationary pollutant sources

**MOBILE REACTORS**

Designed to be movable while in operation.

SF 710 reactor

BT1 reactors  
NT1 mh-1a reactor  
NT1 ml-1 reactor  
NT1 slc prototype reactor  
NT1 space power reactors  
NT2 snap reactors  
NT3 snap 10 reactor  
NT4 sl0fs-1 reactor  
NT4 sl0fs-3 reactor  
NT4 sl0fs-4 reactor  
NT3 snap 2 reactor  
NT4 s2ds reactor  
NT3 snap 50 reactor  
NT3 snap 8 reactor  
NT4 s8dr reactor  
NT4 s8er reactor  
NT2 space propulsion reactors  
NT3 kiwi reactors  
NT4 kiwi-tnt reactor  
NT3 nerva reactor  
NT3 nrx-a1 reactor  
NT3 nrx-a2 reactor  
NT3 nrx-a3 reactor  
NT3 nrx-a4-est reactor  
NT3 nrx-a5 reactor  
NT3 nrx-a6 reactor  
NT3 nrx-a7 reactor  
NT3 pewee-1 reactor  
NT3 pewee-2 reactor  
NT3 pewee-3 reactor  
NT3 pewee-4 reactor  
NT3 phoebus-1a reactor  
NT3 phoebus-1b reactor  
NT3 phoebus-2a reactor  
NT3 rover reactors  
NT3 twmr reactor  
NT3 xe-2 reactor  
RT thermionic reactors

**MOBILITY**

For material movement use TRANSPORT.

NT1 carrier mobility  
NT1 hole mobility  
NT1 particle mobility  
NT2 electron mobility  
NT2 ion mobility

**MOCHOVCE-1 REACTOR**

INIS: 1984-10-19; ETDE: 1984-11-06

\*BT1 wwer type reactors

**MOCHOVCE-2 REACTOR**

1994-09-30

\*BT1 wwer type reactors

**MOCHOVCE RADIOACTIVE WASTE REPOSITORY**

2002-12-17

UF national radioactive waste repository in mochovce

UF republikove uloziste radioaktivnych odpadov v mochovciach

\*BT1 radioactive waste facilities

**MOCKUP**

BT1 structural models  
NT1 phantoms  
RT biological models  
RT functional models  
RT mathematical models  
RT microcosms  
RT pilot plants  
RT scale models  
RT simulators  
RT test facilities

**MOCTEZUMITE**

2000-04-12

\*BT1 oxide minerals  
\*BT1 uranium minerals  
RT lead oxides  
RT tellurium oxides  
RT uranium oxides

**MODE CONTROL**

INIS: 1984-05-28; ETDE: 1978-03-08

BT1 control  
RT lasers  
RT mode selection  
RT oscillation modes  
RT wave propagation

**MODE CONVERSION**

INIS: 1991-03-22; ETDE: 1991-04-09

Transformation of an electromagnetic wave from one mode of propagation to another.

RT oscillation modes  
RT plasma heating  
RT resonance  
RT wave propagation

**MODE LOCKING**

RT lasers  
RT mode selection

**MODE RATIONAL SURFACES**

INIS: 1991-03-22; ETDE: 1991-04-09

UF rational surfaces  
\*BT1 magnetic surfaces  
RT stellarators  
RT tokamak devices

**MODE SELECTION**

INIS: 1992-08-11; ETDE: 1978-02-14

BT1 tuning  
RT frequency selection  
RT lasers  
RT mode control  
RT mode locking  
RT oscillation modes

**modeling**

INIS: 1976-09-06; ETDE: 2002-03-28

USE simulation

**models (atomic)**

USE atomic models

**models (biological)**

USE biological models

**models (cosmological)**

USE cosmological models

**models (crystal)**

USE crystal models

**models (flow)**

USE flow models

**models (functional)**

USE functional models

**models (linear absorption)**

INIS: 1976-02-11; ETDE: 2002-03-28

USE linear absorption models

**models (mathematical)**

USE mathematical models

**models (nuclear)**

USE nuclear models

**models (optical)**

USE optical models

**models (organizational)**

INIS: 1975-11-07; ETDE: 1975-12-16

USE organizational models

**models (particle)**

USE particle models

**models (plasma)**

USE plasma simulation

**models (scale)**

INIS: 1980-07-24; ETDE: 1980-08-12

USE scale models

**models (shell)**

USE shell models

**models (star)**

INIS: 1975-10-23; ETDE: 1975-12-16

USE star models

**models (statistical)**

USE statistical models

**models (structural)**

USE structural models

**MODERATELY ENRICHED****URANIUM**

5 - 80 per cent.

\*BT1 enriched uranium

**MODERATING DETECTORS**

\*BT1 neutron detectors  
NT1 bonner sphere detectors  
NT1 long counters  
RT activation detectors  
RT bf3 counters

**MODERATING RATIO**

BT1 dimensionless numbers  
RT moderators

**MODERATOR-FUEL RATIO**

BT1 dimensionless numbers  
RT moderators

**MODERATOR PELLETS**

INIS: 1975-09-01; ETDE: 1975-10-01

BT1 pellets  
RT moderators  
RT pelletizing

**MODERATORS**

See also descriptors for specific moderator materials.

NT1 hydride moderators  
NT1 hydroxide moderators  
NT1 organic moderators  
RT beryllium  
RT beryllium alloys  
RT beryllium compounds  
RT beryllium oxides  
RT configuration control  
RT graphite  
RT heavy water  
RT moderating ratio  
RT moderator-fuel ratio  
RT moderator pellets  
RT neutron slowing-down theory

RT reactor cores  
RT reactor materials  
RT sigma piles  
RT thermal columns  
RT water

**modes (optical)**

USE optical modes

**modes (oscillation)**

USE oscillation modes

**modes (single-particle)**

USE single-particle modes

**MODIFICATIONS**

1985-01-17

RT construction  
RT corrections  
RT maintenance  
RT mitigation  
RT optimization  
RT retrofitting  
RT specifications  
RT variations

**MODIFIED IN-SITU PROCESSES**

2000-04-12

*Combination of some underground mining and surface retorting with in-situ retorting techniques.*

NTI integrated in-situ process  
NTI oxy modified in-situ process  
NTI rise  
RT in-situ processing  
RT retorting  
RT underground mining

**modified surface delta potential**

INIS: 1975-09-09; ETDE: 1976-05-19

USE surface delta potential

**modular cogeneration power plants**

INIS: 2000-04-12; ETDE: 1985-05-31

SEE dual-purpose power plants

**modular construction**

INIS: 1983-09-06; ETDE: 1979-10-23

USE modular structures

**MODULAR INTEGRATED UTILITY SYSTEMS**

INIS: 2000-04-12; ETDE: 2005-02-10

*Small plant located within housing developments or communities to provide all utility services.*

(Prior to January 2005 MIUS was used for this concept.)

UF *mius (modular integrated utility systems)*  
\*BT1 integrated energy utility systems  
RT central heating plants  
RT ices program  
RT public utilities  
RT total energy systems

**MODULAR STRUCTURES**

INIS: 1983-09-06; ETDE: 1979-10-23

UF *modular construction*  
RT camac system  
RT construction  
RT construction industry  
RT distributed structures  
RT energy facilities  
RT fabrication  
RT industrial plants  
RT mechanical structures  
RT nuclear instrument modules

**MODULATION**

NTI frequency modulation  
RT periodicity

RT variations

**MOELLER SCATTERING**

\*BT1 elastic scattering  
RT bhabha scattering  
RT quantum electrodynamics

**MOESSBAUER EFFECT**

UF *moessbauer spectroscopy*  
RT recoilless fraction  
RT recoils  
RT resonance fluorescence  
RT structural chemical analysis

**MOESSBAUER SPECTROMETERS**

\*BT1 gamma spectrometers

**moessbauer spectroscopy**

INIS: 1984-04-04; ETDE: 2002-03-28

USE moessbauer effect

**MOHAWK RIVER**

\*BT1 rivers  
RT new york

**mohole project**

1996-07-18

(Until July 1996 this was a valid descriptor.)

SEE earth crust  
SEE earth mantle

**MOISTURE**

1993-03-09

(Until March 1993, this concept was indexed by HUMIDITY.)

SF *water content*  
NTI humidity  
RT moisture gages  
RT water

**MOISTURE GAGES**

(From September 1976 till March 1997

TENSIOMETERS was a valid ETDE descriptor.)

UF *neutron moisture meters*  
SF *tensiometers*  
BT1 measuring instruments  
RT humidity  
RT hygrometry  
RT moisture  
RT neutron probes  
RT radiometric gages

**moisture separators**

INIS: 2000-04-12; ETDE: 1975-08-19

USE vapor separators

**MOLASSES**

INIS: 1992-05-12; ETDE: 1977-04-12

UF *syrups*  
BT1 food  
RT animal feeds  
RT saccharides  
RT sugar cane

**moldavites**

USE tektites

**MOLDING**

UF *molding materials*  
BT1 fabrication  
NT1 briquetting  
NT1 pelletizing  
RT casting  
RT casting molds  
RT materials working

**molding materials**

INIS: 2000-04-12; ETDE: 1976-11-17

(Prior to March 1997 this was a valid ETDE descriptor.)

USE materials  
USE molding

**MOLDOVA**

INIS: 1997-08-20; ETDE: 1993-04-08  
(Until January 1993, this was indexed by USSR.)

SF *soviet union*  
SF *union of soviet socialist republics*  
SF *ussr*  
\*BT1 eastern europe  
RT black sea

**molds**

USE fungi

**molds (casting)**

USE casting molds

**MOLECULAR BEAM EPITAXY**

INIS: 1994-06-27; ETDE: 1982-10-05

*Epitaxy induced by molecular beams for the production of thin films.*

UF *mbe*  
\*BT1 epitaxy  
RT crystal growth

**MOLECULAR BEAMS**

BT1 beams  
RT molecules

**MOLECULAR BIOLOGY**

RT biological effects  
RT biological evolution  
RT biological pathways  
RT biophysics  
RT biosynthesis  
RT biotechnology  
RT dna sequencing  
RT genetic engineering  
RT metabolism  
RT molecules  
RT physiology  
RT radiobiology  
RT strand breaks

**MOLECULAR CLUSTERS**

INIS: 1992-10-19; ETDE: 1992-11-04

RT cluster beams

**MOLECULAR CRYSTALS**

BT1 crystals

**MOLECULAR DYNAMICS METHOD**

1996-04-16

BT1 calculation methods  
RT computerized simulation  
RT many-body problem

**molecular fluorescence spectroscopy**

2000-04-12

USE fluorescence spectroscopy

**MOLECULAR ION BEAM****INJECTION**

\*BT1 ion beam injection

**MOLECULAR IONS**

INIS: 1975-11-11; ETDE: 1975-12-16

*Coordinate the above descriptor with a descriptor for the specific ion.*

UF *ions (molecular)*  
\*BT1 ions  
NTI hydrogen ions 2 plus  
NTI hydrogen ions 3 plus  
NTI oxonium ions

**MOLECULAR MODELS**

BT1 mathematical models  
NT1 thermodynamic molecular model

**MOLECULAR ORBITAL METHOD**

BT1 calculation methods  
RT electronic structure  
RT lcao method  
RT molecular structure

**molecular orbital model**

USE atomic models  
USE molecules

**MOLECULAR SIEVE PROCESS**

2000-04-12

*Process to dehydrate and to remove carbon dioxide and sulfur compounds from natural gas.*

\*BT1 desulfurization

**MOLECULAR SIEVES**

BT1 adsorbents  
RT adsorption

**MOLECULAR STRUCTURE**

UF structure (molecular)  
NT1 amino acid sequence  
RT biological repair  
RT bond lengths  
RT configuration interaction  
RT conformational changes  
RT dissociation energy  
RT dna sequencing  
RT helical configuration  
RT interatomic distances  
RT lcao method  
RT matrix isolation  
RT molecular orbital method  
RT molecules  
RT nucleic acid denaturation  
RT optical activity  
RT photoelectron spectroscopy  
RT photoreactivation  
RT protein denaturation  
RT protein structure  
RT stereochemistry  
RT structural chemical analysis  
RT structure-activity relationships

**MOLECULAR WEIGHT**

RT cryoscopy  
RT depolymerization  
RT molecules  
RT osmosis  
RT polymerization  
RT weight

**MOLECULE COLLISIONS**

BT1 collisions  
NT1 atom-molecule collisions  
NT1 electron-molecule collisions  
NT1 ion-molecule collisions  
NT1 molecule-molecule collisions  
NT1 photon-molecule collisions  
NT1 positron-molecule collisions

**MOLECULE-MOLECULE COLLISIONS**

\*BT1 molecule collisions

**MOLECULES**

UF molecular orbital model  
UF polyatomic molecules  
NT1 mesic molecules  
NT2 muonic molecules  
RT jahn-teller effect  
RT kihara potential  
RT matrix isolation  
RT micellar systems  
RT molecular beams  
RT molecular biology  
RT molecular structure  
RT molecular weight  
RT van der waals forces

**MOLIERE THEORY**

RT multiple scattering

**MOLLIER DIAGRAMS**

1999-08-18

\*BT1 diagrams  
RT steam  
RT thermodynamics

**MOLLUSCS**

UF gasteropods  
BT1 aquatic organisms  
\*BT1 invertebrates  
NT1 clams  
NT1 mussels  
NT1 oysters  
NT1 snails  
RT benthos

**MOLNIYA SATELLITES**

BT1 satellites

**MOLTEN CARBONATE FUEL CELLS**

INIS: 1992-02-21; ETDE: 1980-06-23

(Prior to June 1980 this information was indexed by the descriptors HIGH-TEMPERATURE FUEL CELLS + MOLTEN SALTS + CARBONATES.)

\*BT1 high-temperature fuel cells

**molten carbonate process**

INIS: 2000-04-12; ETDE: 1976-08-04

*Process for removal of sulfur dioxide from flue gas using ternary eutectic alkali metal carbonate melt; reduction of sulfite and sulfate reaction products with petroleum coke; and reaction of resulting sulfide with steam and carbon dioxide to regenerate carbonate and form hydrogen sulfide, which can be converted to sulfur.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**MOLTEN IRON PUREGAS PROCESS**

INIS: 2000-04-12; ETDE: 1985-06-04

*Gasification of coal using oxygen, top and bottom blowing, and a liquid iron bath to produce very pure synthesis gas.*

\*BT1 coal gasification

**MOLTEN METAL-WATER REACTIONS**

INIS: 1977-09-06; ETDE: 1977-04-12

*Combined physical-chemical explosions produced by sudden contact between high temperature metals and water.*

UF liquid metal-water reactions  
UF liquid sodium-water reactions  
UF metal-water reactions  
UF sodium-water reactions  
UF sodium(liquid)-water reactions  
RT chemical reactions  
RT explosions  
RT fuel-coolant interactions  
RT reactor accidents  
RT reactor safety

**MOLTEN SALT COAL GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1975-10-01

*Crushed and dried coal in preheated steam-oxygen stream is fed with sodium carbonate into gasifier. Raw gas (330 btu/scf) is shifted, purified, methanated, and dehydrated.*

UF atomics international molten salt process  
UF molten salt process (atomic international)  
SF rockwell international process  
\*BT1 coal gasification  
RT molten salt waste gasification process

**molten salt coolants**

USE molten salts

**MOLTEN SALT COOLED REACTORS**

\*BT1 molten salt reactors  
NT1 msre reactor

**MOLTEN SALT FUELED REACTORS**

\*BT1 fluid fueled reactors  
\*BT1 molten salt reactors

**MOLTEN SALT FUELS**

UF fused salt fuels  
\*BT1 liquid fuels  
\*BT1 nuclear fuels  
RT molten salt reactors

**molten salt process (atomic international)**

INIS: 2000-04-12; ETDE: 1975-10-01

USE molten salt coal gasification process

**molten salt process (kellogg)**

2000-04-12

USE kellogg process

**molten salt reactor experiment**

USE msre reactor

**MOLTEN SALT REACTORS**

BT1 reactors  
NT1 molten salt cooled reactors  
NT2 msre reactor  
NT1 molten salt fueled reactors  
RT metal transfer process  
RT molten salt fuels  
RT reductive extraction

**MOLTEN SALT WASTE GASIFICATION PROCESS**

INIS: 1996-04-18; ETDE: 1981-07-18

SF rockwell international process

\*BT1 waste processing  
RT molten salt coal gasification process  
RT molten salts

**MOLTEN SALTS**

UF fused salts  
UF molten salt coolants  
BT1 salts  
NT1 flibe  
RT coolants  
RT molten salt waste gasification process

**MOLTING**

INIS: 1981-07-06; ETDE: 1977-09-19

*The shedding of an outer covering as a part of a periodic process of growth.*

UF moulting  
RT animal growth

**MOLTOX OXYGEN PROCESS**

INIS: 2000-04-12; ETDE: 1986-11-20

*Air products and chemicals process for oxygen production.*

RT oxygen plants

**moluranite**

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE oxide minerals  
USE uranium minerals

**MOLYBDATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

\*BT1 molybdenum compounds  
BT1 oxygen compounds  
RT molybdenum oxides

**MOLYBDENUM**

- \*BT1 refractory metals
- \*BT1 transition elements

**MOLYBDENUM 100**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 stable isotopes

**MOLYBDENUM 100 REACTIONS**

*INIS: 1984-06-21; ETDE: 1984-08-20*  
 \*BT1 heavy ion reactions

**MOLYBDENUM 100 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**MOLYBDENUM 101**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 molybdenum isotopes

**MOLYBDENUM 102**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 molybdenum isotopes

**MOLYBDENUM 103**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 molybdenum isotopes

**MOLYBDENUM 104**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 molybdenum isotopes

**MOLYBDENUM 105**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 seconds living radioisotopes

**MOLYBDENUM 106**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 seconds living radioisotopes

**MOLYBDENUM 107**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 seconds living radioisotopes

**MOLYBDENUM 108**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 seconds living radioisotopes

**MOLYBDENUM 109**

*1998-01-27*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 molybdenum isotopes

**MOLYBDENUM 110**

*2004-02-16*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 molybdenum isotopes  
 \*BT1 seconds living radioisotopes

**MOLYBDENUM 84**

*INIS: 1991-03-22; ETDE: 1991-04-09*  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 molybdenum isotopes

**MOLYBDENUM 85**

*INIS: 1978-04-21; ETDE: 1978-07-06*  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 molybdenum isotopes

**MOLYBDENUM 86**

*INIS: 1994-12-22; ETDE: 1995-01-03*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 molybdenum isotopes  
 \*BT1 seconds living radioisotopes

**MOLYBDENUM 87**

*1977-11-02*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 molybdenum isotopes  
 \*BT1 seconds living radioisotopes

**MOLYBDENUM 88**

*INIS: 1976-11-08; ETDE: 1976-09-15*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 molybdenum isotopes

**MOLYBDENUM 89**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 molybdenum isotopes

**MOLYBDENUM 90**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 molybdenum isotopes

**MOLYBDENUM 91**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 molybdenum isotopes

**MOLYBDENUM 92**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 molybdenum isotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 stable isotopes

**MOLYBDENUM 92 REACTIONS**

*1983-10-14*  
 \*BT1 heavy ion reactions

**MOLYBDENUM 92 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**MOLYBDENUM 93**

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 molybdenum isotopes
- \*BT1 years living radioisotopes

**MOLYBDENUM 94**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 molybdenum isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 stable isotopes

**MOLYBDENUM 94 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**MOLYBDENUM 95**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 stable isotopes

**MOLYBDENUM 95 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**MOLYBDENUM 96**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 stable isotopes

**MOLYBDENUM 96 REACTIONS**

*1989-12-08*  
 \*BT1 heavy ion reactions

**MOLYBDENUM 96 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**MOLYBDENUM 97**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 stable isotopes

**MOLYBDENUM 97 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**MOLYBDENUM 98**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes
- \*BT1 stable isotopes

**MOLYBDENUM 98 REACTIONS**

*INIS: 1987-05-26; ETDE: 1988-12-05*  
 \*BT1 heavy ion reactions

**MOLYBDENUM 98 TARGET**

*ETDE: 1976-07-09*  
 BT1 targets

**MOLYBDENUM 99**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 molybdenum isotopes

*RT* radioisotope generators

**MOLYBDENUM ADDITIONS**

1996-11-13

*Alloys containing not more than 1% Mo are listed here.*

\*BT1 molybdenum alloys

NT1 alloy-ti90al6  
 NT1 steel-cr12moniv  
 NT1 steel-cr12mov  
 NT2 alloy-ht-9  
 NT1 steel-cr17mo  
 NT2 stainless steel-440  
 NT1 steel-cr2mo  
 NT2 steel-astm-a542  
 NT1 steel-cr2moninb  
 NT1 steel-cr2mov  
 NT1 steel-cr2nimov  
 NT1 steel-cr5mo  
 NT1 steel-cr9mo  
 NT1 steel-cralnimo  
 NT1 steel-crmo  
 NT1 steel-crmov  
 NT1 steel-mncumo  
 NT2 steel-astm-a537  
 NT1 steel-mnmo  
 NT2 steel-astm-a302  
 NT1 steel-mnnimo  
 NT2 steel-astm-a533-b  
 NT1 steel-mnnimov  
 NT1 steel-ni3crmo  
 NT2 steel-astm-a543  
 NT1 steel-ni3crmov  
 NT1 steel-nicrmo  
 NT1 steel-nimocr

**MOLYBDENUM ALLOYS**

1996-11-13

*Alloys containing more than 1% Mo.*

*UF alloy-ehp-496*  
*UF alloy-ehp-567*  
*UF alloy-n55m20v25*  
*UF alloy-n65m20v15*  
*UF alloy-ni65mo16cr15w4*  
*UF alloy-ni80fe16mo4*  
*UF refractaloy*  
*UF stainless steel-44ln*  
*UF steel-cr26ni5mo-1*  
 \*BT1 transition element alloys  
 NT1 alloy-b-1900  
 NT1 alloy-co43cr20fe18ni13w3  
 NT2 havar  
 NT1 alloy-d-979  
 NT1 alloy-in-102  
 NT1 alloy-khn50mbvyu  
 NT1 alloy-mar-m246  
 NT1 alloy-mn-21  
 NT1 alloy-mp35n  
 NT1 alloy-n-10m  
 NT1 alloy-n-9m  
 NT1 alloy-ni43fe30cr22mo3  
 NT2 incoloy 825  
 NT1 alloy-ni43fe33cr16mo3  
 NT2 nimonic pe16  
 NT1 alloy-ni49cr22fe18mo9  
 NT2 hastelloy x  
 NT1 alloy-ni50co20cr15al5mo5  
 NT2 nimonic 105  
 NT1 alloy-ni50cr22fe18mo9  
 NT2 hastelloy xr  
 NT1 alloy-ni50mo32cr15si3  
 NT1 alloy-ni53cr19fe19nb5mo3  
 NT2 inconel 718  
 NT1 alloy-ni54cr22co13mo9  
 NT2 inconel 617  
 NT1 alloy-ni54mo17cr16fe6w4  
 NT2 hastelloy c  
 NT1 alloy-ni55col7cr15mo5al4ti4  
 NT2 astroloy  
 NT1 alloy-ni55cr19co11mo10ti3

NT2 rene 41  
 NT1 alloy-ni58cr20co14mo4ti3  
 NT2 waspaloy  
 NT1 alloy-ni60co15cr10al6ti5mo3  
 NT2 alloy-in-100  
 NT1 alloy-ni61cr16co9al3ti3w3  
 NT2 alloy-in-738  
 NT1 alloy-ni61cr22mo9nb4fe3  
 NT2 inconel 625  
 NT1 alloy-ni62cr16mo15fe3  
 NT2 hastelloy s  
 NT1 alloy-ni65cr25mo10  
 NT2 nimonic 86  
 NT1 alloy-ni70mo17cr7fe5  
 NT2 hastelloy n  
 NT2 inor-8  
 NT1 alloy-ni74cr13al6mo4  
 NT2 inconel 713c  
 NT1 alloy-ni75cr12al6mo5  
 NT2 inconel 713lc  
 NT1 alloy-ni79fe16mo4  
 NT1 alloy-nx-188  
 NT1 alloy-ra-333  
 NT1 alloy-s-590  
 NT1 alloy-s-816  
 NT1 alloy-ti78cr11mo7al3  
 NT1 alloy-ti88mo8al3  
 NT1 alloy-ti89al6mo3  
 NT1 alloy-ti90al6mo3  
 NT1 alloy-ti90mo7al2  
 NT1 alloy-ti91al4mo3  
 NT1 alloy-ti91al5cr2  
 NT1 alloy-v-36  
 NT1 chlorimet  
 NT1 chromium-molybdenum steels  
 NT2 chromium-nickel-molybdenum steels  
 NT3 alloy-m-813  
 NT3 steel-cr11ni10mo2ti-1  
 NT3 steel-cr15ni15motib  
 NT3 steel-cr16ni13monbv  
 NT3 steel-cr16ni15mo3nb  
 NT3 steel-cr16ni16monb  
 NT3 steel-cr16ni8mo2  
 NT4 stainless steel-16-8-2  
 NT3 steel-cr16ni9mo2  
 NT3 steel-cr17ni12mo3  
 NT4 stainless steel-316  
 NT3 steel-cr17ni12mo3-1  
 NT4 stainless steel-316l  
 NT4 stainless steel-zcnd17-13  
 NT3 steel-cr17ni12monb  
 NT3 steel-cr17ni13mo2ti  
 NT3 steel-cr17ni13mo3ti  
 NT3 steel-ni26cr15ti2mvalb  
 NT4 alloy-a-286  
 NT1 discaloy  
 NT1 illium  
 NT1 incoloy 901  
 NT1 molybdenum additions  
 NT2 alloy-ti90al6  
 NT2 steel-cr12moniv  
 NT2 steel-cr12mov  
 NT3 alloy-ht-9  
 NT2 steel-cr17mo  
 NT3 stainless steel-440  
 NT2 steel-cr2mo  
 NT3 steel-astm-a542  
 NT2 steel-cr2moninb  
 NT2 steel-cr2mov  
 NT2 steel-cr2nimov  
 NT2 steel-cr5mo  
 NT2 steel-cr9mo  
 NT2 steel-cralnimo  
 NT2 steel-crmo  
 NT2 steel-crmov  
 NT2 steel-mncumo  
 NT3 steel-astm-a537  
 NT2 steel-mnmo

NT3 steel-astm-a302  
 NT2 steel-mnnimo  
 NT3 steel-astm-a533-b  
 NT2 steel-mnnimov  
 NT2 steel-ni3crmo  
 NT3 steel-astm-a543  
 NT2 steel-ni3crmov  
 NT2 steel-nicrmo  
 NT2 steel-nimocr  
 NT1 molybdenum base alloys  
 NT2 alloy-mo99  
 NT3 alloy-tzm  
 NT3 alloy-zm-2a  
 NT2 alloy-mo99b  
 NT1 ni-o-nel  
 NT1 nimonic 115  
 NT1 rene-100  
 NT1 rene 80  
 NT1 rene 95  
 NT1 sicromo 9m  
 NT1 stainless steel m-50  
 NT1 steel-cd-4mcu  
 NT1 steel-cr10mo2  
 NT1 steel-cr17ni4mo3  
 NT1 steel-cr9monbv  
 NT1 steel-in-787  
 NT1 timken alloys  
 NT1 tribaloy 400  
 NT1 tribaloy 800  
 NT1 udimet alloys  
 NT2 alloy-ni53co19cr15mo5al4ti3  
 NT3 udimet 700  
 NT2 udimet 500  
 NT1 vitallium

**MOLYBDENUM ARSENIDES**

*INIS: 2000-04-12; ETDE: 1976-03-11*

\*BT1 arsenides  
 \*BT1 molybdenum compounds

**MOLYBDENUM BASE ALLOYS**

*SF alloy-tzc*  
 \*BT1 molybdenum alloys  
 NT1 alloy-mo99  
 NT2 alloy-tzm  
 NT2 alloy-zm-2a  
 NT1 alloy-mo99b

**MOLYBDENUM BLUE**

\*BT1 molybdenum oxides  
 BT1 pigments

**MOLYBDENUM BORIDES**

\*BT1 borides  
 \*BT1 molybdenum compounds

**MOLYBDENUM BROMIDES**

\*BT1 bromides  
 \*BT1 molybdenum compounds

**MOLYBDENUM CARBIDES**

\*BT1 carbides  
 \*BT1 molybdenum compounds

**MOLYBDENUM CARBONATES**

*INIS: 1979-01-18; ETDE: 1979-02-23*

\*BT1 carbonates  
 \*BT1 molybdenum compounds

**MOLYBDENUM CHLORIDES**

\*BT1 chlorides  
 \*BT1 molybdenum compounds

**MOLYBDENUM COMPLEXES**

\*BT1 transition element complexes

**MOLYBDENUM COMPOUNDS**

1997-06-17

*UF molybdenum nitrates*  
 BT1 refractory metal compounds  
 BT1 transition element compounds  
 NT1 molybdates



NT1 molybdenum arsenides  
 NT1 molybdenum borides  
 NT1 molybdenum bromides  
 NT1 molybdenum carbides  
 NT1 molybdenum carbonates  
 NT1 molybdenum chlorides  
 NT1 molybdenum fluorides  
 NT1 molybdenum hydrides  
 NT1 molybdenum hydroxides  
 NT1 molybdenum iodides  
 NT1 molybdenum nitrides  
 NT1 molybdenum oxides  
 NT2 molybdenum blue  
 NT1 molybdenum phosphates  
 NT1 molybdenum phosphides  
 NT1 molybdenum selenides  
 NT1 molybdenum silicates  
 NT1 molybdenum silicides  
 NT1 molybdenum sulfates  
 NT1 molybdenum sulfides  
 NT1 molybdenum tellurides  
 NT1 molybdic acid  
 NT1 molybdophosphates  
 NT1 molybdophosphoric acid

**MOLYBDENUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 molybdenum compounds

**MOLYBDENUM HYDRIDES**

\*BT1 hydrides  
 \*BT1 molybdenum compounds

**MOLYBDENUM HYDROXIDES**

ETDE: 1975-08-19  
 \*BT1 hydroxides  
 \*BT1 molybdenum compounds

**MOLYBDENUM IODIDES**

\*BT1 iodides  
 \*BT1 molybdenum compounds

**MOLYBDENUM IONS**

\*BT1 ions

**MOLYBDENUM ISOTOPES**

1999-07-16  
 BT1 isotopes  
 NT1 molybdenum 100  
 NT1 molybdenum 101  
 NT1 molybdenum 102  
 NT1 molybdenum 103  
 NT1 molybdenum 104  
 NT1 molybdenum 105  
 NT1 molybdenum 106  
 NT1 molybdenum 107  
 NT1 molybdenum 108  
 NT1 molybdenum 109  
 NT1 molybdenum 110  
 NT1 molybdenum 84  
 NT1 molybdenum 85  
 NT1 molybdenum 86  
 NT1 molybdenum 87  
 NT1 molybdenum 88  
 NT1 molybdenum 89  
 NT1 molybdenum 90  
 NT1 molybdenum 91  
 NT1 molybdenum 92  
 NT1 molybdenum 93  
 NT1 molybdenum 94  
 NT1 molybdenum 95  
 NT1 molybdenum 96  
 NT1 molybdenum 97  
 NT1 molybdenum 98  
 NT1 molybdenum 99

**molybdenum nitrates**

INIS: 1996-07-18; ETDE: 1976-12-16  
 (Until July 1996 this was a valid descriptor.)  
 USE molybdenum compounds  
 USE nitrates

**MOLYBDENUM NITRIDES**

\*BT1 molybdenum compounds  
 \*BT1 nitrides

**MOLYBDENUM ORES**

BT1 ores

**MOLYBDENUM OXIDES**

1996-07-23  
 \*BT1 molybdenum compounds  
 \*BT1 oxides  
 NT1 molybdenum blue  
 RT molybdates  
 RT molybdophosphoric acid  
 RT oxide minerals

**MOLYBDENUM PHOSPHATES**

\*BT1 molybdenum compounds  
 \*BT1 phosphates

**MOLYBDENUM PHOSPHIDES**

INIS: 1978-07-03; ETDE: 1976-07-07  
 \*BT1 molybdenum compounds  
 \*BT1 phosphides

**MOLYBDENUM SELENIDES**

\*BT1 molybdenum compounds  
 \*BT1 selenides

**MOLYBDENUM SILICATES**

\*BT1 molybdenum compounds  
 \*BT1 silicates

**MOLYBDENUM SILICIDES**

1975-10-09  
 \*BT1 molybdenum compounds  
 \*BT1 silicides

**MOLYBDENUM SULFATES**

\*BT1 molybdenum compounds  
 \*BT1 sulfates

**MOLYBDENUM SULFIDES**

\*BT1 molybdenum compounds  
 \*BT1 sulfides

**MOLYBDENUM TELLURIDES**

\*BT1 molybdenum compounds  
 \*BT1 tellurides

**MOLYBDIC ACID**

2000-04-12  
 \*BT1 inorganic acids  
 \*BT1 molybdenum compounds

**MOLYBDOPHOSPHATES**

INIS: 1985-09-09; ETDE: 1985-10-11  
*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

\*BT1 molybdenum compounds  
 BT1 oxygen compounds  
 BT1 phosphorus compounds  
 RT phosphates

**MOLYBDOPHOSPHORIC ACID**

1980-05-14  
 UF phosphomolybdic acid  
 \*BT1 inorganic acids  
 \*BT1 molybdenum compounds  
 BT1 oxygen compounds  
 BT1 phosphorus compounds  
 RT heteropolyanions  
 RT molybdenum oxides  
 RT phosphoric acid

**MOMENT OF INERTIA**

UF inertia  
 RT backbending  
 RT kinetic energy  
 RT mass  
 RT mechanics

RT rotation  
 RT vmi model  
 RT yrast states

**MOMENTS METHOD**

BT1 calculation methods  
 RT plasma fluid equations  
 RT transport theory

**momentum (angular)**

USE angular momentum

**momentum (linear)**

USE linear momentum

**momentum (longitudinal)**

USE longitudinal momentum

**momentum (transverse)**

USE transverse momentum

**MOMENTUM COOLING**

INIS: 1982-04-13; ETDE: 1982-05-07  
*Gradual reduction of emittance of coasting charged-particle beams by feedback sensing and correcting statistical fluctuations of beam momentum.*

UF stochastic momentum cooling  
 \*BT1 stochastic cooling

**MOMENTUM TRANSFER**

INIS: 1978-02-23; ETDE: 1978-11-14  
 UF transfer (momentum)  
 NT1 angular momentum transfer  
 NT1 four momentum transfer  
 NT1 linear momentum transfer

**MOMOTOMBO GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1983-07-20  
 BT1 geothermal fields  
 RT nicaragua

**MONACO**

1995-04-03  
 BT1 developed countries  
 \*BT1 western europe

**MONACO MARINE ENVIRONMENT LABORATORY**

INIS: 2004-06-11; ETDE: 2004-07-08  
 (Prior to June 2004 ILMR was used for this research institute.)  
 UF iaea marine environment laboratory,  
 monaco  
 UF ilm  
 \*BT1 iaea

**MONAZITES**

UF cheralite  
 \*BT1 phosphate minerals  
 \*BT1 thorium minerals  
 RT thorium phosphates

**MONEL**

\*BT1 nickel base alloys  
 NT1 alloy-ni66cu32  
 NT2 monel 400

**MONEL 400**

INIS: 1993-10-03; ETDE: 1978-12-20  
 \*BT1 alloy-ni66cu32

**monel r-405**

INIS: 1983-11-07; ETDE: 2002-03-28  
 USE alloy-ni66cu32

**mongolia**

INIS: 1995-01-24; ETDE: 2002-06-13  
 USE mongolian peoples republic

**MONGOLIAN PEOPLES REPUBLIC**

INIS: 1995-01-24; ETDE: 1979-09-27

UF *mongolia*BT1 *asia*RT *centrally planned economies***mongolism**USE *downs syndrome***mongrels**

INIS: 2000-04-12; ETDE: 1981-06-15

USE *dogs***monilia**USE *candida***monique event**

1994-10-14

(Prior to September 1994, this was a valid ETDE descriptor.)

USE *contained explosions*USE *nuclear explosions***monitor codes**

INIS: 1988-11-16; ETDE: 1983-08-25

USE *executive codes***MONITORED RETRIEVABLE STORAGE**

INIS: 1994-07-01; ETDE: 1984-02-10

*The long-term isolation of spent fuel and high-level radioactive waste in facilities that permit continuous monitoring, ready retrieval and periodic maintenance as necessary to assure containment of radioactive materials.*\*BT1 *radioactive waste storage*\*BT1 *spent fuel storage*RT *high-level radioactive wastes*RT *spent fuels***MONITORING***Use of a more specific term is recommended.*UF *monitoring network*SF *surveillance*NT1 *acoustic monitoring*NT1 *aerial monitoring*NT1 *air pollution monitoring*NT2 *aerosol monitoring*NT1 *beam monitoring*NT1 *loose parts monitoring*NT1 *radiation monitoring*NT2 *personnel monitoring*NT1 *temperature monitoring*RT *control*RT *detection*RT *reactor monitoring systems*RT *water pollution monitors***monitoring (beam)**

2000-04-12

USE *beam monitoring***monitoring (radiation)**

2000-04-12

USE *radiation monitoring***monitoring network**USE *monitoring***MONITORS**

INIS: 1984-12-04; ETDE: 1980-11-08

*Use of a more specific term is recommended.*BT1 *measuring instruments*NT1 *air pollution monitors*NT1 *beam monitors*NT2 *beam scanners*NT2 *faraday cups*NT2 *magnetoinduction sensors*NT1 *failed element monitors*NT1 *radiation monitors*NT2 *exposure ratemeters*NT2 *liquid contamination monitors*NT2 *neutron monitors*NT2 *surface contamination monitors*NT2 *survey monitors*NT1 *water pollution monitors*RT *reactor monitoring systems***monitors (air pollution)**

INIS: 1991-09-18; ETDE: 1976-07-07

USE *air pollution monitors***monitors (beam)**

INIS: 2000-04-12; ETDE: 1983-11-09

USE *beam monitors***monitors (failed elements)**

2000-04-12

USE *failed element monitors***monitors (radiation)**

INIS: 2000-04-12; ETDE: 1983-11-09

USE *radiation monitors***monitors (reactor)**

2000-03-28

USE *reactor control systems***monitors (water pollution)**

INIS: 1992-01-15; ETDE: 2002-03-28

USE *water pollution monitors***MONJU REACTOR**JNC, *Tsuruga, Fukui, Japan.*UF *fast prototype reactor japan*UF *japan prototype fast reactor*UF *jpfr reactor*UF *prototype fast reactor japan*\*BT1 *lmfbr type reactors*\*BT1 *power reactors*\*BT1 *sodium cooled reactors***MONKEYS**\*BT1 *primates*NT1 *baboons*NT1 *macacus*RT *apes***monobutyl phosphate**

INIS: 1988-08-02; ETDE: 1982-10-05

USE *mbp***MONOCARBOXYLIC ACIDS**

1996-10-23

UF *toglycamic acid*\*BT1 *carboxylic acids*NT1 *abscisic acid*NT1 *acetic acid*NT1 *acrylic acid*NT1 *arachidonic acid*NT1 *benzoic acid*NT1 *butyric acid*NT1 *chlorambucil*NT1 *cinnamic acid*NT1 *crotonic acid*NT1 *decanoic acid*NT1 *dodecanoic acid*NT1 *eicosanoic acid*NT1 *formic acid*NT1 *glycolic acid*NT1 *heptanoic acid*NT1 *hexadecanoic acid*NT1 *hexanoic acid*NT1 *isobutyric acid*NT1 *isovaleric acid*NT1 *linoleic acid*NT1 *linolenic acid*NT1 *methacrylic acid*NT1 *nicotinic acid*NT1 *nonanoic acid*NT1 *octadecanoic acid*NT1 *octanoic acid*NT1 *oleic acid*NT1 *pethidine*NT1 *pivalic acid*NT1 *propionic acid*NT1 *sorbic acid*NT1 *tetradecanoic acid*NT1 *uronic acids*NT1 *valeric acid***monochloroethylene**

INIS: 1992-03-17; ETDE: 1984-05-08

USE *vinyl chloride***MONOCHROMATIC RADIATION**

INIS: 1978-02-23; ETDE: 1978-04-28

\*BT1 *electromagnetic radiation*RT *laser radiation*RT *visible radiation***MONOCHROMATORS**RT *beam analyzers*RT *beam optics*RT *spectrometers***MONOCLINIC LATTICES**\*BT1 *crystal lattices***MONOCLONAL ANTIBODIES**

INIS: 1982-09-21; ETDE: 1982-01-21

BT1 *antibodies*RT *clone cells*RT *hybridomas*RT *radioimmunoscintigraphy*RT *radioimmunotherapy***monocotyledons**

INIS: 1991-12-16; ETDE: 1988-12-21

USE *liliopsida***MONOCRYSTALS**UF *single crystals*BT1 *crystals*NT1 *whiskers*RT *dendritic web growth method*RT *heat exchanger method*RT *verneuil method***MONOCYTES**\*BT1 *leukocytes***monododecylphosphoric acid**USE *mdpa***MONOMERS**NT1 *vinyl monomers*RT *dimers*RT *polymerization*RT *polymers***MONONGAHELA RIVER BASIN**

INIS: 1992-01-14; ETDE: 1977-07-23

BT1 *watersheds*RT *pennsylvania*RT *west virginia***MONOPOLES**NT1 *magnetic monopoles*RT *multipoles***MONOPOLIES**

INIS: 1993-02-19; ETDE: 1978-03-09

*Exclusive control of the supply of goods or services by groups or individuals.*RT *antitrust laws*RT *cartels*RT *cooperatives*RT *market*RT *trade***MONORAILS**

INIS: 2000-04-12; ETDE: 1980-11-08

BT1 *railways*RT *rail transport*

**MONOSACCHARIDES**

1996-01-24

- \*BT1 saccharides
- NT1 erythritol
- NT1 hexoses
  - NT2 fructose
  - NT2 galactose
  - NT2 glucose
  - NT2 hexosamines
    - NT3 glucosamine
  - NT2 mannose
  - NT2 sorbose
- NT1 inositols
  - NT2 inositol
- NT1 pentoses
  - NT2 arabinose
  - NT2 deoxyribose
  - NT2 ribose
  - NT2 ribulose
  - NT2 xylose
- NT1 sorbitol
  - RT gluconic acid

**MONOTECTICS**

- RT eutectics
- RT phase diagrams

**MONOTECTOIDS**

- RT eutectoids
- RT phase diagrams

**monsanto system**

INIS: 2000-04-12; ETDE: 1976-01-23

- USE landgard pyrolysis system

**MONSOONS**

INIS: 1992-03-31; ETDE: 1986-07-08

- BT1 storms
- RT hurricanes
- RT rain

**MONTAGUE-1 REACTOR**

Northeast Nuclear Energy Co., Montague, Massachusetts, USA. Canceled in 1980 before construction began.

- \*BT1 bwr type reactors

**MONTAGUE-2 REACTOR**

Northeast Nuclear Energy Co., Montague, Massachusetts, USA. Canceled in 1980 before construction began.

- \*BT1 bwr type reactors

**MONTALTO DI CASTRO-1 REACTOR**

INIS: 1985-03-15; ETDE: 1985-04-09

Latium, Italy.

- UF alto lazio-1 reactor
- UF enel-6 reactor

- \*BT1 bwr type reactors

**MONTALTO DI CASTRO-2 REACTOR**

INIS: 1985-03-15; ETDE: 1985-04-09

Latium, Italy.

- UF alto lazio-2 reactor
- UF enel-8 reactor

- \*BT1 bwr type reactors

**montan waxes**

INIS: 2000-04-12; ETDE: 1977-06-24

- USE waxes

**MONTANA**

- \*BT1 usa
- NT1 powder river basin
  - RT missouri river
  - RT western us overthrust belt
  - RT williston basin
  - RT yellowstone national park

**MONTE AMIATA GEOTHERMAL FIELD**

2000-04-12

- BT1 geothermal fields
- RT italy

**MONTE CARLO METHOD**

- BT1 calculation methods
- RT fault tree analysis
- RT neutron transport theory
- RT probability
- RT randomness
- RT stochastic processes
- RT transport theory

**montecuccolino rb-1 reactor**

- USE rb-1 reactor

**montecuccolino rb-2 reactor**

- USE rb-2 reactor

**montecuccolino rb-3 reactor**

- USE rb-3 reactor

**MONTHLY VARIATIONS**

INIS: 1979-09-18; ETDE: 1978-04-06

- BT1 variations

**MONTICELLO REACTOR**

Nuclear Management Co., LLC, Monticello, Minnesota, USA.

UF northern states monticello reactor

- \*BT1 bwr type reactors

**MONTMORILLONITE**

Clay minerals.

UF hectorite

- \*BT1 clays
- \*BT1 inorganic ion exchangers
- RT bentonite

**montreal university slowpoke reactor**

INIS: 1993-11-09; ETDE: 2002-03-28

- USE slowpoke-montreal reactor

**MONTROSEITE**

2000-04-12

- \*BT1 uranium minerals
- RT sandstones

**MOON**

- BT1 satellites
- RT apollo project
- RT lunar atmosphere
- RT lunar materials

**MOORINGS**

INIS: 2000-04-12; ETDE: 1976-08-04

- RT deep water oil terminals
- RT harbors

**MORAINES**

- BT1 geologic deposits

**morbidity**

INIS: 2000-04-12; ETDE: 1981-07-06

- USE disease incidence

**MORDENITE**

1993-03-10

A zeolite mineral.

- \*BT1 zeolites

**MORGANTOWN ENERGY TECHNOLOGY CENTER**

INIS: 1993-06-07; ETDE: 1980-09-05

- \*BT1 us doe

**MORIN**

- BT1 dyes
- \*BT1 flavones
- \*BT1 polyphenols
- BT1 reagents

**MOROCCAN ORGANIZATIONS**

2004-03-31

- BT1 national organizations

**MOROCCO**

- BT1 africa
- BT1 arab countries
- BT1 developing countries

**MORPHINE**

1999-01-25

- \*BT1 alkaloids
- \*BT1 opium
- NT1 thebaine
  - RT codeine
  - RT heroin
  - RT papaver somniferum

**MORPHOGENESIS**

INIS: 1996-04-30; ETDE: 1996-05-03

- RT morphology
- RT ontogenesis
- RT organs
- RT shape

**MORPHOLINES**

- \*BT1 amines
- \*BT1 ethers
- \*BT1 heterocyclic compounds
- \*BT1 organic nitrogen compounds

**MORPHOLOGICAL CHANGES**

- NT1 ultrastructural changes
  - RT animal tissues
  - RT biological effects
  - RT microscopy
  - RT morphology
  - RT plant breeding

**MORPHOLOGY**

INIS: 1996-04-30; ETDE: 1978-01-23

Study of structure or form.

- RT configuration
- RT crystal structure
- RT morphogenesis
- RT morphological changes
- RT shape
- RT structural models

**morris plant**

INIS: 2000-04-12; ETDE: 1978-09-13

- USE midwest fuel recovery plant

**MORRISON RULE**

An empirical rule for pomeron exchange.

- RT exchange interactions
- RT parity
- RT particle interactions
- RT pomeranchuk particles
- RT spin

**MORSE POTENTIAL**

- BT1 potentials
- RT interatomic forces

**MORSLEBEN SALT MINE**

INIS: 1992-02-04; ETDE: 1991-11-25

- \*BT1 radioactive waste facilities
  - RT intermediate-level radioactive wastes
  - RT low-level radioactive wastes
  - RT salt caverns
  - RT salt deposits
  - RT underground disposal

**MORTALITY**

- RT death
- RT lethal irradiation
- RT life span
- RT supralethal irradiation
- RT survival curves
- RT time dependence

**MORTARS**

- RT building materials  
 RT cements  
 RT concretes  
 RT grouting

**MOS SOLAR CELLS**

- INIS: 1992-05-29; ETDE: 1981-07-18  
 UF metal oxide-semiconductor solar cells  
 \*BT1 solar cells

**MOS TRANSISTORS**

- Metal Oxide Silicon transistors.  
 \*BT1 transistors  
 NT1 mosfet

**MOSAICISM**

- NT1 chimeras  
 NT2 radiation chimeras  
 NT1 parabiosis  
 RT genetic effects  
 RT mutations

**moscow irt-2000 reactor**

- INIS: 1984-07-20; ETDE: 2002-03-28  
 USE irt-2000 moscow reactor

**moscow research reactor**

- 2000-04-12  
 USE mr reactor

**moscow wwr-s reactor**

- INIS: 1984-06-21; ETDE: 2002-03-28  
 USE wwr-s-moscow reactor

**MOSFET**

- Metal Oxide Silicon Field Effect Transistors.  
 \*BT1 field effect transistors  
 \*BT1 mos transistors

**MOSHINSKY TRANSFORMATION**

- 2000-04-12  
 Coefficients for transforming wave functions between laboratory and center-of-mass systems on the basis of the harmonic oscillator.  
 \*BT1 orthogonal transformations  
 \*BT1 quantum operators

**MOSQUITOES**

- UF aedes  
 UF anopheles  
 \*BT1 diptera  
 RT malaria

**MOSSES**

- 1986-03-04  
 \*BT1 bryophyta

**motels**

- INIS: 2000-04-12; ETDE: 1979-12-17  
 USE hotels

**MOTHS**

- \*BT1 lepidoptera  
 NT1 bollworm  
 NT1 codling moth  
 NT1 lymantria dispar  
 NT1 rice stem borers  
 NT1 silkworm

**MOTION**

- NT1 ground motion  
 NT1 proper motion  
 NT1 rotation  
 RT angular momentum  
 RT brownian movement  
 RT guiding-center approximation  
 RT kinetic energy  
 RT kinetics  
 RT linear momentum  
 RT trajectories

- RT velocity

**MOTION DETECTION SYSTEMS**

- INIS: 1999-01-25; ETDE: 1979-07-24  
 BT1 alarm systems  
 RT detection  
 RT intrusion detection systems  
 RT nuclear materials diversion  
 RT physical protection devices  
 RT safeguards  
 RT security

**motor inns**

- INIS: 2000-04-12; ETDE: 1979-12-17  
 USE hotels

**MOTOR VEHICLE ACCIDENTS**

- BT1 accidents  
 RT road transport  
 RT vehicles

**MOTOR VEHICLE OPERATORS**

- INIS: 1993-02-09; ETDE: 1980-03-04  
 BT1 personnel  
 RT automobiles  
 RT occupants  
 RT operation  
 RT vehicles

**motor vehicles**

- ETDE: 2002-03-28  
 USE vehicles

**MOTORBOATS**

- INIS: 2000-04-12; ETDE: 1982-06-07  
 RT recreational vehicles  
 RT ships

**MOTORCYCLES**

- INIS: 2000-04-12; ETDE: 1977-06-21  
 BT1 vehicles

**MOTORS**

- 1999-07-06  
 BT1 engines  
 NT1 electric motors  
 NT2 superconducting motors  
 NT1 pneumatic motors

**MOTT SCATTERING**

- \*BT1 elastic scattering

**mottelson-nilsson model**

- USE nilsson-mottelson model

**moulting**

- INIS: 1981-07-06; ETDE: 1981-08-04  
 USE molting

**MOUND LABORATORY**

- \*BT1 us aec  
 \*BT1 us doe  
 \*BT1 us erda  
 RT ohio

**MOUNTAINS**

- 1996-06-26  
 (Prior to June 1996 CARRIZO MOUNTAINS was a valid ETDE descriptor.)  
 UF carrizo mountains  
 NT1 alps  
 NT1 andes  
 NT1 appalachian mountains  
 NT2 adirondack mountains  
 NT1 appennines  
 NT1 cascade mountains  
 NT2 mt baker  
 NT2 mt hood  
 NT2 mt st helens  
 NT1 colorado plateau  
 NT1 himalayayas  
 NT1 jemez mountains  
 NT1 rocky mountains

- NT1 san bernardino mountains  
 NT1 sierra nevada colorado  
 NT1 urals  
 NT1 witwatersrand  
 NT1 yucca mountain  
 RT complex terrain  
 RT ice caps  
 RT orogenesis  
 RT valleys

**mouth**

- USE oral cavity

**MOVING-BOUNDARY CONDITIONS**

- BT1 boundary conditions

**MOVING-BURDEN PROCESS**

- 2000-04-12  
 A three-vessel fluidized bed process for the gasification of coal.  
 \*BT1 coal gasification

**MOVING COIL MAGNETOMETERS**

- \*BT1 magnetometers

**MOZAMBIQUE**

- BT1 africa  
 BT1 developing countries

**mp tandem accelerator**

- INIS: 1976-06-23; ETDE: 2002-03-28  
 USE crnl mp tandem accelerator

**mp35n**

- INIS: 2000-04-12; ETDE: 1979-01-30  
 USE alloy-mp35n

**mpa**

- USE maximum permissible activity

**mpbb**

- USE maximum permissible body burden

**mpc**

- USE maximum permissible concentration

**mpd**

- USE maximum permissible dose

**mpe**

- USE maximum permissible exposure

**MPG**

- INIS: 1981-12-23; ETDE: 1982-02-09  
 UF 2-mercaptopyrionylglycine  
 \*BT1 amino acids  
 \*BT1 radioprotective substances  
 \*BT1 thiols

**mpi**

- USE maximum permissible intake

**mpl**

- USE maximum permissible level

**mr-2 moscow reactor**

- USE rpt reactor

**MR REACTOR**

- 2000-04-12  
 UF moscow research reactor  
 \*BT1 research reactors

**mrg process**

- INIS: 2000-04-12; ETDE: 1976-01-23  
 USE sng processes

**MRR REACTOR**

- Association of Universities Inc., Upton, New York, USA.  
 UF brookhaven medical research reactor  
 UF medical research reactor, bnl  
 UF us aec mrr  
 \*BT1 enriched uranium reactors

- \*BT1 isotope production reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**MS SOLAR CELLS**

INIS: 1992-05-29; ETDE: 1981-07-18  
 UF metal-semiconductor solar cells  
 \*BT1 solar cells

**msmr reactor**

Missouri School of Mines, Rolla.  
 USE umrr reactor

**MSRE REACTOR**

ORNL, Oak Ridge, Tennessee, USA.  
 UF molten salt reactor experiment  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 graphite moderated reactors  
 \*BT1 molten salt cooled reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**MSSTF**

INIS: 2000-04-12; ETDE: 1980-11-08  
 Mid-temperature Solar System Test Facility at Sandia Laboratories which includes the subsystem test facility and the collector module test facility.  
 UF collector module test facility  
 UF midtemperature solar system test facility  
 UF subsystem test facility  
 BT1 test facilities  
 RT distributed collector power plants  
 RT sttfua

**MST DEVICE**

1994-03-15  
 Madison Symmetric Torus at the University of Wisconsin at Madison, Wisconsin, USA.  
 \*BT1 reversed-field pinch devices  
 RT reverse-field pinch

**MSU CYCLOTRONS**

Includes 56 MeV proton cyclotron and heavy ion K500 and K800 superconducting cyclotrons.  
 UF michigan state university cyclotrons  
 \*BT1 isochronous cyclotrons

**MT-1 TOKAMAK**

INIS: 1989-11-24; ETDE: 1989-12-08  
 Hungarian Academy of Sciences, Budapest, Hungary.  
 \*BT1 tokamak devices

**MT BAKER**

INIS: 1992-06-12; ETDE: 1976-08-24  
 \*BT1 cascade mountains  
 RT washington

**MT HOOD**

INIS: 2000-04-12; ETDE: 1982-09-10  
 \*BT1 cascade mountains  
 \*BT1 oregon

**MT ST HELENS**

INIS: 1992-06-12; ETDE: 1981-08-04  
 \*BT1 cascade mountains  
 RT volcanoes  
 RT washington

**mta atommagkutató intézet**

INIS: 1986-04-03; ETDE: 2002-03-28  
 USE atomki

**MTHF**

2000-04-04  
 UF methyltetrahydrofuran

- \*BT1 tetrahydrofuran

**MTR REACTOR**

INEEL, Idaho Falls, Idaho, USA. Shut down in 1970.

UF idaho materials testing reactor  
 UF materials testing reactor idaho  
 UF us aec materials testing reactor-idaho

- \*BT1 enriched uranium reactors
- \*BT1 materials testing reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**mtse devices**

2000-04-12  
 (Prior to June 1991 this was a valid ETDE descriptor.)

- USE magnetic mirrors

**MTX TOKAMAK**

1993-08-09  
 Microwave Tokamak eXperiment, Lawrence Livermore Laboratory, USA.  
 \*BT1 tokamak devices

**mu sr**

INIS: 1988-02-02; ETDE: 1986-11-20  
 USE muon spin relaxation

**MUCOPOLYSACCHARIDES**

- \*BT1 amines
- \*BT1 polysaccharides
- NT1 chitin
- NT1 chondroitin
- NT1 heparin
- NT1 hyaluronic acid
- RT glycoproteins

**MUCOPROTEINS**

- \*BT1 polysaccharides
- \*BT1 proteins
- NT1 haptoglobins
- NT1 intrinsic factor
- NT1 phytohemagglutinin
- RT chondroitin
- RT glycoproteins
- RT lysozyme

**mucosa**

- USE mucous membranes

**MUCOUS MEMBRANES**

- UF mucosa
- BT1 membranes
- NT1 conjunctiva
- RT epithelium

**MUEHLEBERG REACTOR**

Muehleberg, Bern, Switzerland.  
 UF akm muehleberg reactor  
 UF akm reactor  
 UF atomkraftwerk muehleberg  
 \*BT1 bwr type reactors

**MUELHEIM-KAERLICH REACTOR**

ETDE: 1975-09-11  
 Muehlheimkaerlich, Rheinlandpfalz, Federal Republic of Germany.  
 \*BT1 pwr type reactors

**muenster event**

INIS: 2000-04-12; ETDE: 1977-06-21  
 USE anvil project

**muf**

- USE material unaccounted for

**MUFFIN-TIN POTENTIAL**

- BT1 potentials
- RT electronic structure

- RT wave functions

**mulberry alloy**

1997-01-28  
 (Until October 1996 this was a valid descriptor.)  
 USE alloy-u90nb7zr3

**mule deer**

- USE deer

**mullers**

INIS: 2000-04-12; ETDE: 1976-09-14  
 Equipment used for agitating, grinding, and mixing.  
 (Prior to April 1994, this was a valid ETDE descriptor.)  
 SEE grinding machines  
 SEE mixers

**MULLITE**

- \*BT1 inorganic ion exchangers
- \*BT1 oxide minerals

**MULTI-CENTER SHELL MODEL**

INIS: 1981-11-27; ETDE: 1982-01-07  
 UF multicenter shell model  
 \*BT1 shell models

**MULTI-CHANNEL ANALYZERS**

UF multichannel analyzers  
 \*BT1 pulse analyzers

**multi-charged ions**

INIS: 1984-07-20; ETDE: 2002-03-28  
 USE multicharged ions

**MULTI-ELEMENT ANALYSIS**

1996-01-15  
 For analysis of two or more elements or isotopes of different elements.  
 UF multielement analysis  
 BT1 chemical analysis

**MULTI-ELEMENT SEPARATION**

For mutual separation of 2 or more elements or isotopes of different elements.  
 UF multielement separation  
 BT1 separation processes

**multi-level analysis**

INIS: 1984-07-20; ETDE: 2002-03-28  
 USE multilevel analysis

**MULTI-NUCLEON TRANSFER REACTIONS**

More than one nucleon transferred.  
 UF multinucleon transfer reactions  
 \*BT1 transfer reactions  
 NT1 four-nucleon transfer reactions  
 NT2 alpha-transfer reactions  
 NT1 many-nucleon transfer reactions  
 NT1 three-nucleon transfer reactions  
 NT1 two-nucleon transfer reactions

**MULTI-PARAMETER ANALYSIS**

UF multiparameter analysis  
 RT data processing  
 RT parametric analysis

**multi-particle spectrometers**

INIS: 1984-07-20; ETDE: 2002-03-28  
 USE multiparticle spectrometers

**MULTI-PHOTON PROCESSES**

INIS: 1983-03-15; ETDE: 1981-11-10  
 UF multiphoton processes  
 RT energy-level transitions  
 RT lasers  
 RT photon emission

**multi-wire ionization chambers**

INIS: 1984-07-20; ETDE: 2002-03-28  
USE multiwire ionization chambers

**multi-wire proportional chambers**

INIS: 1993-11-09; ETDE: 2002-03-28  
USE multiwire proportional chambers

**multicenter shell model**

INIS: 1984-07-20; ETDE: 2002-03-28  
USE multi-center shell model

**multichannel analyzers**

INIS: 1984-07-20; ETDE: 2002-03-28  
USE multi-channel analyzers

**MULTICHARGED IONS**

With charge 3 and above.  
UF multi-charged ions  
\*BT1 ions  
RT heavy ions  
RT light ions

**multielement analysis**

INIS: 1984-07-20; ETDE: 2002-03-28  
USE multi-element analysis

**multielement separation**

INIS: 1984-07-20; ETDE: 2002-03-28  
USE multi-element separation

**MULTIGROUP THEORY**

\*BT1 neutron transport theory  
RT group constants

**multilamellar lipid vesicles**

INIS: 2000-04-12; ETDE: 1979-07-18  
USE liposomes

**MULTILATERAL AGREEMENTS**

\*BT1 international agreements  
NT1 kyoto protocol  
NT1 rio declaration

**multilateral consultation mechanism, oecd**

INIS: 1978-08-14; ETDE: 2002-03-28  
Multilateral Consultation and surveillance Mechanism for Sea Dumping of Radioactive Waste.  
USE oecd mcmsdrw

**MULTILEVEL ANALYSIS**

UF multi-level analysis  
RT breit-wigner formula  
RT cross sections  
RT r matrix  
RT resonance

**multinational companies**

INIS: 2000-06-27; ETDE: 1978-04-05  
USE multinational enterprises

**MULTINATIONAL ENTERPRISES**

INIS: 2000-06-27; ETDE: 1978-04-05  
UF multinational companies  
UF multinational ownership  
RT international cooperation

**multinational ownership**

INIS: 2000-06-27; ETDE: 1977-12-22  
(Prior to March 1996 this was a valid ETDE descriptor.)  
USE multinational enterprises  
USE ownership

**multinucleon transfer reactions**

INIS: 1993-11-09; ETDE: 2002-03-28  
USE multi-nucleon transfer reactions

**multiparameter analysis**

INIS: 1984-07-20; ETDE: 2002-03-28  
USE multi-parameter analysis

**MULTIPARTICLE****SPECTROMETERS**

UF multi-particle spectrometers  
\*BT1 spectrometers

**MULTIPERIPHERAL MODEL**

UF diffractive dissociation  
\*BT1 peripheral models  
NT1 cluster emission model  
NT2 space-time model  
RT abfst equation

**MULTIPHASE FLOW**

INIS: 1981-08-06; ETDE: 1976-03-11  
Simultaneous flow of more than two fluid phases in the same flow channel or pipe.  
BT1 fluid flow  
RT gas flow  
RT liquid flow

**multiphoton processes**

INIS: 1984-07-20; ETDE: 2002-03-28  
USE multi-photon processes

**MULTIPLE COLLISION METHOD**

BT1 calculation methods  
RT multiple scattering

**MULTIPLE-HEARTH FURNACES**

INIS: 2000-04-12; ETDE: 1981-12-14  
BT1 furnaces

**MULTIPLE PRODUCTION**

BT1 particle production  
NT1 pionization  
RT centauro-type events  
RT charge distribution  
RT cluster emission model  
RT coherent tube model  
RT correlated-particle models  
RT limiting fragmentation  
RT multiplicity  
RT particle decay  
RT particle interactions

**MULTIPLE SCATTERING**

BT1 scattering  
RT faddeev equations  
RT glauber theory  
RT many-body problem  
RT moliere theory  
RT multiple collision method

**MULTIPLETS**

NT1 particle multiplets  
NT2 baryon decuplets  
NT2 baryon octets  
NT2 meson nonets  
NT2 meson octets  
NT1 supermultiplets  
NT1 triplets

**MULTIPLEXERS**

\*BT1 electronic equipment  
RT data transmission  
RT remote multiplexing systems

**MULTIPLICATION FACTORS**

BT1 dimensionless numbers  
RT criticality  
RT disadvantage factor  
RT fast fission factor  
RT fission neutrons  
RT resonance escape probability  
RT thermal fission factor  
RT thermal utilization

**MULTIPLICITY**

RT eigenvalues  
RT multiple production  
RT quantum numbers

**multiplier tubes**

USE electron multipliers

**MULTIPOLAR CONFIGURATIONS**

\*BT1 closed configurations  
NT1 hexapolar configurations  
NT1 octupolar configurations  
NT1 quadrupolar configurations  
RT fm devices  
RT internal ring devices  
RT lm devices

**MULTIPOLARITY**

RT mixing ratio  
RT multipole radiation  
RT multipoles

**MULTIPOLE RADIATION**

UF octupole radiation  
\*BT1 electromagnetic radiation  
RT multipolarity  
RT multipoles

**MULTIPOLE TRANSITIONS**

INIS: 1978-02-23; ETDE: 1978-04-28  
BT1 energy-level transitions  
NT1 e0-transitions  
NT1 e1-transitions  
NT1 e2-transitions  
NT1 e3-transitions  
NT1 e4-transitions  
NT1 m1-transitions  
NT1 m2-transitions  
NT1 m3-transitions  
NT1 m4-transitions

**MULTIPOLES**

NT1 dipoles  
NT2 electric dipoles  
NT2 magnetic dipoles  
NT1 hexadecapoles  
NT1 hexapoles  
NT1 octupoles  
NT1 quadrupoles  
RT mixing ratio  
RT monopoles  
RT multipolarity  
RT multipole radiation  
RT sternheimer formula

**multiprocessing**

INIS: 2000-04-12; ETDE: 1986-06-12  
USE parallel processing

**multiprocessors**

INIS: 2000-04-12; ETDE: 1985-08-08  
USE array processors

**multipurpose applied physics lattice reactor**

INIS: 1993-11-09; ETDE: 2002-03-28  
USE maple type reactors

**multipurpose vhr reactor**

INIS: 1978-01-16; ETDE: 2002-03-28  
USE vhr reactor

**MULTISPECTRAL PHOTOGRAPHY**

INIS: 1992-09-16; ETDE: 1980-04-14  
UF thematic mapping  
BT1 photography  
RT remote sensing  
RT spectroscopy

**MULTISPECTRAL SCANNERS**

*INIS: 1998-10-13; ETDE: 1980-04-14*

*Instruments for the simultaneous scanning of more than one, usually several, spectral bands of various wavelengths.*

BT1 measuring instruments  
RT spectra  
RT spectroscopy

**multisphere neutron detectors**

USE bonner sphere detectors

**multistory buildings**

2005-07-05

USE high-rise buildings

**MULTIVARIATE ANALYSIS**

*INIS: 1992-03-30; ETDE: 1981-04-17*

\*BT1 statistics  
RT correlations

**MULTIVIBRATORS**

UF schmitt trigger circuits

\*BT1 pulse circuits  
NT1 flip-flop circuits  
RT pulse generators

**multiwire drift chambers**

USE drift chambers

**MULTIWIRE IONIZATION CHAMBERS**

UF multi-wire ionization chambers  
\*BT1 ionization chambers

**MULTIWIRE PROPORTIONAL CHAMBERS**

UF charpak chambers  
UF multi-wire proportional chambers  
UF mwpc  
\*BT1 proportional counters  
NT1 drift chambers  
NT2 time projection chambers  
RT ionization chambers  
RT projection spark chambers  
RT wire spark chambers

**mungbean plants**

*INIS: 1992-05-07; ETDE: 1993-01-20*

USE vigna

**MUNGBEANS**

*INIS: 1981-08-06; ETDE: 1981-09-22*

\*BT1 beans  
BT1 seeds  
RT phaseolus  
RT vigna

**MUNICH COMPACT CYCLOTRON**

*INIS: 1983-06-01; ETDE: 1991-03-19*

(Prior to March 1991, this concept in ETDE was indexed to MUNICH CYCLOTRON.)

UF munich cyclotron  
\*BT1 isochronous cyclotrons

**munich cyclotron**

*INIS: 2000-04-12; ETDE: 1983-03-24*

(Prior to March 1991 this was a valid ETDE descriptor.)

USE munich compact cyclotron

**munich research reactor**

USE frm reactor

**munich superconducting sector cyclotron**

*INIS: 1993-11-09; ETDE: 1984-08-20*

USE munich suse cyclotron

**MUNICH SUSE CYCLOTRON**

*INIS: 1984-07-20; ETDE: 1984-08-20*

UF munich superconducting sector cyclotron

UF suse cyclotron (munich)

\*BT1 heavy ion accelerators  
\*BT1 isochronous cyclotrons

**municipal buildings**

*INIS: 2000-04-12; ETDE: 1981-01-09*

USE public buildings

**municipal law**

*INIS: 1990-12-15; ETDE: 2002-03-28*

(Prior to December 1990, this was a valid descriptor.)

USE laws

**municipal sludge**

*INIS: 1977-11-21; ETDE: 2002-03-28*

USE sewage sludge

**MUNICIPAL WASTES**

*INIS: 1985-07-18; ETDE: 1975-11-11*

*Wastes generated in households, commercial and business establishments, schools, hospitals, etc. It excludes industrial and biological wastes, abandoned automobiles, ashes, street sweepings, construction and demolition debris, and sewage sludge. See also INDUSTRIAL WASTES, BIOLOGICAL WASTES, ASHES, and SEWAGE SLUDGE. (Prior to August 1985 DOMESTIC WASTES was a valid descriptor.)*

UF domestic wastes

BT1 wastes  
RT chemical wastes  
RT pollutants  
RT refuse derived fuels  
RT scrap  
RT solid wastes

**municipal wastes (biological)**

*INIS: 1985-07-18; ETDE: 2002-03-28*

USE biological wastes

**municipal wastes (industrial)**

*INIS: 1985-07-18; ETDE: 2002-03-28*

USE industrial wastes

**munitions**

*INIS: 2000-04-12; ETDE: 1975-08-19*

(Prior to March 1997 ORDNANCE was used for this concept in ETDE.)

USE military equipment

**MUNTZ METAL**

2000-04-12

\*BT1 copper base alloys  
\*BT1 zinc alloys  
RT brass

**MUON ANTINEUTRINOS**

\*BT1 antineutrinos  
\*BT1 muon neutrinos

**MUON-ATOM COLLISIONS**

*INIS: 1986-01-21; ETDE: 1986-03-04*

\*BT1 atom collisions

**MUON BEAMS**

\*BT1 lepton beams  
RT muon probes

**MUON-CATALYZED FUSION**

*INIS: 1985-04-22; ETDE: 1985-05-07*

\*BT1 thermonuclear reactions  
RT deuterium tritide  
RT muonic molecules  
RT muons minus

**MUON DETECTION**

\*BT1 charged particle detection  
RT cosmic ray detection  
RT dumand project

**muon-deuteron interactions**

(Prior to March 1996 this was a valid ETDE descriptor.)

USE muon-neutron interactions  
USE muon-proton interactions

**MUON-MESON INTERACTIONS**

(From December 1977 until March 1996 MUON-PION INTERACTIONS was a valid ETDE descriptor.)

UF muon-pion interactions  
\*BT1 lepton-meson interactions

**MUON-MUON INTERACTIONS**

\*BT1 lepton-lepton interactions

**MUON NEUTRINOS**

UF neutretos  
\*BT1 neutrinos  
NT1 muon antineutrinos

**MUON-NEUTRON INTERACTIONS**

(From February 1975 until March 1996 MUON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

UF muon-deuteron interactions  
\*BT1 muon-nucleon interactions

**MUON-NUCLEON INTERACTIONS**

\*BT1 lepton-nucleon interactions  
NT1 muon-neutron interactions  
NT1 muon-proton interactions

**MUON NUMBER**

*INIS: 1978-02-23; ETDE: 1978-04-28*

BT1 lepton number  
RT muons

**MUON PAIRS**

*INIS: 1975-09-16; ETDE: 1975-10-28*

RT muons minus  
RT muons plus  
RT pair production

**muon-pion interactions**

*INIS: 2000-04-12; ETDE: 1977-12-22*

(Prior to March 1996 this was a valid ETDE descriptor.)

USE muon-meson interactions  
USE pions

**MUON PROBES**

*INIS: 1975-08-22; ETDE: 1976-08-24*

*Polarized positive muon beams used to investigate properties of condensed matter.*

BT1 probes  
RT muon beams  
RT muon spin relaxation  
RT muonium  
RT muons plus

**MUON-PROTON INTERACTIONS**

(From February 1975 until March 1996 MUON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

UF muon-deuteron interactions  
\*BT1 muon-nucleon interactions

**MUON REACTIONS**

\*BT1 charged-particle reactions  
\*BT1 lepton reactions

**MUON SPIN RELAXATION**

INIS: 1988-02-02; ETDE: 1986-11-20

*A means of studying the magnetic properties of a material by stopping polarized muons in the material and measuring the muon spin dynamics there.*

UF mu sr

UF muon spin resonance

UF muon spin rotation

BT1 relaxation

RT crystal lattices

RT magnetic properties

RT magnetic resonance

RT muon probes

RT spin orientation

**muon spin resonance**

INIS: 1988-02-02; ETDE: 1986-11-20

USE muon spin relaxation

**muon spin rotation**

INIS: 1988-02-02; ETDE: 1986-11-20

USE muon spin relaxation

**MUONIC ATOMS**

1999-03-18

BT1 atoms

RT mesic atoms

RT muonic ions

RT muonic molecules

RT muons minus

RT pi-mu atoms

**MUONIC IONS**

INIS: 1978-01-13; ETDE: 1978-03-03

\*BT1 ions

RT muonic atoms

RT muonic molecules

**MUONIC MOLECULES**

\*BT1 mesic molecules

RT muon-catalyzed fusion

RT muonic atoms

RT muonic ions

RT muons minus

RT muons plus

**MUONIUM**

RT atoms

RT charmonium

RT electrons

RT kaonium

RT muon probes

RT muons plus

RT pionium

RT positronium

RT protonium

**MUONS**

\*BT1 leptons

NT1 cosmic muons

NT1 muons minus

NT1 muons plus

RT electron-muon-tau universality

RT electron-muon universality

RT heavy neutral muons

RT muon number

RT pi-mu atoms

**muons, heavy neutral**

INIS: 2000-04-12; ETDE: 1979-08-09

USE heavy neutral muons

**MUONS MINUS**

\*BT1 muons

RT muon-catalyzed fusion

RT muon pairs

RT muonic atoms

RT muonic molecules

**MUONS PLUS**

UF antimuons

\*BT1 antileptons

\*BT1 muons

RT muon pairs

RT muon probes

RT muonic molecules

RT muonium

**MURA SYNCHROTRON**

UF mark v synchrotron

\*BT1 synchrotrons

**murexide**

1996-07-18

*Also known as purpuric acid.*

(Until July 1996 this was a valid descriptor.)

USE dyes

USE organic oxygen compounds

USE pyrimidines

**MURR REACTOR**

Univ. of Missouri, Columbia, Missouri, USA.

UF columbia missouri research reactor

UF missouri university/columbia research reactor

UF university of missouri/columbia research reactor

\*BT1 enriched uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 training reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**musashi institute of technology triga****reactor**

1993-11-09

USE triga-2-musashi reactor

**MUSCLES**

UF muscular tissue

NT1 diaphragm

NT1 myoblasts

NT1 myocardium

RT actin

RT exercise

RT limbs

RT myoglobin

RT myosarcomas

RT radiation syndrome

RT sarcoplasmic reticulum

RT tendons

RT tongue

RT trichinosis

RT tropomyosin

**MUSCOVITE***A mineral of the mica group.*

\*BT1 mica

**musculamine**

USE spermine

**muscular tissue**

(Prior to April 1996 TISSUES was used instead of ANIMAL TISSUES.)

USE animal tissues

USE muscles

**museum objects**

INIS: 1984-04-04; ETDE: 2002-03-28

USE cultural objects

**museums**

INIS: 1983-06-30; ETDE: 1979-07-24

USE educational facilities

**MUSHROOMS**

\*BT1 fungi

**MUSSELS**

INIS: 1992-03-10; ETDE: 1981-06-17

\*BT1 molluscs

**mustard**

USE brassica

**mustard (nitrogen)**

USE nitrogen mustard

**MUTAGEN SCREENING**

INIS: 1992-03-10; ETDE: 1978-11-14

UF ames test

UF screening (mutagen)

RT biological indicators

RT carcinogen screening

RT cell cultures

RT mutagenesis

RT mutagens

RT mutants

RT mutations

RT teratogen screening

RT testing

**MUTAGENESIS**

RT dna adducts

RT doxorubicin

RT genetic control

RT genotype

RT mutagen screening

RT mutagens

RT mutants

RT mutations

**mutagenic pathways**

INIS: 1978-11-24; ETDE: 1978-12-20

USE biological pathways

**MUTAGENS***For both chemical and physical agents.*

UF chemical mutagens

NT1 ethyl methanesulfonate

NT1 methyl methanesulfonate

NT1 methyl nitrosourea

NT1 proflavine

RT antibiotics

RT antimetabolic drugs

RT carcinogens

RT dna adducts

RT drugs

RT environmental exposure

RT ionizing radiations

RT mutagen screening

RT mutagenesis

RT neocarzinostatin

RT nitrogen mustard

RT nitrosamines

RT occupational exposure

RT pesticides

RT plant breeding

RT polycyclic aromatic hydrocarbons

RT radiation equivalence

RT radiomimetic drugs

RT teratogens

RT tumor promoters

RT viruses

**MUTANTS**

NT1 radiation induced mutants

NT1 revertants

RT adventitious bud technique

RT disease resistance

RT hereditary diseases

RT mutagen screening

RT mutagenesis

RT mutations

RT plant breeding

**MUTATION FREQUENCY**

UF aberration yield

RT mutations

**mutation induction pathways**

INIS: 1978-11-24; ETDE: 1978-12-20

USE biological pathways



**MUTATIONS**

- NT1 chromosomal aberrations
- NT2 chromosome breakage
- NT2 sister chromatid exchanges
- NT1 dominant mutations
- NT1 gene mutations
- NT1 genome mutations
- NT1 lethal mutations
- NT1 recessive mutations
- NT1 somatic mutations
- NT1 spontaneous mutations
- RT adventitious bud technique
- RT congenital malformations
- RT dna base transitions
- RT dna mismatch
- RT genetic control
- RT genetic effects
- RT hereditary diseases
- RT meiosis
- RT mosaicism
- RT mutagen screening
- RT mutagenesis
- RT mutants
- RT mutation frequency
- RT plant breeding
- RT pyrimidine dimers
- RT reproduction
- RT revertants

**mutsu (nuclear ship)**

- USE ns mutsu

**MUTSU REACTOR**

- JAERI, Mutsu, Aomori, Japan.
- UF japan ship reactor mutsu
- UF nuclear ship mutsu reactor
- UF ship reactor mutsu
- \*BT1 pwr type reactors
- \*BT1 ship propulsion reactors
- RT ns mutsu

**mutualism**

- INIS: 1984-12-04; ETDE: 1980-01-15
- USE symbiosis

**MWD SYSTEMS**

- INIS: 1992-08-13; ETDE: 1978-12-11
- Sensors and data transmission equipment for real-time measurements while drilling.
- UF downhole information systems
- UF logging while drilling
- UF measurement while drilling
- SF sigmalog
- BT1 real time systems
- RT drilling
- RT offshore drilling
- RT on-line systems
- RT telemetry
- RT well drilling
- RT well logging
- RT well logging equipment

**mwpc**

- USE multiwire proportional chambers

**mx devices**

- INIS: 2000-04-12; ETDE: 1977-10-20
- USE mftf devices

**MYANMAR**

- 1999-01-26
- (Until January 1999 this concept was indexed by BURMA.)
- UF burma
- BT1 asia
- BT1 developing countries

**MYCELIMUM**

- BT1 plant tissues
- RT fungi

**MYCOBACTERIUM**

- \*BT1 bacteria
- NT1 mycobacterium tuberculosis
- RT leprosy

**MYCOBACTERIUM TUBERCULOSIS**

- \*BT1 mycobacterium tuberculosis
- RT tuberculosis

**MYCOPLASMA**

- BT1 microorganisms
- NT1 acholeplasma laidlawii b
- RT bacteria

**MYCORRHIZAS**

- INIS: 1999-10-21; ETDE: 1977-06-02
- A symbiotic association of fungi and the roots of plants.
- BT1 symbiosis
- RT frankia
- RT fungi
- RT locust trees

**MYCOSES**

- \*BT1 fungal diseases
- RT fungi

**MYCOTOXINS**

- INIS: 1992-09-09; ETDE: 1994-08-10
- \*BT1 toxins
- NT1 aflatoxins
- RT fungi
- RT toxicity

**MYELIN**

- \*BT1 cell membranes
- \*BT1 lipoproteins
- RT cholesterol
- RT nerve cells
- RT nerves

**MYELITIS**

- \*BT1 nervous system diseases
- NT1 poliomyelitis
- RT spinal cord

**MYELOID LEUKEMIA**

- \*BT1 leukemia
- RT philadelphia chromosome
- RT polycythemia

**MYLAR**

- \*BT1 plastics
- \*BT1 polyesters
- RT glycols

**MYLERAN**

- UF busulfan
- BT1 alkylating agents

**MYOBLASTS**

- BT1 muscles
- RT myocardium

**MYOCARDIAL INFARCTION**

- \*BT1 cardiovascular diseases
- RT blood circulation
- RT coronaries
- RT ischemia
- RT myocardium

**MYOCARDIUM**

- \*BT1 heart
- BT1 muscles
- RT coronaries
- RT myoblasts
- RT myocardial infarction

**MYOGLOBIN**

- \*BT1 globins
- BT1 pigments
- \*BT1 porphyrins

- RT muscles

**myometrium**

- USE uterus

**MYOSARCOMAS**

- \*BT1 sarcomas
- NT1 rhabdomyosarcomas
- RT muscles

**MYOSIN**

- \*BT1 globulins
- RT tropomyosin

**myristic acid**

- USE tetradecanoic acid

**myxedema**

- USE hypothyroidism

**MYXOMYCETES**

- UF slime fungi
- \*BT1 fungi

**MZFR REACTOR**

- Forschungszentrum Karlsruhe, Baden-Wuerttemberg, Federal Republic of Germany.
- UF mehrzweck-forschungsreaktor
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors
- \*BT1 power reactors
- \*BT1 test reactors
- \*BT1 thermal reactors

**n,n-ethylenebis(2-(o-hydroxyphenyl)glycine)**

- INIS: 2000-04-12; ETDE: 1976-06-07
- USE eddha

**n-1150 resonances**

- INIS: 1988-03-08; ETDE: 2002-04-19
- (Prior to December 1987 this was a valid descriptor.)
- SEE n\*baryons

**N-1440 BARYONS**

- INIS: 1987-12-21; ETDE: 1988-03-11
- (Prior to December 1987 this concept was indexed by N-1470RESONANCES.)
- UF n-1470 resonances
- UF roper resonance
- \*BT1 n baryons

**n-1470 resonances**

- 1987-12-21
- (Prior to December 1987 this was a valid descriptor.)
- USE n-1440 baryons

**N-1520 BARYONS**

- INIS: 1987-12-21; ETDE: 1988-03-11
- (Prior to December 1987 this concept was indexed by N-1520RESONANCES.)
- UF n-1520 resonances
- \*BT1 n baryons

**n-1520 resonances**

- 1987-12-21
- (Prior to December 1987 this was a valid descriptor.)
- USE n-1520 baryons

**N-1535 BARYONS**

- INIS: 1987-12-21; ETDE: 1988-03-11
- (Prior to December 1987 this concept was indexed by N-1535RESONANCES.)
- UF n-1535 resonances
- \*BT1 n baryons

**n-1535 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE n-1535 baryons

**N-1650 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-11

\*BT1 n baryons

**N-1675 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-11

\*BT1 n baryons

**N-1680 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-11

(Prior to December 1987 this concept was indexed by N-1680RESONANCES.)

UF n-1680 resonances

UF n-1688 resonances

\*BT1 n baryons

**n-1680 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE n-1680 baryons

**n-1688 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE n-1680 baryons

**N-1700 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-11

(Prior to December 1987 this concept was indexed by N-1700RESONANCES.)

UF n-1700 resonances

\*BT1 n baryons

**n-1700 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE n-1700 baryons

**N-1710 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-11

\*BT1 n baryons

**N-1720 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-11

\*BT1 n baryons

**n-1780 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

SEE n\*baryons

**n-1860 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

SEE n\*baryons

**N-1960 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

\*BT1 n baryons

**N-1990 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

(Prior to December 1987 this concept was indexed by N-1990RESONANCES.)

UF n-1990 resonances

\*BT1 n baryons

**n-1990 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE n-1990 baryons

**N-2000 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

\*BT1 n baryons

**n-2040 resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

SEE n\*baryons

**N-2080 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

\*BT1 n baryons

**N-2100 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

\*BT1 n baryons

**N-2190 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

(Prior to December 1987 this concept was indexed by N-2190RESONANCES.)

UF n-2190 resonances

\*BT1 n baryons

**n-2190 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE n-2190 baryons

**N-2250 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

\*BT1 n baryons

**N-3000 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

(Prior to December 1987 this concept was indexed by N-3030RESONANCES.)

UF n-3030 resonances

\*BT1 n baryons

**n-3030 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE n-3000 baryons

**N BARYONS**

INIS: 1995-07-17; ETDE: 1988-03-11

\*BT1 n\*baryons

NT1 n-1440 baryons

NT1 n-1520 baryons

NT1 n-1535 baryons

NT1 n-1650 baryons

NT1 n-1675 baryons

NT1 n-1680 baryons

NT1 n-1700 baryons

NT1 n-1710 baryons

NT1 n-1720 baryons

NT1 n-1960 baryons

NT1 n-1990 baryons

NT1 n-2000 baryons

NT1 n-2080 baryons

NT1 n-2100 baryons

NT1 n-2190 baryons

NT1 n-2250 baryons

NT1 n-3000 baryons

**N CODES**

BT1 computer codes

**N-D METHOD**

BT1 calculation methods

RT dispersion relations

RT partial waves

**n-ethyl maleimide**

INIS: 1976-05-07; ETDE: 1976-08-24

USE nem

**n-o-iodobenzoylaminoacetate**

INIS: 1975-10-23; ETDE: 2002-04-16

USE hippuran

**N-REACTOR**

US DOE, Hanford Reservation, Richland, Washington, USA. Shut down in 1988; being cocooned.

UF npr reactor

UF power-plutonium production reactor richland

UF richland npr reactor

UF richland power-plutonium production reactor

\*BT1 enriched uranium reactors

\*BT1 lwgr type reactors

\*BT1 plutonium production reactors

\*BT1 power reactors

RT wnp-1 reactor

**N SHELL**

INIS: 1979-11-02; ETDE: 1978-10-23

Atomic electron shells.

UF atomic shells (n)

BT1 electronic structure

**N-TYPE CONDUCTORS**

\*BT1 semiconductor materials

RT p-n junctions

**N\*BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-19

(Prior to December 1987 this concept was indexed by N\*RESONANCES.)

UF delta resonances (baryon)

UF isobars (nucleon)

UF n\*resonances

UF nucleon isobars

SF delta-1877 resonances

SF n-1150 resonances

SF n-1780 resonances

SF n-1860 resonances

SF n-2040 resonances

\*BT1 baryons

NT1 delta baryons

NT2 delta-1232 baryons

NT2 delta-1600 baryons

NT2 delta-1620 baryons

NT2 delta-1700 baryons

NT2 delta-1900 baryons

NT2 delta-1905 baryons

NT2 delta-1910 baryons

NT2 delta-1920 baryons

NT2 delta-1930 baryons

NT2 delta-1950 baryons

NT2 delta-2000 baryons

NT2 delta-2150 baryons

NT2 delta-2200 baryons

NT2 delta-2400 baryons

NT2 delta-2420 baryons

NT2 delta-3000 baryons

NT1 n baryons

NT2 n-1440 baryons

NT2 n-1520 baryons

NT2 n-1535 baryons

NT2 n-1650 baryons

NT2 n-1675 baryons

NT2 n-1680 baryons

NT2 n-1700 baryons

NT2 n-1710 baryons

NT2 n-1720 baryons

NT2 n-1960 baryons

NT2 n-1990 baryons

NT2 n-2000 baryons

NT2 n-2080 baryons

NT2 n-2100 baryons

NT2 n-2190 baryons

NT2 n-2250 baryons

NT2 n-3000 baryons

RT fractional-parentage coefficients

**n\*resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE n\*baryons

**naa**

2002-11-25

USE neutron activation analysis

**NABARLEK DEPOSIT**

INIS: 1978-07-03; ETDE: 1978-08-07

\*BT1 uranium deposits

RT northern territory

RT uranium ores

**NAC CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-07-07

*Separated-sector cyclotron of the National Accelerator Centre, Faure, Republic of South Africa.*

UF faure cyclotron

UF nacssc

UF national accelerator center (south africa) cyclotron

UF south africa nac cyclotron

\*BT1 heavy ion accelerators

\*BT1 isochronous cyclotrons

**nacssc**

INIS: 1984-04-04; ETDE: 1983-03-24

*Separated-sector cyclotron of the National Accelerator Centre, Faure, Republic of South Africa.*

USE nac cyclotron

**NAD***Nicotinamide-Adenine Dinucleotide.*

UF coenzyme i

UF nicotinamide-adenine dinucleotide

BT1 coenzymes

\*BT1 nucleotides

RT nicotinamide

RT pyridines

**NADH2**

UF diphosphodihydropyridine nucleotide

UF reduced nicotinamide-adenine dinucleotide

BT1 coenzymes

\*BT1 nucleotides

RT nicotinamide

**NADP***Nicotinamide-Adenine Dinucleotide Phosphate.*

UF coenzyme ii

UF nicotinamide-adenine dinucleotide phosphate

BT1 coenzymes

\*BT1 nucleotides

RT nicotinamide

**NAEGITE**

2000-04-12

\*BT1 oxide minerals

\*BT1 thorium minerals

\*BT1 uranium minerals

RT thorium oxides

RT uranium oxides

RT zirconium oxides

**NAGASAKI**

\*BT1 japan

RT a-bomb survivors

RT nuclear explosions

RT nuclear weapons

**NAHCOLITE**

2000-04-12

*White monoclinic mineral consisting of natural sodium bicarbonate.*

\*BT1 carbonate minerals

RT integrated in-situ process

RT sodium carbonates

**NAI DETECTORS**

INIS: 1979-09-18; ETDE: 1979-02-05

UF sodium iodide detectors

\*BT1 solid scintillation detectors

**NAILS**

\*BT1 skin

RT fingers

**nak**

INIS: 1986-03-04; ETDE: 2002-04-16

*Use the descriptors below or their appropriate narrower terms.*

USE potassium alloys

USE sodium alloys

**NAK COOLED REACTORS**

1986-03-04

(Prior to March 1986 this concept was indexed by coordination of POTASSIUM COOLED REACTORS and SODIUM COOLED REACTORS.)

\*BT1 liquid metal cooled reactors

NT1 ebr-1 reactor

NT1 s10fs-1 reactor

NT1 s10fs-3 reactor

NT1 s10fs-4 reactor

NT1 s2ds reactor

NT1 s8dr reactor

NT1 s8er reactor

NT1 ser reactor

NT1 snaptran reactors

RT potassium cooled reactors

RT sodium cooled reactors

**nal synchrotron**

INIS: 1990-12-07; ETDE: 1975-11-12

(Prior to December 1990, this was a valid descriptor.)

USE fermilab accelerator

**NAMAFJALL GEOTHERMAL FIELD**

2000-04-12

BT1 geothermal fields

RT iceland

**NAMIBIA**

INIS: 1992-04-24; ETDE: 1984-06-29

*Until July 1984 this country was known as South West Africa and older material is so indexed.*

UF south west africa

UF southwest africa

BT1 africa

RT south africa

**NANO AMP BEAM CURRENTS**

INIS: 1976-02-11; ETDE: 1975-10-28

*From 10 exp -9 to 10 exp -6 amp.*

\*BT1 beam currents

**NANOSECONDS LIVING****RADIOISOTOPES**

1980-11-07

(From 10 exp -9 to 10 exp -6 sec; prior to June 2003 NANOSEC LIVING RADIOISOTOPES was used for this concept.)

\*BT1 radioisotopes

NT1 actinium 217

NT1 aluminium 40

NT1 antimony 113

NT1 antimony 117

NT1 astatine 213

NT1 astatine 214

NT1 barium 138

NT1 bismuth 211

NT1 bromine 83

NT1 cesium 113

NT1 chromium 65

NT1 chromium 66

NT1 fermium 256

NT1 fluorine 18

NT1 francium 211

NT1 francium 212

NT1 francium 213

NT1 francium 215

NT1 francium 216

NT1 gadolinium 147

NT1 gadolinium 148

NT1 krypton 86

NT1 krypton 97

NT1 lead 194

NT1 lead 200

NT1 magnesium 39

NT1 molybdenum 92

NT1 molybdenum 94

NT1 neptunium 237

NT1 osmium 182

NT1 phosphorus 25

NT1 plutonium 237

NT1 polonium 210

NT1 polonium 212

NT1 potassium 40

NT1 protactinium 219

NT1 protactinium 220

NT1 radium 216

NT1 radon 210

NT1 radon 211

NT1 radon 214

NT1 rhodium 90

NT1 rhodium 91

NT1 rubidium 85

NT1 sodium 22

NT1 thorium 218

NT1 titanium 58

NT1 titanium 59

NT1 vanadium 61

NT1 vanadium 62

NT1 vanadium 63

NT1 zirconium 109

RT half-life

RT lifetime

**NANOSTRUCTURES**

INIS: 2003-03-18; ETDE: 2003-11-03

*Components, devices, or structures in the nanometer size range, where quantum effects are often seen. Coordinate with other descriptors as appropriate.*

(From March to October 2003

NANOSTRUCTURE was used for this concept.)

SF nanotechnology

NT1 nanotubes

NT1 quantum dots

NT1 quantum wells

NT1 quantum wires

RT electronic structure

RT electrons

RT microstructure

RT semiconductor materials

RT solids

**nanotechnology**

2003-11-03

SEE appropriate technology

SEE nanostructures

SEE technology utilization

**NANOTUBES**

2003-11-03

BT1 nanostructures

**NAP-M STORAGE RING**

INIS: 1975-08-22; ETDE: 1975-10-01

BT1 storage rings

**napap**

INIS: 2000-04-12; ETDE: 1984-12-10

(Prior to October 1991, this was a valid ETDE descriptor.)

USE us napap

**NAPHTHA**

2000-04-12

Fraction of coal tar oil distilling in range 160-220C; petroleum distilling in range 175-204C.

BT1 distillates

NT1 ligroin

RT petroleum products

**NAPHTHALENE**

\*BT1 condensed aromatics

\*BT1 hydrocarbons

RT acenaphthene

RT decalin

RT tetralin

**naphthalic acid**

USE phthalic acid

**naphthenes**

INIS: 2000-04-12; ETDE: 1977-03-08

USE hydroaromatics

**NAPHTHOLS**

1996-10-22

UF acid chrome dyes

UF beryllon

UF dsnadns

UF hydroxynaphthalenes

UF naphthols-alpha

UF naphthols-beta

\*BT1 phenols

NT1 1-nitroso-2-naphthol

NT1 nitroso-r salt

NT1 pyridylazonaphthol

NT1 thorin

NT1 trypan blue

**naphthols-alpha**

USE naphthols

**naphthols-beta**

USE naphthols

**NAPHTHYL RADICALS**

\*BT1 aryl radicals

**NARCOTICS**

1996-07-08

UF opiates

\*BT1 central nervous system depressants

NT1 heroin

NT1 methadone hydrochloride

NT1 opium

NT2 morphine

NT3 thebaine

NT1 pethidine

RT analgesics

RT anesthetics

RT enkephalins

RT hypnotics and sedatives

**NARORA-1 REACTOR**

Narora, Uttar Pradesh, India.

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

\*BT1 power reactors

**NARORA-2 REACTOR**

Narora, Uttar Pradesh, India.

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

\*BT1 power reactors

**NASA**

UF national aeronautics and space administration

\*BT1 us organizations

**nasa-test reactor**

Plum Brook Reactor Facility.

USE pbr reactor

**nasa-tr reactor**

Plum Brook Reactor Facility.

USE pbr reactor

**nasopharynx**

USE pharynx

**national accelerator center (south africa) cyclotron**

INIS: 1993-11-09; ETDE: 2002-04-16

USE nac cyclotron

**national accelerator laboratory**

2000-04-12

USE fermilab accelerator

**national acid precipitation****assessment program**

INIS: 2000-04-12; ETDE: 1984-12-10

USE us napap

**national aeronautics and space administration**

1993-11-09

USE nasa

**national bureau of standards**

INIS: 1979-02-21; ETDE: 1978-04-06

USE us nbs

**national bureau of standards reactor**

1993-11-09

USE nbsr reactor

**national center of systems reliability**

INIS: 1993-11-09; ETDE: 2002-04-16

National Centre of Systems Reliability.

USE ncsr

**NATIONAL COAL MODEL**

INIS: 2000-04-12; ETDE: 1980-08-12

BT1 energy models

RT coal

**NATIONAL CONTROL**

\*BT1 atomic energy control

RT reactor commissioning

RT reactor decommissioning

RT reactor dismantling

**national council on radiation protection/measurements (us)**

USE us ncrp

**NATIONAL DEFENSE**

UF defense

SF defense production act

NT1 ballistic missile defense

NT1 civil defense

RT military assistance

RT military facilities

RT missile silos

RT nuclear weapons

RT space weapons

RT warfare

**national electric reliability councils**

INIS: 2000-04-12; ETDE: 1979-09-27

USE electric reliability councils

**NATIONAL ENERGY ACTS**

INIS: 1994-08-22; ETDE: 1993-08-10

(Prior to February 1992 this was a valid ETDE descriptor. From February 1992 to August 1993 this concept in ETDE was indexed to US NATIONAL ENERGY ACT.)

UF us national energy act

BT1 laws

NT1 us energy tax act

NT1 us national energy conservation policy act

NT1 us natural gas policy act

NT1 us power plant and industrial fuel use act

NT1 us public utility regulatory policies act

RT national energy plans

RT us national energy plan

RT us national program plans

**NATIONAL ENERGY CONSERVATION INCENTIVES ACT**

INIS: 2000-04-12; ETDE: 1979-11-23

BT1 laws

RT energy conservation

RT financial incentives

**national energy conservation policy act**

INIS: 2000-04-12; ETDE: 1981-05-18

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us national energy conservation policy act

**NATIONAL ENERGY PLANS**

INIS: 1992-08-27; ETDE: 1992-09-11

\*BT1 energy policy

NT1 us national energy plan

RT energy conservation

RT national energy acts

**national energy security corporation**

INIS: 2000-04-12; ETDE: 1980-07-23

USE synthetic fuels corporation

**national enterprises**

INIS: 2000-04-12; ETDE: 1979-07-24

USE public enterprises

**national environmental policy act**

2000-04-12

(Prior to January 1992 this was a valid ETDE descriptor.)

USE us national environmental policy act

**NATIONAL GOVERNMENT**

INIS: 1980-11-07; ETDE: 1978-03-09

Use only when needed to make a distinction with the terms local government and/or state government.

UF federal expenditures

UF federal government

RT centrally planned economies

RT government policies

RT institutional sector

RT legislation

RT local government

RT national organizations

RT public officials

RT regulations

RT state government

RT us federal assistance programs

**national ignition facility**

INIS: 2000-04-12; ETDE: 1997-05-21

Facility for inertial confinement fusion.

USE us national ignition facility

***national institute for occupational safety and health***

INIS: 2000-04-12; ETDE: 1980-03-29

USE us niosh

***national institute for petroleum and energy research***

INIS: 1993-11-09; ETDE: 1984-06-29

USE us niper

***national institute of radiological science cyclotron***

INIS: 1993-11-09; ETDE: 1980-01-24

USE nirs cyclotron

***national instituut voor kernfysica en hogeenergiefysica***

INIS: 1993-11-09; ETDE: 1977-10-19

USE nikhef

***national oceanic and atmospheric administration***

INIS: 2000-04-12; ETDE: 1980-01-24

USE us noaa

**NATIONAL ORGANIZATIONS**

NT1 afghan organizations  
 NT1 albanian organizations  
 NT1 algerian organizations  
 NT1 argentine organizations  
 NT2 argentine arn  
 NT2 argentine cnea  
 NT2 argentine invap  
 NT1 armenian organizations  
 NT1 australian organizations  
 NT2 ansto  
 NT1 austrian organizations  
 NT2 seibersdorf research centre  
 NT1 bangladesh organizations  
 NT1 belgian organizations  
 NT1 brazilian organizations  
 NT2 brazilian cnen  
 NT2 brazilian lnls  
 NT2 nuclebras  
 NT1 bulgarian organizations  
 NT1 canadian organizations  
 NT2 atomic energy of canada ltd  
 NT3 chalk river nuclear labs  
 NT3 wnre  
 NT2 canadian aecb  
 NT1 chilean organizations  
 NT1 chinese organizations  
 NT2 chinese nnsa  
 NT2 ciae  
 NT1 colombian organizations  
 NT2 ian  
 NT1 croatian organizations  
 NT1 cuban organizations  
 NT1 czech organizations  
 NT2 subj  
 NT2 uvj  
 NT2 uvvvr  
 NT1 danish organizations  
 NT2 danish atomic energy commission  
 NT2 risoe national laboratory  
 NT3 risoe research establishment  
 NT1 egyptian organizations  
 NT1 estonian organizations  
 NT1 finnish organizations  
 NT1 french organizations  
 NT2 cea  
 NT3 cea bruyeres-le-chatel  
 NT3 cea cadarache  
 NT3 cea fontenay-aux-roses  
 NT3 cea grenoble  
 NT3 cea la hague  
 NT3 cea marcoule  
 NT3 cea pierrelatte  
 NT3 cea saclay

NT2 cogema  
 NT3 cogema la hague  
 NT3 cogema marcoule  
 NT3 cogema pierrelatte  
 NT2 electricite de france  
 NT1 german fr organizations  
 NT2 bundesamt fuer strahlenschutz  
 NT2 forschungszentrum juelich  
 NT2 forschungszentrum karlsruhe  
 NT2 gesellschaft fuer anlagen- und reaktorsicherheit  
 NT2 ipp garching  
 NT2 reaktorsicherheitskommission  
 NT2 strahlenschutzkommission  
 NT2 wak  
 NT2 zfi leipzig  
 NT2 zfk rossendorf  
 NT1 ghanaian organizations  
 NT1 greek organizations  
 NT1 hungarian organizations  
 NT2 atomki  
 NT1 indian organizations  
 NT2 barc  
 NT2 igcar  
 NT1 indonesian organizations  
 NT1 iranian organizations  
 NT2 iranian atomic energy organization  
 NT2 tehran nuclear research centre  
 NT1 iraqi organizations  
 NT2 iraqi atomic energy commission  
 NT3 iraqi nuclear research centre  
 NT1 israeli organizations  
 NT2 israel atomic energy commission  
 NT3 negev nuclear research center  
 NT3 soreq nuclear research center  
 NT1 italian organizations  
 NT2 cise  
 NT2 italian enea  
 NT3 cnen  
 NT2 italian enel  
 NT1 japanese organizations  
 NT2 jaea  
 NT2 jaeri  
 NT2 jnc  
 NT2 jnes  
 NT2 jnsda  
 NT2 pnc  
 NT1 jordanian organizations  
 NT1 kazakhstan organizations  
 NT1 korean organizations  
 NT2 kaeri  
 NT1 latvian organizations  
 NT1 lebanese organizations  
 NT1 lithuanian organizations  
 NT1 macedonian organizations  
 NT1 malaysian organizations  
 NT2 mint  
 NT2 puspati  
 NT1 mexican organizations  
 NT1 moroccan organizations  
 NT1 netherlands organizations  
 NT2 ecn  
 NT3 rcn  
 NT2 iko  
 NT2 iri  
 NT2 kvi  
 NT2 nikhef  
 NT1 new zealand organizations  
 NT1 norwegian organizations  
 NT1 pakistani organizations  
 NT1 paraguayian organizations  
 NT2 paraguayian cnea  
 NT1 philippine organizations  
 NT2 philippine nuclear research institute  
 NT3 philippine atomic energy commission  
 NT3 philippine atomic research center  
 NT1 polish organizations  
 NT2 panstwowa agencja atomistyki

NT1 portuguese organizations  
 NT1 romanian organizations  
 NT1 russian organizations  
 NT2 gosatomnadzor rossii  
 NT2 ihep  
 NT2 st petersburg institute of nuclear physics  
 NT1 slovak organizations  
 NT2 cyclotron center of the slovak republic  
 NT2 ujd  
 NT2 vuje  
 NT1 slovenian organizations  
 NT1 south african organizations  
 NT1 spanish organizations  
 NT1 swedish organizations  
 NT1 swiss organizations  
 NT1 syrian organizations  
 NT1 thai organizations  
 NT1 tunisian organizations  
 NT1 turkish organizations  
 NT2 turkish atomic energy authority  
 NT1 ukrainian organizations  
 NT1 united kingdom organizations  
 NT2 bnfl  
 NT2 british coal  
 NT2 ncsr  
 NT2 nrpb  
 NT2 uk national physical laboratory  
 NT2 uk nii  
 NT2 ukaea  
 NT3 aere  
 NT3 culham laboratory  
 NT1 uruguayan organizations  
 NT1 us organizations  
 NT2 federal radiation council  
 NT2 nasa  
 NT2 national science foundation  
 NT2 naval research laboratory  
 NT2 orau  
 NT2 orins  
 NT2 synthetic fuels corporation  
 NT2 tennessee valley authority  
 NT2 us acda  
 NT2 us aec  
 NT3 ames laboratory  
 NT3 anl  
 NT3 bettis  
 NT3 bnl  
 NT3 feed materials production center  
 NT3 hapo  
 NT3 idaho chemical processing plant  
 NT3 kapl  
 NT3 lawrence berkeley laboratory  
 NT3 lawrence livermore laboratory  
 NT3 mound laboratory  
 NT3 ornl  
 NT3 paducah plant  
 NT3 rocky flats plant  
 NT3 sandia laboratories  
 NT3 savannah river plant  
 NT3 sequoyah uf6 production plant  
 NT3 y-12 plant  
 NT2 us ceq  
 NT2 us cia  
 NT2 us department of treasury  
 NT3 us irs  
 NT2 us doa  
 NT3 us forest service  
 NT3 us rea  
 NT2 us doc  
 NT3 us nbs  
 NT2 us dod  
 NT3 us corps of engineers  
 NT2 us doe  
 NT3 alaska power administration  
 NT3 ames laboratory  
 NT3 anl

**NT3** atomics international canoga park plant  
**NT3** bartlesville energy technology center  
**NT3** battelle pacific northwest laboratories  
**NT3** bettis  
**NT3** bnl  
**NT3** bonneville power administration  
**NT3** economic regulatory administration  
**NT3** environmental measurements laboratory  
**NT3** feed materials production center  
**NT3** fermilab  
**NT3** hanford engineering development laboratory  
**NT3** hanford reservation  
**NT3** hapo  
**NT3** idaho chemical processing plant  
**NT3** ineel  
**NT3** inhalation toxicology research institute  
**NT3** kansas city plant  
**NT3** kapl  
**NT3** lanl  
**NT3** laramie energy research center  
**NT3** laramie energy technology center  
**NT3** lawrence berkeley laboratory  
**NT3** lawrence livermore national laboratory  
**NT4** lawrence livermore laboratory  
**NT3** morgantown energy technology center  
**NT3** mound laboratory  
**NT3** national renewable energy laboratory  
**NT3** nevada test site  
**NT3** oak ridge reservation  
**NT3** orgdp  
**NT3** ornl  
**NT3** paducah plant  
**NT3** pantex plant  
**NT3** pinellas plant  
**NT3** pittsburgh energy technology center  
**NT3** portsmouth centrifuge enrichment plant  
**NT3** portsmouth gaseous diffusion plant  
**NT3** rocky flats plant  
**NT3** sandia national laboratories  
**NT4** sandia laboratories  
**NT3** savannah river plant  
**NT3** sequoyah uf6 production plant  
**NT3** southeastern power administration  
**NT3** southwestern power administration  
**NT3** stanford linear accelerator center  
**NT3** us doe field offices  
**NT3** us doe inspector general  
**NT3** us energy extension service  
**NT3** us energy information administration  
**NT3** us ferc  
**NT3** us msha  
**NT3** us niper  
**NT3** usur  
**NT3** western area power administration  
**NT3** wipp  
**NT3** y-12 plant  
**NT2** us doi  
**NT3** us bureau of mines  
**NT3** us bureau of reclamation  
**NT3** us fws  
**NT3** us gs  
**NT3** us osm  
**NT2** us doj  
**NT3** federal bureau of investigation

### **national program plans**

*INIS: 2000-04-12; ETDE: 1979-09-26*  
 (Prior to February 1992 this was a valid ETDE descriptor.)

USE us national program plans

### **national radioactive waste repository in mochovce**

*2002-12-17*  
 USE mochovce radioactive waste repository

### **national radiological protection board**

*INIS: 1993-11-09; ETDE: 1980-01-24*  
 USE nrpb

### **national reactor testing station**

USE ineel

### **national reactor testing station burst facility**

*1993-11-09*  
 USE pbf reactor

### **NATIONAL RENEWABLE ENERGY LABORATORY**

*INIS: 1994-06-13; ETDE: 1994-04-29*  
 (Until June 1994 this was indexed by SOLAR ENERGY RESEARCH INSTITUTE.)

UF nrel

UF seri

UF solar energy research institute

\*BT1 us doe

RT solar energy

### **NATIONAL SCIENCE FOUNDATION**

\*BT1 us organizations

### **NATIONAL SECURITY**

*INIS: 1984-04-04; ETDE: 1979-12-10*

BT1 security

RT ballistic missile defense

RT classified information

RT nuclear deterrence

RT security violations

### **national synchrotron light source**

*INIS: 1979-09-18; ETDE: 1979-04-11*  
 USE nsls

### **NATIONALIZATION**

*INIS: 1986-03-04; ETDE: 1980-06-06*  
*Takeover by government, with or without compensation, of a public or private activity.*

RT centrally planned economies

RT economic policy

RT government policies

### **NATO**

*INIS: 1987-06-29; ETDE: 1976-02-19*

*North Atlantic Treaty Organization.*

UF north atlantic treaty organization

BT1 international organizations

### **NATROAUTUNITE**

*2000-04-12*

\*BT1 uranium minerals

RT uranium phosphates

### **natural activity**

USE natural radioactivity

### **NATURAL ANALOGUE**

*INIS: 1993-09-17; ETDE: 1993-11-08*

UF geologic natural analogue

RT geologic formations

RT geologic structures

RT radioactive waste disposal

RT radionuclide migration

RT uranium deposits

RT uranium mines

### **NATURAL ATTENUATION**

*2005-07-06*

*Reduction in the amount of pollution or contamination by naturally occurring physical, chemical, and/or biological processes.*

RT chemical spills

RT decontamination

RT hazardous materials spills

RT land pollution control

RT land reclamation  
 RT oil spills  
 RT remedial action  
 RT water pollution control

### NATURAL BRIDGES NATIONAL MONUMENT

INIS: 2000-04-12; ETDE: 1981-09-08

BT1 public lands  
 RT photovoltaic power supplies  
 RT utah

#### *natural circulation*

USE natural convection

### NATURAL CONVECTION

*Heat transfer by natural convection.*

UF free convection  
 UF natural circulation  
 UF natural draft cooling towers  
 UF natural ventilation  
 \*BT1 convection  
 RT displacement ventilation  
 RT grashof number  
 RT thermosyphons

#### *natural depletion*

INIS: 2000-04-12; ETDE: 1979-02-23

USE primary recovery

#### *natural disaster (exceptional)*

INIS: 1985-12-10; ETDE: 2002-01-30

USE exceptional natural disaster

### NATURAL DISASTERS

INIS: 1999-02-24; ETDE: 1996-03-28

*Occurrences such as large-scale drought, glacier movement, floods, fires, storms, etc.*

(From June 1978 until March 1996

DISASTERS was used for this concept in ETDE.)

SF disasters  
 NT1 exceptional natural disaster  
 RT explosions  
 RT fires  
 RT floods  
 RT rain  
 RT snow  
 RT storms  
 RT tsunamis  
 RT weather  
 RT wind

#### *natural draft cooling towers*

2000-04-12

(Prior to March 1997 this was a valid ETDE descriptor.)

USE cooling towers  
 USE natural convection

### NATURAL GAS

\*BT1 fossil fuels  
 \*BT1 fuel gas  
 NT1 abiogenic gas  
 NT1 liquefied natural gas  
 RT alaska gas pipeline  
 RT arctic gas pipelines  
 RT deregulation  
 RT flaring  
 RT gas heat pumps  
 RT gas hydrates  
 RT gas meters  
 RT gas spills  
 RT gasbuggy event  
 RT lng plants  
 RT master metering  
 RT natural gas deposits  
 RT natural gas distribution systems  
 RT natural gas industry  
 RT natural gas wells  
 RT petrochemistry

RT polar gas project  
 RT primary recovery  
 RT public utilities  
 RT refinery gases  
 RT rio blanco event  
 RT storage facilities  
 RT wasatch formation

#### *natural gas appliances*

INIS: 2000-04-12; ETDE: 1977-06-21

USE gas appliances

### NATURAL GAS DEPOSITS

INIS: 1991-08-12; ETDE: 1975-09-30

BT1 geologic deposits  
 \*BT1 mineral resources  
 NT1 natural gas fields  
 NT2 gas condensate fields  
 RT acidization  
 RT geologic traps  
 RT geophysical surveys  
 RT geopressed systems  
 RT natural gas  
 RT petroleum geology  
 RT powder river basin  
 RT reserves  
 RT seeps  
 RT wasatch formation  
 RT well logging equipment  
 RT western us overthrust belt

### NATURAL GAS DISTRIBUTION SYSTEMS

INIS: 1992-02-19; ETDE: 1976-11-01

UF natural gas gathering systems  
 SF energy transport  
 SF transport (energy)  
 BT1 energy systems  
 RT ferc gas areas  
 RT gas utilities  
 RT natural gas  
 RT pipelines

### NATURAL GAS FIELDS

INIS: 1992-02-19; ETDE: 1976-03-11

*Surface boundaries of areas from which commercially valuable natural gas is obtained.*

UF gas fields  
 \*BT1 natural gas deposits  
 NT1 gas condensate fields  
 RT field production equipment  
 RT natural gas wells  
 RT reservoir fluids  
 RT reservoir rock  
 RT well injection equipment  
 RT well recovery equipment  
 RT well spacing

### NATURAL GAS FUEL CELLS

1992-05-20

\*BT1 fuel cells

#### *natural gas gathering systems*

INIS: 1992-02-19; ETDE: 1977-01-28

USE natural gas distribution systems

### NATURAL GAS HYDRATE DEPOSITS

INIS: 2000-04-12; ETDE: 1983-01-21

UF methane hydrate deposits  
 BT1 geologic deposits  
 RT arctic regions  
 RT gas hydrates

### NATURAL GAS INDUSTRY

INIS: 1991-12-17; ETDE: 1975-11-28

BT1 industry  
 NT1 lng industry  
 RT ferc gas areas  
 RT gas utilities

RT natural gas  
 RT natural gas processing plants  
 RT us natural gas policy act

### NATURAL GAS LIQUIDS

1992-04-14

*Liquid hydrocarbon mixtures that are gaseous at reservoir temperatures and pressures, but are recoverable by condensation or absorption.*

UF natural gasoline  
 UF ngl  
 \*BT1 liquids  
 NT1 gas condensates  
 NT1 lease condensates  
 NT1 liquefied petroleum gases  
 NT1 plant condensates  
 RT liquefied natural gas

#### *natural gas policy act*

INIS: 2000-04-12; ETDE: 1980-05-06

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us natural gas policy act

### NATURAL GAS PROCESSING PLANTS

INIS: 1992-04-13; ETDE: 1976-07-07

UF natural gasoline plants  
 BT1 industrial plants  
 RT natural gas industry

### NATURAL GAS WELLS

INIS: 1992-01-16; ETDE: 1975-10-01

UF gas wells  
 BT1 wells  
 RT abandoned wells  
 RT blowout preventers  
 RT drill stem testing  
 RT dry holes  
 RT exploratory wells  
 RT field production equipment  
 RT gas condensate wells  
 RT hydraulic equipment  
 RT interstitial water  
 RT natural gas  
 RT natural gas fields  
 RT perforation  
 RT propping agents  
 RT rod pumps  
 RT sand consolidation  
 RT water influx  
 RT well completion  
 RT well injection equipment  
 RT well pressure  
 RT well recovery equipment  
 RT well servicing  
 RT well stimulation  
 RT wellhead prices  
 RT wellheads

#### *natural gasoline*

INIS: 1992-04-14; ETDE: 1976-07-07

USE natural gas liquids

#### *natural gasoline plants*

INIS: 1992-04-13; ETDE: 1976-07-07

USE natural gas processing plants

### NATURAL KILLER CELLS

INIS: 1992-01-28; ETDE: 1992-02-14

UF nk cells  
 \*BT1 leukocytes  
 RT immunity  
 RT lymphocytes

**natural language**

INIS: 2000-04-12; ETDE: 1985-09-24  
Human language as spoken. English, French, or German are examples of natural languages. Restricted to computer technology. (Prior to March 1997 this was a valid ETDE descriptor.)

USE programming languages

**natural lighting**

INIS: 2000-04-12; ETDE: 1981-01-09

USE daylighting

**natural mutations**

INIS: 1978-02-23; ETDE: 1978-05-01

USE spontaneous mutations

**NATURAL NUCLEAR REACTORS**

INIS: 1979-01-18; ETDE: 1979-02-23

NT1 oklo phenomenon  
RT chain reactions  
RT criticality  
RT reactors  
RT uranium ores

**NATURAL OCCURRENCE**

1985-07-18

RT earth crust  
RT element abundance  
RT geochemistry  
RT isotope ratio  
RT ore composition  
RT radioisotopes

**NATURAL RADIOACTIVITY**

For unspecified naturally occurring radioisotopes only.

UF natural activity  
BT1 radioactivity  
RT background radiation  
RT daughter products  
RT gamma logging  
RT polonium  
RT potassium 40  
RT radium  
RT radon  
RT thorium  
RT uranium

**natural reactor oklo**

INIS: 1976-01-28; ETDE: 2002-04-16

USE oklo phenomenon

**NATURAL RUBBER**

1997-06-17

UF rubber (natural)  
\*BT1 rubbers  
RT dielectric materials  
RT guayule  
RT latex  
RT rubber trees

**NATURAL STEAM**

1992-05-12

Geothermal steam containing incondensable gases such as carbon dioxide and hydrogen sulfide with minor amounts of other gases.

UF geothermal steam  
\*BT1 geothermal fluids  
BT1 steam

**NATURAL UNITS**

Based on fundamental constants.

BT1 units  
NT1 uniton  
RT fundamental constants

**NATURAL URANIUM**

\*BT1 uranium

**NATURAL URANIUM REACTORS**

Reactors primarily fueled with natural uranium.

BT1 reactors  
NT1 agesta reactor  
NT1 aquilon reactor  
NT1 atucha-2 reactor  
NT1 atucha reactor  
NT1 bepo reactor  
NT1 bohunice a-1 reactor  
NT1 bohunice a-2 reactor  
NT1 br-1 reactor  
NT1 bruce-1 reactor  
NT1 bruce-2 reactor  
NT1 bruce-3 reactor  
NT1 bruce-4 reactor  
NT1 bruce-5 reactor  
NT1 bruce-6 reactor  
NT1 bruce-7 reactor  
NT1 bruce-8 reactor  
NT1 cernavoda-1 reactor  
NT1 cesar reactor  
NT1 cirus reactor  
NT1 cordoba reactor  
NT1 cp-2 reactor  
NT1 cp-3 reactor  
NT1 darlington-1 reactor  
NT1 darlington-2 reactor  
NT1 darlington-3 reactor  
NT1 darlington-4 reactor  
NT1 dhruva reactor  
NT1 diorit reactor  
NT1 douglas point ontario reactor  
NT1 eco reactor  
NT1 el-1 reactor  
NT1 el-2 reactor  
NT1 essor reactor  
NT1 f-1 reactor  
NT1 fr-2 reactor  
NT1 gentilly-2 reactor  
NT1 gentilly reactor  
NT1 gleep reactor  
NT1 hew-305 reactor  
NT1 hwzpr reactor  
NT1 jatr reactor  
NT1 jrr-3 reactor  
NT1 kaiga-1 reactor  
NT1 kaiga-2 reactor  
NT1 kakrapar-1 reactor  
NT1 kakrapar-2 reactor  
NT1 kalpakkam-1 reactor  
NT1 kalpakkam-2 reactor  
NT1 kanupp reactor  
NT1 magnox type reactors  
NT2 berkeley reactor  
NT2 bradwell reactor  
NT2 calder hall a-1 reactor  
NT2 calder hall a-2 reactor  
NT2 calder hall b-3 reactor  
NT2 calder hall b-4 reactor  
NT2 chapelcross-1 reactor  
NT2 chapelcross-2 reactor  
NT2 chapelcross-3 reactor  
NT2 chapelcross-4 reactor  
NT2 dungeness-a reactor  
NT2 hinkley point-a reactor  
NT2 hunterston-a reactor  
NT2 latina reactor  
NT2 oldbury-a reactor  
NT2 sizewell-a reactor  
NT2 tokai-mura reactor  
NT2 trawsfynnydd reactor  
NT2 wylfa reactor  
NT1 marius reactor  
NT1 mzfi reactor  
NT1 narora-1 reactor  
NT1 narora-2 reactor  
NT1 npd reactor  
NT1 nru reactor

NT1 nrx reactor  
NT1 pickering-1 reactor  
NT1 pickering-2 reactor  
NT1 pickering-3 reactor  
NT1 pickering-4 reactor  
NT1 pickering-5 reactor  
NT1 pickering-6 reactor  
NT1 pickering-7 reactor  
NT1 pickering-8 reactor  
NT1 point lepreau-1 reactor  
NT1 point lepreau-2 reactor  
NT1 pse reactor  
NT1 r-1 reactor  
NT1 r-b reactor  
NT1 rajasthan-1 reactor  
NT1 rajasthan-2 reactor  
NT1 rajasthan-3 reactor  
NT1 rajasthan-4 reactor  
NT1 taiwan research reactor  
NT1 windscale production reactors  
NT1 wolsung-1 reactor  
NT1 wolsung-2 reactor  
NT1 wolsung-3 reactor  
NT1 wolsung-4 reactor  
NT1 x-10 reactor  
NT1 zed-2 reactor  
NT1 zeep reactor  
NT1 zephyr reactor  
RT ebr-1 reactor  
RT eole reactor  
RT nora reactor  
RT pdp reactor

**natural uranium target**

INIS: 1984-04-04; ETDE: 2002-04-16

USE uranium 238 target

**natural ventilation**

2004-05-28

USE natural convection  
USE ventilation

**nature conservation**

2004-08-26

USE environmental protection

**NATURE RESERVES**

INIS: 1992-03-30; ETDE: 1978-08-07

UF environmental parks  
UF wilderness areas  
BT1 resources  
RT biosphere  
RT ecosystems  
RT environment  
RT land use  
RT wilderness protection acts

**NAURU**

INIS: 1987-03-24; ETDE: 1987-11-24

\*BT1 micronesia  
RT pacific ocean

**NAUSEA**

BT1 symptoms  
RT digestive system diseases

**naval oil shale reserves**

INIS: 2000-03-28; ETDE: 1983-03-23

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us naval oil shale reserves

**naval petroleum reserve**

INIS: 2000-04-12; ETDE: 1979-10-03

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us naval petroleum reserves

**naval reactors**

INIS: 2000-04-12; ETDE: 1980-04-14

USE ship propulsion reactors



**NAVAL RESEARCH LABORATORY**

\*BT1 us organizations

**naval research laboratory cyclotron**

INIS: 1984-06-21; ETDE: 2002-04-16

USE nrl cyclotron

**naval research laboratory linac**

INIS: 1984-06-21; ETDE: 2002-04-16

USE nrl linac

**NAVIER-STOKES EQUATIONS**

1982-12-08

(The form NAVIER-STOKES EQUATION was used by ETDE prior to August 1980 and by INIS prior to January 1983.)

\*BT1 partial differential equations

RT equations of motion

RT fluid mechanics

RT incompressible flow

RT viscous flow

**NAVIGATION**

INIS: 1992-04-01; ETDE: 1982-03-29

Steering a course.

RT aircraft

RT barges

RT ships

RT transport

**NAVIGATIONAL INSTRUMENTS**

RT aircraft

RT buoys

RT electronic guidance

RT global positioning system

RT inertial guidance

RT rockets

RT ships

RT space vehicles

**NBI CYCLOTRON**

INIS: 1985-06-10; ETDE: 1985-07-19

UF niels bohr institute cyclotron

\*BT1 cyclotrons

**nbs (us)**

INIS: 1984-06-21; ETDE: 2002-04-16

USE us nbs

**nbs synchrotron ultraviolet radiation facility**

INIS: 1993-11-09; ETDE: 1984-08-20

USE surf ii storage ring

**NBSR REACTOR**

National Inst. of Standards and Technology, Washington, DC, USA.

UF national bureau of standards reactor

UF us nbs reactor

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 materials testing reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

**ncrp (us)**

INIS: 1984-06-21; ETDE: 2002-04-16

US National Council on Radiation Protection and Measurements.

USE us ncrp

**NCSCR-1 REACTOR**

North Carolina State College, Raleigh, North Carolina, USA.

UF north carolina state college research reactor-1

UF raleigh-ncsc research reactor-1

\*BT1 aqueous homogeneous reactors

\*BT1 enriched uranium reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**NCSR**

INIS: 1975-11-11; ETDE: 1976-06-07

National Centre of Systems Reliability.

UF national center of systems reliability

\*BT1 united kingdom organizations

RT systems analysis

**ncuspr reactor**

USE pulstar-raleigh reactor

**nda remote experiment station**

USE prr reactor

**ndpp**

ETDE: 2002-04-16

P-nitro-3-dimethylaminopropiophenone-HCl.

USE amines

USE aromatics

USE ketones

USE nitro compounds

**NEA**

1995-03-31

Nuclear Energy Agency of the OECD; until April 1972 known as European Nuclear Energy Agency.

UF enea

UF european nuclear energy agency

UF nuclear energy agency

UF nuclear energy agency (oecd)

\*BT1 oecd

**NEAR INFRARED RADIATION**

Wavelength range 0.8-2.5 microns.

\*BT1 infrared radiation

**NEAR ULTRAVIOLET RADIATION**

Wavelength range 4000-2000 A.

\*BT1 ultraviolet radiation

**NEBRASKA**

1997-06-17

\*BT1 usa

RT missouri river

RT north platte river basin

**NEBULAE**

NT1 crab nebula

NT1 planetary nebulae

NT1 solar nebula

RT cosmic dust

RT cosmic gases

RT galaxies

RT h2 regions

RT herbig-haro objects

**NEC COMPUTERS**

INIS: 1992-08-18; ETDE: 1984-10-24

Computers manufactured by Nippon Electric Company Ltd.

BT1 computers

RT supercomputers

**NECK**

1999-04-06

BT1 body

RT carotid arteries

RT larynx

RT parathyroid glands

RT pharynx

RT thyroid

**NECKAR-1 REACTOR**

INIS: 1992-03-11; ETDE: 1992-06-22

(Until March 1992, this information was indexed by NECKAR REACTOR.)

UF gemeinschaftskernkraftwerk neckar

UF gkn-1 reactor (neckar)

UF neckar reactor

SF gkn reactor (neckar)

\*BT1 pwr type reactors

**NECKAR-2 REACTOR**

1979-11-02

UF gkn-2 reactor (neckar)

SF gkn reactor (neckar)

\*BT1 pwr type reactors

**neckar reactor**

1992-05-28

(Prior to June 1992, this was a valid ETDE descriptor.)

USE neckar-1 reactor

**NECROSIS**

BT1 pathological changes

NT1 gangrene

NT1 osteoradionecrosis

RT fistulae

RT ischemia

RT ulcers

RT wounds

**NEEDLE CHAMBERS**

\*BT1 proportional counters

**neel point**

USE neel temperature

**NEEL TEMPERATURE**

UF neel point

\*BT1 transition temperature

RT antiferromagnetism

RT magnetic susceptibility

**NEGATIVE ENERGY STATES**

BT1 energy levels

**negative ions**

USE anions

**NEGATIVE MASS**

BT1 hypothesis

BT1 mass

RT special relativity theory

**NEGATIVE MASS EFFECT**

RT beam dynamics

RT negative mass instability

RT plasma instability

**NEGATIVE MASS INSTABILITY**

\*BT1 plasma microinstabilities

RT negative mass effect

**negatons**

USE electrons

**negatrons**

USE electrons

**NEGEV NUCLEAR RESEARCH CENTER**

INIS: 1979-12-20; ETDE: 1979-11-23

\*BT1 israel atomic energy commission

**NEGOTIATION**

INIS: 1993-03-12; ETDE: 1987-07-09

Action or process of conferring with others through conference, discussion, and compromise.

(From March 1981 till March 1997

MEDIATION was a valid ETDE descriptor.)

SF mediation

RT agreements

RT treaties

**NELKIN THEORY**

BT1 transport theory

**NELSON RIVER**

INIS: 2000-04-12; ETDE: 1975-10-28

\*BT1 rivers

RT canada

**NEM**

*INIS: 1976-05-07; ETDE: 1976-08-24*

*N-ethyl maleimide.*

*UF n-ethyl maleimide*

\*BT1 antimetabolic drugs

\*BT1 imides

\*BT1 radiosensitizers

**nemata**

*INIS: 2000-04-12; ETDE: 1985-05-31*

USE nematodes

**NEMATODES**

*1996-11-13*

*UF nemata*

*UF worms (round)*

*SF aschelminthes*

\*BT1 invertebrates

**NT1** ascaridae

**NT2** ascaris

**NT1** dictyocaulus

**NT1** hookworm

**NT1** trichinella

*RT filariasis*

*RT parasites*

**NEMBUTAL**

*UF pentobarbital*

\*BT1 barbiturates

**NEOCARCINOSTATIN**

*INIS: 1979-12-20; ETDE: 1980-01-24*

\*BT1 antibiotics

\*BT1 antineoplastic drugs

\*BT1 radiomimetic drugs

*RT antimetabolic drugs*

*RT chemotherapy*

*RT mutagens*

*RT neoplasms*

**NEOCLASSICAL TRANSPORT THEORY**

*INIS: 1982-11-30; ETDE: 1979-01-30*

\*BT1 charged-particle transport theory

*RT banana regime*

*RT bootstrap current*

*RT pfirsch-schlueter regime*

*RT plasma*

*RT plateau regime*

**neocupferron**

*2000-04-12*

(Prior to February 1995, this was a valid

ETDE descriptor.)

USE amines

**NEODYMIUM**

\*BT1 rare earths

**NEODYMIUM 125**

*2004-12-15*

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

**NEODYMIUM 127**

*INIS: 1984-10-19; ETDE: 1984-11-06*

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**NEODYMIUM 128**

*INIS: 1984-10-19; ETDE: 1984-11-06*

\*BT1 beta-plus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

**NEODYMIUM 129**

*INIS: 1977-06-14; ETDE: 1977-10-20*

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**NEODYMIUM 130**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**NEODYMIUM 131**

*INIS: 1977-06-14; ETDE: 1977-10-20*

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**NEODYMIUM 132**

*INIS: 1977-06-14; ETDE: 1977-10-20*

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 minutes living radioisotopes

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

**NEODYMIUM 133**

*INIS: 1977-06-14; ETDE: 1977-10-20*

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 minutes living radioisotopes

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

**NEODYMIUM 134**

*1976-01-27*

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 minutes living radioisotopes

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

**NEODYMIUM 135**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 minutes living radioisotopes

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

**NEODYMIUM 136**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 minutes living radioisotopes

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

**NEODYMIUM 137**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**NEODYMIUM 138**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 hours living radioisotopes

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

**NEODYMIUM 139**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 hours living radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

**NEODYMIUM 140**

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

**NEODYMIUM 141**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 hours living radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

**NEODYMIUM 142**

\*BT1 even-even nuclei

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

\*BT1 stable isotopes

**NEODYMIUM 142 REACTIONS**

*1984-02-23*

\*BT1 heavy ion reactions

**NEODYMIUM 142 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**NEODYMIUM 143**

\*BT1 even-odd nuclei

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

\*BT1 stable isotopes

**NEODYMIUM 143 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**NEODYMIUM 144**

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

\*BT1 years living radioisotopes

**NEODYMIUM 144 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**NEODYMIUM 145**

\*BT1 even-odd nuclei

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

\*BT1 stable isotopes

**NEODYMIUM 145 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**NEODYMIUM 146**

\*BT1 even-even nuclei

\*BT1 neodymium isotopes

\*BT1 rare earth nuclei

\*BT1 stable isotopes

**NEODYMIUM 146 TARGET***ETDE: 1976-07-09*

BT1 targets

**NEODYMIUM 147**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei

**NEODYMIUM 147 TARGET***INIS: 1980-07-24; ETDE: 1980-08-12*

BT1 targets

**NEODYMIUM 148**

\*BT1 even-even nuclei  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

**NEODYMIUM 148 TARGET***ETDE: 1976-07-09*

BT1 targets

**NEODYMIUM 149**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei

**NEODYMIUM 149 TARGET***INIS: 1980-07-24; ETDE: 1980-08-12*

BT1 targets

**NEODYMIUM 150**

\*BT1 even-even nuclei  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes  
*RT* neodymium 150 reactions

**NEODYMIUM 150 REACTIONS**

\*BT1 heavy ion reactions  
*RT* neodymium 150

**NEODYMIUM 150 TARGET***ETDE: 1976-07-09*

BT1 targets

**NEODYMIUM 151**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei

**NEODYMIUM 152**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei

**NEODYMIUM 153***INIS: 1987-08-27; ETDE: 1987-10-02*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**NEODYMIUM 154**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**NEODYMIUM 155***INIS: 1987-08-27; ETDE: 1987-09-18*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**NEODYMIUM 156***INIS: 1987-08-27; ETDE: 1987-10-02*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 neodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**NEODYMIUM ADDITIONS***Alloys containing not more than 1% Nd are listed here.*

\*BT1 neodymium alloys  
 \*BT1 rare earth additions

**NEODYMIUM ALLOYS***Alloys containing more than 1% Nd.*

\*BT1 rare earth alloys  
 NT1 neodymium additions  
 NT1 neodymium base alloys

**NEODYMIUM BASE ALLOYS**

\*BT1 neodymium alloys

**NEODYMIUM BORIDES**

\*BT1 borides  
 \*BT1 neodymium compounds

**NEODYMIUM BROMIDES**

\*BT1 bromides  
 \*BT1 neodymium compounds

**NEODYMIUM CARBIDES**

\*BT1 carbides  
 \*BT1 neodymium compounds

**NEODYMIUM CARBONATES**

\*BT1 carbonates  
 \*BT1 neodymium compounds

**NEODYMIUM CHLORIDES**

\*BT1 chlorides  
 \*BT1 neodymium compounds

**NEODYMIUM COMPLEXES**

\*BT1 rare earth complexes

**NEODYMIUM COMPOUNDS**

BT1 rare earth compounds  
 NT1 neodymium borides  
 NT1 neodymium bromides  
 NT1 neodymium carbides  
 NT1 neodymium carbonates  
 NT1 neodymium chlorides  
 NT1 neodymium fluorides  
 NT1 neodymium hydrides  
 NT1 neodymium hydroxides  
 NT1 neodymium iodides  
 NT1 neodymium nitrates  
 NT1 neodymium nitrides  
 NT1 neodymium oxides  
 NT1 neodymium perchlorates  
 NT1 neodymium phosphates  
 NT1 neodymium silicates  
 NT1 neodymium silicides  
 NT1 neodymium sulfates  
 NT1 neodymium sulfides  
 NT1 neodymium tellurides  
 NT1 neodymium tungstates

**NEODYMIUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 neodymium compounds

**NEODYMIUM HYDRIDES**

\*BT1 hydrides

\*BT1 neodymium compounds

**NEODYMIUM HYDROXIDES**

\*BT1 hydroxides  
 \*BT1 neodymium compounds

**NEODYMIUM IODIDES**

\*BT1 iodides  
 \*BT1 neodymium compounds

**NEODYMIUM IONS**

\*BT1 ions

**NEODYMIUM ISOTOPES**

BT1 isotopes  
 NT1 neodymium 125  
 NT1 neodymium 127  
 NT1 neodymium 128  
 NT1 neodymium 129  
 NT1 neodymium 130  
 NT1 neodymium 131  
 NT1 neodymium 132  
 NT1 neodymium 133  
 NT1 neodymium 134  
 NT1 neodymium 135  
 NT1 neodymium 136  
 NT1 neodymium 137  
 NT1 neodymium 138  
 NT1 neodymium 139  
 NT1 neodymium 140  
 NT1 neodymium 141  
 NT1 neodymium 142  
 NT1 neodymium 143  
 NT1 neodymium 144  
 NT1 neodymium 145  
 NT1 neodymium 146  
 NT1 neodymium 147  
 NT1 neodymium 148  
 NT1 neodymium 149  
 NT1 neodymium 150  
 NT1 neodymium 151  
 NT1 neodymium 152  
 NT1 neodymium 153  
 NT1 neodymium 154  
 NT1 neodymium 155  
 NT1 neodymium 156

**NEODYMIUM LASERS**

\*BT1 solid state lasers  
*RT* gdl facility  
*RT* gekko facility  
*RT* nova facility  
*RT* novette facility  
*RT* octal 82 facility  
*RT* omega facility  
*RT* phebus facility  
*RT* shiva facility  
*RT* trident facility  
*RT* vulcan facility

**NEODYMIUM NITRATES**

\*BT1 neodymium compounds  
 \*BT1 nitrates

**NEODYMIUM NITRIDES**

\*BT1 neodymium compounds  
 \*BT1 nitrides

**NEODYMIUM OXIDES**

\*BT1 neodymium compounds  
 \*BT1 oxides

**NEODYMIUM PERCHLORATES**

\*BT1 neodymium compounds  
 \*BT1 perchlorates

**NEODYMIUM PHOSPHATES**

\*BT1 neodymium compounds  
 \*BT1 phosphates

**NEODYMIUM SILICATES**

\*BT1 neodymium compounds  
 \*BT1 silicates

**NEODYMIUM SILICIDES**

- \*BT1 neodymium compounds
- \*BT1 silicides

**NEODYMIUM SULFATES**

- \*BT1 neodymium compounds
- \*BT1 sulfates

**NEODYMIUM SULFIDES**

- \*BT1 neodymium compounds
- \*BT1 sulfides

**NEODYMIUM TELLURIDES**

1976-03-17

- \*BT1 neodymium compounds
- \*BT1 tellurides

**NEODYMIUM TUNGSTATES**

INIS: 1980-02-26; ETDE: 1977-06-02

- \*BT1 neodymium compounds
- \*BT1 tungstates

**neogene period**

INIS: 2000-04-12; ETDE: 1977-10-20

- USE tertiary period

**NEOHYDRIN**

- UF chlormerodrin
- \*BT1 diuretics

**NEOMYCIN**

INIS: 1999-02-26; ETDE: 1981-04-20

(Until February 1999, this concept was indexed by the broader term ANTIBIOTICS.)

- \*BT1 antibiotics

**NEON**

- \*BT1 rare gases

**NEON 16**

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes

**NEON 17**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 neon isotopes

**NEON 18**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes
- \*BT1 seconds living radioisotopes

**NEON 19**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes
- \*BT1 seconds living radioisotopes

**NEON 19 BEAMS**

INIS: 1988-11-16; ETDE: 1988-12-02

- \*BT1 radioactive ion beams

**NEON 20**

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes
- \*BT1 stable isotopes
- RT neon 20 beams
- RT neon 20 reactions

**NEON 20 BEAMS**

- \*BT1 ion beams
- RT neon 20

**NEON 20 REACTIONS**

- \*BT1 heavy ion reactions
- RT neon 20

**NEON 20 TARGET**

ETDE: 1976-07-09

- BT1 targets

**NEON 21**

- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes
- \*BT1 stable isotopes

**NEON 21 TARGET**

ETDE: 1976-07-09

- BT1 targets

**NEON 22**

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes
- \*BT1 stable isotopes
- RT neon 22 beams
- RT neon 22 reactions

**NEON 22 BEAMS**

- \*BT1 ion beams
- RT neon 22

**NEON 22 REACTIONS**

- \*BT1 heavy ion reactions
- RT neon 22

**NEON 22 TARGET**

ETDE: 1976-07-09

- BT1 targets

**NEON 23**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes
- \*BT1 seconds living radioisotopes

**NEON 24**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 neon isotopes

**NEON 24 DECAY RADIOISOTOPES**

INIS: 1986-03-04; ETDE: 1989-06-23

- \*BT1 heavy ion decay radioisotopes
- NT1 protactinium 231
- NT1 thorium 230
- NT1 uranium 232
- NT1 uranium 233
- NT1 uranium 234
- RT neon 24 emission decay

**NEON 24 EMISSION DECAY**

INIS: 1986-03-04; ETDE: 1989-06-23

- \*BT1 heavy ion emission decay
- RT neon 24 decay radioisotopes

**NEON 25**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 neon isotopes

**NEON 26**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 neon isotopes

**NEON 27**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes

**NEON 28**

INIS: 1979-09-18; ETDE: 1979-04-11

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes

**NEON 29**

1985-10-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes

**NEON 29 REACTIONS**

INIS: 1992-09-23; ETDE: 1985-07-23

- \*BT1 heavy ion reactions

**NEON 30**

1985-10-22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes

**NEON 32**

INIS: 1990-07-24; ETDE: 1990-08-06

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 neon isotopes

**NEON CHLORIDES**

- \*BT1 chlorides
- \*BT1 neon compounds

**NEON COMPLEXES**

- BT1 complexes

**NEON COMPOUNDS**

1996-06-28

- UF neon oxides
- BT1 rare gas compounds
- NT1 neon chlorides
- NT1 neon fluorides
- NT1 neon hydrides
- NT1 neon iodides

**NEON FLUORIDES**

- \*BT1 fluorides
- \*BT1 neon compounds

**NEON HYDRIDES**

- \*BT1 hydrides
- \*BT1 neon compounds

**NEON IODIDES**

- \*BT1 iodides
- \*BT1 neon compounds

**NEON IONS**

- \*BT1 ions

**NEON ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 neon 16
- NT1 neon 17
- NT1 neon 18
- NT1 neon 19
- NT1 neon 20
- NT1 neon 21
- NT1 neon 22
- NT1 neon 23
- NT1 neon 24
- NT1 neon 25
- NT1 neon 26
- NT1 neon 27
- NT1 neon 28
- NT1 neon 29
- NT1 neon 30
- NT1 neon 32

**neon oxides**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE neon compounds

USE oxides

**NEONATES**

INIS: 1976-07-08; ETDE: 1976-03-11

Newborn animals.

SF newborns

BT1 animals

RT age groups

RT infants

RT teratogens

**neopentane**

USE 2-2-dimethylpropane

**NEOPLASMS**

UF cancer

UF malignancies

UF tumors

BT1 diseases

NT1 carcinomas

NT2 adenomas

NT2 angiomas

NT2 epitheliomas

NT3 melanomas

NT2 hepatomas

NT1 experimental neoplasms

NT2 ehrlich ascites tumor

NT1 gliomas

NT2 astrocytomas

NT1 granulomas

NT1 leukemia

NT2 myeloid leukemia

NT1 lymphomas

NT2 hodgkins disease

NT2 lymphosarcomas

NT1 sarcomas

NT2 fibrosarcomas

NT2 lymphosarcomas

NT2 myosarcomas

NT1 rhabdomyosarcomas

NT2 osteosarcomas

RT antimitotic drugs

RT antineoplastic drugs

RT ascites

RT ascites tumor cells

RT bleomycin

RT carcinoembryonic antigen

RT carcinogenesis

RT carcinogens

RT combined therapy

RT delayed radiation effects

RT dimethylbenzanthracene

RT metastases

RT neocarcinostatin

RT radioimmunodetection

RT tumor cells

RT tumor promoters

**NEOPRENE**

UF 2-chloro-1,3-butadiene

UF chlorobutadiene

UF chloroprene

\*BT1 elastomers

\*BT1 organic chlorine compounds

\*BT1 organic polymers

RT butadiene

**NEP-1 REACTOR**

INIS: 1977-06-13; ETDE: 1977-01-28

New England Power Co., Charlestown, Rhode Island, USA. Canceled in 1979 before construction began.

UF new england power-1 reactor

UF new england power company nuclear project-1

\*BT1 pwr type reactors

**NEP-2 REACTOR**

INIS: 1977-06-13; ETDE: 1977-01-28

New England Power Co., Charlestown, Rhode Island, USA. Canceled in 1979 before construction began.

UF new england power-2 reactor

UF new england power company nuclear project-2

\*BT1 pwr type reactors

**nepa**

1977-03-14

USE us national environmental policy act

**NEPAL**

BT1 asia

BT1 developing countries

**NEPHELINE BASALTS**

INIS: 2000-04-12; ETDE: 1980-08-12

\*BT1 volcanic rocks

RT basalt

**NEPHRECTOMY**

\*BT1 surgery

RT kidneys

**NEPHRITIS**

\*BT1 urogenital system diseases

RT kidneys

**NEPHROSCLEROSIS**

\*BT1 cardiovascular diseases

\*BT1 urogenital system diseases

\*BT1 vascular diseases

RT kidneys

**nepotism**

INIS: 2000-04-12; ETDE: 1983-03-23

SEE personnel management

**neptex process**

1996-06-28

(Until June 1996 this was a valid descriptor.)

USE reprocessing

**NEPTUNE PLANET**

BT1 planets

**NEPTUNE REACTOR**

UF derby-zpr neptune

\*BT1 zero power reactors

**NEPTUNIUM**

1996-06-28

UF neptunium-beta

\*BT1 actinides

\*BT1 transuranium elements

NT1 neptunium-alpha

NT1 neptunium-gamma

**NEPTUNIUM 225**

1992-03-18

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-even nuclei

**NEPTUNIUM 226**

INIS: 1990-12-05; ETDE: 1991-01-15

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 milliseconds living radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-odd nuclei

**NEPTUNIUM 227**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 milliseconds living radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-even nuclei

**NEPTUNIUM 228**

\*BT1 actinide nuclei

\*BT1 neptunium isotopes

\*BT1 odd-odd nuclei

**NEPTUNIUM 229**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-even nuclei

**NEPTUNIUM 230**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-odd nuclei

**NEPTUNIUM 231**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-even nuclei

**NEPTUNIUM 232**

\*BT1 actinide nuclei

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-odd nuclei

**NEPTUNIUM 232 TARGET**

INIS: 1976-07-06; ETDE: 1976-08-24

BT1 targets

**NEPTUNIUM 233**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-even nuclei

**NEPTUNIUM 234**

\*BT1 actinide nuclei

\*BT1 beta-plus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-odd nuclei

**NEPTUNIUM 235**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-even nuclei

\*BT1 years living radioisotopes

**NEPTUNIUM 236**

\*BT1 actinide nuclei

\*BT1 beta-minus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 internal conversion radioisotopes

\*BT1 neptunium isotopes

\*BT1 odd-odd nuclei

\*BT1 years living radioisotopes

**NEPTUNIUM 236 TARGET**

INIS: 1981-07-06; ETDE: 1981-08-04

BT1 targets

**NEPTUNIUM 237**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 nanoseconds living radioisotopes

- \*BT1 neptunium isotopes
- \*BT1 odd-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**NEPTUNIUM 237 TARGET***ETDE: 1976-07-09*

- BT1 targets

**NEPTUNIUM 238**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-odd nuclei

**NEPTUNIUM 238 TARGET***INIS: 1977-11-21; ETDE: 1978-03-08*

- BT1 targets

**NEPTUNIUM 239**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-even nuclei

**NEPTUNIUM 239 TARGET***INIS: 1984-02-23; ETDE: 1979-08-09*

- BT1 targets

**NEPTUNIUM 240**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-odd nuclei

**NEPTUNIUM 241**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-even nuclei

**NEPTUNIUM 242***INIS: 1981-09-17; ETDE: 1979-07-24*

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-odd nuclei

**NEPTUNIUM 243***INIS: 1979-09-18; ETDE: 1979-04-12*

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-even nuclei

**NEPTUNIUM 244***INIS: 1987-02-25; ETDE: 1987-05-01*

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 neptunium isotopes
- \*BT1 odd-odd nuclei

**NEPTUNIUM ADDITIONS***Alloys containing not more than 1% Np are listed here.*

- \*BT1 neptunium alloys

**NEPTUNIUM ALLOYS***Alloys containing more than 1% Np.*

- UF neptunium base alloys
- \*BT1 actinide alloys
- NT1 neptunium additions

**NEPTUNIUM-ALPHA**

- \*BT1 neptunium

**NEPTUNIUM ARSENIDES**

- \*BT1 arsenides
- \*BT1 neptunium compounds

**neptunium base alloys***(Prior to March 1997 this was a valid descriptor.)*

- USE neptunium alloys

**neptunium-beta***INIS: 1996-06-28; ETDE: 2002-04-16**(Until June 1996 this was a valid descriptor.)*

- USE neptunium

**neptunium borides***1997-01-28**(Until October 1996 this was a valid descriptor.)*

- USE borides
- USE neptunium compounds

**NEPTUNIUM BROMIDES**

- \*BT1 bromides
- \*BT1 neptunium compounds

**NEPTUNIUM CARBIDES**

- \*BT1 carbides
- \*BT1 neptunium compounds

**NEPTUNIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 neptunium compounds

**NEPTUNIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 neptunium compounds

**NEPTUNIUM COMPLEXES**

- \*BT1 actinide complexes
- \*BT1 transuranium complexes
- NT1 neptunyl complexes

**NEPTUNIUM COMPOUNDS***1996-11-13*

- UF neptunium borides
- UF neptunium phosphates
- BT1 actinide compounds
- BT1 transuranium compounds
- NT1 neptunium arsenides
- NT1 neptunium bromides
- NT1 neptunium carbides
- NT1 neptunium carbonates
- NT1 neptunium chlorides
- NT1 neptunium fluorides
- NT1 neptunium hydrides
- NT1 neptunium hydroxides
- NT1 neptunium iodides
- NT1 neptunium nitrates
- NT1 neptunium nitrides
- NT1 neptunium oxides
- NT1 neptunium perchlorates
- NT1 neptunium phosphides
- NT1 neptunium selenides
- NT1 neptunium sulfates
- NT1 neptunium sulfides
- NT1 neptunium tellurides
- NT1 neptunyl compounds

**NEPTUNIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 neptunium compounds

**NEPTUNIUM-GAMMA**

- \*BT1 neptunium

**NEPTUNIUM HYDRIDES***INIS: 1976-11-17; ETDE: 1976-03-11*

- \*BT1 hydrides
- \*BT1 neptunium compounds

**NEPTUNIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 neptunium compounds

**NEPTUNIUM IODIDES**

- \*BT1 iodides
- \*BT1 neptunium compounds

**NEPTUNIUM IONS**

- \*BT1 ions

**NEPTUNIUM ISOTOPES***1999-07-16*

- BT1 isotopes
- NT1 neptunium 225
- NT1 neptunium 226
- NT1 neptunium 227
- NT1 neptunium 228
- NT1 neptunium 229
- NT1 neptunium 230
- NT1 neptunium 231
- NT1 neptunium 232
- NT1 neptunium 233
- NT1 neptunium 234
- NT1 neptunium 235
- NT1 neptunium 236
- NT1 neptunium 237
- NT1 neptunium 238
- NT1 neptunium 239
- NT1 neptunium 240
- NT1 neptunium 241
- NT1 neptunium 242
- NT1 neptunium 243
- NT1 neptunium 244

**NEPTUNIUM NITRATES**

- \*BT1 neptunium compounds
- \*BT1 nitrates

**NEPTUNIUM NITRIDES**

- \*BT1 neptunium compounds
- \*BT1 nitrides

**NEPTUNIUM OXIDES**

- \*BT1 neptunium compounds
- \*BT1 oxides

**NEPTUNIUM PERCHLORATES***1977-01-26*

- \*BT1 neptunium compounds
- \*BT1 perchlorates

**neptunium phosphates***INIS: 1997-01-28; ETDE: 1982-02-23**(Until October 1996 this was a valid descriptor.)*

- USE neptunium compounds
- USE phosphates

**NEPTUNIUM PHOSPHIDES**

- \*BT1 neptunium compounds
- \*BT1 phosphides

**NEPTUNIUM SELENIDES***INIS: 1977-06-13; ETDE: 1976-01-23*

- \*BT1 neptunium compounds
- \*BT1 selenides

**NEPTUNIUM SULFATES**

- \*BT1 neptunium compounds
- \*BT1 sulfates

**NEPTUNIUM SULFIDES**

- \*BT1 neptunium compounds
- \*BT1 sulfides

**NEPTUNIUM TELLURIDES***1976-02-24*

- \*BT1 neptunium compounds
- \*BT1 tellurides

**NEPTUNYL COMPLEXES***1983-09-06*

- \*BT1 neptunium complexes
- RT neptunyl compounds

**NEPTUNYL COMPOUNDS**

- \*BT1 neptunium compounds  
RT neptunyl complexes

**NERNST EFFECT**

*When heat flows across the lines of a magnetic field, an EMF is produced in the mutually perpendicular direction.*

- UF *nernst-ettinghausen effect*  
RT hall effect

**nernst-ettinghausen effect**

- USE nernst effect

**NERNST HEAT THEOREM**

- RT thermodynamics

**nerva nrx-a1 reactor**

2000-04-12

- USE nrx-a1 reactor

**nerva nrx-a2 reactor**

- USE nrx-a2 reactor

**nerva nrx-a3 reactor**

- USE nrx-a3 reactor

**nerva nrx-a4 engine system test reactor**

1993-11-09

- USE nrx-a4-est reactor

**nerva nrx-a5 reactor**

- USE nrx-a5 reactor

**nerva nrx-a6 reactor**

- USE nrx-a6 reactor

**nerva nrx-a7 reactor**

2000-04-12

- USE nrx-a7 reactor

**nerva nuclear rocket engine**

- USE nerva reactor

**NERVA REACTOR**

LASL, Los Alamos, New Mexico, USA.

UF *nerva nuclear rocket engine*

- \*BT1 hydrogen cooled reactors  
\*BT1 space propulsion reactors  
RT xe-2 reactor

**NERVE CELLS**

- UF *axons*  
UF *neurons*  
\*BT1 somatic cells  
RT bioelectricity  
RT myelin  
RT nerve tissue  
RT nervous system  
RT receptors

**NERVE TISSUE**

- \*BT1 animal tissues  
RT nerve cells  
RT nerves

**NERVES**

- BT1 nervous system  
NT1 sciatic nerve  
NT1 vagus  
RT herpes zoster  
RT myelin  
RT nerve tissue  
RT reflexes

**NERVOUS SYSTEM**

- NT1 autonomic nervous system  
NT2 vagus  
NT1 central nervous system  
NT2 brain  
NT3 cerebellum  
NT3 cerebrum

NT4 cerebral cortex

NT3 hippocampus

NT3 hypothalamus

NT3 olfactory bulbs

NT3 thalamus

NT2 spinal cord

NT1 ganglions

NT1 nerves

NT2 sciatic nerve

NT2 vagus

RT nerve cells

RT nervous system diseases

RT organs

RT pain

RT poliomyelitis

RT reflexes

RT retina

RT sense organs

**NERVOUS SYSTEM DISEASES**

BT1 diseases

NT1 encephalitis

NT1 epilepsy

NT1 gliomas

NT2 astrocytomas

NT1 herpes zoster

NT1 myelitis

NT2 poliomyelitis

NT1 rabies

RT meningococcus

RT mental disorders

RT nervous system

RT neurology

RT sense organs diseases

**NESTOR REACTOR**

UKAEA, Winfrith, United Kingdom.

UF *neutron source thermal reactor*

UF *ukaea-nestor reactor*

\*BT1 argonaut type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**NESTS**

INIS: 1991-08-12; ETDE: 1985-10-10

*The place where the eggs of animals are laid and hatched and the young are reared.*

RT animal breeding

RT habitat

RT reproduction

**NET ENERGY**

2000-04-12

*Difference of energy output and energy input.*

BT1 energy

BT1 energy analysis

RT efficiency

RT energy accounting

RT energy consumption

RT energy efficiency

RT energy substitution equivalent

RT energy yield

**net material product**

INIS: 2000-04-12; ETDE: 1979-11-07

*The analogue of gross national product for countries with centrally planned economies.*

(Prior to February 1995, this was a valid ETDE descriptor.)

SEE gross domestic product

SEE gross national product

**NET TOKAMAK**

1986-02-28

UF *next european torus*

\*BT1 tokamak devices

**net trade**

INIS: 2000-04-12; ETDE: 1979-02-23

*Exports minus imports.*

(Prior to May 1996 this was a valid ETDE descriptor.)

USE trade

**NETHERLANDS**

1995-04-03

BT1 developed countries

\*BT1 western europe

RT oecd

RT rhine river

RT wadden sea

**NETHERLANDS ANTILLES**

INIS: 1992-06-04; ETDE: 1979-12-10

\*BT1 lesser antilles

**NETHERLANDS ORGANIZATIONS**

BT1 national organizations

NT1 ecn

NT2 rcn

NT1 iko

NT1 iri

NT1 kvi

NT1 nikhef

**NETR REACTOR**

2000-04-12

*Wright-Patterson Air Force Base, Dayton, Ohio, USA.*

UF *nuclear engineering test reactor*

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**NETWORK ANALYSIS**

INIS: 1983-06-02; ETDE: 1976-07-07

*Derivation of the electrical properties of a network from its configuration, element values and driving forces.*

RT circuit theory

RT configuration

RT mathematics

**networks (computer)**

INIS: 2000-04-12; ETDE: 1976-11-02

USE computer networks

**neuberberg research reactor**

USE fnr reactor

**neumann functions**

INIS: 1975-11-07; ETDE: 2002-04-16

USE bessel functions

**NEUMANN SERIES**

1984-02-22

*An arbitrary function expanded in terms of Bessel functions.*

BT1 series expansion

RT bessel functions

**NEUPOTZ-1 REACTOR**

INIS: 1978-07-31; ETDE: 1978-09-11

*Neupotz, Rheinlandpfalz, Federal Republic of Germany.*

\*BT1 pwr type reactors

**NEUPOTZ-2 REACTOR**

INIS: 1978-07-31; ETDE: 1978-09-11

*Neupotz, Rheinlandpfalz, Federal Republic of Germany.*

\*BT1 pwr type reactors

**NEURAL NETWORKS**

INIS: 1989-09-15; ETDE: 1989-10-16

*Computer programs built of linear arrays of processing elements grouped together to*

*simulate the interconnections between the neurons and the learning rules of the brain.*

RT artificial intelligence  
RT computer architecture  
RT expert systems

### neuridine

USE spermine

### NEUROLOGY

BT1 medicine  
RT nervous system diseases

### neuron transmission

INIS: 2000-04-12; ETDE: 1982-07-27  
USE bioelectricity

### neurons

USE nerve cells

### NEUROREGULATORS

INIS: 1984-05-24; ETDE: 1981-04-20  
\*BT1 autonomic nervous system agents  
NT1 acetylcholine  
NT1 adrenaline  
NT1 aminobutyric acid  
NT1 dopa  
NT1 dopamine  
NT1 endorphins  
NT2 enkephalins  
NT1 noradrenaline  
NT1 serotonin  
NT2 bufotenine  
RT parasympatholytics  
RT parasympathomimetics  
RT sympatholytics  
RT sympathomimetics

### NEUROSPORA

\*BT1 eumycota

### NEUTRAL ATOM BEAM INJECTION

BT1 beam injection  
RT atomic beam sources  
RT neutral beam sources

### NEUTRAL BEAM SOURCES

INIS: 1982-11-30; ETDE: 1977-03-04  
*Not for subatomic species.*  
NT1 atomic beam sources  
RT ion sources  
RT neutral atom beam injection

### NEUTRAL-CURRENT INTERACTIONS

1995-08-10  
\*BT1 particle interactions  
RT basic interactions  
RT neutral currents  
RT weinberg angle

### NEUTRAL CURRENTS

UF currents (neutral)  
\*BT1 algebraic currents  
NT1 weak neutral currents  
RT charged currents  
RT electromagnetic interactions  
RT neutral-current interactions  
RT weak interactions

### NEUTRAL PARTICLE ANALYZERS

INIS: 2000-04-12; ETDE: 1997-08-30  
\*BT1 spectrometers  
RT charge exchange  
RT plasma diagnostics

### NEUTRAL-PARTICLE TRANSPORT

INIS: 1975-09-09; ETDE: 1975-10-28  
UF transport (neutral-particle)  
BT1 radiation transport  
NT1 atom transport  
NT1 neutron transport

NT1 photon transport  
RT neutral particles

### NEUTRAL PARTICLES

*See also the list under ELEMENTARY PARTICLES.*  
RT missing mass  
RT missing-mass spectrometers  
RT neutral-particle transport

### neutral red

1996-10-23  
(Until October 1996 this was a valid descriptor.)  
USE amines  
USE indicators  
USE pyrazines

### neutralization (beam)

USE beam neutralization

### neutralization (chemical)

USE ph value

### neutralization (physical)

*Of electrons, holes, or radicals; not for the concept covered by BEAM NEUTRALIZATION.*  
USE recombination

### neutrettos

USE muon neutrinos

### NEUTRINO BEAMS

\*BT1 lepton beams  
NT1 antineutrino beams

### NEUTRINO DETECTION

\*BT1 radiation detection  
RT dumand project  
RT sudbury neutrino observatory

### neutrino-deuteron interactions

(Prior to May 1996 this was a valid ETDE descriptor.)  
USE neutrino-neutron interactions  
USE neutrino-proton interactions

### NEUTRINO-ELECTRON INTERACTIONS

\*BT1 lepton-lepton interactions  
NT1 antineutrino-electron interactions

### NEUTRINO-MESON INTERACTIONS

\*BT1 lepton-meson interactions

### NEUTRINO-MUON INTERACTIONS

\*BT1 lepton-lepton interactions

### NEUTRINO-NEUTRINO INTERACTIONS

\*BT1 lepton-lepton interactions

### NEUTRINO-NEUTRON INTERACTIONS

(From January 1975 till May 1996 NEUTRINO-DEUTERON INTERACTIONS was a valid ETDE descriptor.)  
UF neutrino-deuteron interactions  
\*BT1 neutrino-nucleon interactions  
NT1 antineutrino-neutron interactions

### NEUTRINO-NUCLEON INTERACTIONS

\*BT1 lepton-nucleon interactions  
NT1 antineutrino-nucleon interactions  
NT2 antineutrino-neutron interactions  
NT2 antineutrino-proton interactions  
NT1 neutrino-neutron interactions  
NT2 antineutrino-neutron interactions  
NT1 neutrino-proton interactions  
NT2 antineutrino-proton interactions

### NEUTRINO OSCILLATION

INIS: 1983-10-14; ETDE: 1983-11-09  
*Periodic transformation of two or more kinds of neutrinos into each other; interference of mass and charge eigenstates.*  
RT mixing ratio  
RT neutrinos  
RT weak interactions

### NEUTRINO-PROTON INTERACTIONS

(From January 1975 till May 1996 NEUTRINO-DEUTERON INTERACTIONS was a valid ETDE descriptor.)  
UF neutrino-deuteron interactions  
\*BT1 neutrino-nucleon interactions  
NT1 antineutrino-proton interactions

### NEUTRINO REACTIONS

\*BT1 lepton reactions

### NEUTRINOS

\*BT1 leptons  
\*BT1 massless particles  
NT1 antineutrinos  
NT2 electron antineutrinos  
NT2 muon antineutrinos  
NT1 cosmic neutrinos  
NT1 electron neutrinos  
NT2 electron antineutrinos  
NT1 muon neutrinos  
NT2 muon antineutrinos  
NT1 solar neutrinos  
NT1 tau neutrinos  
RT feynman-gell-mann theory  
RT leptonic decay  
RT neutrino oscillation  
RT semileptonic decay  
RT two-component neutrino theory

### NEUTRON ABSORBERS

NT1 absorber pellets  
NT1 burnable poisons  
RT control elements  
RT reactor control systems  
RT reactor materials  
RT regulating rods  
RT scram rods  
RT shim rods

### NEUTRON ACTIVATION ANALYSIS

1978-11-24  
UF analysis (neutron activation)  
UF naa  
\*BT1 activation analysis  
RT neutron activation analyzers

### NEUTRON ACTIVATION ANALYZERS

BT1 measuring instruments  
RT activation analysis  
RT neutron activation analysis  
RT nuclear reaction analyzers

### NEUTRON AGE

UF fermi age  
RT fermi age theory  
RT neutron flux  
RT slowing-down

### NEUTRON-ANTINEUTRON INTERACTIONS

(Prior to February 1995 ANTINEUTRON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)  
UF antineutron-deuteron interactions  
\*BT1 nucleon-antinucleon interactions

### NEUTRON BEAMS

\*BT1 nucleon beams  
RT neutron guides



RT neutrons  
RT pulsed neutron techniques

**neutron bombs**

INIS: 2000-04-12; ETDE: 1981-03-16  
USE enhanced radiation weapons

**NEUTRON CAMERAS**

INIS: 1978-07-03; ETDE: 1977-09-19  
BT1 cameras  
RT neutron diffractometers  
RT neutron radiography

**neutron capture**

USE capture  
USE neutron reactions

**NEUTRON CAPTURE THERAPY**

\*BT1 neutron therapy  
RT radioactivation

**neutron capture-to-fission ratio**

1993-11-09  
USE capture-to-fission ratio

**NEUTRON CHOPPERS**

UF choppers (neutron)  
BT1 beam pulsers  
RT neutron spectrometers  
RT shutters

**NEUTRON CONVERTERS**

RT neutron sources  
RT slowing-down  
RT ultracold neutrons

**NEUTRON-DEFICIENT ISOTOPES**

\*BT1 radioisotopes  
RT delayed proton precursors  
RT delayed protons

**NEUTRON DENSITY**

UF density (neutron)  
RT neutrons  
RT power density

**NEUTRON DETECTION**

\*BT1 radiation detection  
RT neutron detectors  
RT neutron dosimetry  
RT neutron monitors  
RT neutron-photon converters  
RT neutron spectrometers  
RT neutron spectroscopy  
RT radiation detectors

**NEUTRON DETECTORS**

\*BT1 radiation detectors  
NT1 activation detectors  
NT1 bf3 counters  
NT1 boron coated ion chambers  
NT1 boron lined counters  
NT1 fission chambers  
NT1 fission foil detectors  
NT1 fission thermocouple detectors  
NT1 he-3 counters  
NT1 moderating detectors  
NT2 bonner sphere detectors  
NT2 long counters  
NT1 proton recoil detectors  
NT1 self-powered neutron detectors  
NT1 threshold detectors  
RT neutron detection  
RT neutron dosimetry  
RT neutron monitors  
RT neutron thermopiles  
RT reactor control systems

**neutron-deuteron interactions**

(Prior to May 1996 this was a valid ETDE descriptor.)  
USE neutron-neutron interactions

USE proton-neutron interactions

**NEUTRON DIFFRACTION**

UF diffraction (neutron)  
UF rocking curve  
\*BT1 diffraction  
RT crystallography  
RT diffuse scattering  
RT neutron diffractometers  
RT neutron-photon converters  
RT structural chemical analysis

**NEUTRON DIFFRACTOMETERS**

\*BT1 diffractometers  
RT crystallography  
RT neutron cameras  
RT neutron diffraction

**NEUTRON DIFFUSION EQUATION**

\*BT1 diffusion equations  
RT fick laws  
RT flux synthesis  
RT homogenization methods  
RT neutron transport theory

**NEUTRON DOSIMETRY**

BT1 dosimetry  
RT albedo-neutron doseimeters  
RT bubble doseimeters  
RT neutron detection  
RT neutron detectors  
RT neutron monitors

**neutron economy**

USE neutron flux

**NEUTRON EMISSION**

UF neutron evaporation  
BT1 emission  
RT liquid drop model

**neutron evaporation**

USE neutron emission

**NEUTRON FLUENCE**

UF fluence (neutron)  
NT1 damaging neutron fluence  
NT2 equivalent fission fluence  
RT neutron flux

**NEUTRON FLUX**

UF flux (neutron)  
UF neutron economy  
UF neutron flux density  
BT1 radiation flux  
NT1 adjoint flux  
RT damaging neutron fluence  
RT disadvantage factor  
RT flux synthesis  
RT heterogeneous effects  
RT homogenization methods  
RT neutron age  
RT neutron fluence  
RT neutron flux flattening  
RT neutron flux tilting  
RT neutron importance function  
RT neutrons

**neutron flux density**

USE flux density  
USE neutron flux

**NEUTRON FLUX FLATTENING**

UF flattening (neutron flux)  
RT neutron flux

**NEUTRON FLUX TILTING**

UF tilting (neutron flux)  
RT neutron flux

**NEUTRON-GAMMA LOGGING**

INIS: 1976-10-29; ETDE: 1976-06-07  
Neutron source and gamma detector.  
UF chlorine logs  
UF oxygen logs  
UF thermal decay time log  
SF hydrogen logs  
\*BT1 neutron logging

**NEUTRON GENERATORS**

INIS: 1982-12-06; ETDE: 1983-02-09  
Usually low-energy accelerators used to produce neutrons by nuclear reactions, e.g. T(d, n).  
\*BT1 neutron sources

**NEUTRON GUIDES**

INIS: 1985-11-19; ETDE: 1985-12-13  
RT neutron beams  
RT neutron reflectors  
RT neutron sources  
RT neutron transport  
RT pulsed neutron techniques  
RT reactor channels  
RT ultracold neutrons

**neutron halos**

1995-07-03  
USE nuclear halos

**neutron heating**

2000-04-12  
USE radiation heating

**NEUTRON IMPORTANCE FUNCTION**

UF importance function (neutron)  
BT1 functions  
RT adjoint flux  
RT neutron flux  
RT perturbation theory

**neutron international standard neutron source**

INIS: 1993-11-09; ETDE: 2002-04-16  
USE nisis facility

**neutron international standard uranium source**

2000-04-12  
USE nisis facility

**NEUTRON LEAKAGE**

UF leakage (neutron)  
RT neutron transport theory

**neutron lifetime log**

INIS: 2000-04-12; ETDE: 1979-03-27  
USE neutron-neutron logging

**NEUTRON LOGGING**

INIS: 1977-01-26; ETDE: 1976-08-24  
Well logging using neutron source.  
SF hydrogen logs  
\*BT1 radioactivity logging  
NT1 neutron-gamma logging  
NT1 neutron-neutron logging  
RT neutron probes

**neutron matter**

INIS: 1981-08-18; ETDE: 1981-09-22  
USE nuclear matter

**neutron moisture meters**

USE moisture gages

**NEUTRON MONITORS**

\*BT1 radiation monitors  
RT neutron detection  
RT neutron detectors  
RT neutron dosimetry  
RT reactor control systems

**neutron multiplier facility**

USE subcritical assemblies

**NEUTRON-NEUTRON INTERACTIONS**

(From February 1975 till May 1996 NEUTRON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

UF *neutron-deuteron interactions*  
\*BT1 nucleon-nucleon interactions

**NEUTRON-NEUTRON LOGGING**

INIS: 1976-10-29; ETDE: 1976-06-07

*Neutron source and neutron detector.*

UF *neutron lifetime log*  
SF *hydrogen logs*  
\*BT1 neutron logging

**NEUTRON OSCILLATION**

INIS: 1985-11-19; ETDE: 1985-12-13

*Process of a reversible neutron-antineutron transformation.*

RT antineutrons  
RT baryon number  
RT neutrons

**NEUTRON-PHOTON CONVERTERS**

RT neutron detection  
RT neutron diffraction  
RT neutron radiography  
RT photographic film detectors

**NEUTRON PROBES**

INIS: 1986-03-04; ETDE: 1989-06-23

BT1 probes  
RT moisture gages  
RT neutron logging  
RT neutron reactions  
RT neutron sources

**NEUTRON RADIOGRAPHY**

\*BT1 industrial radiography  
RT neutron cameras  
RT neutron-photon converters

**NEUTRON REACTIONS**

UF *neutron capture*  
\*BT1 nucleon reactions  
NT1 fast fission  
NT1 thermal fission  
RT neutron probes  
RT neutron sputtering

**NEUTRON REFLECTORS**

UF *reflectors (neutron)*  
RT configuration control  
RT neutron guides  
RT reflector savings

**NEUTRON-RICH ISOTOPES**

INIS: 1976-07-16; ETDE: 1975-11-11

\*BT1 beta-minus decay radioisotopes  
RT beta-delayed neutrons

**NEUTRON SEPARATION ENERGY**

\*BT1 binding energy  
RT neutrons

**NEUTRON SLOWING-DOWN THEORY**

1996-07-08

(Prior to August 1996 SELENGUT-GOERTZEL EQUATION was a valid ETDE descriptor.)

UF *selengut approximation*  
UF *selengut-goertzel equation*  
UF *slowing-down theory (neutron)*  
SF *greuling-goertzel approximation*  
NT1 fermi age theory  
RT moderators  
RT neutron spectra  
RT neutron transport theory

RT placzec function  
RT reactor physics  
RT slowing-down  
RT slowing-down kernels  
RT spencer-fano theory  
RT wick method

**NEUTRON SOURCE FACILITIES**

INIS: 1994-07-01; ETDE: 1977-10-20

UF *deuterium-lithium high flux neutron source facility*  
UF *high flux neutron source facility*  
NT1 ipns-i synchrotron  
RT hanford reservation  
RT linear accelerators

**neutron source thermal reactor**

USE nestor reactor

**NEUTRON SOURCES**

*Excludes reactors even when used as neutron sources.*

UF *ing linac*  
UF *intense neutron generator linac*  
\*BT1 particle sources  
NT1 neutron generators  
NT1 nisis facility  
RT neutron converters  
RT neutron guides  
RT neutron probes  
RT neutrons  
RT radioactivation  
RT sigma piles  
RT sora reactor  
RT thermal columns

**NEUTRON SPECTRA**

UF *spectra (neutron)*  
BT1 spectra  
NT1 watt fission spectrum  
RT neutron slowing-down theory  
RT neutrons  
RT spectra unfolding  
RT spectral hardening

**NEUTRON SPECTROMETERS**

\*BT1 spectrometers  
NT1 bonner sphere spectrometers  
RT neutron choppers  
RT neutron detection

**neutron spectrometry**

INIS: 1975-10-23; ETDE: 2002-04-16

USE neutron spectroscopy

**NEUTRON SPECTROSCOPY**

UF *neutron spectrometry*  
BT1 spectroscopy  
RT neutron detection

**NEUTRON SPUTTERING**

INIS: 2000-04-12; ETDE: 1977-08-24

BT1 sputtering  
RT neutron reactions  
RT physical radiation effects

**NEUTRON STARS**

BT1 stars  
RT accretion disks  
RT gravitational collapse  
RT neutrons  
RT nuclear matter  
RT pulsars  
RT starquakes

**NEUTRON TEMPERATURE**

UF *temperature (neutron)*  
RT energy  
RT neutrons  
RT thermal neutrons

**NEUTRON THERAPY**

INIS: 1976-02-11; ETDE: 1976-04-19

\*BT1 radiotherapy  
NT1 neutron capture therapy

**NEUTRON THERMOPILES**

RT neutron detectors

**NEUTRON TRANSFER**

RT neutrons  
RT transfer reactions

**NEUTRON TRANSPORT**

UF *transport (neutron)*  
\*BT1 neutral-particle transport  
RT neutron guides  
RT neutron transport theory

**NEUTRON TRANSPORT THEORY**

1996-01-24

(Prior to March 1997 HAYWOOD MODEL and ROSENBLUTH-NELKIN model were valid ETDE descriptors.)

UF *haywood model*  
SF *rosenbluth-nelkin model*  
BT1 transport theory  
NT1 multigroup theory  
NT1 one-group theory  
RT adjoint difference method  
RT albedo  
RT collision probability method  
RT discrete ordinate method  
RT extrapolation length  
RT feynman method  
RT fick laws  
RT homogenization methods  
RT milne problem  
RT monte carlo method  
RT neutron diffusion equation  
RT neutron leakage  
RT neutron slowing-down theory  
RT neutron transport  
RT perturbation theory  
RT reactor physics  
RT slowing-down  
RT spherical harmonics method  
RT transfer matrix method  
RT variational methods  
RT yvon method

**NEUTRONIC DAMAGE FUNCTIONS**

INIS: 1976-05-07; ETDE: 1978-03-08

BT1 functions  
RT damaging neutron fluence  
RT equivalent fission fluence  
RT irradiation  
RT physical radiation effects

**NEUTRONS**

1996-07-23

\*BT1 nucleons  
NT1 antineutrons  
NT1 beta-delayed neutrons  
NT1 cold neutrons  
NT2 ultracold neutrons  
NT1 cosmic neutrons  
NT1 epithermal neutrons  
NT1 fast neutrons  
NT1 fission neutrons  
NT2 delayed neutrons  
NT2 prompt neutrons  
NT1 intermediate neutrons  
NT1 photoneutrons  
NT1 pile neutrons  
NT1 polyneutrons  
NT2 dineutrons  
NT2 tetraneutrons  
NT2 trineutrons  
NT1 resonance neutrons  
NT1 slow neutrons  
NT1 solar neutrons

**NTI** thermal neutrons  
*RT* cinda  
*RT* neutron beams  
*RT* neutron density  
*RT* neutron flux  
*RT* neutron oscillation  
*RT* neutron separation energy  
*RT* neutron sources  
*RT* neutron spectra  
*RT* neutron stars  
*RT* neutron temperature  
*RT* neutron transfer

**NEUTROPHILS**

\*BT1 leukocytes

**NEVADA**

\*BT1 usa  
**NTI** steamboat springs  
**NTI** tonopah test range  
*RT* great basin  
*RT* nevada test site  
*RT* snake river plain  
*RT* yucca mountain

**NEVADA TEST SITE**

1999-01-25

BT1 nuclear test sites  
 \*BT1 us doe  
*RT* arbor project  
*RT* nevada  
*RT* nuclear explosions  
*RT* nuclear weapons  
*RT* tonopah test range  
*RT* yucca mountain

**nevada university l-77 reactor**

2000-04-12

USE nevada university reactor

**NEVADA UNIVERSITY REACTOR**

2000-04-12

*Univ. of Nevada, Reno, Nevada, USA. Shut down in 1974.*

*UF l-77 nevada university reactor*  
*UF nevada university l-77 reactor*  
*UF university of nevada l-77 reactor*  
 \*BT1 aqueous homogeneous reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**NEW BRUNSWICK**

\*BT1 canada

**NEW CALEDONIA**

*INIS: 1992-06-12; ETDE: 1979-12-10*

BT1 oceania

**new england**

*INIS: 2000-04-12; ETDE: 1978-07-06*

USE usa

**new england power-1 reactor**

*INIS: 1984-07-20; ETDE: 2002-04-16*

USE nep-1 reactor

**new england power-2 reactor**

*INIS: 1984-07-20; ETDE: 2002-04-16*

USE nep-2 reactor

**new england power company nuclear project-1**

*INIS: 1993-11-09; ETDE: 1977-01-28*

USE nep-1 reactor

**new england power company nuclear project-2**

*INIS: 1993-11-09; ETDE: 1977-01-28*

USE nep-2 reactor

**NEW GUINEA**

*ETDE: 1979-09-26*

BT1 australasia  
 BT1 islands  
**NTI** papua new guinea  
*RT* australia  
*RT* new zealand  
*RT* pacific ocean

**NEW HAMPSHIRE**

1997-06-17

\*BT1 usa  
*RT* connecticut river  
*RT* connecticut river basin  
*RT* gulf of maine  
*RT* us east coast

**NEW HEBRIDES ISLANDS**

1992-06-04

BT1 islands  
*RT* pacific ocean

**NEW JERSEY**

1997-06-17

\*BT1 usa  
*RT* delaware river  
*RT* hudson river  
*RT* new york bight  
*RT* us east coast

**NEW MEXICO**

1997-06-19

\*BT1 usa  
**NTI** los alamos  
*RT* baca geothermal field  
*RT* inhalation toxicology research institute  
*RT* jemez mountains  
*RT* lanl  
*RT* permian basin  
*RT* rio grande rift  
*RT* rio grande river  
*RT* sandia laboratories  
*RT* sandia national laboratories  
*RT* santa rosa deposit  
*RT* wipp

**new neutron source frm-ii**

2004-04-02

USE frm-ii reactor

**NEW SOUTH WALES**

1997-06-17

\*BT1 australia  
*RT* glen davis facility

**NEW YORK**

1997-06-17

\*BT1 usa  
**NTI** new york city  
*RT* adirondack mountains  
*RT* allegheny river  
*RT* bnl  
*RT* delaware river  
*RT* hudson river  
*RT* kapl  
*RT* long island sound  
*RT* mohawk river  
*RT* new york bight  
*RT* niagara river  
*RT* st lawrence river  
*RT* susquehanna river  
*RT* us east coast

**NEW YORK BIGHT**

*INIS: 2000-04-12; ETDE: 1980-03-29*

*The section of continental margin and overlying water within the bend of the Atlantic coastline bounded by Long Island on the north and New Jersey on the west.*

\*BT1 mid-atlantic bight

*RT* continental shelf  
*RT* new jersey  
*RT* new york  
*RT* us east coast

**NEW YORK CITY**

\*BT1 new york  
 BT1 urban areas

**NEW ZEALAND**

1997-06-19

BT1 australasia  
 BT1 developed countries  
 BT1 islands  
*RT* broadlands geothermal field  
*RT* kawerau geothermal field  
*RT* new guinea  
*RT* oceania  
*RT* oecd  
*RT* pacific ocean  
*RT* tasman sea  
*RT* waitapu geothermal field  
*RT* wairakei geothermal field

**NEW ZEALAND ORGANIZATIONS**

1986-04-03

BT1 national organizations

**NEWBOLD ISLAND-1 REACTOR**

*ETDE: 1976-08-04*

*Public Service Electric and Gas Co., New Jersey, USA. Name changed to HOPE CREEK-1 REACTOR in November 1973 because of change in construction site, and more recent material should be so indexed.*

*UF bordentown nj newbold island-1 reactor*

*UF public service newbold island-1 reactor*

\*BT1 hope creek-1 reactor

**NEWBOLD ISLAND-2 REACTOR**

*ETDE: 1976-08-04*

*Public Service Electric and Gas Co., New Jersey, USA. Name changed to HOPE CREEK-2 REACTOR in November 1973 because of change in construction site, and more recent material should be so indexed. Canceled in 1981 before construction began.*

*UF bordentown nj newbold island-2 reactor*

*UF public service newbold island-2 reactor*

\*BT1 hope creek-2 reactor

**newborns**

2000-03-28

SEE infants  
 SEE neonates

**NEWCASTLE DISEASE**

\*BT1 viral diseases  
*RT* birds  
*RT* viruses

**NEWFOUNDLAND**

\*BT1 canada  
 BT1 islands  
*RT* atlantic ocean

**newton mechanics**

USE classical mechanics

**NEWTON-METAL**

2000-04-12

\*BT1 bismuth base alloys  
 \*BT1 lead alloys  
 \*BT1 tin alloys

**NEWTON METHOD**

*INIS: 1978-08-30; ETDE: 1976-02-19*

\*BT1 iterative methods

*RT* mathematics  
*RT* numerical solution  
*RT* polynomials

**newts**

USE salamanders

**next european torus**

1986-02-28

USE net tokamak

**ngl**

*INIS*: 2000-04-12; *ETDE*: 1976-02-20

USE natural gas liquids

**NHR-5 REACTOR**

2000-12-27

*Tsingua Univ., Beijing, China.*

*UF thr reactor*

\*BT1 enriched uranium reactors  
 \*BT1 process heat reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**NI-HARD**

2000-04-12

\*BT1 chromium alloys  
 \*BT1 iron alloys  
 \*BT1 iron carbides  
 \*BT1 manganese additions  
 \*BT1 nickel alloys  
 \*BT1 silicon additions  
 \*BT1 sulfur additions

**NI-O-NEL**

2000-04-12

\*BT1 chromium alloys  
 \*BT1 copper alloys  
 \*BT1 molybdenum alloys  
 \*BT1 nickel alloys  
 \*BT1 titanium alloys

**niacin**

*INIS*: 1976-02-05; *ETDE*: 2002-04-16

USE nicotinic acid

**NIAGARA RIVER**

*INIS*: 1992-06-04; *ETDE*: 1983-03-07

\*BT1 rivers  
*RT* new york

**NICARAGUA**

1997-06-17

\*BT1 central america  
 BT1 developing countries  
*RT* momotombo geothermal field

**NICHROME**

1993-10-03

\*BT1 alloy-ni60fe24cr16

**nichrome v**

*INIS*: 1983-11-07; *ETDE*: 2002-04-16

USE alloy-ni80cr20

**NICKEL**

\*BT1 transition elements  
*RT* black nickel  
*RT* td-nickel

**NICKEL 49**

*INIS*: 2001-05-23; *ETDE*: 2001-04-30

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 nickel isotopes

**NICKEL 50**

2002-08-13

\*BT1 beta-plus decay radioisotopes

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 nickel isotopes

**NICKEL 52**

*INIS*: 1996-06-17; *ETDE*: 1996-05-31

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 nickel isotopes

**NICKEL 53**

*INIS*: 1976-05-05; *ETDE*: 1976-08-24

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 nickel isotopes

**NICKEL 54**

1978-02-23

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nickel isotopes

**NICKEL 55**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 nickel isotopes

**NICKEL 56**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nickel isotopes

**NICKEL 56 TARGET**

*INIS*: 1992-09-23; *ETDE*: 1981-11-24

BT1 targets

**NICKEL 57**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nickel isotopes

**NICKEL 57 TARGET**

*INIS*: 1985-12-10; *ETDE*: 1979-07-24

BT1 targets

**NICKEL 58**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nickel isotopes  
 \*BT1 stable isotopes  
*RT* nickel 58 reactions

**NICKEL 58 BEAMS**

*INIS*: 1976-10-07; *ETDE*: 1976-11-01

\*BT1 ion beams

**NICKEL 58 REACTIONS**

\*BT1 heavy ion reactions  
*RT* nickel 58

**NICKEL 58 TARGET**

*ETDE*: 1976-07-09

BT1 targets

**NICKEL 59**

\*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nickel isotopes  
 \*BT1 years living radioisotopes

**NICKEL 59 REACTIONS**

*INIS*: 1984-06-21; *ETDE*: 1984-07-10

\*BT1 heavy ion reactions

**NICKEL 59 TARGET**

*ETDE*: 1976-07-09

BT1 targets

**NICKEL 60**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nickel isotopes  
 \*BT1 stable isotopes

**NICKEL 60 BEAMS**

*INIS*: 1979-01-18; *ETDE*: 1979-02-23

\*BT1 ion beams

**NICKEL 60 REACTIONS**

*INIS*: 1976-10-07; *ETDE*: 1976-11-01

\*BT1 heavy ion reactions

**NICKEL 60 TARGET**

*ETDE*: 1976-07-09

BT1 targets

**NICKEL 61**

\*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nickel isotopes  
 \*BT1 stable isotopes

**NICKEL 61 REACTIONS**

*INIS*: 1986-12-09; *ETDE*: 1987-02-24

\*BT1 heavy ion reactions

**NICKEL 61 TARGET**

*ETDE*: 1976-07-09

BT1 targets

**NICKEL 62**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nickel isotopes  
 \*BT1 stable isotopes

**NICKEL 62 REACTIONS**

1995-03-23

\*BT1 heavy ion reactions

**NICKEL 62 TARGET**

*ETDE*: 1976-07-09

BT1 targets

**NICKEL 63**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nickel isotopes  
 \*BT1 years living radioisotopes

**NICKEL 63 TARGET**

*INIS*: 1992-07-06; *ETDE*: 1992-08-07

BT1 targets

**NICKEL 64**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nickel isotopes  
 \*BT1 stable isotopes

**NICKEL 64 REACTIONS**

*INIS*: 1978-02-23; *ETDE*: 1978-04-28

\*BT1 heavy ion reactions

**NICKEL 64 TARGET**

*ETDE*: 1976-07-09

BT1 targets

**NICKEL 65**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei

\*BT1 nickel isotopes

### NICKEL 66

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nickel isotopes

### NICKEL 67

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nickel isotopes  
 \*BT1 seconds living radioisotopes

### NICKEL 68

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nickel isotopes

### NICKEL 69

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nickel isotopes  
 \*BT1 seconds living radioisotopes

### NICKEL 70

2005-01-25

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nickel isotopes  
 \*BT1 seconds living radioisotopes

### NICKEL 71

INIS: 1990-05-17; ETDE: 1990-06-01

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nickel isotopes  
 \*BT1 seconds living radioisotopes

### NICKEL 72

INIS: 1990-05-17; ETDE: 1990-06-01

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nickel isotopes  
 \*BT1 seconds living radioisotopes

### NICKEL 73

INIS: 1990-05-17; ETDE: 1990-06-01

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 nickel isotopes

### NICKEL 74

INIS: 1990-08-24; ETDE: 1990-09-10

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes

### NICKEL 78

INIS: 1980-11-28; ETDE: 1981-01-09

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 nickel isotopes

### NICKEL ADDITIONS

1996-07-23

Alloys containing not more than 1% Ni are listed here.

\*BT1 nickel alloys  
 NT1 alloy-zr98sn-2  
 NT2 zircaloy 2  
 NT1 ounce metal  
 NT1 steel-cr12moniv  
 NT1 steel-cr2moninb

NT1 steel-cr2mov  
 NT1 steel-cralnimo  
 NT1 steel-crmo  
 NT1 steel-crmov  
 NT1 steel-crni  
 NT1 steel-mnncumo  
 NT2 steel-astm-a537  
 NT1 steel-mnnimo  
 NT2 steel-astm-a533-b  
 NT1 steel-nimocr

### NICKEL ALLOYS

1996-11-13

Alloys containing more than 1% Ni.

UF alloy-fe48cr24ni24  
 UF alloy-in-519  
 UF german silver  
 UF in 519  
 UF manaurite 900  
 UF nickel silver  
 UF nitinol  
 UF refractaloy  
 UF rezistal  
 UF stainless steel-44ln  
 UF steel-0kh21n5t  
 UF steel-0kh22n5t  
 UF steel-20n14  
 UF steel-astm-a350 (gr 3)  
 UF steel-cr21ni5ti  
 UF steel-cr22ni5ti  
 UF steel-cr26ni5mo-1  
 UF steel-din-1-6348  
 UF steel-ni3mov  
 UF steel-ni4  
 UF white copper  
 \*BT1 transition element alloys  
 NT1 alloy-co36cr22ni22w15fe3  
 NT2 haynes 188 alloy  
 NT1 alloy-co43cr20fe18ni13w3  
 NT2 havar  
 NT1 alloy-co54cr20w15ni10  
 NT2 alloy-hs-25  
 NT2 haynes 25 alloy  
 NT1 alloy-co60cr30w4  
 NT2 stellite 6  
 NT1 alloy-cu52ni47  
 NT2 constantan  
 NT1 alloy-d-979  
 NT1 alloy-fe40ni35cr22  
 NT1 alloy-fe44ni33cr21  
 NT2 incoloy 800h  
 NT1 alloy-fe46ni33cr21  
 NT2 incoloy 800  
 NT2 incoloy 802  
 NT1 alloy-fe53ni29co18  
 NT2 kovar  
 NT1 alloy-hs-31  
 NT1 alloy-mo-re-1  
 NT1 alloy-mp35n  
 NT1 alloy-n28t3  
 NT1 alloy-s-590  
 NT1 alloy-s-816  
 NT1 alloy-v-36  
 NT1 alloy-yundk 25ba  
 NT1 alnico alloys  
 NT1 ascology  
 NT1 chromium-nickel steels  
 NT2 alloy-d-9  
 NT2 carpenter  
 NT2 chromium-nickel-molybdenum steels  
 NT3 alloy-m-813  
 NT3 steel-cr11ni10mo2ti-1  
 NT3 steel-cr15ni15motib  
 NT3 steel-cr16ni13monbv  
 NT3 steel-cr16ni15mo3nb  
 NT3 steel-cr16ni16monb  
 NT3 steel-cr16ni8mo2  
 NT4 stainless steel-16-8-2

NT3 steel-cr16ni9mo2  
 NT3 steel-cr17ni12mo3  
 NT4 stainless steel-316  
 NT3 steel-cr17ni12mo3-1  
 NT4 stainless steel-316l  
 NT4 stainless steel-zcnd17-13  
 NT3 steel-cr17ni12monb  
 NT3 steel-cr17ni13mo2ti  
 NT3 steel-cr17ni13mo3ti  
 NT3 steel-ni26cr15ti2movalb  
 NT4 alloy-a-286  
 NT2 durco  
 NT2 enduro  
 NT2 stainless steel-17-7ph  
 NT2 stainless steel-303  
 NT2 stainless steel-329  
 NT2 stainless steel-ph-15-7-mo  
 NT2 steel-cr17ni13  
 NT2 steel-cr17ni7  
 NT3 stainless steel-301  
 NT2 steel-cr18ni10  
 NT3 stainless steel-18-10  
 NT2 steel-cr18ni10-1  
 NT2 steel-cr18ni10ti  
 NT3 stainless steel-321  
 NT2 steel-cr18ni11  
 NT3 steel-x6crni1811  
 NT2 steel-cr18ni11nb  
 NT3 stainless steel-347  
 NT2 steel-cr18ni11nbco  
 NT3 stainless steel-348  
 NT2 steel-cr18ni12  
 NT3 stainless steel-305  
 NT2 steel-cr18ni12ti  
 NT2 steel-cr18ni8  
 NT3 stainless steel-18-8  
 NT2 steel-cr18ni9  
 NT3 stainless steel-302  
 NT2 steel-cr18ni9ti  
 NT2 steel-cr19ni10  
 NT3 stainless steel-304  
 NT2 steel-cr19ni10-1  
 NT3 stainless steel-304l  
 NT2 steel-cr20ni11  
 NT3 stainless steel-308  
 NT2 steel-cr20ni11-1  
 NT3 stainless steel-308l  
 NT2 steel-cr23ni14  
 NT3 stainless steel-309  
 NT3 stainless steel-309s  
 NT2 steel-cr23ni18  
 NT2 steel-cr25ni20  
 NT3 alloy-hk-40  
 NT3 stainless steel-310  
 NT2 steel-ni25cr20  
 NT3 stainless steel-20-25  
 NT2 steel-ni36cr12ti3al-1  
 NT2 timken alloys  
 NT1 cunico  
 NT1 discaloy  
 NT1 invar  
 NT1 manganin  
 NT1 misco metal  
 NT1 ni-hard  
 NT1 ni-o-nel  
 NT1 nickel additions  
 NT2 alloy-zr98sn-2  
 NT3 zircaloy 2  
 NT2 ounce metal  
 NT2 steel-cr12moniv  
 NT2 steel-cr2moninb  
 NT2 steel-cr2mov  
 NT2 steel-cralnimo  
 NT2 steel-crmo  
 NT2 steel-crmov  
 NT2 steel-crni  
 NT2 steel-mnncumo  
 NT3 steel-astm-a537  
 NT2 steel-mnnimo

**NT3** steel-astm-a533-b  
**NT2** steel-nimocr  
**NT1** nickel base alloys  
**NT2** alloy-b-1900  
**NT2** alloy-in-102  
**NT2** alloy-in-853  
**NT2** alloy-mar-m246  
**NT2** alloy-mn-21  
**NT2** alloy-mo-re-2  
**NT2** alloy-ni43fe30cr22mo3  
**NT3** incoloy 825  
**NT2** alloy-ni45fe34cr20  
**NT2** alloy-ni50mo32cr15si3  
**NT2** alloy-ni55co17cr15mo5al4ti4  
**NT3** astroloy  
**NT2** alloy-ni55cr19co11mo10ti3  
**NT3** rene 41  
**NT2** alloy-ni58cr20co14mo4ti3  
**NT3** waspaloy  
**NT2** alloy-ni77cr20ti2  
**NT2** alloy-ni78cr21  
**NT2** alloy-ni79fe16mo4  
**NT2** alloy-ni94mn3al2  
**NT3** alumel  
**NT2** alloy-nx-188  
**NT2** alloy-ra-333  
**NT2** chlorimet  
**NT2** chromel  
**NT3** alloy-ni60fe24cr16  
**NT4** nichrome  
**NT3** alloy-ni80cr20  
**NT2** colmonoy  
**NT2** duranickel  
**NT2** hastelloys  
**NT3** alloy-ni49cr22fe18mo9  
**NT4** hastelloy x  
**NT3** alloy-ni50cr22fe18mo9  
**NT4** hastelloy xr  
**NT3** alloy-ni54mo17cr16fe6w4  
**NT4** hastelloy c  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** alloy-ni65mo28fe5  
**NT4** hastelloy b  
**NT3** alloy-ni70mo17cr7fe5  
**NT4** hastelloy n  
**NT4** inor-8  
**NT2** illium  
**NT2** incoloy 901  
**NT2** inconel alloys  
**NT3** alloy-ni41fe40cr16nb3  
**NT4** inconel 706  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni51cr48  
**NT4** inconel 671  
**NT3** alloy-ni53cr19fe19nb5mo3  
**NT4** inconel 718  
**NT3** alloy-ni54cr22co13mo9  
**NT4** inconel 617  
**NT3** alloy-ni59cr30fe9  
**NT4** inconel 690  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni61cr22mo9nb4fe3  
**NT4** inconel 625  
**NT3** alloy-ni61cr23fe14  
**NT3** alloy-ni73cr15fe7ti3  
**NT4** inconel x750  
**NT3** alloy-ni73cr20mn3nb3  
**NT4** inconel 82  
**NT3** alloy-ni74cr13al6mo4  
**NT4** inconel 713c  
**NT3** alloy-ni75cr12al6mo5  
**NT4** inconel 713lc  
**NT3** alloy-ni76cr15fe8  
**NT4** inconel 600

**NT3** inconel 700  
**NT3** inconel 738  
**NT3** inconel 739  
**NT2** konel  
**NT2** monel  
**NT3** alloy-ni66cu32  
**NT4** monel 400  
**NT2** microbraz 50  
**NT2** nimonic  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni50co20cr15al5mo5  
**NT4** nimonic 105  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni65cr25mo10  
**NT4** nimonic 86  
**NT3** alloy-ni76cr15fe8  
**NT4** inconel 600  
**NT3** alloy-ni76cr20ti2  
**NT4** nimonic 80a  
**NT3** nimonic 115  
**NT3** nimonic 115a  
**NT2** rene-100  
**NT2** rene 80  
**NT2** rene 95  
**NT2** td-nickel chromium  
**NT2** tophet  
**NT2** udimet alloys  
**NT3** alloy-ni53co19cr15mo5al4ti3  
**NT4** udimet 700  
**NT3** udimet 500  
**NT1** nickel steels  
**NT2** sweetalloy  
**NT1** nickeline alloy  
**NT1** orthonol  
**NT1** permalloy  
**NT1** stainless steel-jbk-75  
**NT1** steel-cd-4mcu  
**NT1** steel-cr16ni  
**NT1** steel-cr17cu4ni4nb-l  
**NT2** stainless steel-17-4ph  
**NT1** steel-cr17ni4mo3  
**NT1** steel-cr21mn9ni6  
**NT2** stainless steel-21-6-9  
**NT1** steel-cr2nimov  
**NT1** steel-in-787  
**NT1** steel-mnnimov  
**NT1** steel-ni3cr  
**NT1** steel-ni3crmo  
**NT2** steel-astm-a543  
**NT1** steel-ni3crmov  
**NT1** steel-ni4crw  
**NT1** steel-nicr  
**NT1** steel-nicrmo  
**NT1** supertherm

### NICKEL ARSENIDES

*INIS: 1991-09-16; ETDE: 1976-07-07*

\*BT1 arsenides  
 \*BT1 nickel compounds

### NICKEL BASE ALLOYS

*1996-11-27*

(A number of the UF terms below have been valid ETDE descriptors.)

*UF alloy-79nm*  
*UF alloy-ehi 826*  
*UF alloy-ehi 868*  
*UF alloy-ehp-199*  
*UF alloy-ehp-496*  
*UF alloy-ehp-567*  
*UF alloy-gmr-235*  
*UF alloy-hd-8077*  
*UF alloy-kh20n80t*  
*UF alloy-khn56vmtyu*  
*UF alloy-khn60b*  
*UF alloy-khn60v*  
*UF alloy-khn60vt*  
*UF alloy-khn67vmtyu*  
*UF alloy-khn77tyu*

*UF alloy-m-252*  
*UF alloy-ma-754*  
*UF alloy-mm-0011*  
*UF alloy-n55m20v25*  
*UF alloy-n65m20v15*  
*UF alloy-ni42fe36cr12mo6ti3*  
*UF alloy-ni45cr23fe19co3mo3w3*  
*UF alloy-ni56cr21w10mo5fe4al2*  
*UF alloy-ni58cr14co8al4mo4nb4w4*  
*UF alloy-ni60cr14co10ti5mo4w4al3*  
*UF alloy-ni60cr25w15*  
*UF alloy-ni65mo16cr15w4*  
*UF alloy-ni67cr19mo5w5ti3*  
*UF alloy-ni68cr15w6al3mo3fe2*  
*UF alloy-ni80fe16mo4*  
*UF alloy-vzh98*  
*UF alloy-waz-16*  
*UF hd 8077*  
*UF ma 754*  
*UF mm-0011*  
*UF permalloy c*  
*UF waz 16*  
 \*BT1 nickel alloys  
**NT1** alloy-b-1900  
**NT1** alloy-in-102  
**NT1** alloy-in-853  
**NT1** alloy-mar-m246  
**NT1** alloy-mn-21  
**NT1** alloy-mo-re-2  
**NT1** alloy-ni43fe30cr22mo3  
**NT2** incoloy 825  
**NT1** alloy-ni45fe34cr20  
**NT1** alloy-ni50mo32cr15si3  
**NT1** alloy-ni55co17cr15mo5al4ti4  
**NT2** astroloy  
**NT1** alloy-ni55cr19co11mo10ti3  
**NT2** rene 41  
**NT1** alloy-ni58cr20co14mo4ti3  
**NT2** waspaloy  
**NT1** alloy-ni77cr20ti2  
**NT1** alloy-ni78cr21  
**NT1** alloy-ni79fe16mo4  
**NT1** alloy-ni94mn3al2  
**NT2** alumel  
**NT1** alloy-nx-188  
**NT1** alloy-ra-333  
**NT1** chlorimet  
**NT1** chromel  
**NT2** alloy-ni60fe24cr16  
**NT3** nichrome  
**NT2** alloy-ni80cr20  
**NT1** colmonoy  
**NT1** duranickel  
**NT1** hastelloys  
**NT2** alloy-ni49cr22fe18mo9  
**NT3** hastelloy x  
**NT2** alloy-ni50cr22fe18mo9  
**NT3** hastelloy xr  
**NT2** alloy-ni54mo17cr16fe6w4  
**NT3** hastelloy c  
**NT2** alloy-ni62cr16mo15fe3  
**NT3** hastelloy s  
**NT2** alloy-ni65mo28fe5  
**NT3** hastelloy b  
**NT2** alloy-ni70mo17cr7fe5  
**NT3** hastelloy n  
**NT3** inor-8  
**NT1** illium  
**NT1** incoloy 901  
**NT1** inconel alloys  
**NT2** alloy-ni41fe40cr16nb3  
**NT3** inconel 706  
**NT2** alloy-ni46cr23co19ti5al4  
**NT3** alloy-in-939  
**NT2** alloy-ni51cr48  
**NT3** inconel 671  
**NT2** alloy-ni53cr19fe19nb5mo3  
**NT3** inconel 718  
**NT2** alloy-ni54cr22co13mo9  
**NT3** inconel 617  
**NT2** alloy-ni59cr30fe9  
**NT3** inconel 690  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT2** alloy-ni61cr22mo9nb4fe3  
**NT3** inconel 625  
**NT2** alloy-ni61cr23fe14  
**NT3** alloy-ni73cr15fe7ti3  
**NT4** inconel x750  
**NT2** alloy-ni73cr20mn3nb3  
**NT3** inconel 82  
**NT2** alloy-ni74cr13al6mo4  
**NT3** inconel 713c  
**NT2** alloy-ni75cr12al6mo5  
**NT3** inconel 713lc  
**NT2** alloy-ni76cr15fe8  
**NT3** inconel 600

**NT3** inconel 617  
**NT2** alloy-ni59cr30fe9  
**NT3** inconel 690  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-in-100  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-ni61cr22mo9nb4fe3  
**NT3** inconel 625  
**NT2** alloy-ni61cr23fe14  
**NT2** alloy-ni73cr15fe7ti3  
**NT3** inconel x750  
**NT2** alloy-ni73cr20mn3nb3  
**NT3** inconel 82  
**NT2** alloy-ni74cr13al6mo4  
**NT3** inconel 713c  
**NT2** alloy-ni75cr12al6mo5  
**NT3** inconel 713lc  
**NT2** alloy-ni76cr15fe8  
**NT3** inconel 600  
**NT2** inconel 700  
**NT2** inconel 738  
**NT2** inconel 739  
**NT1** konel  
**NT1** monel  
**NT2** alloy-ni66cu32  
**NT3** monel 400  
**NT1** microbraz 50  
**NT1** nimonic  
**NT2** alloy-ni43fe33cr16mo3  
**NT3** nimonic pe16  
**NT2** alloy-ni50co20cr15al5mo5  
**NT3** nimonic 105  
**NT2** alloy-ni59cr20co17ti2  
**NT2** alloy-ni65cr25mo10  
**NT3** nimonic 86  
**NT2** alloy-ni76cr15fe8  
**NT3** inconel 600  
**NT2** alloy-ni76cr20ti2  
**NT3** nimonic 80a  
**NT2** nimonic 115  
**NT2** nimonic 115a  
**NT1** rene-100  
**NT1** rene 80  
**NT1** rene 95  
**NT1** td-nickel chromium  
**NT1** tophet  
**NT1** udimet alloys  
**NT2** alloy-ni53co19cr15mo5al4ti3  
**NT3** udimet 700  
**NT2** udimet 500

**NICKEL BORIDES**

\*BT1 borides  
 \*BT1 nickel compounds

**NICKEL BROMIDES**

\*BT1 bromides  
 \*BT1 nickel compounds

**NICKEL-CADMIUM BATTERIES**

1992-10-02  
 \*BT1 metal-metal oxide batteries

**NICKEL CARBIDES**

\*BT1 carbides  
 \*BT1 nickel compounds

**NICKEL CARBONATES**

\*BT1 carbonates  
 \*BT1 nickel compounds

**NICKEL CHLORIDES**

\*BT1 chlorides  
 \*BT1 nickel compounds

**nickel-chromium steels**

1983-11-14  
 Steels containing Ni and Cr as main alloying elements; Ni content is higher than Cr content. (Prior to November 1983 this was a valid descriptor, and older material is so indexed.)  
 USE chromium alloys  
 USE nickel steels

**nickel chromium-td**

USE td-nickel chromium

**NICKEL COMPLEXES**

\*BT1 transition element complexes

**NICKEL COMPOUNDS**

1997-06-17  
**BT1** transition element compounds  
**NT1** nickel arsenides  
**NT1** nickel borides  
**NT1** nickel bromides  
**NT1** nickel carbides  
**NT1** nickel carbonates  
**NT1** nickel chlorides  
**NT1** nickel fluorides  
**NT1** nickel hydrides  
**NT1** nickel hydroxides  
**NT1** nickel iodides  
**NT1** nickel nitrates  
**NT1** nickel nitrides  
**NT1** nickel oxides  
**NT1** nickel phosphates  
**NT1** nickel phosphides  
**NT1** nickel selenides  
**NT1** nickel silicates  
**NT1** nickel silicides  
**NT1** nickel sulfates  
**NT1** nickel sulfides  
**NT1** nickel tellurides  
**NT1** nickel tungstates  
**NT1** nickelates

**NICKEL FLUORIDES**

\*BT1 fluorides  
 \*BT1 nickel compounds

**NICKEL HYDRIDES**

\*BT1 hydrides  
 \*BT1 nickel compounds

**NICKEL-HYDROGEN BATTERIES**

1992-05-07  
 \*BT1 metal-gas batteries

**NICKEL HYDROXIDES**

\*BT1 hydroxides  
 \*BT1 nickel compounds

**NICKEL IODIDES**

\*BT1 iodides  
 \*BT1 nickel compounds

**NICKEL IONS**

\*BT1 ions

**nickel-iron batteries**

INIS: 2000-04-12; ETDE: 1980-10-27  
 USE iron-nickel batteries

**NICKEL ISOTOPES**

1999-07-16  
**BT1** isotopes  
**NT1** nickel 49  
**NT1** nickel 50  
**NT1** nickel 52  
**NT1** nickel 53  
**NT1** nickel 54  
**NT1** nickel 55  
**NT1** nickel 56  
**NT1** nickel 57  
**NT1** nickel 58  
**NT1** nickel 59

**NT1** nickel 60  
**NT1** nickel 61  
**NT1** nickel 62  
**NT1** nickel 63  
**NT1** nickel 64  
**NT1** nickel 65  
**NT1** nickel 66  
**NT1** nickel 67  
**NT1** nickel 68  
**NT1** nickel 69  
**NT1** nickel 70  
**NT1** nickel 71  
**NT1** nickel 72  
**NT1** nickel 73  
**NT1** nickel 78

**NICKEL NITRATES**

\*BT1 nickel compounds  
 \*BT1 nitrates

**NICKEL NITRIDES**

\*BT1 nickel compounds  
 \*BT1 nitrides

**NICKEL ORES**

**BT1** ores

**NICKEL OXIDES**

\*BT1 nickel compounds  
 \*BT1 oxides  
*RT* nickelates

**NICKEL PHOSPHATES**

\*BT1 nickel compounds  
 \*BT1 phosphates

**NICKEL PHOSPHIDES**

*INIS: 1976-01-27; ETDE: 1975-10-01*  
 \*BT1 nickel compounds  
 \*BT1 phosphides

**NICKEL SELENIDES**

*INIS: 1991-09-16; ETDE: 1976-12-15*  
 \*BT1 nickel compounds  
 \*BT1 selenides

**NICKEL SILICATES**

\*BT1 nickel compounds  
 \*BT1 silicates

**NICKEL SILICIDES**

*INIS: 1976-01-27; ETDE: 1975-10-28*  
 \*BT1 nickel compounds  
 \*BT1 silicides

**nickel silver**

1996-06-28  
 (Prior to July 1996 GERMAN SILVER was a valid ETDE descriptor.)  
 USE copper base alloys  
 USE nickel alloys  
 USE zinc alloys

**NICKEL STEELS**

1994-07-01  
 Steels containing Ni as the main alloying element.  
 (Until June 1994 this concept was indexed to NICKEL ALLOYS.)

*UF* nickel-chromium steels  
*UF* steel-000kh20n20  
*UF* steel-1-kh18n20t3p  
*UF* steel-30n9k4  
*UF* steel-37khm3t  
*UF* steel-40kh2n5sm  
*UF* steel-kh12n20t3p  
*UF* steel-kh18n22v2t2  
*UF* steel-khn35vt  
*UF* steel-n26kht1  
*UF* steel-vzh102  
 \*BT1 nickel alloys  
 \*BT1 steels  
**NT1** sweetalloy

*RT* chromium-nickel steels

**NICKEL SULFATES**

\*BT1 nickel compounds  
\*BT1 sulfates

**NICKEL SULFIDES**

\*BT1 nickel compounds  
\*BT1 sulfides

**NICKEL TELLURIDES**

*INIS: 1984-07-23; ETDE: 1980-02-11*

\*BT1 nickel compounds  
\*BT1 tellurides

**nickel-thorium oxide dispersions**

*INIS: 2000-04-12; ETDE: 1979-04-11*

USE td-nickel

**NICKEL TUNGSTATES**

*INIS: 2000-04-12; ETDE: 1976-06-07*

\*BT1 nickel compounds  
\*BT1 tungstates

**NICKEL-ZINC BATTERIES**

2000-04-12

\*BT1 metal-metal oxide batteries

**NICKELATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

\*BT1 nickel compounds  
BT1 oxygen compounds  
*RT* nickel oxides

**NICKELINE ALLOY**

2000-04-12

\*BT1 copper base alloys  
\*BT1 nickel alloys  
\*BT1 zinc additions

**NICOTIANA**

*UF* tobacco plant  
\*BT1 magnoliopsida  
*RT* tobacco  
*RT* tobacco products

**NICOTINAMIDE**

*UF* pp-factor  
*UF* vitamin pp  
\*BT1 amides  
\*BT1 pyridines  
\*BT1 vitamin b group  
*RT* heterocyclic acids  
*RT* nad  
*RT* nadh2  
*RT* nadp  
*RT* nicotinic acid

**nicotinamide-adenine dinucleotide**

1995-02-16

USE nad

**nicotinamide-adenine dinucleotide phosphate**

*INIS: 1995-02-16; ETDE: 1980-06-22*

USE nadp

**NICOTINE**

\*BT1 alkaloids  
\*BT1 parasymphatholytics  
\*BT1 parasymphathomimetics  
\*BT1 pyridines  
\*BT1 pyrrolidines

**NICOTINIC ACID**

1976-02-05

*UF* niacin  
\*BT1 heterocyclic acids  
\*BT1 monocarboxylic acids  
\*BT1 pyridines

\*BT1 vitamin b group

*RT* nicotinamide

**NICROBRAZ 50**

2000-04-12

\*BT1 chromium alloys  
\*BT1 nickel base alloys  
\*BT1 phosphides

**NIEDERAICHBACH REACTOR**

*UF* kernkraftwerk niederaichbach

*UF* kkn reactor

\*BT1 carbon dioxide cooled reactors  
\*BT1 enriched uranium reactors  
\*BT1 hwgcr type reactors  
\*BT1 pressure tube reactors  
\*BT1 thermal reactors

**niels bohr institute cyclotron**

*INIS: 1985-06-10; ETDE: 1985-07-19*

USE nbi cyclotron

**nif**

*INIS: 2000-04-12; ETDE: 1997-05-21*

*Facility for inertial confinement fusion.*

USE us national ignition facility

**nigella**

USE ranunculaceae

**NIGER**

BT1 africa  
BT1 developing countries  
*RT* niger river

**NIGER RIVER**

*INIS: 1976-07-06; ETDE: 1976-08-24*

\*BT1 rivers

*RT* benin  
*RT* guinea  
*RT* mali  
*RT* niger  
*RT* nigeria

**NIGERIA**

BT1 africa  
BT1 developing countries  
*RT* niger river  
*RT* opec

**nigeria miniature neutron source reactor**

2004-11-30

USE niirr-1 reactor

**NIGHT SKY**

*INIS: 1990-12-15; ETDE: 1981-09-08*

(Prior to December 1990, this concept was indexed by NIGHTTIME plus other descriptors from the wordblock EARTH ATMOSPHERE.)

*UF* nighttime (sky)

BT1 sky  
*RT* airglow  
*RT* aurorae

**nightglow**

USE airglow

**nighttime (sky)**

*INIS: 1990-12-15; ETDE: 2002-04-16*

USE night sky

**nii (uk)**

*INIS: 1984-04-04; ETDE: 2002-04-16*

*Nuclear Installations Inspectorate.*

USE uk nii

**NIKHEF**

*INIS: 1977-07-05; ETDE: 1977-10-19*

*National Instituut voor Kernfysica en Hoge-energiefysica.*

*UF* national instituut voor kernfysica en hogeenergiefysica

\*BT1 netherlands organizations

**NILE RIVER**

\*BT1 rivers  
*RT* egyptian arab republic  
*RT* sudan

**nilsson model**

USE nilsson-mottelson model

**NILSSON-MOTTELSON MODEL**

*UF* approximation (bohr)  
*UF* bohr approximation  
*UF* bohr-mottelson model  
*UF* mottelson-nilsson model  
*UF* nilsson model  
*UF* nilsson potential  
*UF* nilsson scheme  
\*BT1 nuclear models

**nilsson potential**

USE nilsson-mottelson model

**nilsson scheme**

USE nilsson-mottelson model

**nim**

USE nuclear instrument modules

**NIMBUS SATELLITES**

*INIS: 1983-09-06; ETDE: 1980-03-04*

BT1 satellites

**NIMONIC**

1996-07-16

*For unspecified Nimonic alloys.*

*UF* alloy-ni48cr22fe18mo9  
*UF* nimonic pe13

\*BT1 nickel base alloys  
NT1 alloy-ni43fe33cr16mo3  
NT2 nimonic pe16  
NT1 alloy-ni50co20cr15al5mo5  
NT2 nimonic 105  
NT1 alloy-ni59cr20co17ti2  
NT1 alloy-ni65cr25mo10  
NT2 nimonic 86  
NT1 alloy-ni76cr15fe8  
NT2 inconel 600  
NT1 alloy-ni76cr20ti2  
NT2 nimonic 80a  
NT1 nimonic 115  
NT1 nimonic 115a  
*RT* inconel alloys

**NIMONIC 105**

1993-10-03

\*BT1 alloy-ni50co20cr15al5mo5

**NIMONIC 115**

2000-04-12

\*BT1 aluminium alloys  
\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 molybdenum alloys  
\*BT1 nimonic

**NIMONIC 115A**

2000-04-12

\*BT1 nimonic

**NIMONIC 80A**

1993-10-03

\*BT1 alloy-ni76cr20ti2

**NIMONIC 86**

*INIS: 1993-10-03; ETDE: 1982-02-23*

\*BT1 alloy-ni65cr25mo10



**nimonic 90**

*INIS: 1997-01-28; ETDE: 1977-06-03*  
(Until October 1996 this was a valid descriptor.)  
USE alloy-ni59cr20co17ti2

**nimonic pe13**

*INIS: 1996-07-17; ETDE: 1979-10-23*  
(Until July 1996 this was a valid descriptor.)  
USE nimonic

**NIMONIC PE16**

1993-10-03  
\*BT1 alloy-ni43fe33cr16mo3

**NIMROD**

*UF harwell synchrotron*  
\*BT1 synchrotrons

**NINA**

*UF daresbury synchrotron*  
\*BT1 synchrotrons

**NINE MILE POINT-1 REACTOR**

*NMPNS - a subsidiary of Constellation Energy Group, North Scriba, New York, USA.*  
*UF scriba nuclear power plant*  
\*BT1 bwr type reactors

**NINE MILE POINT-2 REACTOR**

*NMPNS - a subsidiary of Constellation Energy Group, North Scriba, New York, USA.*  
*UF oswego nuclear power plant*  
\*BT1 bwr type reactors

**NINGYOITE**

\*BT1 phosphate minerals  
\*BT1 uranium minerals  
*RT uranium phosphates*

**ninhydrin**

1996-10-23  
(Until October 1996 this was a valid descriptor.)  
USE ketones

**NIOBATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*  
\*BT1 niobium compounds  
BT1 oxygen compounds

**NIOBIUM**

*UF columbium*  
\*BT1 refractory metals  
\*BT1 transition elements  
*NT1 niobium-alpha*  
*NT1 niobium-beta*

**NIOBIUM 100**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 niobium isotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**NIOBIUM 101**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 niobium isotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**NIOBIUM 102**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 niobium isotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**NIOBIUM 103**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 niobium isotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**NIOBIUM 104**

*INIS: 1976-11-08; ETDE: 1976-09-15*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 niobium isotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**NIOBIUM 105**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 niobium isotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**NIOBIUM 106**

*INIS: 1981-08-18; ETDE: 1980-10-28*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 niobium isotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**NIOBIUM 108**

1996-11-27  
\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 niobium isotopes  
\*BT1 odd-odd nuclei

**NIOBIUM 83**

1988-10-10  
\*BT1 beta-plus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 niobium isotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**NIOBIUM 84**

1977-11-02  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 niobium isotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**NIOBIUM 85**

*INIS: 1997-02-07; ETDE: 1980-05-06*  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 niobium isotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes

**NIOBIUM 86**

\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 niobium isotopes  
\*BT1 odd-odd nuclei

**NIOBIUM 87**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 niobium isotopes  
\*BT1 odd-even nuclei

**NIOBIUM 88**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 niobium isotopes  
\*BT1 odd-odd nuclei

**NIOBIUM 89**

\*BT1 beta-plus decay radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 niobium isotopes  
\*BT1 odd-even nuclei

**NIOBIUM 90**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 niobium isotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes

**NIOBIUM 91**

\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 niobium isotopes  
\*BT1 odd-even nuclei  
\*BT1 years living radioisotopes

**NIOBIUM 91 TARGET**

*INIS: 1992-09-23; ETDE: 1977-03-04*  
BT1 targets

**NIOBIUM 92**

\*BT1 beta-plus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 niobium isotopes  
\*BT1 odd-odd nuclei  
\*BT1 years living radioisotopes

**NIOBIUM 92 TARGET**

*INIS: 1988-05-13; ETDE: 1983-03-23*  
BT1 targets

**NIOBIUM 93**

\*BT1 intermediate mass nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 niobium isotopes  
\*BT1 odd-even nuclei  
\*BT1 stable isotopes  
\*BT1 years living radioisotopes  
*RT niobium 93 reactions*

**NIOBIUM 93 REACTIONS**

*INIS: 1976-01-28; ETDE: 1976-03-12*  
\*BT1 heavy ion reactions  
*RT niobium 93*

**NIOBIUM 93 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**NIOBIUM 94**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 niobium isotopes  
\*BT1 odd-odd nuclei  
\*BT1 years living radioisotopes

**NIObIUM 94 TARGET**

INIS: 1976-10-07; ETDE: 1976-11-01

BT1 targets

**NIObIUM 95**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei

**NIObIUM 95 TARGET**

INIS: 1979-11-02; ETDE: 1979-01-30

BT1 targets

**NIObIUM 96**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei

**NIObIUM 96 TARGET**

INIS: 1976-10-07; ETDE: 1976-11-01

BT1 targets

**NIObIUM 97**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**NIObIUM 98**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes

**NIObIUM 99**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 niobium isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes

**NIObIUM ADDITIONS**

1996-11-13

Alloys containing not more than 1% Nb are listed here.

- \*BT1 niobium alloys
- NT1 alloy-ni45fe34cr20
- NT1 alloy-ni46cr23co19ti5al4
  - NT2 alloy-in-939
- NT1 alloy-ni61cr16co9al3ti3w3
  - NT2 alloy-in-738
- NT1 alloy-ni73cr15fe7ti3
  - NT2 inconel x750
- NT1 alloy-yundk 25ba
- NT1 steel-cr16ni13monbv
- NT1 steel-cr16ni15mo3nb
- NT1 steel-cr16ni16monb
- NT1 steel-cr17cu4ni4nb-l
  - NT2 stainless steel-17-4ph
- NT1 steel-cr17ni12monb
- NT1 steel-cr18ni11nb
  - NT2 stainless steel-347
- NT1 steel-cr18ni11nbco
  - NT2 stainless steel-348
- NT1 steel-cr2moninb
- NT1 steel-cr9monbv

**NIObIUM ALLOYS**

1996-11-13

Alloys containing more than 1% Nb.

UF alloy-fe48cr24ni24

UF alloy-in-519

UF in 519

- \*BT1 transition element alloys
- NT1 alloy-in-102
- NT1 alloy-khn50mbvyu
- NT1 alloy-mn-21
  - NT2 inconel 706
- NT1 alloy-ni41fe40cr16nb3
  - NT2 inconel 718
- NT1 alloy-ni53cr19fe19nb5mo3
  - NT2 inconel 718
- NT1 alloy-ni61cr22mo9nb4fe3
  - NT2 inconel 625
- NT1 alloy-ni73cr20mn3nb3
  - NT2 inconel 82
- NT1 alloy-ni74cr13al6mo4
  - NT2 inconel 713c
- NT1 alloy-ni75cr12al6mo5
  - NT2 inconel 713lc
- NT1 alloy-s-590
- NT1 alloy-s-816
- NT1 alloy-u90nb7zr3
- NT1 alloy-v-36
- NT1 alloy-zr97nb3
- NT1 niobium additions
  - NT2 alloy-ni45fe34cr20
  - NT2 alloy-ni46cr23co19ti5al4
  - NT3 alloy-in-939
  - NT2 alloy-ni61cr16co9al3ti3w3
    - NT3 alloy-in-738
  - NT2 alloy-ni73cr15fe7ti3
    - NT3 inconel x750
  - NT2 alloy-yundk 25ba
  - NT2 steel-cr16ni13monbv
  - NT2 steel-cr16ni15mo3nb
  - NT2 steel-cr16ni16monb
  - NT2 steel-cr17cu4ni4nb-l
    - NT3 stainless steel-17-4ph
  - NT2 steel-cr17ni12monb
  - NT2 steel-cr18ni11nb
    - NT3 stainless steel-347
  - NT2 steel-cr18ni11nbco
    - NT3 stainless steel-348
  - NT2 steel-cr2moninb
  - NT2 steel-cr9monbv
- NT1 niobium base alloys
  - NT2 alloy-c-103
  - NT2 alloy-n-10m
  - NT2 alloy-n-9m
  - NT2 alloy-nt25a5
- NT1 rene 95
- NT1 steel-in-787

**NIObIUM-ALPHA**

\*BT1 niobium

**NIObIUM ARSENIDES**

INIS: 1982-08-27; ETDE: 1982-05-24

- \*BT1 arsenides
- \*BT1 niobium compounds

**NIObIUM BASE ALLOYS**

1996-07-16

- UF alloy-b-66
- UF alloy-b-88
- UF alloy-c-129y
- UF alloy-cb-1
- UF alloy-cb-752
- UF alloy-d-43
- UF alloy-dh-245
- UF alloy-fs-85
- UF alloy-su31
- UF alloy-vus-6
- SF alloy-vn-3
- \*BT1 niobium alloys
- NT1 alloy-c-103
- NT1 alloy-n-10m
- NT1 alloy-n-9m
- NT1 alloy-nt25a5

**NIObIUM-BETA**

\*BT1 niobium

**NIObIUM BORIDES**

\*BT1 borides  
\*BT1 niobium compounds

**NIObIUM BROMIDES**

\*BT1 bromides  
\*BT1 niobium compounds

**NIObIUM CARBIDES**

\*BT1 carbides  
\*BT1 niobium compounds

**NIObIUM CHLORIDES**

\*BT1 chlorides  
\*BT1 niobium compounds

**NIObIUM COMPLEXES**

\*BT1 transition element complexes

**NIObIUM COMPOUNDS**

1997-06-17

- BT1 refractory metal compounds
- BT1 transition element compounds
- NT1 niobates
- NT1 niobium arsenides
- NT1 niobium borides
- NT1 niobium bromides
- NT1 niobium carbides
- NT1 niobium chlorides
- NT1 niobium fluorides
- NT1 niobium hydrides
- NT1 niobium hydroxides
- NT1 niobium iodides
- NT1 niobium nitrates
- NT1 niobium nitrides
- NT1 niobium oxides
- NT1 niobium phosphates
- NT1 niobium phosphides
- NT1 niobium selenides
- NT1 niobium silicates
- NT1 niobium silicides
- NT1 niobium sulfates
- NT1 niobium sulfides
- NT1 niobium tellurides

**NIObIUM FLUORIDES**

\*BT1 fluorides  
\*BT1 niobium compounds

**NIObIUM HYDRIDES**

\*BT1 hydrides  
\*BT1 niobium compounds

**NIObIUM HYDROXIDES**

\*BT1 hydroxides  
\*BT1 niobium compounds

**NIObIUM IODIDES**

\*BT1 iodides  
\*BT1 niobium compounds

**NIObIUM IONS**

\*BT1 ions

**NIObIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 niobium 100
- NT1 niobium 101
- NT1 niobium 102
- NT1 niobium 103
- NT1 niobium 104
- NT1 niobium 105
- NT1 niobium 106
- NT1 niobium 108
- NT1 niobium 83
- NT1 niobium 84
- NT1 niobium 85
- NT1 niobium 86
- NT1 niobium 87

- NT1 niobium 88
- NT1 niobium 89
- NT1 niobium 90
- NT1 niobium 91
- NT1 niobium 92
- NT1 niobium 93
- NT1 niobium 94
- NT1 niobium 95
- NT1 niobium 96
- NT1 niobium 97
- NT1 niobium 98
- NT1 niobium 99

**NIObIUM NITRATES**

- \*BT1 niobium compounds
- \*BT1 nitrates

**NIObIUM NITRIDES**

- \*BT1 niobium compounds
- \*BT1 nitrides

**NIObIUM ORES**

- BT1 ores

**NIObIUM OXIDES**

- 1996-06-28
- \*BT1 niobium compounds
- \*BT1 oxides
- RT ellsworthite
- RT lyndochite
- RT marignacite
- RT oxide minerals
- RT tapiolite

**NIObIUM PHOSPHATES**

- \*BT1 niobium compounds
- \*BT1 phosphates

**NIObIUM PHOSPHIDES**

- INIS: 2000-04-12; ETDE: 1976-09-14
- \*BT1 niobium compounds
- \*BT1 phosphides

**NIObIUM SELENIDES**

- \*BT1 niobium compounds
- \*BT1 selenides

**NIObIUM SILICATES**

- \*BT1 niobium compounds
- \*BT1 silicates
- RT mesodialyte
- RT silicate minerals

**NIObIUM SILICIDES**

- 1976-01-27
- \*BT1 niobium compounds
- \*BT1 silicides

**NIObIUM SULFATES**

- \*BT1 niobium compounds
- \*BT1 sulfates

**NIObIUM SULFIDES**

- \*BT1 niobium compounds
- \*BT1 sulfides

**NIObIUM TELLURIDES**

- INIS: 1979-05-28; ETDE: 1975-11-11
- \*BT1 niobium compounds
- \*BT1 tellurides

**niosh**

- INIS: 2000-04-12; ETDE: 1980-03-29
- (Prior to January 1992 this was a valid ETDE descriptor.)
- USE us niosh

**niper**

- INIS: 2000-04-12; ETDE: 1984-05-08
- (Prior to November 1991 this was a valid ETDE descriptor.)
- USE us niper

**nippostrongylus**

- 1997-01-28
- (Until October 1996 this was a valid descriptor.)
- USE hookworm

**NIRR-1 REACTOR**

- 2004-11-30
- Centre for Energy Research and Training (CERT), Ahmadu Bello Univ., Energy Commission, Zaria, Nigeria.
- UF nigerian miniature neutron source reactor
- \*BT1 mnsr type reactors

**NIRS CYCLOTRON**

- INIS: 1979-12-20; ETDE: 1980-01-24
- Installed at the National Institute of Radiological Science in Japan.
- UF national institute of radiological science cyclotron
- \*BT1 isochronous cyclotrons

**NISUS FACILITY**

- UF neutron international standard neutron source
- UF neutron international standard uranium source
- \*BT1 neutron sources
- RT calibration standards
- RT fast neutrons
- RT measuring instruments

**NITELLA**

- \*BT1 chlorophycota

**nitinol**

- INIS: 2000-04-12; ETDE: 1976-08-25
- Shape memory alloys of Ti and Ni. Use the descriptors below and SHAPE MEMORY EFFECT, if relevant.
- (Prior to May 1996 this was a valid ETDE descriptor.)
- USE nickel alloys
- USE titanium alloys

**NITINOL HEAT ENGINES**

- INIS: 2000-04-12; ETDE: 1975-11-11
- Heat engines with the thermo-mechanical converter consisting of a solid-state system incorporating the shape memory intermetallic nickel titanium compound called nitinol as their working fluid.
- \*BT1 heat engines
- RT shape memory effect
- RT solar heat engines

**NITRATES**

- 1997-06-19
- UF californium nitrates
- UF molybdenum nitrates
- UF palladium nitrates
- UF polonium nitrates
- UF protactinium nitrates
- BT1 nitrogen compounds
- BT1 oxygen compounds
- NT1 aluminium nitrates
- NT1 americium nitrates
- NT1 ammonium nitrates
- NT1 barium nitrates
- NT1 berkelium nitrates
- NT1 beryllium nitrates
- NT1 bismuth nitrates
- NT1 cadmium nitrates
- NT1 calcium nitrates
- NT1 cerium nitrates
- NT1 cesium nitrates
- NT1 chlorine nitrates
- NT1 chromium nitrates
- NT1 cobalt nitrates
- NT1 copper nitrates

- NT1 curium nitrates
- NT1 dysprosium nitrates
- NT1 einsteinium nitrates
- NT1 erbium nitrates
- NT1 europium nitrates
- NT1 gadolinium nitrates
- NT1 gallium nitrates
- NT1 hafnium nitrates
- NT1 holmium nitrates
- NT1 indium nitrates
- NT1 iron nitrates
- NT1 lanthanum nitrates
- NT1 lead nitrates
- NT1 lithium nitrates
- NT1 lutetium nitrates
- NT1 magnesium nitrates
- NT1 manganese nitrates
- NT1 mercury nitrates
- NT1 neodymium nitrates
- NT1 neptunium nitrates
- NT1 nickel nitrates
- NT1 niobium nitrates
- NT1 peroxyacetyl nitrate
- NT1 petn
- NT1 plutonium nitrates
- NT1 potassium nitrates
- NT1 praseodymium nitrates
- NT1 promethium nitrates
- NT1 radium nitrates
- NT1 rubidium nitrates
- NT1 ruthenium nitrates
- NT1 samarium nitrates
- NT1 scandium nitrates
- NT1 silver nitrates
- NT1 sodium nitrates
- NT1 strontium nitrates
- NT1 tellurium nitrates
- NT1 terbium nitrates
- NT1 thallium nitrates
- NT1 thorium nitrates
- NT1 thulium nitrates
- NT1 titanium nitrates
- NT1 uranium nitrates
- NT1 uranyl nitrates
- NT2 unh
- NT1 vanadium nitrates
- NT1 ytterbium nitrates
- NT1 yttrium nitrates
- NT1 zinc nitrates
- NT1 zirconium nitrates
- RT nitric acid
- RT oxynitrates

**NITRATION**

- INIS: 1978-07-03; ETDE: 1976-02-19
- BT1 chemical reactions
- RT nitro compounds
- RT nitrogen

**NITRIC ACID**

- UF hydrogen nitrates
- \*BT1 inorganic acids
- BT1 nitrogen compounds
- BT1 oxygen compounds
- RT aqua regia
- RT denitration
- RT nitrates

**NITRIC ACID ESTERS**

- UF methyl nitrate
- \*BT1 esters
- NT1 nitrocellulose
- NT1 nitroglycerin
- NT1 peroxyacetyl nitrate
- NT1 petn

**NITRIC OXIDE**

- INIS: 1984-04-04; ETDE: 1976-01-07
- NO.
- \*BT1 nitrogen oxides

**NITRIDATION**

- BT1 chemical reactions  
RT nitrides

**NITRIDES**

1997-06-19

- UF *berkelium nitrides*  
UF *californium nitrides*  
UF *cesium nitrides*  
UF *curium nitrides*  
UF *lead nitrides*  
UF *palladium nitrides*  
UF *rhodium nitrides*  
BT1 nitrogen compounds  
BT1 pnictides  
NT1 aluminium nitrides  
NT1 americium nitrides  
NT1 argon nitrides  
NT1 barium nitrides  
NT1 beryllium nitrides  
NT1 boron nitrides  
NT1 calcium nitrides  
NT1 carbon nitrides  
NT1 cerium nitrides  
NT1 chromium nitrides  
NT1 copper nitrides  
NT1 dysprosium nitrides  
NT1 erbium nitrides  
NT1 europium nitrides  
NT1 gadolinium nitrides  
NT1 gallium nitrides  
NT1 germanium nitrides  
NT1 hafnium nitrides  
NT1 holmium nitrides  
NT1 indium nitrides  
NT1 iron nitrides  
NT1 lanthanum nitrides  
NT1 lithium nitrides  
NT1 magnesium nitrides  
NT1 manganese nitrides  
NT1 molybdenum nitrides  
NT1 neodymium nitrides  
NT1 neptunium nitrides  
NT1 nickel nitrides  
NT1 niobium nitrides  
NT1 phosphorus nitrides  
NT1 plutonium nitrides  
NT1 potassium nitrides  
NT1 praseodymium nitrides  
NT1 radium nitrides  
NT1 rhenium nitrides  
NT1 ruthenium nitrides  
NT1 samarium nitrides  
NT1 scandium nitrides  
NT1 silicon nitrides  
NT1 silver nitrides  
NT1 sodium nitrides  
NT1 sulfur nitrides  
NT1 tantalum nitrides  
NT1 terbium nitrides  
NT1 thorium nitrides  
NT1 thulium nitrides  
NT1 tin nitrides  
NT1 titanium nitrides  
NT1 tungsten nitrides  
NT1 uranium nitrides  
NT1 vanadium nitrides  
NT1 ytterbium nitrides  
NT1 yttrium nitrides  
NT1 zinc nitrides  
NT1 zirconium nitrides  
RT carbonitrides  
RT ceramics  
RT nitridation

**NITRIFICATION**

INIS: 2000-05-04; ETDE: 1981-08-04

The oxidation by bacteria of ammonium salts to nitrites and the further oxidation to nitrates

under proper conditions of temperature, moisture, and alkalinity.

- BT1 chemical reactions  
RT denitrification  
RT nitrogen  
RT nitrogen compounds  
RT nitrogen cycle  
RT nitrogen fixation

**NITRILES**

- UF *polyacrylonitrile*  
\*BT1 organic nitrogen compounds  
NT1 acetonitrile  
NT1 acrylonitrile  
NT1 propionitrile  
NT1 ttf-tenq  
RT carboxylic acids  
RT isonitriles

**nitrioltriacetic acid**

USE nta

**NITRITES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

- BT1 nitrogen compounds  
BT1 oxygen compounds  
RT nitrous acid

**NITRO COMPOUNDS**

1996-07-08

- UF *ndpp*  
\*BT1 organic nitrogen compounds  
NT1 dinitrophenol  
NT1 dpph  
NT1 metronidazole  
NT1 misonidazole  
NT1 nitrobenzene  
NT1 nitromethane  
NT1 nitrophenol  
NT1 picric acid  
NT1 polycyclic nitro compounds  
NT1 tetryl  
NT1 tnt  
RT nitration

**NITRO-GROUP DEHYDROGENASES**

INIS: 2000-03-29; ETDE: 1981-01-12

Code number 1.7.

(From 1974 till March 1997 URICASE was a valid ETDE descriptor. From June 1984 till March 1997 NITROREDUCTASES was a valid ETDE descriptor.)

- UF *nitroreductases*  
UF *uricase*  
\*BT1 oxidoreductases  
NT1 nitrogenase

**NITROBENZENE**

- \*BT1 nitro compounds  
RT benzene

**NITROCELLULOSE**

- UF *collodion*  
UF *gun cotton*  
UF *pyroxylin*  
\*BT1 cellulose esters  
\*BT1 chemical explosives  
\*BT1 nitric acid esters  
\*BT1 polysaccharides  
RT celluloid

**NITROGEN**

- UF *nitrogen nitrides*  
UF *tioga nitrogen removal process*  
\*BT1 nonmetals  
RT cryogenic fluids  
RT denitrification  
RT inert atmosphere  
RT kjeldahl method

- RT nitration  
RT nitrification  
RT nitrogen fixation

**NITROGEN 11**

- \*BT1 light nuclei  
\*BT1 nitrogen isotopes  
\*BT1 odd-even nuclei

**NITROGEN 12**

- \*BT1 beta-plus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 nitrogen isotopes  
\*BT1 odd-odd nuclei

**NITROGEN 12 TARGET**

ETDE: 1976-07-09

BT1 targets

**NITROGEN 13**

- \*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 light nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 nitrogen isotopes  
\*BT1 odd-even nuclei

**NITROGEN 13 BEAMS**

INIS: 1984-01-18; ETDE: 1988-12-05

\*BT1 radioactive ion beams

**NITROGEN 13 REACTIONS**

1992-02-18

\*BT1 heavy ion reactions

**NITROGEN 13 TARGET**

ETDE: 1976-07-09

BT1 targets

**NITROGEN 14**

- \*BT1 light nuclei  
\*BT1 nitrogen isotopes  
\*BT1 odd-odd nuclei  
\*BT1 stable isotopes  
RT nitrogen 14 beams  
RT nitrogen 14 reactions

**NITROGEN 14 BEAMS**

\*BT1 ion beams  
RT nitrogen 14

**NITROGEN 14 REACTIONS**

\*BT1 heavy ion reactions  
RT nitrogen 14

**NITROGEN 14 TARGET**

ETDE: 1976-07-09

BT1 targets

**NITROGEN 15**

- \*BT1 light nuclei  
\*BT1 nitrogen isotopes  
\*BT1 odd-even nuclei  
\*BT1 stable isotopes  
RT nitrogen 15 reactions

**NITROGEN 15 BEAMS**

1980-05-14

\*BT1 ion beams

**NITROGEN 15 REACTIONS**

\*BT1 heavy ion reactions  
RT nitrogen 15

**NITROGEN 15 TARGET**

ETDE: 1976-07-09

BT1 targets

**NITROGEN 16**

- \*BT1 beta-minus decay radioisotopes  
\*BT1 light nuclei  
\*BT1 nitrogen isotopes  
\*BT1 odd-odd nuclei

- \*BT1 seconds living radioisotopes
- NITROGEN 16 TARGET**  
*INIS: 1977-09-15; ETDE: 1977-11-10*  
 BT1 targets
- NITROGEN 17**  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 nitrogen isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes
- NITROGEN 18**  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 nitrogen isotopes  
 \*BT1 odd-odd nuclei
- NITROGEN 19**  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 nitrogen isotopes  
 \*BT1 odd-even nuclei
- NITROGEN 20**  
*1985-06-07*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 nitrogen isotopes  
 \*BT1 odd-odd nuclei
- NITROGEN 21**  
*INIS: 1986-04-02; ETDE: 1988-12-05*  
 \*BT1 light nuclei  
 \*BT1 nitrogen isotopes  
 \*BT1 odd-even nuclei
- NITROGEN 22**  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 nitrogen isotopes  
 \*BT1 odd-odd nuclei
- NITROGEN 23**  
*1985-10-22*  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 nitrogen isotopes  
 \*BT1 odd-even nuclei
- NITROGEN ADDITIONS**  
*1996-11-13*  
 BT1 alloys  
 NT1 steel-cr21mn9ni6  
 NT2 stainless steel-21-6-9  
 NT1 steel-nicrmo
- NITROGEN BROMIDES**  
*INIS: 2000-04-12; ETDE: 1980-12-08*  
 \*BT1 bromides  
 BT1 nitrogen compounds
- NITROGEN CARBIDES**  
 \*BT1 carbides  
 BT1 nitrogen compounds
- NITROGEN CHLORIDES**  
 \*BT1 chlorides  
 BT1 nitrogen compounds
- NITROGEN COMPLEXES**  
 BT1 complexes
- NITROGEN COMPOUNDS**  
*1997-06-17*  
 NT1 azides  
 NT1 carbonitrides  
 NT1 cyanates  
 NT1 hydrazine  
 NT1 isocyanates  
 NT1 isothiocyanates
- NT1 nitrates  
 NT2 aluminium nitrates  
 NT2 americium nitrates  
 NT2 ammonium nitrates  
 NT2 barium nitrates  
 NT2 berkelium nitrates  
 NT2 beryllium nitrates  
 NT2 bismuth nitrates  
 NT2 cadmium nitrates  
 NT2 calcium nitrates  
 NT2 cerium nitrates  
 NT2 cesium nitrates  
 NT2 chlorine nitrates  
 NT2 chromium nitrates  
 NT2 cobalt nitrates  
 NT2 copper nitrates  
 NT2 curium nitrates  
 NT2 dysprosium nitrates  
 NT2 einsteinium nitrates  
 NT2 erbium nitrates  
 NT2 europium nitrates  
 NT2 gadolinium nitrates  
 NT2 gallium nitrates  
 NT2 hafnium nitrates  
 NT2 holmium nitrates  
 NT2 indium nitrates  
 NT2 iron nitrates  
 NT2 lanthanum nitrates  
 NT2 lead nitrates  
 NT2 lithium nitrates  
 NT2 lutetium nitrates  
 NT2 magnesium nitrates  
 NT2 manganese nitrates  
 NT2 mercury nitrates  
 NT2 neodymium nitrates  
 NT2 neptunium nitrates  
 NT2 nickel nitrates  
 NT2 niobium nitrates  
 NT2 peroxyacetyl nitrate  
 NT2 petn  
 NT2 plutonium nitrates  
 NT2 potassium nitrates  
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 NT2 promethium nitrates  
 NT2 radium nitrates  
 NT2 rubidium nitrates  
 NT2 ruthenium nitrates  
 NT2 samarium nitrates  
 NT2 scandium nitrates  
 NT2 silver nitrates  
 NT2 sodium nitrates  
 NT2 strontium nitrates  
 NT2 tellurium nitrates  
 NT2 terbium nitrates  
 NT2 thallium nitrates  
 NT2 thorium nitrates  
 NT2 thulium nitrates  
 NT2 titanium nitrates  
 NT2 uranium nitrates  
 NT2 uranyl nitrates  
 NT3 unh  
 NT2 vanadium nitrates  
 NT2 ytterbium nitrates  
 NT2 yttrium nitrates  
 NT2 zinc nitrates  
 NT2 zirconium nitrates  
 NT1 nitric acid  
 NT1 nitrides  
 NT2 aluminium nitrides  
 NT2 americium nitrides  
 NT2 argon nitrides  
 NT2 barium nitrides  
 NT2 beryllium nitrides  
 NT2 boron nitrides  
 NT2 calcium nitrides  
 NT2 carbon nitrides  
 NT2 cerium nitrides  
 NT2 chromium nitrides  
 NT2 copper nitrides  
 NT2 dysprosium nitrides  
 NT2 erbium nitrides  
 NT2 europium nitrides  
 NT2 gadolinium nitrides  
 NT2 gallium nitrides  
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 NT2 hafnium nitrides  
 NT2 holmium nitrides  
 NT2 indium nitrides  
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 NT2 lanthanum nitrides  
 NT2 lithium nitrides  
 NT2 magnesium nitrides  
 NT2 manganese nitrides  
 NT2 molybdenum nitrides  
 NT2 neodymium nitrides  
 NT2 neptunium nitrides  
 NT2 nickel nitrides  
 NT2 niobium nitrides  
 NT2 phosphorus nitrides  
 NT2 plutonium nitrides  
 NT2 potassium nitrides  
 NT2 praseodymium nitrides  
 NT2 radium nitrides  
 NT2 rhenium nitrides  
 NT2 ruthenium nitrides  
 NT2 samarium nitrides  
 NT2 scandium nitrides  
 NT2 silicon nitrides  
 NT2 silver nitrides  
 NT2 sodium nitrides  
 NT2 sulfur nitrides  
 NT2 tantalum nitrides  
 NT2 terbium nitrides  
 NT2 thorium nitrides  
 NT2 thulium nitrides  
 NT2 tin nitrides  
 NT2 titanium nitrides  
 NT2 tungsten nitrides  
 NT2 uranium nitrides  
 NT2 vanadium nitrides  
 NT2 ytterbium nitrides  
 NT2 yttrium nitrides  
 NT2 zinc nitrides  
 NT2 zirconium nitrides  
 NT1 nitrites  
 NT1 nitrogen bromides  
 NT1 nitrogen carbides  
 NT1 nitrogen chlorides  
 NT1 nitrogen fluorides  
 NT1 nitrogen hydrides  
 NT2 ammonia  
 NT1 nitrogen iodides  
 NT1 nitrogen oxides  
 NT2 nitric oxide  
 NT2 nitrogen dioxide  
 NT2 nitrous oxide  
 NT1 nitrous acid  
 NT1 oxynitrates  
 RT denitrification  
 RT nitrification  
 RT organic nitrogen compounds
- NITROGEN COOLED REACTORS**  
 \*BT1 gas cooled reactors  
 NT1 hltr reactor  
 NT1 ml-1 reactor  
 NT1 zenith reactor
- NITROGEN CYCLE**  
 RT ecological concentration  
 RT ecosystems  
 RT fertilizers  
 RT metabolism  
 RT mineral cycling  
 RT nitrification  
 RT nitrogen fixation

**NITROGEN DIOXIDE**

INIS: 1977-09-06; ETDE: 1976-01-07  
NO2.

\*BT1 nitrogen oxides

**NITROGEN FIXATION**

1997-06-17

UF fixation (nitrogen)

RT air

RT bacteria

RT frankia

RT metabolism

RT nitrification

RT nitrogen

RT nitrogen cycle

RT nitrogenase

RT plant growth

RT rhizobium

RT soils

**NITROGEN FLUORIDES**

\*BT1 fluorides

BT1 nitrogen compounds

**NITROGEN HYDRIDES**

\*BT1 hydrides

BT1 nitrogen compounds

NT1 ammonia

**NITROGEN IODIDES**

2000-04-12

\*BT1 iodides

BT1 nitrogen compounds

**NITROGEN IONS**

\*BT1 ions

**NITROGEN ISOTOPES**

1999-07-16

BT1 isotopes

NT1 nitrogen 11

NT1 nitrogen 12

NT1 nitrogen 13

NT1 nitrogen 14

NT1 nitrogen 15

NT1 nitrogen 16

NT1 nitrogen 17

NT1 nitrogen 18

NT1 nitrogen 19

NT1 nitrogen 20

NT1 nitrogen 21

NT1 nitrogen 22

NT1 nitrogen 23

**NITROGEN MUSTARD**

UF bis(chloroethyl)amine

UF dichlorodiethylamine

UF mustard (nitrogen)

BT1 alkylating agents

\*BT1 amines

\*BT1 organic chlorine compounds

RT mutagens

**nitrogen nitrides**

USE nitrogen

**NITROGEN OXIDES**

BT1 nitrogen compounds

\*BT1 oxides

NT1 nitric oxide

NT1 nitrogen dioxide

NT1 nitrous oxide

RT greenhouse gases

RT selective catalytic reduction

**nitrogen sulfides**

USE sulfur nitrides

**NITROGEN TRANSFERASES**

INIS: 1986-12-03; ETDE: 1981-01-30

Code number 2.6.

\*BT1 transferases

NT1 aminotransferases

**NITROGENASE**

INIS: 1983-10-14; ETDE: 1981-01-12

UF nitrogenases

\*BT1 nitro-group dehydrogenases

RT nitrogen fixation

**nitrogenases**

INIS: 2000-04-12; ETDE: 1978-12-11

(Prior to January 1981, this was a valid ETDE descriptor.)

USE nitrogenase

**NITROGLYCERIN**

2000-04-12

\*BT1 chemical explosives

\*BT1 nitric acid esters

RT glycerol

**NITROMETHANE**

INIS: 1980-12-01; ETDE: 1976-09-14

\*BT1 chemical explosives

\*BT1 nitro compounds

RT methane

**nitronic 40**

INIS: 1980-09-11; ETDE: 1979-12-10

USE stainless steel-21-6-9

**NITROPHENOL**

\*BT1 nitro compounds

\*BT1 phenols

RT dinitrophenol

**nitroreductases**

INIS: 2000-04-12; ETDE: 1984-06-29

A group of enzymes involved in the reduction of nitrate compounds.

(Prior to March 1997 this was a valid ETDE descriptor.)

USE nitro-group dehydrogenases

**NITROSAMINES**

INIS: 2000-04-12; ETDE: 1982-01-21

\*BT1 amines

\*BT1 nitroso compounds

RT carcinogens

RT mutagens

**NITROSO COMPOUNDS**

UF dinitrosoresorcinol

\*BT1 organic nitrogen compounds

NT1 1-nitroso-2-naphthol

NT1 methyl nitrosoourea

NT1 nitrosamines

NT1 nitroso-r salt

NT1 nitrosooureas

**NITROSO-R SALT**

\*BT1 naphthols

\*BT1 nitroso compounds

\*BT1 sulfonic acids

**NITROSOUREAS**

INIS: 1985-01-17; ETDE: 1984-06-29

\*BT1 nitroso compounds

RT urea

**NITROUS ACID**

\*BT1 inorganic acids

BT1 nitrogen compounds

BT1 oxygen compounds

RT nitrites

**NITROUS ACID ESTERS**

INIS: 2000-04-12; ETDE: 1976-12-16

\*BT1 esters

**NITROUS OXIDE**

INIS: 1984-04-04; ETDE: 1976-01-07

N2O.

\*BT1 nitrogen oxides

RT anesthetics

**NITROXYL RADICALS**

INIS: 1981-08-06; ETDE: 1981-09-22

BT1 radicals

**nk cells**

INIS: 1992-01-28; ETDE: 2002-04-16

USE natural killer cells

**nmp(net material product)**

INIS: 2000-04-12; ETDE: 1979-11-07

SEE gross domestic product

SEE gross national product

**nmr**

USE nuclear magnetic resonance

**NMR IMAGING**

INIS: 1986-05-23; ETDE: 1986-11-18

BT1 diagnostic techniques

RT nuclear magnetic resonance

**nmr logging**

INIS: 1978-04-21; ETDE: 1976-06-07

USE nuclear magnetic logging

**NMR SPECTRA**

INIS: 1978-04-21; ETDE: 1978-07-06

Nuclear Magnetic Resonance spectra.

UF nuclear magnetic resonance spectra

UF pmr spectra

UF proton magnetic resonance spectra

BT1 spectra

RT nuclear magnetic resonance

**NMR SPECTROMETERS**

\*BT1 spectrometers

**NN-2170 DIBARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

\*BT1 dibaryons

**NN-2250 DIBARYONS**

INIS: 1987-12-21; ETDE: 1988-03-16

\*BT1 dibaryons

**no. 2 fuel oil**

INIS: 2000-04-12; ETDE: 1976-03-11

USE heating oils

**NOBELIUM**

\*BT1 actinides

\*BT1 transplutonium elements

**NOBELIUM 250**

INIS: 1976-03-25; ETDE: 1975-11-26

\*BT1 actinide nuclei

\*BT1 even-even nuclei

\*BT1 microseconds living radioisotopes

\*BT1 nobelium isotopes

\*BT1 spontaneous fission radioisotopes

**NOBELIUM 251**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 nobelium isotopes

**NOBELIUM 252**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 nobelium isotopes

\*BT1 seconds living radioisotopes

\*BT1 spontaneous fission radioisotopes

**NOBELIUM 253**

\*BT1 actinide nuclei

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 minutes living radioisotopes

\*BT1 nobelium isotopes

**NOBELIUM 254**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 nobelium isotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**NOBELIUM 255**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 nobelium isotopes

**NOBELIUM 256**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 nobelium isotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 spontaneous fission radioisotopes

**NOBELIUM 257**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 nobelium isotopes  
 \*BT1 seconds living radioisotopes

**NOBELIUM 258**

\*BT1 actinide nuclei  
 \*BT1 even-even nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 nobelium isotopes  
 \*BT1 spontaneous fission radioisotopes

**NOBELIUM 259**

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 nobelium isotopes

**NOBELIUM 260**

*INIS: 1978-08-14; ETDE: 1978-10-19*

\*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 nobelium isotopes

**NOBELIUM 261**

*INIS: 1987-02-25; ETDE: 1987-05-01*

\*BT1 actinide nuclei  
 \*BT1 even-odd nuclei  
 \*BT1 nobelium isotopes

**NOBELIUM 262**

*INIS: 1993-02-25; ETDE: 1987-05-01*

\*BT1 actinide nuclei  
 \*BT1 even-even nuclei  
 \*BT1 nobelium isotopes

**NOBELIUM 264**

*INIS: 1993-03-10; ETDE: 1993-04-16*

\*BT1 actinide nuclei  
 \*BT1 even-even nuclei  
 \*BT1 nobelium isotopes

**NOBELIUM COMPLEXES**

\*BT1 actinide complexes  
 \*BT1 transuranium complexes

**NOBELIUM COMPOUNDS**

*1996-07-18*

*UF nobelium oxides*

BT1 actinide compounds  
 \*BT1 transplutonium compounds

**nobelium ions**

*1996-07-18*

(Until July 1996 this was a valid descriptor.)

USE ions

**NOBELIUM ISOTOPES**

*1999-07-16*

BT1 isotopes  
 NT1 nobelium 250  
 NT1 nobelium 251  
 NT1 nobelium 252  
 NT1 nobelium 253  
 NT1 nobelium 254  
 NT1 nobelium 255  
 NT1 nobelium 256  
 NT1 nobelium 257  
 NT1 nobelium 258  
 NT1 nobelium 259  
 NT1 nobelium 260  
 NT1 nobelium 261  
 NT1 nobelium 262  
 NT1 nobelium 264

**nobelium oxides**

*1996-07-18*

(Until July 1996 this was a valid descriptor.)

USE nobelium compounds  
 USE oxides

**noble gases**

USE rare gases

**NOCARDIA**

\*BT1 bacteria  
 RT actinomycetes

**NOCTILUCENT CLOUDS**

*2000-04-12*

BT1 clouds  
 RT airglow  
 RT luminescence

**NOCTURNAL VARIATIONS**

*INIS: 2000-04-12; ETDE: 1980-07-09*

BT1 variations  
 RT daily variations

**NODAL EXPANSION METHOD**

*INIS: 1989-09-15; ETDE: 1989-10-16*

BT1 calculation methods  
 RT finite difference method  
 RT finite element method  
 RT mathematics  
 RT mesh generation

**NODULAR CORROSION**

*INIS: 1992-06-17; ETDE: 1992-07-02*

\*BT1 corrosion

**NOGENT SUR SEINE-1 REACTOR**

*INIS: 1984-07-23; ETDE: 1984-09-05*

\*BT1 pwr type reactors

**NOGENT SUR SEINE-2 REACTOR**

*INIS: 1984-07-23; ETDE: 1984-09-05*

\*BT1 pwr type reactors

**NOGIZAWALITE**

*2000-04-12*

\*BT1 oxide minerals  
 RT zirconium oxides

**NOISE**

NT1 background noise  
 NT1 radio noise  
 NT2 atmospheric  
 NT2 whistlers  
 NT1 seismic noise  
 NT1 temperature noise  
 RT fluctuations

RT noise pollution  
 RT noise pollution abatement  
 RT noise pollution control  
 RT signal-to-noise ratio  
 RT steam mufflers

**noise (reactor)**

USE reactor noise

**NOISE DOSEMETERS**

*INIS: 1992-05-05; ETDE: 1983-08-25*

BT1 measuring instruments  
 RT acoustic measurements  
 RT noise pollution

**NOISE POLLUTION**

*INIS: 1992-05-05; ETDE: 1977-03-04*

*Objectionable or harmful levels of noise.*

BT1 pollution  
 RT noise  
 RT noise dosimeters  
 RT noise pollution abatement  
 RT noise pollution control

**NOISE POLLUTION ABATEMENT**

*INIS: 1992-05-05; ETDE: 1977-03-04*

*Reduction of noise at its source.*

BT1 pollution abatement  
 RT noise  
 RT noise pollution  
 RT noise pollution control

**NOISE POLLUTION CONTROL**

*INIS: 1992-05-05; ETDE: 1977-03-04*

*Reduction of noise after it has been produced by a source.*

\*BT1 pollution control  
 RT noise  
 RT noise pollution  
 RT noise pollution abatement  
 RT pollution control equipment

**NOISE THERMOMETERS**

*1978-11-24*

*Operation based on the Nyquist theorem of thermal noise.*

\*BT1 in core instruments  
 \*BT1 thermometers  
 RT temperature measurement

**nok-1 reactor**

*Nordost Schweizerische Kraftwerke AG-1 reactor.*

USE beznau-1 reactor

**nok-2 reactor**

*Nordost Schweizerische Kraftwerke AG-2 reactor.*

USE beznau-2 reactor

**NOLEN-SCHIFFER ANOMALY**

RT coulomb energy  
 RT isobaric analogs

**NOMOGRAMS**

\*BT1 diagrams

**non-aqueous solvents**

*INIS: 1984-07-20; ETDE: 2002-04-16*

USE nonaqueous solvents

**non-canonical dimension**

USE anomalous dimension

**non-central forces**

*INIS: 1984-07-20; ETDE: 2002-04-16*

USE noncentral forces

**non-destructive analysis**

*INIS: 1984-07-20; ETDE: 2002-04-16*

USE nondestructive analysis

**non-destructive testing**

INIS: 1984-07-20; ETDE: 2002-04-16

USE nondestructive testing

**NON-DISJUNCTION**UF *nondisjunction*

RT aneuploidy

RT cell division

RT genome mutations

**non-dispersive ion waves**

USE ion acoustic waves

**NON-EQUILIBRIUM PLASMA**UF *nonequilibrium plasma*

BT1 plasma

RT bifurcation

RT equilibrium plasma

RT limit cycle

RT tail electrons

RT tail ions

**NON-INDUCTIVE CURRENT DRIVE**

INIS: 1987-06-29; ETDE: 1987-07-09

*Generation of a plasma current by a non-inductive technique.*

NT1 ecr current drive

NT1 lower hybrid current drive

RT bootstrap current

RT current-drive heating

RT electric currents

RT plasma

**non lagrangian quantum field theory**

1977-11-21

USE axiomatic field theory

**non-leptonic decay**

INIS: 1984-07-20; ETDE: 2002-04-16

USE weak hadronic decay

**non-linear field theory**

INIS: 1984-07-20; ETDE: 2002-04-16

USE nonlinear problems

USE quantum field theory

**non-linear optics**

INIS: 1986-03-04; ETDE: 2002-04-16

USE nonlinear optics

**non-linear plasma instabilities**

INIS: 1993-11-09; ETDE: 2002-04-16

USE parametric instabilities

**non-linear problems**

INIS: 1984-07-20; ETDE: 2002-04-16

USE nonlinear problems

**non-linear programming**

INIS: 1984-07-20; ETDE: 2002-04-16

USE nonlinear programming

**non-linear systems**

INIS: 1984-07-20; ETDE: 2002-04-16

USE nonlinear problems

**non-local potential**

INIS: 1984-07-20; ETDE: 2002-04-16

USE nonlocal potential

**non-local quantum field theory**

INIS: 1984-07-20; ETDE: 2002-04-16

USE yukawa nonlocal theory

**non-measurable variables**

INIS: 1984-07-20; ETDE: 2002-04-16

USE hidden variables

**non-metals**

INIS: 1984-07-20; ETDE: 2002-04-16

USE nonmetals

**NON-PEPTIDE C-N HYDROLASES**

INIS: 1986-12-03; ETDE: 1981-01-12

Code number 3.5.

\*BT1 hydrolases

NT1 amidases

NT2 arginase

NT2 urease

NT1 amidinases

**non-proliferation**

INIS: 1978-02-23; ETDE: 2002-04-16

USE proliferation

**NON-PROLIFERATION POLICY**

INIS: 1998-06-10; ETDE: 1979-09-06

RT arms control

RT ctbt

RT ctbto

RT government policies

RT non-proliferation treaty

RT nuclear fuels

RT nuclear materials diversion

RT nuclear weapons

RT nuclear weapons dismantlement

RT proliferation

**NON-PROLIFERATION TREATY**UF *nonproliferation treaty*

BT1 treaties

RT arms control

RT non-proliferation policy

RT nuclear materials possession

RT proliferation

RT safeguards

**non-radioactive waste disposal**

INIS: 1984-07-20; ETDE: 2002-04-16

USE nonradioactive waste disposal

**non-radioactive wastes**

INIS: 1984-07-20; ETDE: 2002-04-16

USE nonradioactive wastes

**non-uniform irradiation**

INIS: 1984-07-20; ETDE: 2002-04-16

USE nonuniform irradiation

**non-unitary representations**

INIS: 1984-07-20; ETDE: 2002-04-16

USE nonunitary representations

**NONANOIC ACID**UF *nonylic acid*UF *pelargonic acid*

\*BT1 monocarboxylic acids

**NONAQUEOUS SOLVENTS**See also *ORGANIC SOLVENTS.*UF *non-aqueous solvents*

BT1 solvents

NT1 organic solvents

NT2 cellosolves

NT2 solvesso

NT2 turpentine

RT solvation

**nonaxial nuclei**

USE deformed nuclei

**nonbranded independent marketers**

INIS: 2000-04-12; ETDE: 1979-09-28

USE marketers

**noncanonical dimension**

INIS: 1984-07-20; ETDE: 2002-04-16

USE anomalous dimension

**NONCENTRAL FORCES**UF *non-central forces*

RT potentials

RT tensor mesons

**NONDESTRUCTIVE ANALYSIS**UF *non-destructive analysis*UF *nondestructive chemical analysis*

BT1 chemical analysis

NT1 activation analysis

NT2 charged-particle activation analysis

NT2 neutron activation analysis

NT2 photon activation analysis

NT1 delayed neutron analysis

NT1 deuteron microprobe analysis

NT1 electron microprobe analysis

NT1 ion microprobe analysis

NT1 ion scattering analysis

NT1 nuclear reaction analysis

NT2 delayed neutron analysis

NT1 proton microprobe analysis

NT1 radiation absorption analysis

NT1 radiation scattering analysis

NT1 x-ray emission analysis

NT2 pixe analysis

NT2 x-ray fluorescence analysis

**nondestructive chemical analysis**

INIS: 1993-11-09; ETDE: 2002-04-16

USE nondestructive analysis

**NONDESTRUCTIVE TESTING**UF *non-destructive testing*

\*BT1 materials testing

NT1 acoustic testing

NT2 acoustic emission testing

NT2 ultrasonic testing

NT1 electrical testing

NT1 electromagnetic testing

NT2 eddy current testing

NT1 industrial radiography

NT2 beta radiography

NT2 gamma radiography

NT3 gamma fuel scanning

NT2 neutron radiography

NT2 proton radiography

NT2 x-ray radiography

NT1 liquid penetrant inspection

NT1 magnetic testing

NT1 radiation attenuation testing

NT1 thermal testing

NT2 frost tests

RT autoradiography

RT fuel scanning

RT in-service inspection

RT inspection

RT quality control

RT radiometric gages

**nondisjunction**

INIS: 1984-07-20; ETDE: 2002-04-16

USE non-disjunction

**nondispersive ion waves**

INIS: 1984-07-20; ETDE: 2002-04-16

USE ion acoustic waves

**nonequilibrium plasma**

INIS: 1984-07-20; ETDE: 2002-04-16

USE non-equilibrium plasma

**nonleptonic decay**

INIS: 1978-02-23; ETDE: 1978-05-01

USE weak hadronic decay

**nonlinear field theory**

INIS: 1977-11-21; ETDE: 2002-04-16

USE nonlinear problems

USE quantum field theory

**NONLINEAR OPTICS**

INIS: 1986-03-04; ETDE: 1981-03-17

*Study of the interaction of radiation with matter in which certain variables describing the response of the matter are not*



*proportional to variables describing the radiation.*

UF *non-linear optics*

BT1 optics

RT frequency mixing

RT harmonic generation

RT nonlinear problems

### nonlinear plasma instabilities

USE parametric instabilities

### NONLINEAR PROBLEMS

UF *non-linear field theory*

UF *non-linear problems*

UF *non-linear systems*

UF *nonlinear field theory*

UF *nonlinear systems*

RT baecklund transformation

RT frequency mixing

RT harmonic generation

RT harmonics

RT limit cycle

RT mathematics

RT nonlinear optics

RT plasma disruption

RT plasma instability

RT quasilinear problems

RT reactor stability

### NONLINEAR PROGRAMMING

UF *non-linear programming*

BT1 calculation methods

RT dynamic programming

RT econometrics

RT linear programming

RT mathematical models

RT optimization

### nonlinear systems

USE nonlinear problems

### NONLOCAL POTENTIAL

UF *non-local potential*

BT1 potentials

RT locality

RT nuclear potential

RT percy-buck model

### nonlocal quantum field theory

INIS: 1977-11-21; ETDE: 2002-04-16

USE yukawa nonlocal theory

### NONLUMINOUS MATTER

INIS: 1985-01-17; ETDE: 1985-03-12

*Unseen mass in the Universe assumed from discrepancies in cosmological model values and observation.*

UF *dark matter*

UF *unobserved matter*

UF *unseen matter*

BT1 matter

RT galaxies

RT general relativity theory

RT intergalactic space

RT universe

### nonmeasurable variables

1985-11-18

(Prior to December 1985 this was a valid descriptor.)

USE hidden variables

### NONMETALS

UF *non-metals*

BT1 elements

NT1 carbon

NT2 activated carbon

NT2 carbon black

NT2 carbynes

NT2 diamonds

NT2 fullerenes

NT2 graphite

NT2 pyrolytic carbon

NT1 halogens

NT2 astatine

NT2 bromine

NT2 chlorine

NT2 fluorine

NT2 iodine

NT1 hydrogen

NT1 nitrogen

NT1 oxygen

NT1 phosphorus

NT1 rare gases

NT2 argon

NT2 helium

NT2 krypton

NT2 neon

NT2 radon

NT2 xenon

NT1 sulfur

RT semimetals

### nonproliferation

INIS: 1984-07-20; ETDE: 2002-04-16

USE proliferation

### nonproliferation treaty

INIS: 1984-07-20; ETDE: 2002-04-16

USE non-proliferation treaty

### NONRADIOACTIVE WASTE

#### DISPOSAL

ETDE: 1991-01-15

(Prior to April 1977 this was a valid term.)

UF *non-radioactive waste disposal*

\*BT1 nonradioactive waste management

\*BT1 waste disposal

RT chemical effluents

RT waste disposal acts

### NONRADIOACTIVE WASTE

#### MANAGEMENT

INIS: 1990-12-07; ETDE: 1991-01-15

\*BT1 waste management

NT1 nonradioactive waste disposal

RT nonradioactive wastes

### NONRADIOACTIVE WASTES

ETDE: 1991-01-15

(Prior to April 1977 this was a valid term.)

UF *non-radioactive wastes*

BT1 wastes

NT1 chemical wastes

NT2 chemical effluents

RT hazardous materials

RT nonradioactive waste management

### NONSPECIFIC PEPTIDASES

INIS: 1990-12-07; ETDE: 1981-01-12

(Prior to December 1990, this concept was indexed by NONSPECIFIC PROTEINASES.)

UF *nonspecific proteinases*

\*BT1 peptide hydrolases

NT1 renin

NT1 urokinase

### nonspecific proteinases

INIS: 1990-12-07; ETDE: 2002-04-16

(Prior to December 1990, this was a valid descriptor.)

USE nonspecific peptidases

### NONUNIFORM IRRADIATION

UF *non-uniform irradiation*

BT1 irradiation

RT critical organs

RT isodose curves

RT radionuclide kinetics

RT spatial dose distributions

### NONUNITARY REPRESENTATIONS

UF *non-unitary representations*

UF *representations (nonunitary)*

RT group theory

RT irreducible representations

RT symmetry groups

RT unitarity

### nonviscous flow

INIS: 1986-03-04; ETDE: 2002-04-16

USE ideal flow

### nonyl radicals

1996-07-18

(Until July 1996 this was a valid descriptor.)

USE alkyl radicals

### nonylic acid

USE nonanoic acid

### NORA REACTOR

UF *norwegian research reactor nora*

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

RT enriched uranium reactors

RT natural uranium reactors

### NORADRENALINE

UF *norepinephrine*

\*BT1 adrenal hormones

\*BT1 cardiotonics

\*BT1 neuroregulators

\*BT1 sympathomimetics

### NORBORNADIENE

INIS: 2000-04-12; ETDE: 1977-12-22

\*BT1 cycloalkenes

### NORD COMPUTERS

INIS: 1976-08-17; ETDE: 1976-11-01

BT1 computers

### nordheim equation

USE inhour equation

### NORDHEIM-SCALETAR METHOD

RT control rod worths

### nordostschweizerische kraftwerk-1 reaktor

INIS: 1984-06-21; ETDE: 2002-04-16

USE beznau-1 reactor

### nordostschweizerische kraftwerk-2 reaktor

INIS: 1984-06-21; ETDE: 2002-04-16

USE beznau-2 reactor

### NORDSTRANDITE

INIS: 2000-04-12; ETDE: 1975-10-01

\*BT1 oxide minerals

RT aluminium hydroxides

### norepinephrine

INIS: 2000-04-12; ETDE: 1981-04-20

USE noradrenaline

### norilsk research reactor rg-1m

INIS: 1984-06-21; ETDE: 2002-04-16

USE rg-1m reactor

### NORMAL-MODE ANALYSIS

UF *analysis (normal-mode)*

RT fourier analysis

RT plasma waves

### NORTH AMERICA

NT1 canada

NT2 alberta

NT2 british columbia

**NT2** manitoba  
**NT2** new brunswick  
**NT2** newfoundland  
**NT2** northwest territories  
**NT2** nova scotia  
**NT2** nunavut  
**NT2** ontario  
   **NT3** chalk river  
   **NT3** deep river  
   **NT3** elliot lake  
**NT2** prince edward island  
**NT2** quebec  
**NT2** saskatchewan  
**NT2** yukon territory  
**NT1** mexico  
**NT1** usa  
   **NT2** alabama  
   **NT2** alaska  
   **NT2** american samoa  
   **NT2** arizona  
   **NT2** arkansas  
   **NT2** california  
     **NT3** brawley geothermal field  
     **NT3** coso hot springs  
     **NT3** los angeles  
**NT2** colorado  
   **NT3** mahogany zone  
   **NT3** sand wash basin  
**NT2** connecticut  
**NT2** delaware  
**NT2** florida  
   **NT3** cape kennedy  
**NT2** georgia  
   **NT3** atlanta  
**NT2** great basin  
**NT2** hawaii  
**NT2** idaho  
**NT2** illinois  
   **NT3** chicago  
**NT2** indiana  
**NT2** iowa  
**NT2** kansas  
**NT2** kentucky  
**NT2** louisiana  
**NT2** maine  
**NT2** maryland  
**NT2** massachusetts  
**NT2** michigan  
**NT2** minnesota  
**NT2** mississippi  
**NT2** missouri  
**NT2** montana  
   **NT3** powder river basin  
**NT2** nebraska  
**NT2** nevada  
   **NT3** steamboat springs  
   **NT3** tonopah test range  
**NT2** new hampshire  
**NT2** new jersey  
**NT2** new mexico  
   **NT3** los alamos  
**NT2** new york  
   **NT3** new york city  
**NT2** north carolina  
**NT2** north dakota  
**NT2** ohio  
   **NT3** cleveland  
**NT2** oklahoma  
**NT2** oregon  
   **NT3** mt hood  
**NT2** pennsylvania  
   **NT3** pittsburgh  
**NT2** puerto rico  
**NT2** rhode island  
**NT2** south carolina  
**NT2** south dakota  
   **NT3** table mountain area  
**NT2** tennessee  
   **NT3** chattanooga

**NT3** oak ridge  
**NT2** texas  
**NT2** us east coast  
**NT2** us gulf coast  
**NT2** us west coast  
**NT2** utah  
   **NT3** roosevelt hot springs  
**NT2** vermont  
**NT2** virgin islands  
**NT2** virginia  
**NT2** washington  
   **NT3** richland  
**NT2** washington dc  
**NT2** west virginia  
**NT2** wisconsin  
**NT2** wyoming  
   **NT3** powder river basin  
   **NT3** rock springs sites  
   **NT3** washakie basin

#### NORTH ANNA-1 REACTOR

*Virginia Electric and Power Co., Mineral, Virginia, USA.*  
*UF mineral virginia north anna-1 reactor*  
*\*BT1 pwr type reactors*

#### NORTH ANNA-2 REACTOR

*Virginia Electric and Power Co., Mineral, Virginia, USA.*  
*UF mineral virginia north anna-2 reactor*  
*\*BT1 pwr type reactors*

#### NORTH ANNA-3 REACTOR

*Virginia Electric and Power Co., Mineral, Virginia, USA. Canceled in 1982 before construction began.*  
*UF mineral virginia north anna-3 reactor*  
*\*BT1 pwr type reactors*

#### NORTH ANNA-4 REACTOR

*Virginia Electric and Power Co., Mineral, Virginia, USA. Canceled in 1980 before construction began.*  
*UF mineral virginia north anna-4 reactor*  
*\*BT1 pwr type reactors*

#### north atlantic region

*INIS: 2000-04-12; ETDE: 1978-07-06*  
 (Prior to June 1982, this was a valid ETDE descriptor.)  
*SEE usa*

#### north atlantic treaty organization

*INIS: 1993-11-09; ETDE: 2002-04-16*  
*USE nato*

#### NORTH CAROLINA

*1997-06-17*  
*\*BT1 usa*  
*RT cape fear river*  
*RT onslow bay*  
*RT us east coast*

#### north carolina pulstar reactor

*USE pulstar-raleigh reactor*

#### north carolina state college research reactor-1

*1993-11-09*  
*USE ncsr-1 reactor*

#### NORTH COAST-1 REACTOR

*Puerto Rico Water Resources Authority, Arecibo, Puerto Rico, USA. Formerly the Aguirre-1 Reactor, relocated and renamed. Canceled in 1978 before construction began.*  
*UF aguirre-1 reactor*  
*\*BT1 pwr type reactors*  
*RT aguirre reactor*

#### NORTH DAKOTA

*\*BT1 usa*

*RT missouri river*  
*RT williston basin*

#### NORTH KOREA

*UF korea (north)*  
*BT1 asia*  
*BT1 developing countries*  
*RT centrally planned economies*

#### NORTH PLATTE RIVER

*INIS: 2000-04-12; ETDE: 1977-10-20*  
*\*BT1 rivers*  
*RT north platte river basin*

#### NORTH PLATTE RIVER BASIN

*INIS: 2000-04-12; ETDE: 1977-10-20*  
*BT1 watersheds*  
*RT colorado*  
*RT nebraska*  
*RT north platte river*  
*RT wyoming*

#### NORTH SEA

*\*BT1 atlantic ocean*  
*NT1 wadden sea*

#### NORTH-SOUTH ASYMMETRY

*For global aspects only.*  
*BT1 asymmetry*  
*RT cosmic radiation*  
*RT geographical variations*

#### NORTH STAR PROJECT

*INIS: 2000-04-12; ETDE: 1976-10-13*  
*Proposal to ship natural gas from North Central Siberia to U.S. East Coast.*  
*RT international agreements*  
*RT liquefied natural gas*

#### north yemen

*INIS: 2000-04-12; ETDE: 1981-05-18*  
*USE yemen*

#### NORTHERN HEMISPHERE

*INIS: 1999-04-28; ETDE: 1980-09-22*  
*Both for the surface and the celestial hemisphere.*  
*\*BT1 earth planet*  
*RT southern hemisphere*

#### northern ireland

*USE united kingdom*

#### northern rhodesia

*USE zambia*

#### northern states monticello reactor

*USE monticello reactor*

#### NORTHERN TERRITORY

*\*BT1 australia*  
*RT jabiluka deposit*  
*RT koongarra deposit*  
*RT nabarlek deposit*  
*RT ranger deposit*  
*RT south alligator deposit*

#### NORTHWEST TERRITORIES

*1996-07-08*  
 (Prior to July 1996 PORT RADIUM was a valid ETDE descriptor.)  
*UF port radium*  
*\*BT1 canada*

#### NORWAY

*BT1 developed countries*  
*\*BT1 scandinavia*  
*RT lapps*  
*RT oecd*

#### NORWEGIAN ORGANIZATIONS

*BT1 national organizations*

**norwegian research reactor nora**

1993-11-09

USE nora reactor

**nos. 4, 5, and 6 fuel oils**

INIS: 2000-04-12; ETDE: 1976-01-23

USE residual fuels

**nos. 5 and 6 burner oils**

INIS: 2000-04-12; ETDE: 1976-01-23

USE residual fuels

**NOSE**

\*BT1 face

BT1 respiratory system

RT sense organs

**nose cones**

2000-04-12

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE space vehicles

**NOTCHES**

RT cracks

RT impact tests

**notice of probable violation**

INIS: 2000-04-12; ETDE: 1979-12-10

(Prior to March 1997 this was a valid ETDE descriptor.)

USE violations

**notices**

INIS: 2000-04-12; ETDE: 1979-12-10

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE administrative procedures

**NOTIFICATION PROCEDURES**

INIS: 1976-12-08; ETDE: 1990-11-20

*Procedures to be followed by a nuclear operator in compliance with his legal obligation to notify certain actions or incidents to the authorities.*

BT1 administrative procedures

RT nuclear operators

**noto-1 reactor**

INIS: 1989-09-14; ETDE: 1989-10-16

USE shika-1 reactor

**NOUGAT OPERATION**

INIS: 2000-04-12; ETDE: 1979-11-23

\*BT1 nuclear explosions

\*BT1 underground explosions

RT contained explosions

**NOVA FACILITY**

INIS: 1981-08-31; ETDE: 1978-04-28

*Upgrade of SHIVA FACILITY at LLL for laser fusion experiments.*

RT laser fusion reactors

RT lawrence livermore laboratory

RT lawrence livermore national laboratory

RT neodymium lasers

RT novette facility

RT shiva facility

**NOVA MODEL**

\*BT1 particle models

**NOVA SCOTIA**

\*BT1 canada

**NOVACEKITE**

2000-04-12

\*BT1 oxide minerals

\*BT1 uranium minerals

RT arsenic oxides

RT magnesium oxides

RT uranium oxides

**NOVAE**

\*BT1 eruptive variable stars

RT supernovae

**novain**

USE carnitine

**NOVAYA ZEMLYA**

INIS: 1995-11-22; ETDE: 1996-09-09

BT1 islands

\*BT1 russian federation

RT arctic regions

RT nuclear explosions

RT radioactive waste disposal

**NOVETTE FACILITY**

INIS: 1985-10-23; ETDE: 1983-11-09

*Two-beam Nd glass laser at LLNL operating at fundamental or harmonic wavelengths used for target irradiation experiments.*

RT lawrence livermore national laboratory

RT neodymium lasers

RT nova facility

RT shiva facility

**novocaine**

USE procaine

**NOVOVORONEZH-1 REACTOR**

(Prior to June 2003 this reactor was indexed with WWER-1 REACTOR.)

UF wwer-1 reactor

\*BT1 wwer type reactors

**NOVOVORONEZH-2 REACTOR**

(Prior to June 2003 this reactor was indexed with WWER-2 REACTOR.)

UF wwer-2 reactor

\*BT1 wwer type reactors

**NOVOVORONEZH-3 REACTOR**

(Prior to June 2003 this reactor was indexed with WWER-3 REACTOR.)

UF wwer-3 reactor

\*BT1 wwer type reactors

**NOVOVORONEZH-4 REACTOR**

(Prior to June 2003 this reactor was indexed with WWER-4 REACTOR.)

UF wwer-4 reactor

\*BT1 wwer type reactors

**NOVOVORONEZH-5 REACTOR**

(Prior to June 2003 this reactor was indexed with WWER-5 REACTOR.)

UF wwer-5 reactor

\*BT1 wwer type reactors

**NOXSO PROCESS**

INIS: 1994-07-01; ETDE: 1984-06-29

*A dry, sorbent regenerable system capable of removing both sulfur dioxide and NOx from flue gas generated by coal-fired boilers.*

\*BT1 combined soxnox processes

**NOZZLES**

RT aerosol generators

RT flowmeters

RT fuel injection systems

RT jet drills

RT jets

RT orifices

RT pipe fittings

RT separation nozzle method

**npd-2 reactor**

INIS: 2000-04-12; ETDE: 1980-07-23

USE npd reactor

**NPd REACTOR***Rolphon, Ontario, Canada.*

UF npd-2 reactor

UF npd2 rolphon reactor

UF nuclear power demonstration reactor-2 canada

UF nuclear power demonstration reactor canada

UF rolphon npd-2 reactor

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

**npd2 rolphon reactor**

2000-04-12

USE npd reactor

**npr reactor**

USE n-reactor

**nra**

2002-11-25

USE nuclear reaction analysis

**nrel**

1994-06-13

USE national renewable energy laboratory

**NRL CYCLOTRON**

UF naval research laboratory cyclotron

UF us naval research laboratory cyclotron

\*BT1 isochronous cyclotrons

**NRL LINAC**

UF naval research laboratory linac

UF us naval research laboratory linac

\*BT1 linear accelerators

**NRPB**

INIS: 1979-12-20; ETDE: 1980-01-24

*National Radiological Protection Board.*

UF national radiological protection board

\*BT1 united kingdom organizations

**nrts**

INIS: 1994-08-22; ETDE: 1975-12-17

USE ineel

**nrts-etr reactor**

USE etr reactor

**nrts-lptf reactor**

USE lptf reactor

**nru canada reactor**

USE nru reactor

**NRU REACTOR***AECL, Chalk River Nuclear Labs., Ontario, Canada.*

UF canadian nru reactor

UF nru canada reactor

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 natural uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

**NRX-A1 REACTOR**

2000-04-12

*LASL, Los Alamos, New Mexico, USA.*

UF nerva nrx-a1 reactor

\*BT1 experimental reactors

\*BT1 space propulsion reactors

**NRX-A2 REACTOR***LASL, Los Alamos, New Mexico, USA.*

UF nerva nrx-a2 reactor

\*BT1 experimental reactors

\*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

**NRX-A3 REACTOR**

LASL, Los Alamos, New Mexico, USA.

UF *nerva nrx-a3 reactor*

\*BT1 experimental reactors

\*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

**NRX-A4-EST REACTOR**

LASL, Los Alamos, New Mexico, USA.

UF *nerva nrx-a4 engine system test reactor*

\*BT1 experimental reactors

\*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

**NRX-A5 REACTOR**

LASL, Los Alamos, New Mexico, USA.

UF *nerva nrx-a5 reactor*

\*BT1 experimental reactors

\*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

**NRX-A6 REACTOR**

LASL, Los Alamos, New Mexico, USA.

UF *nerva nrx-a6 reactor*

\*BT1 experimental reactors

\*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

**NRX-A7 REACTOR**

2000-04-12

LASL, Los Alamos, New Mexico, USA.

UF *nerva nrx-a7 reactor*

\*BT1 experimental reactors

\*BT1 space propulsion reactors

RT hydrogen cooled reactors

**NRX REACTOR**

AECL, Chalk River Nuclear Labs., Ontario, Canada.

UF *canada nrx research reactor*

\*BT1 heavy water cooled reactors

\*BT1 heavy water moderated reactors

\*BT1 isotope production reactors

\*BT1 materials testing reactors

\*BT1 natural uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

**ns arktika**

INIS: 1984-08-27; ETDE: 1994-08-10

(Prior to the name change in November 1982 this was a valid descriptor, and older material is so indexed.)

USE ns leonid brezhnev

**NS ENRICO FERMI**

2000-04-12

\*BT1 nuclear ships

**NS LENIN**

UF *lenin (nuclear ship)*

\*BT1 nuclear ships

RT lenin reactor

**NS LEONID BREZHNEV**

INIS: 1984-08-27; ETDE: 1994-08-10

(Prior to November 1982 known as NS ARKTIKA.)

UF *arktika (nuclear ship)*

UF *leonid brezhnev (nuclear ship)*

UF *ns arktika*

\*BT1 nuclear ships

RT leonid brezhnev reactor

**NS MUTSU**

UF *mutsu (nuclear ship)*

\*BT1 nuclear merchant ships

RT mutsu reactor

**NS OTTO HAHN**

UF *otto hahn (nuclear ship)*

\*BT1 nuclear merchant ships

RT otto hahn reactor

**NS SAVANNAH**

UF *savannah (nuclear ship)*

\*BT1 nuclear merchant ships

RT savannah reactor

**NS SIBIR**

INIS: 1985-09-09; ETDE: 1985-10-10

UF *sibir (nuclear ship)*

\*BT1 nuclear ships

RT sibir reactor

**NSCR REACTOR**

Texas A and M Univ., College Station, Texas, USA.

UF *college station texas training reactor*

UF *nuclear science center reactor texas*

UF *texas college station training reactor*

\*BT1 pool type reactors

\*BT1 training reactors

\*BT1 triga type reactors

**NSF-RFP REACTOR**

Rockwell International, Rocky Flats Plant, Golden, Colorado, USA.

UF *nuclear safety facility-rfp reactor*

UF *rocky flats plant nuclear safety facility*

\*BT1 zero power reactors

**NSLS**

INIS: 1979-09-18; ETDE: 1979-04-11

UF *national synchrotron light source*

\*BT1 synchrotron radiation sources

RT light sources

RT synchrotrons

RT x-ray sources

**nspp**

USE nuclear safety pilot plant

**NSRR REACTOR**

JAERI, Tokai, Ibaraki, Japan.

UF *nuclear safety research reactor (japan)*

\*BT1 enriched uranium reactors

\*BT1 hydride moderated reactors

\*BT1 mixed spectrum reactors

\*BT1 pulsed reactors

\*BT1 research reactors

\*BT1 solid homogeneous reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**NSTX DEVICE**

INIS: 1999-07-26; ETDE: 1999-09-03

National Spherical Torus Experiment, Princeton Plasma Physics Laboratory, USA.

\*BT1 spheromak devices

**NTA**

UF *nitrilotriacetic acid*

\*BT1 amino acids

BT1 chelating agents

**NTR REACTOR**

General Electric Company, Vallecitos Nuclear Center, Pleasanton, California, USA.

UF *general electric nuclear test reactor*

UF *nuclear test reactor general electric company*

UF *pleasanton usa ntr reactor*

\*BT1 enriched uranium reactors

\*BT1 graphite moderated reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**NTU PROCESS**

2000-04-12

*Air is admitted at top of retort, supporting combustion which moves downward through oil shale bed. When fire front reaches bottom, operation is halted; spent shale is dumped. A batch process, it is not suitable for retorting on commercial basis.*

RT oil shales

RT retorting

**nuclear accidents**

SEE radiation accidents

SEE reactor accidents

**nuclear acoustic resonance**

USE acoustic nmr

**NUCLEAR ALIGNMENT**

RT oriented nuclei

RT spin orientation

**nuclear and radiation safety federal authority of russia**

1997-08-08

USE gosatomnadzor rossii

**nuclear attacks**

USE nuclear weapons

**NUCLEAR CASCADES**

UF *cascaes (nuclear)*

UF *intranuclear cascades*

BT1 energy-level transitions

NT1 gamma cascades

RT energy levels

**nuclear charge**

USE atomic number

**NUCLEAR CHEMISTRY**

1999-05-04

*Study of nuclei and nuclear reactions using chemical methods.*

(Prior to March 1986 RADIOCHEMISTRY was used for this concept.)

BT1 chemistry

RT nuclear physics

RT radiochemistry

**nuclear contestation**

USE public relations

**nuclear controversy**

*This concept has also been indexed by the combination HAZARDS + HUMAN*

*POPULATIONS.*

(Prior to January 1983 PUBLIC RELATIONS was used for this concept.)

USE nuclear power

USE public opinion

**NUCLEAR CORES**

UF *core polarization (nuclei)*

UF *cores (nuclear)*

RT nuclear structure

**NUCLEAR DAMAGE**

INIS: 1976-12-08; ETDE: 1989-11-03

*All physical or material damage caused by a nuclear incident, i.e. resulting from the radioactive or other hazardous properties of nuclear materials.*

UF *damage (nuclear)*

RT accidents

RT damage

RT vcoclnd

**nuclear damage, conv. on  
supplementary compensation for  
2000-10-18**

USE cscnd

**nuclear damage, vienna civil liability  
convention**

INIS: 1984-06-21; ETDE: 2002-04-17

USE vcoclnd

**NUCLEAR DATA COLLECTIONS**

Use only for items about nuclear data collections, not for items which contain nuclear data.

UF endf

UF evaluated nuclear data file

RT cinda

RT compiled data

RT data base management

RT data compilation

RT evaluated data

RT information systems

RT international nuclear data committee

RT libraries

RT us nuclear data network

**NUCLEAR DECAY**

INIS: 1978-02-23; ETDE: 1988-10-12

BT1 decay

NT1 alpha decay

NT1 beta decay

NT2 beta-minus decay

NT3 double beta decay

NT2 beta-plus decay

NT2 electron capture decay

NT3 k capture

NT3 l capture

NT3 m capture

NT1 gamma decay

NT1 heavy ion emission decay

NT2 carbon 12 emission decay

NT2 carbon 14 emission decay

NT2 carbon 16 emission decay

NT2 magnesium 28 emission decay

NT2 magnesium 30 emission decay

NT2 neon 24 emission decay

NT2 oxygen 16 emission decay

NT2 silicon 32 emission decay

NT2 silicon 34 emission decay

NT1 internal conversion

NT2 k conversion

NT2 l conversion

NT2 m conversion

NT1 proton-emission decay

NT1 spontaneous fission

**NUCLEAR DEFORMATION**

For the deformation in the excited state of nuclei which are not deformed in the ground state.

BT1 deformation

RT deformed nuclei

**nuclear density**

INIS: 1984-04-04; ETDE: 2002-04-17

Coordinate descriptor below with NEUTRON DENSITY and/or PROTON DENSITY.

USE nuclear matter

**NUCLEAR DETERRENCE**

INIS: 1994-09-29; ETDE: 1984-05-08

Nuclear adversaries overbuilding both warheads and delivery capacity, with a standoff ensuing because of the retaliatory potential of the opponent deterring the would-be aggressor.

RT national security

RT nuclear weapons

RT proliferation

**NUCLEAR DISARMAMENT**

INIS: 1998-06-10; ETDE: 1980-07-23

SF disarmament

RT arms control

RT ctbt

RT ctbto

RT nuclear freeze

RT nuclear weapons

RT nuclear weapons dismantlement

RT safeguards

RT salt talks

**NUCLEAR ELECTRIC MOMENTS**

UF nuclear moments (electric)

BT1 electric moments

BT1 nuclear properties

RT electric dipole moments

RT nuclear quadrupole resonance

RT perturbed angular correlation

RT quadrupole moments

**NUCLEAR EMULSIONS**

RT autoradiography

RT images

RT latent images

RT photographic film detectors

RT photographic film dosimeters

RT photographic films

RT radiator counters

**NUCLEAR ENERGY**

Use only in the general sense, such as for energy production or the comparison of different sources of energy.

UF atomic energy

BT1 energy

RT nuclear power plants

**nuclear energy agency**

2000-04-12

USE nea

**nuclear energy agency (oecl)**

INIS: 1977-04-07; ETDE: 2002-04-17

USE nea

**NUCLEAR ENGINEERING**

BT1 engineering

RT nuclear industry

RT reactor technology

RT reactors

RT technology transfer

**nuclear engineering test reactor**

2000-04-12

USE netr reactor

**nuclear evaporation**

USE evaporation model

**NUCLEAR EXCAVATION**

BT1 excavation

RT cratering explosions

RT nuclear explosions

RT plowshare project

RT surface explosions

RT underground explosions

RT underwater explosions

**NUCLEAR EXPLOSION**

**DETECTION**

1998-06-10

UF detection (nuclear explosions)

BT1 detection

RT atmospheric explosions

RT ctbt

RT in-country detection

RT nuclear explosions

RT seismic detection

RT underground explosions

**NUCLEAR EXPLOSIONS**

1998-06-10

Specifically named single nuclear explosions are listed by name and the word EVENT, e.g., BOXCAR EVENT. All projects involving nuclear explosions are listed by the project name and the word PROJECT, e.g.,

PLOWSHARE PROJECT.

UF agrini event

UF almendro event

UF annie event

UF argus event

UF atomic explosions

UF baneberry event

UF benham event

UF bowline operation

UF boxcar event

UF bronco event

UF buffalo project

UF cabriolet event

UF calabash event

UF camikin event

UF carpetbag event

UF damy boy event

UF dining car event

UF emery operation

UF events (nuclear explosions)

UF faultless event

UF flintlock operation

UF fulcrum operation

UF fusileer operation

UF greeley event

UF halfbeak event

UF handcar event

UF handley event

UF harry event

UF holly event

UF husky ace event

UF hutch event

UF ivy project

UF jangle project

UF jorum event

UF latir event

UF marvel event

UF mighty epic event

UF milrow event

UF miniata event

UF monique event

UF nuclear weapon tests

UF orange event

UF pin stripe event

UF pokhran event

UF portmanteau event

UF project buffalo

UF project ivy

UF project jangle

UF redmud event

UF romeo event

UF rulison event

UF scotch event

UF smoky event

UF starfish event

UF swordfish event

UF teak event

UF tewa event

UF tybo event

UF wagon wheel event

UF yankee event

UF zuni event

BT1 explosions

NT1 anvil project

NT1 arbor project

NT1 bedrock project

NT1 castle project

NT1 crossroads project

NT1 crosstie operation

NT2 gasbuggy event

NT1 dominic project

NT1 greenhouse project

**NT1** grommet operation  
**NT1** hardtack project  
**NT1** latchkey operation  
**NT1** mandrel operation  
**NT1** nougat operation  
**NT1** plumbbob project  
**NT1** praetorian project  
**NT1** ranger project  
**NT1** sandstone project  
**NT1** sun beam operation  
**NT1** thermonuclear explosions  
**NT1** toggle operation  
**NT2** rio blanco event  
**NT1** trinity event  
**NT1** whetstone operation  
*RT* aleutian islands  
*RT* artificial radiation belts  
*RT* atmospheric explosions  
*RT* azgir test site  
*RT* cavities  
*RT* civil defense  
*RT* contained explosions  
*RT* cratering explosions  
*RT* ctb  
*RT* ctbt  
*RT* electromagnetic pulses  
*RT* excavation  
*RT* explosive fracturing  
*RT* explosive stimulation  
*RT* fallout  
*RT* fission  
*RT* fission products  
*RT* global fallout  
*RT* ground motion  
*RT* hiroshima  
*RT* in-country detection  
*RT* little boy  
*RT* marshall islands  
*RT* nagasaki  
*RT* nevada test site  
*RT* novaya zemlya  
*RT* nuclear excavation  
*RT* nuclear explosion detection  
*RT* nuclear fireballs  
*RT* nuclear test sites  
*RT* nuclear weapons  
*RT* nuclear winter  
*RT* plowshare project  
*RT* radioactive clouds  
*RT* redwing project  
*RT* seismic effects  
*RT* seismic events  
*RT* semipalatinsk test site  
*RT* shelters  
*RT* shock waves  
*RT* surface explosions  
*RT* thunderbird project  
*RT* underground explosions  
*RT* underwater explosions  
*RT* upshot project  
*RT* vela project

## NUCLEAR EXPLOSIVES

**BT1** explosives

## NUCLEAR FACILITIES

1996-07-18

(From August 1976 till March 1997

HUMECA URANIUM MILL was a valid ETDE descriptor.)

*UF* facilities (nuclear)

*UF* humeca uranium mill

*UF* installation sites

*UF* nuclear installation sites

*UF* sites (nuclear installations)

**NT1** feed materials plants

**NT2** feed materials production center

**NT2** west valley uf6 facility

**NT1** fuel cycle centers

**NT1** fuel fabrication plants

**NT2** cimarron plutonium production plant  
**NT2** cimarron uranium fuel plant  
**NT2** Exxon fuel fabrication facility  
**NT2** mixed oxide fuel fabrication plants  
**NT2** westinghouse recycle fuels plant  
**NT1** fuel reprocessing plants  
**NT2** barnwell fuel processing plant  
**NT2** cea la hague  
**NT2** cogema la hague  
**NT2** hef  
**NT2** idaho chemical processing plant  
**NT2** midwest fuel recovery plant  
**NT2** nuclear fuel recovery and recycling center  
**NT2** rokkasho reprocessing plant  
**NT2** sellafeld reprocessing plant  
**NT2** tokai reprocessing plant  
**NT2** wackersdorf reprocessing plant  
**NT2** wak  
**NT2** west valley processing plant  
**NT2** westinghouse recycle fuels plant  
**NT1** hot labs  
**NT1** irradiation plants  
**NT2** isomed  
**NT1** isotope separation plants  
**NT2** centrifuge enrichment plants  
**NT3** portsmouth centrifuge enrichment plant  
**NT2** gaseous diffusion plants  
**NT3** cogema pierrelatte  
**NT3** orgdp  
**NT3** paducah plant  
**NT3** portsmouth gaseous diffusion plant  
**NT2** heavy water plants  
**NT2** tritium extraction plants  
**NT1** kyshtym plant  
**NT1** mayak plant  
**NT1** nuclear power plants  
**NT2** bopssar standard plant  
**NT2** ebasco standard plant  
**NT2** gibbsar standard plant  
**NT2** offshore nuclear power plants  
**NT2** swessar standard plant  
**NT2** underground nuclear stations  
**NT1** radioactive waste facilities  
**NT2** asse salt mine  
**NT2** aube plant  
**NT2** bohunice radioactive waste processing center  
**NT2** gorleben salt dome  
**NT2** hades underground research facility  
**NT2** konrad ore mine  
**NT2** manche plant  
**NT2** mochove radioactive waste repository  
**NT2** morsleben salt mine  
**NT2** pamela plant  
**NT2** vaalputs radioactive waste disposal facility  
**NT2** wipp  
**NT1** surplus nuclear facilities  
*RT* biointrusion  
*RT* controlled areas  
*RT* distributed structures  
*RT* energy facilities  
*RT* external zones  
*RT* human intrusion  
*RT* laboratories  
*RT* maintenance facilities  
*RT* nuclear parks  
*RT* public anxiety  
*RT* site approvals  
*RT* storage facilities  
*RT* test facilities  
*RT* underground facilities

## nuclear ferromagnetism

*INIS: 1985-03-19; ETDE: 2002-04-17*

*Ordering of nuclear spins occurring when the temperature is lowered to the microkelvin region.*

*USE* ferromagnetism

*USE* nuclear magnetism

## NUCLEAR FIREBALL MODEL

*INIS: 1978-09-28; ETDE: 1978-10-19*

*A nuclear reaction model for the total disintegration of the two nuclei in relativistic heavy ion reactions.*

*UF* firestreak model

**\*BT1** nuclear models

*RT* evaporation model

*RT* heavy ion reactions

*RT* inclusive interactions

*RT* quasi-fission

*RT* spallation

## NUCLEAR FIREBALLS

1975-08-22

*UF* fireballs (nuclear)

*SF* fireballs

*RT* nuclear explosions

## NUCLEAR FORCES

**NT1** wigner force

*RT* binding energy

*RT* mass defect

*RT* nuclear potential

*RT* potentials

*RT* tensor forces

## NUCLEAR FRAGMENTATION

*INIS: 1995-09-08; ETDE: 1989-06-23*

*(Until January 1986, this was a forbidden term and this concept was indexed by SPALLATION.)*

**BT1** nuclear reactions

*RT* deep inelastic heavy ion reactions

*RT* fission

*RT* incomplete fusion reactions

*RT* nuclear fragments

*RT* spallation

## NUCLEAR FRAGMENTS

*INIS: 1978-11-24; ETDE: 1977-09-19*

*Nuclear reaction products.*

*UF* fragments (nuclear)

**NT1** anomalous

**NT1** fission fragments

**NT1** hypernuclei

**NT1** spallation fragments

*RT* fission

*RT* nuclear fragmentation

*RT* nuclear reaction yield

*RT* spallation

## NUCLEAR FREEZE

*INIS: 1998-06-10; ETDE: 1987-07-22*

*A mutual freeze on the testing, production, and deployment of nuclear weapons and of missiles and new aircraft designed primarily to deliver nuclear weapons.*

*RT* arms control

*RT* ctbt

*RT* ctbto

*RT* international agreements

*RT* nuclear disarmament

## nuclear fuel centers

*INIS: 1979-02-21; ETDE: 2002-04-17*

*USE* fuel cycle centers

## NUCLEAR FUEL CONVERSION

*Conversion of a fertile substance into a fissile substance.*

*UF* conversion (nuclear fuel)

**NT1** breeding

RT conversion ratio  
RT fertile materials

**nuclear fuel elements**

USE fuel elements

**NUCLEAR FUEL RECOVERY AND RECYCLING CENTER**

INIS: 1990-12-15; ETDE: 1976-09-14  
EXXON NUCLEAR FACILITY ROANE COUNTY, Tennessee, USA.

(Prior to December 1990, this concept was indexed by EXXON RECOVERY AND RECYCLE PLA.)

UF exxon recovery and recycle plant  
SF exxon nuclear facility  
\*BT1 fuel reprocessing plants  
RT tennessee

**NUCLEAR FUELS**

UF fuels (nuclear)  
UF reactor fuels  
UF reactor fuels (fission)  
BT1 energy sources  
BT1 fuels  
\*BT1 reactor materials  
NT1 alloy nuclear fuels  
NT2 uranium-molybdenum fuels  
NT1 denatured fuel  
NT1 dispersion nuclear fuels  
NT1 fuel solutions  
NT1 liquid metal fuels  
NT1 mixed carbide fuels  
NT1 mixed nitride fuels  
NT1 mixed oxide fuels  
NT1 molten salt fuels  
NT1 spent fuels  
RT accelerator breeders  
RT burnup  
RT fertile materials  
RT fissile materials  
RT fissium  
RT fuel-cladding interactions  
RT fuel-coolant interactions  
RT fuel cycle  
RT fuel densification  
RT fuel elements  
RT fuel integrity  
RT fuel particles  
RT fuel pellets  
RT fuel washers  
RT gas fuels  
RT non-proliferation policy  
RT nuclear materials management  
RT plutonium  
RT reactors  
RT thorium cycle  
RT uranium

**NUCLEAR FURNACE REACTOR**

LASL, Los Alamos, New Mexico, USA.

\*BT1 beryllium moderated reactors  
\*BT1 enriched uranium reactors  
\*BT1 research and test reactors  
\*BT1 tank type reactors  
\*BT1 water moderated reactors

**NUCLEAR HALOS**

1995-07-06

UF halo states  
UF neutron halos  
UF proton halos  
RT nuclear potential  
RT nuclear structure

**NUCLEAR INDUSTRY**

BT1 industry  
RT construction  
RT fuel fabrication plants  
RT fuel reprocessing plants  
RT gaseous diffusion plants

RT nuclear engineering  
RT nuclear parks  
RT usur

**nuclear installation sites**

INIS: 1976-12-08; ETDE: 2002-04-17

If appropriate use one of the specific types of facilities.

USE nuclear facilities

**nuclear installations inspectorate**

INIS: 1993-11-09; ETDE: 2002-04-17

USE uk nii

**NUCLEAR INSTRUMENT MODULES**

Standard instrumentation modules designed to be interchangeable physically and electrically.

UF aec-nim  
UF nim  
RT camac system  
RT computers  
RT data acquisition systems  
RT data transmission  
RT electronic equipment  
RT fastbus system  
RT modular structures  
RT on-line control systems

**NUCLEAR INSURANCE**

BT1 insurance  
RT price-anderson act

**NUCLEAR LIABILITY**

INIS: 1976-12-08; ETDE: 1991-08-20

The special liability regime, for nuclear damage, of the operators of nuclear installations.

BT1 liabilities  
RT cscnd  
RT liability exclusions  
RT liability limitations  
RT nuclear operators  
RT pcotpl  
RT price-anderson act  
RT time limitations  
RT vcoclnd

**nuclear log**

INIS: 2000-04-12; ETDE: 1976-06-07

USE radioactivity logging

**NUCLEAR MAGNETIC LOGGING**

INIS: 1978-04-21; ETDE: 1976-06-07

UF nmr logging  
BT1 well logging

**NUCLEAR MAGNETIC MOMENTS**

UF nuclear moments (magnetic)  
BT1 magnetic moments  
BT1 nuclear properties  
RT magnetic dipole moments  
RT nuclear magnetism  
RT perturbed angular correlation  
RT quadrupole moments  
RT schmidt lines

**NUCLEAR MAGNETIC RESONANCE**

UF nmr  
UF nuclear spin resonance  
UF paramagnetic resonance (nuclear)  
\*BT1 magnetic resonance  
NT1 acoustic nmr  
NT1 td-nmr  
RT chemical shift  
RT contrast media  
RT double resonance methods  
RT knight shift  
RT level mixing resonance  
RT nmr imaging  
RT nmr spectra

RT nuclear magnetism  
RT overhauser effect  
RT spin echo  
RT spin-lattice relaxation  
RT spin-spin relaxation  
RT structural chemical analysis

**nuclear magnetic resonance spectra**

INIS: 1993-11-09; ETDE: 2002-04-17

USE nmr spectra

**NUCLEAR MAGNETISM**

INIS: 1985-03-19; ETDE: 1990-11-20

Refers to ordering of nuclear spins at extremely low temperatures.

UF nuclear ferromagnetism  
BT1 magnetism  
RT nuclear magnetic moments  
RT nuclear magnetic resonance  
RT spin orientation

**nuclear mater, agencia brasil-argentina contabil controle**

INIS: 1999-06-22; ETDE: 2002-04-17

USE abacc

**nuclear materials, convention on physical protection**

INIS: 1993-11-09; ETDE: 2002-04-17

USE cppnm

**NUCLEAR MATERIALS DIVERSION**

RT civex process  
RT cppnm  
RT detection  
RT motion detection systems  
RT non-proliferation policy  
RT safeguards  
RT security personnel

**NUCLEAR MATERIALS MANAGEMENT**

UF accountability (nuclear materials)  
UF dymac system  
UF dynamic materials accountability system  
UF fissionable materials management  
SF accountability  
BT1 management  
NT1 fuel management  
RT accounting  
RT cost  
RT cppnm  
RT detection  
RT fissile materials  
RT fissionable materials  
RT fuel cycle  
RT harvest process  
RT identification systems  
RT intrusion detection systems  
RT losses  
RT material unaccounted for  
RT nuclear fuels  
RT nuclear materials possession  
RT nuclear weapons dismantlement  
RT radioactive wastes  
RT reprocessing  
RT safeguards

**NUCLEAR MATERIALS POSSESSION**

INIS: 1977-04-07; ETDE: 1977-06-03

UF possession (nuclear materials)  
RT non-proliferation treaty  
RT nuclear materials management  
RT nuclear trade  
RT proliferation  
RT safeguard regulations  
RT safeguards

**NUCLEAR MATRIX**

BT1 matrices

**NUCLEAR MATTER**

UF neutron matter  
 UF nuclear density  
 UF nuclear matter density  
 BT1 matter  
 RT centauro-type events  
 RT neutron stars  
 RT nuclei  
 RT pion condensation  
 RT quark matter  
 RT walecka model

**nuclear matter density**

INIS: 1984-04-04; ETDE: 2002-04-17  
 Coordinate descriptor below with NEUTRON DENSITY and/or PROTON DENSITY.  
 USE nuclear matter

**NUCLEAR MEDICINE**

UF radiodiagnosis (radionuclides)  
 BT1 medicine  
 NT1 radiology  
 NT2 biomedical radiography  
 NT3 fluoroscopy  
 NT3 ionographic imaging  
 NT3 osteodensitometry  
 NT3 renography  
 NT2 radiotherapy  
 NT3 afterloading  
 NT3 brachytherapy  
 NT3 neutron therapy  
 NT4 neutron capture therapy  
 NT3 radioimmunotherapy  
 RT clearance  
 RT diagnosis  
 RT diagnostic techniques  
 RT gamma cameras  
 RT labelled compounds  
 RT positron cameras  
 RT radioisotope scanning  
 RT radioisotopes  
 RT radiopharmaceuticals  
 RT scintiscanning  
 RT tracer techniques

**NUCLEAR MERCHANT SHIPS**

INIS: 1976-11-17; ETDE: 1978-05-01  
 UF commercial nuclear ships  
 \*BT1 nuclear ships  
 NT1 ns mutsu  
 NT1 ns otto hahn  
 NT1 ns savannah

**NUCLEAR MODELS**

1996-01-24  
 UF models (nuclear)  
 BT1 mathematical models  
 NT1 black nucleus model  
 NT1 brueckner model  
 NT1 cloudy crystal ball model  
 NT1 cluster model  
 NT1 coherent tube model  
 NT1 collective model  
 NT2 rotation-vibration model  
 NT1 cranking model  
 NT1 davydov-filipov model  
 NT1 droplet model  
 NT1 elliot model  
 NT1 evaporation model  
 NT2 weisskopf model  
 NT1 exciton model  
 NT1 fermi gas model  
 NT1 folding model  
 NT1 goldberger model  
 NT1 lane-thomas-wigner model  
 NT1 liquid drop model  
 NT1 nilsson-mottelson model

NT1 nuclear fireball model  
 NT1 order-disorder model  
 NT1 particle-core coupling model  
 NT1 particle-hole model  
 NT1 perey-buck model  
 NT1 quartet model  
 NT1 quasiparticle-phonon model  
 NT1 scission-point model  
 NT1 shell models  
 NT2 governor model  
 NT2 interacting boson model  
 NT2 multi-center shell model  
 NT1 single-particle model  
 NT1 spherical model  
 NT1 strong-absorption model  
 NT1 superfluid model  
 NT1 unified model  
 NT1 valency model  
 NT1 vibron model  
 NT1 vmi model  
 NT1 walecka model  
 NT1 weak-coupling model  
 RT bohr-wheeler theory  
 RT brueckner method  
 RT compound nuclei  
 RT deformed nuclei  
 RT hamada-johnston potential  
 RT harmonic oscillator models  
 RT hartree-fock-bogolyubov theory  
 RT hartree-fock method  
 RT hill-wheeler theory  
 RT hurwitz effect  
 RT hydrodynamic model  
 RT kisslinger-sorensen theory  
 RT nuclear radii  
 RT nuclear structure  
 RT nucleon-nucleon potential  
 RT optical models  
 RT strutinsky theory  
 RT thomas-fermi model

**NUCLEAR MOLECULES**

RT interactions  
 RT nuclei

**nuclear moments (electric)**

INIS: 1984-04-04; ETDE: 2002-04-17  
 USE nuclear electric moments

**nuclear moments (magnetic)**

INIS: 1984-04-04; ETDE: 2002-04-17  
 USE nuclear magnetic moments

**NUCLEAR OPERATORS**

INIS: 1976-12-08; ETDE: 1991-08-20  
 The financially responsible organizations or persons.  
 UF operators (nuclear facilities)  
 RT national organizations  
 RT notification procedures  
 RT nuclear liability  
 RT wano

**NUCLEAR PARKS**

A facility containing a nuclear power plant plus on-site support industries such as fuel fabrication plants, reprocessing plants, etc.  
 UF parks (nuclear)  
 BT1 energy parks  
 RT fuel fabrication plants  
 RT fuel reprocessing plants  
 RT nuclear facilities  
 RT nuclear industry  
 RT nuclear power plants

**NUCLEAR PHYSICS**

Use only for indexing articles of very broad coverage, such as annual reviews, text books, etc.  
 BT1 physics  
 RT high energy physics

RT nuclear chemistry  
 RT nuclear theory

**nuclear physics research institute amsterdam**

INIS: 1993-11-09; ETDE: 2002-04-17  
 USE iko

**NUCLEAR POISONS**

Neutron absorbers in a reactor.  
 UF poisons (nuclear)  
 \*BT1 reactor materials  
 NT1 burnable poisons  
 NT1 fission poisons  
 NT1 soluble poisons  
 RT poisoning  
 RT reactor poison removal  
 RT samarium oscillations  
 RT xenon oscillations

**NUCLEAR POTENTIAL**

1996-07-08  
 BT1 potentials  
 NT1 fission barrier  
 NT1 hard-core potential  
 NT1 harmonic potential  
 NT1 hulthen potential  
 NT1 soft-core potential  
 NT1 square-well potential  
 NT1 woods-saxon potential  
 NT1 yukawa potential  
 RT gamow barrier  
 RT hamada-johnston potential  
 RT nonlocal potential  
 RT nuclear forces  
 RT nuclear halos  
 RT optical models  
 RT tabakin potential  
 RT wigner-eisenbud theory

**NUCLEAR POWER**

UF nuclear controversy  
 BT1 power  
 NT1 residual power  
 RT electric power  
 RT electric power industry  
 RT nuclear power phaseout  
 RT off-peak power  
 RT power generation

**nuclear power demonstration reactor-2 canada**

2000-04-12  
 USE npd reactor

**nuclear power demonstration reactor canada**

1993-11-09  
 USE npd reactor

**NUCLEAR POWER PHASEOUT**

INIS: 1982-12-03; ETDE: 1978-10-25  
 Policy scenario wherein plants now operating or under construction are allowed normal-life operation, but no additional plants are allowed.  
 RT energy policy  
 RT government policies  
 RT nuclear power

**nuclear power plant research institute**

2002-12-17  
 USE vuje

**NUCLEAR POWER PLANTS**

1997-06-17  
 UF nuclear power stations  
 BT1 nuclear facilities  
 \*BT1 thermal power plants



**NT1** bopssar standard plant  
**NT1** ebasco standard plant  
**NT1** gibbsar standard plant  
**NT1** offshore nuclear power plants  
**NT1** swessar standard plant  
**NT1** underground nuclear stations  
*RT* nuclear energy  
*RT* nuclear parks  
*RT* power reactors  
*RT* risk assessment  
*RT* thermonuclear power plants

**nuclear power stations**

*USE* nuclear power plants

**NUCLEAR PROPERTIES**

**NT1** nuclear electric moments  
**NT1** nuclear magnetic moments  
**NT1** nuclear radii  
*RT* limiting values  
*RT* nuclear structure

**nuclear-pumped lasers**

*INIS: 1984-04-04; ETDE: 2002-04-17*

*Coordinate descriptor below with appropriate descriptor from word block for LASERS.*

*USE* nuclear pumping

**NUCLEAR PUMPING**

*Laser-like pumping in nuclei, produced by electrons or, in general, by beams of charged particles.*

*UF* nuclear-pumped lasers  
*UF* pumping (nuclear)  
**BT1** pumping  
*RT* electrical pumping  
*RT* gasers  
*RT* lasers  
*RT* optical pumping  
*RT* stimulated emission

**NUCLEAR QUADRUPOLE****RESONANCE**

**BT1** resonance  
*RT* electric fields  
*RT* level mixing resonance  
*RT* nuclear electric moments  
*RT* quadrupole moments

**NUCLEAR RADII**

*UF* charge radius (nuclear)  
*UF* mass radius (nuclear)  
**BT1** nuclear properties  
*RT* charge distribution  
*RT* nuclear models  
*RT* nuclear structure  
*RT* particle radii

**NUCLEAR REACTION ANALYSIS**

*1999-05-04*

*Chemical analysis based on detection and analysis of prompt nuclear reaction products, e.g., gamma rays, neutrons, or charged particles.*

*UF* analysis (nuclear reaction)  
*UF* nra  
*UF* pige analysis  
**\*BT1** nondestructive analysis  
**NT1** delayed neutron analysis  
*RT* activation analysis  
*RT* nuclear reaction analyzers

**NUCLEAR REACTION ANALYZERS**

*INIS: 1986-01-21; ETDE: 1979-01-30*

**BT1** measuring instruments  
*RT* delayed neutron analysis  
*RT* fuel scanning  
*RT* neutron activation analyzers  
*RT* nuclear reaction analysis

**NUCLEAR REACTION KINETICS**

**\*BT1** reaction kinetics

*RT* coupled channel born approximation  
*RT* distorted wave theory  
*RT* dwba  
*RT* finite-range interactions  
*RT* nuclear reactions  
*RT* q-value  
*RT* rescattering  
*RT* resonating-group method  
*RT* spin flip  
*RT* zero-range approximation

**NUCLEAR REACTION YIELD**

*UF* yield (nuclear reaction)  
**BT1** yields  
**NT1** fission yield  
**NT1** fusion yield  
*RT* nuclear fragments  
*RT* nuclear reactions

**NUCLEAR REACTIONS**

*1995-05-09*

**NT1** antineutrino reactions  
**NT1** breakup reactions  
**NT1** charge-exchange reactions  
**NT1** charged-particle reactions  
**NT2** alpha reactions  
**NT2** deuteron reactions  
**NT3** antideuteron reactions  
**NT2** electron reactions  
**NT3** electrofission  
**NT2** helium 3 reactions  
**NT2** meson reactions  
**NT3** kaon reactions  
**NT4** kaon minus reactions  
**NT4** kaon neutral reactions  
**NT4** kaon plus reactions  
**NT3** pion reactions  
**NT4** pion minus reactions  
**NT4** pion plus reactions  
**NT2** muon reactions  
**NT2** proton reactions  
**NT2** triton reactions  
**NT1** cold fusion  
**NT1** compound-nucleus reactions  
**NT1** direct reactions  
**NT2** knock-on reactions  
**NT2** knock-out reactions  
**NT2** quasi-free reactions  
**NT3** quasi-elastic scattering  
**NT2** transfer reactions  
**NT3** multi-nucleon transfer reactions  
**NT4** four-nucleon transfer reactions  
**NT5** alpha-transfer reactions  
**NT4** many-nucleon transfer reactions  
**NT4** three-nucleon transfer reactions  
**NT4** two-nucleon transfer reactions  
**NT3** one-nucleon transfer reactions  
**NT3** pickup reactions  
**NT3** stripping  
**NT1** fission  
**NT2** binary fission  
**NT2** cold fission  
**NT2** electrofission  
**NT2** fast fission  
**NT2** photofission  
**NT2** quaternary fission  
**NT2** spontaneous fission  
**NT2** ternary fission  
**NT2** thermal fission  
**NT1** hadron reactions  
**NT2** baryon reactions  
**NT3** hyperon reactions  
**NT3** nucleon reactions  
**NT4** antinucleon reactions  
**NT5** antineutron reactions  
**NT5** antiproton reactions  
**NT4** neutron reactions  
**NT5** fast fission  
**NT5** thermal fission  
**NT4** proton reactions

**NT2** meson reactions  
**NT3** kaon reactions  
**NT4** kaon minus reactions  
**NT4** kaon neutral reactions  
**NT4** kaon plus reactions  
**NT3** pion reactions  
**NT4** pion minus reactions  
**NT4** pion plus reactions  
**NT1** heavy ion reactions  
**NT2** aluminium 27 reactions  
**NT2** argon 36 reactions  
**NT2** argon 40 reactions  
**NT2** beryllium 11 reactions  
**NT2** beryllium 7 reactions  
**NT2** beryllium 8 reactions  
**NT2** beryllium 9 reactions  
**NT2** bismuth 209 reactions  
**NT2** boron 10 reactions  
**NT2** boron 11 reactions  
**NT2** boron 8 reactions  
**NT2** bromine 79 reactions  
**NT2** bromine 81 reactions  
**NT2** calcium 40 reactions  
**NT2** calcium 42 reactions  
**NT2** calcium 44 reactions  
**NT2** calcium 48 reactions  
**NT2** carbon 12 reactions  
**NT2** carbon 13 reactions  
**NT2** carbon 14 reactions  
**NT2** chlorine 35 reactions  
**NT2** chlorine 37 reactions  
**NT2** chromium 52 reactions  
**NT2** chromium 54 reactions  
**NT2** cobalt 59 reactions  
**NT2** copper 63 reactions  
**NT2** copper 65 reactions  
**NT2** deep inelastic heavy ion reactions  
**NT2** dysprosium 161 reactions  
**NT2** erbium 166 reactions  
**NT2** fluorine 19 reactions  
**NT2** gadolinium 155 reactions  
**NT2** germanium 70 reactions  
**NT2** germanium 74 reactions  
**NT2** germanium 76 reactions  
**NT2** gold 197 reactions  
**NT2** heavy ion fusion reactions  
**NT2** helium 6 reactions  
**NT2** helium 8 reactions  
**NT2** holmium 165 reactions  
**NT2** incomplete fusion reactions  
**NT2** iodine 127 reactions  
**NT2** iron 54 reactions  
**NT2** iron 56 reactions  
**NT2** iron 58 reactions  
**NT2** krypton 80 reactions  
**NT2** krypton 82 reactions  
**NT2** krypton 83 reactions  
**NT2** krypton 84 reactions  
**NT2** krypton 86 reactions  
**NT2** lanthanum 139 reactions  
**NT2** lead 206 reactions  
**NT2** lead 208 reactions  
**NT2** lithium 11 reactions  
**NT2** lithium 6 reactions  
**NT2** lithium 7 reactions  
**NT2** lithium 8 reactions  
**NT2** lithium 9 reactions  
**NT2** magnesium 24 reactions  
**NT2** magnesium 25 reactions  
**NT2** magnesium 26 reactions  
**NT2** manganese 55 reactions  
**NT2** molybdenum 100 reactions  
**NT2** molybdenum 92 reactions  
**NT2** molybdenum 96 reactions  
**NT2** molybdenum 98 reactions  
**NT2** neodymium 142 reactions  
**NT2** neodymium 150 reactions  
**NT2** neon 20 reactions  
**NT2** neon 22 reactions

- NT2** neon 29 reactions  
**NT2** nickel 58 reactions  
**NT2** nickel 59 reactions  
**NT2** nickel 60 reactions  
**NT2** nickel 61 reactions  
**NT2** nickel 62 reactions  
**NT2** nickel 64 reactions  
**NT2** niobium 93 reactions  
**NT2** nitrogen 13 reactions  
**NT2** nitrogen 14 reactions  
**NT2** nitrogen 15 reactions  
**NT2** oxygen 14 reactions  
**NT2** oxygen 16 reactions  
**NT2** oxygen 17 reactions  
**NT2** oxygen 18 reactions  
**NT2** palladium 110 reactions  
**NT2** palladium 118 reactions  
**NT2** phosphorus 31 reactions  
**NT2** potassium 39 reactions  
**NT2** quasi-fission  
**NT2** ruthenium 104 reactions  
**NT2** samarium 144 reactions  
**NT2** samarium 154 reactions  
**NT2** scandium 45 reactions  
**NT2** selenium 76 reactions  
**NT2** selenium 80 reactions  
**NT2** selenium 82 reactions  
**NT2** silicon 28 reactions  
**NT2** silicon 29 reactions  
**NT2** silicon 30 reactions  
**NT2** silver 109 reactions  
**NT2** sodium 23 reactions  
**NT2** sulfur 32 reactions  
**NT2** sulfur 33 reactions  
**NT2** sulfur 34 reactions  
**NT2** sulfur 36 reactions  
**NT2** sulfur 39 reactions  
**NT2** tellurium 130 reactions  
**NT2** thallium 205 reactions  
**NT2** thorium 232 reactions  
**NT2** tin 112 reactions  
**NT2** tin 116 reactions  
**NT2** tin 118 reactions  
**NT2** tin 120 reactions  
**NT2** tin 122 reactions  
**NT2** tin 124 reactions  
**NT2** titanium 46 reactions  
**NT2** titanium 48 reactions  
**NT2** titanium 49 reactions  
**NT2** titanium 50 reactions  
**NT2** tungsten 183 reactions  
**NT2** tungsten 184 reactions  
**NT2** uranium 235 reactions  
**NT2** uranium 238 reactions  
**NT2** vanadium 51 reactions  
**NT2** xenon 129 reactions  
**NT2** xenon 132 reactions  
**NT2** xenon 134 reactions  
**NT2** xenon 136 reactions  
**NT2** zinc 64 reactions  
**NT2** zinc 68 reactions  
**NT2** zinc 70 reactions  
**NT2** zirconium 90 reactions  
**NT2** zirconium 92 reactions  
**NT2** zirconium 96 reactions  
**NT1** lepton reactions  
**NT2** electron reactions  
**NT3** electrofission  
**NT2** muon reactions  
**NT2** neutrino reactions  
**NT2** positron reactions  
**NT1** nuclear fragmentation  
**NT1** photonuclear reactions  
**NT2** photofission  
**NT1** precompound-nucleus emission  
**NT1** secondary reactions  
**NT1** spallation  
**NT1** strangeness-exchange reactions  
**NT1** thermonuclear reactions  
**NT2** impact fusion  
**NT2** muon-catalyzed fusion  
*RT* capture  
*RT* capture-to-fission ratio  
*RT* chain reactions  
*RT* cinda  
*RT* coherent tube model  
*RT* coupled channel born approximation  
*RT* coupled channel theory  
*RT* cross sections  
*RT* delayed gamma radiation  
*RT* detailed balance principle  
*RT* excitation functions  
*RT* feshbach-weisskopf model  
*RT* form factors  
*RT* g matrix  
*RT* giant resonance  
*RT* hauser-feshbach theory  
*RT* hot atom chemistry  
*RT* impact parameter  
*RT* integral cross sections  
*RT* intermediate resonance  
*RT* intermediate structure  
*RT* jackson model  
*RT* k matrix  
*RT* lane-robson theory  
*RT* lewis peak  
*RT* longitudinal momentum  
*RT* nuclear reaction kinetics  
*RT* nuclear reaction yield  
*RT* oppenheimer-phillips process  
*RT* polarized products  
*RT* prompt gamma radiation  
*RT* proximity scattering  
*RT* r matrix  
*RT* reaction product transport systems  
*RT* reich-moore formula  
*RT* rescattering  
*RT* scattering  
*RT* shadow effect  
*RT* skyrme potential  
*RT* spectroscopic factors  
*RT* strangeness analog resonances  
*RT* targets  
*RT* threshold energy  
*RT* transverse energy  
*RT* transverse momentum  
*RT* valency model  
*RT* yang theorem  
**nuclear reactors**  
 USE reactors  
**nuclear regulatory authority of the slovak republic**  
 2002-12-17  
 USE ujd  
**nuclear research centre, tehran**  
 INIS: 1976-10-07; ETDE: 2002-04-17  
 USE tehran nuclear research centre  
**nuclear safety**  
 USE radiation protection  
**nuclear safety convention**  
 1999-12-23  
 USE international convention on nuclear safety  
**nuclear safety culture**  
 2003-01-17  
 USE safety culture  
**nuclear safety facility-rfp reactor**  
 1993-11-09  
 USE nsf-rfp reactor  
**NUCLEAR SAFETY PILOT PLANT**  
*UF* nspp  
**BT1** reactor safety experiments

**nuclear safety research reactor (japan)**

 INIS: 1993-11-09; ETDE: 1976-05-19  
 USE nsrr reactor

**nuclear science center reactor texas**

 1993-11-09  
 USE nscr reactor

**NUCLEAR SCREENING**
*UF* screening (nuclear)  
*RT* coulomb field  
*RT* effective charge

**nuclear ship arktika reactor**

 INIS: 2000-04-12; ETDE: 1994-09-12  
 USE leonid brezhnev reactor

**nuclear ship lenin reactor**

 2000-04-12  
 USE lenin reactor

**nuclear ship leonid brezhnev reactor**

 INIS: 1993-11-09; ETDE: 1994-09-12  
 USE leonid brezhnev reactor

**nuclear ship mutsu reactor**

 2000-04-12  
 USE mutsu reactor

**nuclear ship operation liability convention, brussels**

 INIS: 1993-11-09; ETDE: 2002-04-17  
 Brussels Convention on Liability for Operation of NuclearShips.  
 USE bcolons

**nuclear ship otto hahn reactor**

 1993-11-09  
 USE otto hahn reactor

**nuclear ship savannah reactor**

 2000-04-12  
 USE savannah reactor

**nuclear ship sibir reactor**

 INIS: 1985-09-09; ETDE: 2002-04-17  
 USE sibir reactor

**NUCLEAR SHIP VISITS**

 INIS: 1976-12-08; ETDE: 1981-04-17  
*RT* bcolons  
*RT* maritime laws  
*RT* nuclear ships  
*RT* territorial waters  
*RT* transport regulations

**NUCLEAR SHIPS**
**BT1** ships  
**NT1** ns enrico fermi  
**NT1** ns lenin  
**NT1** ns leonid brezhnev  
**NT1** ns sibir  
**NT1** nuclear merchant ships  
**NT2** ns mutsu  
**NT2** ns otto hahn  
**NT2** ns savannah  
*RT* bcolons  
*RT* nuclear ship visits  
*RT* ship propulsion reactors  
*RT* solas convention  
*RT* submarines

**NUCLEAR SPECIFIC HEAT**

 1976-03-17  
 Contribution to specific heat by lattice vibrations.  
 \*BT1 specific heat  
*RT* electronic specific heat  
*RT* lattice vibrations

**nuclear spin resonance**

USE nuclear magnetic resonance

**NUCLEAR STRUCTURE**

1995-07-03

RT backbending  
 RT belyaev theory  
 RT energy levels  
 RT even-even nuclei  
 RT even-odd nuclei  
 RT generator-coordinate method  
 RT hartree-fock-bogolyubov theory  
 RT hartree-fock method  
 RT heavy nuclei  
 RT interacting boson model  
 RT intermediate mass nuclei  
 RT k-harmonics method  
 RT light nuclei  
 RT magic nuclei  
 RT nuclear cores  
 RT nuclear halos  
 RT nuclear models  
 RT nuclear properties  
 RT nuclear radii  
 RT nuclei  
 RT odd-even nuclei  
 RT odd-odd nuclei  
 RT particle-core coupling model  
 RT quartet model  
 RT yrast states

**NUCLEAR SUPERHEATING**

\*BT1 superheating

**NUCLEAR TEMPERATURE**

UF temperature (nuclear)  
 RT energy  
 RT evaporation model  
 RT nuclei

**nuclear test reactor general electric company**

1993-11-09

USE ntr reactor

**NUCLEAR TEST SITES**

1999-01-25

NT1 azgir test site  
 NT1 nevada test site  
 NT1 semipalatinsk test site  
 RT nuclear explosions  
 RT nuclear weapons

**NUCLEAR THEORY**

NT1 hauser-feshbach theory  
 RT broken-pair approximation  
 RT nuclear physics

**NUCLEAR TRADE**

INIS: 1976-12-08; ETDE: 1978-03-08

Trade or commerce involving special nuclear material or any other radioactive materials, instruments, equipment, plants, etc., of nuclear interest.

UF commerce (nuclear)  
 UF trade (nuclear)  
 BT1 trade  
 RT economic development  
 RT economic policy  
 RT nuclear materials possession  
 RT transport

**nuclear transmutation**

USE transmutation

**NUCLEAR WASTE POLICY ACTS**

INIS: 1985-07-22; ETDE: 1984-06-29

For legislation of any country relating to the handling of nuclear radioactive wastes.

UF radioactive waste policy acts  
 \*BT1 atomic energy laws

\*BT1 waste disposal acts  
 RT high-level radioactive wastes  
 RT low-level radioactive wastes  
 RT radioactive waste disposal  
 RT radioactive wastes  
 RT spent fuel storage  
 RT spent fuels

**nuclear wastes**

INIS: 2000-04-12; ETDE: 1979-11-23

USE radioactive wastes

**nuclear weapon tests**

USE nuclear explosions

**NUCLEAR WEAPONS**

1998-06-10

(Prior to August 1996 TUMBLER PROJECT was a valid ETDE descriptor.)

UF atomic bombs  
 UF atomic weapons  
 UF nuclear attacks  
 UF thermonuclear weapons  
 SF tumbler project  
 BT1 weapons  
 NT1 enhanced radiation weapons  
 NT1 little boy  
 RT azgir test site  
 RT ballistic missile defense  
 RT bangkok treaty  
 RT castle project  
 RT civil defense  
 RT ctbt  
 RT ctbto  
 RT fallout  
 RT hiroshima  
 RT local fallout  
 RT manhattan project  
 RT nagasaki  
 RT national defense  
 RT nevada test site  
 RT non-proliferation policy  
 RT nuclear deterrence  
 RT nuclear disarmament  
 RT nuclear explosions  
 RT nuclear test sites  
 RT nuclear winter  
 RT pelindaba treaty  
 RT plumbbob project  
 RT projectiles  
 RT rarotonga treaty  
 RT redwing project  
 RT semipalatinsk test site  
 RT shelters  
 RT teapot project  
 RT tlattelolco treaty  
 RT unidir

**nuclear weapons, latin american prohibition treaty**

INIS: 1993-11-09; ETDE: 2002-04-17

USE tlattelolco treaty

**NUCLEAR WEAPONS DISMANTLEMENT**

1994-09-30

The program for disassembly of nuclear weapons and the destruction, conversion or storage of their constituent materials, including the plutonium or highly enriched uranium.

UF dismantlement (nuclear weapons)  
 RT arms control  
 RT non-proliferation policy  
 RT nuclear disarmament  
 RT nuclear materials management  
 RT proliferation

**nuclear weapons proliferation**

INIS: 1978-02-23; ETDE: 1978-04-27

USE proliferation

**NUCLEAR WINTER**

INIS: 1986-09-26; ETDE: 1985-05-31

The atmospheric effects resulting from nuclear war. The major effect is considered to be a hemispheric temperature drop to as low as -40 deg C lasting several months.

RT ambient temperature  
 RT climates  
 RT environmental impacts  
 RT nuclear explosions  
 RT nuclear weapons

**nuclease (deoxyribonuclease)**

USE dna-ase

**nuclease (ribonuclease)**

USE rna-ase

**NUCLEASES**

\*BT1 phosphodiesterases  
 NT1 dna-ase  
 NT2 endonucleases  
 NT1 rna-ase  
 RT micrococcus luteus  
 RT nucleic acids  
 RT nucleoproteins

**NUCLEATE BOILING**

\*BT1 boiling  
 NT1 departure nucleate boiling  
 RT heat transfer  
 RT nucleation

**NUCLEATION**

RT crystal growth  
 RT crystallization  
 RT nucleate boiling

**NUCLEBRAS**

INIS: 1977-03-29; ETDE: 1977-06-03

\*BT1 brazilian organizations

**NUCLEI**

NT1 antinuclei  
 NT2 antideuterons  
 NT2 antiprotons  
 NT2 antitritons  
 NT1 cosmic nuclei  
 NT1 deformed nuclei  
 NT2 superdeformed nuclei  
 NT1 even-even nuclei  
 NT2 argon 32  
 NT2 argon 34  
 NT2 argon 36  
 NT2 argon 38  
 NT2 argon 40  
 NT2 argon 42  
 NT2 argon 44  
 NT2 argon 46  
 NT2 argon 50  
 NT2 barium 114  
 NT2 barium 116  
 NT2 barium 118  
 NT2 barium 120  
 NT2 barium 122  
 NT2 barium 124  
 NT2 barium 126  
 NT2 barium 128  
 NT2 barium 130  
 NT2 barium 132  
 NT2 barium 134  
 NT2 barium 136  
 NT2 barium 138  
 NT2 barium 140  
 NT2 barium 142  
 NT2 barium 144  
 NT2 barium 146

NT2	barium 148	NT2	curium 232	NT2	hafnium 160
NT2	beryllium 10	NT2	curium 236	NT2	hafnium 162
NT2	beryllium 12	NT2	curium 238	NT2	hafnium 164
NT2	beryllium 14	NT2	curium 240	NT2	hafnium 166
NT2	beryllium 6	NT2	curium 242	NT2	hafnium 168
NT2	beryllium 8	NT2	curium 244	NT2	hafnium 170
NT2	cadmium 100	NT2	curium 246	NT2	hafnium 172
NT2	cadmium 102	NT2	curium 248	NT2	hafnium 174
NT2	cadmium 104	NT2	curium 250	NT2	hafnium 176
NT2	cadmium 106	NT2	curium 252	NT2	hafnium 178
NT2	cadmium 108	NT2	darmstadtium 270	NT2	hafnium 180
NT2	cadmium 110	NT2	dysprosium 140	NT2	hafnium 182
NT2	cadmium 112	NT2	dysprosium 142	NT2	hafnium 184
NT2	cadmium 114	NT2	dysprosium 144	NT2	hafnium 186
NT2	cadmium 116	NT2	dysprosium 146	NT2	hassium 264
NT2	cadmium 118	NT2	dysprosium 148	NT2	hassium 266
NT2	cadmium 120	NT2	dysprosium 150	NT2	hassium 270
NT2	cadmium 122	NT2	dysprosium 152	NT2	helium 10
NT2	cadmium 124	NT2	dysprosium 154	NT2	helium 4
NT2	cadmium 126	NT2	dysprosium 156	NT3	helium i
NT2	cadmium 128	NT2	dysprosium 158	NT3	helium ii
NT2	cadmium 130	NT2	dysprosium 160	NT2	helium 6
NT2	cadmium 96	NT2	dysprosium 162	NT2	helium 8
NT2	cadmium 98	NT2	dysprosium 164	NT2	iron 46
NT2	calcium 36	NT2	dysprosium 166	NT2	iron 48
NT2	calcium 38	NT2	dysprosium 168	NT2	iron 50
NT2	calcium 40	NT2	erbium 146	NT2	iron 52
NT2	calcium 42	NT2	erbium 148	NT2	iron 54
NT2	calcium 44	NT2	erbium 150	NT2	iron 56
NT2	calcium 46	NT2	erbium 152	NT2	iron 58
NT2	calcium 48	NT2	erbium 154	NT2	iron 60
NT2	calcium 50	NT2	erbium 156	NT2	iron 62
NT2	calcium 52	NT2	erbium 158	NT2	iron 64
NT2	californium 238	NT2	erbium 160	NT2	iron 66
NT2	californium 240	NT2	erbium 162	NT2	iron 68
NT2	californium 242	NT2	erbium 164	NT2	krypton 70
NT2	californium 244	NT2	erbium 166	NT2	krypton 72
NT2	californium 246	NT2	erbium 168	NT2	krypton 74
NT2	californium 248	NT2	erbium 170	NT2	krypton 76
NT2	californium 250	NT2	erbium 172	NT2	krypton 78
NT2	californium 252	NT2	erbium 174	NT2	krypton 80
NT2	californium 254	NT2	fermium 242	NT2	krypton 82
NT2	californium 256	NT2	fermium 244	NT2	krypton 84
NT2	carbon 10	NT2	fermium 246	NT2	krypton 86
NT2	carbon 12	NT2	fermium 248	NT2	krypton 88
NT2	carbon 14	NT2	fermium 250	NT2	krypton 90
NT2	carbon 16	NT2	fermium 252	NT2	krypton 92
NT2	carbon 18	NT2	fermium 254	NT2	krypton 94
NT2	carbon 20	NT2	fermium 256	NT2	krypton 96
NT2	carbon 22	NT2	fermium 258	NT2	krypton 98
NT2	carbon 8	NT2	gadolinium 138	NT2	lead 180
NT2	cerium 124	NT2	gadolinium 140	NT2	lead 182
NT2	cerium 126	NT2	gadolinium 142	NT2	lead 184
NT2	cerium 128	NT2	gadolinium 144	NT2	lead 186
NT2	cerium 130	NT2	gadolinium 146	NT2	lead 188
NT2	cerium 132	NT2	gadolinium 148	NT2	lead 190
NT2	cerium 134	NT2	gadolinium 150	NT2	lead 192
NT2	cerium 136	NT2	gadolinium 152	NT2	lead 194
NT2	cerium 138	NT2	gadolinium 154	NT2	lead 196
NT2	cerium 140	NT2	gadolinium 156	NT2	lead 198
NT2	cerium 142	NT2	gadolinium 158	NT2	lead 200
NT2	cerium 144	NT2	gadolinium 160	NT2	lead 202
NT2	cerium 146	NT2	gadolinium 162	NT2	lead 204
NT2	cerium 148	NT2	gadolinium 164	NT2	lead 206
NT2	cerium 150	NT2	germanium 62	NT2	lead 208
NT2	cerium 152	NT2	germanium 64	NT2	lead 210
NT2	chromium 42	NT2	germanium 66	NT2	lead 212
NT2	chromium 44	NT2	germanium 68	NT2	lead 214
NT2	chromium 46	NT2	germanium 70	NT2	lead 216
NT2	chromium 48	NT2	germanium 72	NT2	magnesium 20
NT2	chromium 50	NT2	germanium 74	NT2	magnesium 22
NT2	chromium 52	NT2	germanium 76	NT2	magnesium 24
NT2	chromium 54	NT2	germanium 78	NT2	magnesium 26
NT2	chromium 56	NT2	germanium 80	NT2	magnesium 28
NT2	chromium 58	NT2	germanium 82	NT2	magnesium 30
NT2	chromium 60	NT2	germanium 84	NT2	magnesium 32
NT2	chromium 62	NT2	hafnium 154	NT2	magnesium 34
NT2	chromium 64	NT2	hafnium 156	NT2	magnesium 36
NT2	chromium 66	NT2	hafnium 158	NT2	magnesium 40

NT2 mercury 176	NT2 osmium 162	NT2 polonium 200
NT2 mercury 178	NT2 osmium 164	NT2 polonium 202
NT2 mercury 180	NT2 osmium 166	NT2 polonium 204
NT2 mercury 182	NT2 osmium 168	NT2 polonium 206
NT2 mercury 184	NT2 osmium 170	NT2 polonium 208
NT2 mercury 186	NT2 osmium 172	NT2 polonium 210
NT2 mercury 188	NT2 osmium 174	NT2 polonium 212
NT2 mercury 190	NT2 osmium 176	NT2 polonium 214
NT2 mercury 192	NT2 osmium 178	NT2 polonium 216
NT2 mercury 194	NT2 osmium 180	NT2 polonium 218
NT2 mercury 196	NT2 osmium 182	NT2 polonium 220
NT2 mercury 198	NT2 osmium 184	NT2 radium 206
NT2 mercury 200	NT2 osmium 186	NT2 radium 208
NT2 mercury 202	NT2 osmium 188	NT2 radium 210
NT2 mercury 204	NT2 osmium 190	NT2 radium 212
NT2 mercury 206	NT2 osmium 192	NT2 radium 214
NT2 mercury 208	NT2 osmium 194	NT2 radium 216
NT2 mercury 210	NT2 osmium 196	NT2 radium 218
NT2 mercury 212	NT2 oxygen 12	NT2 radium 220
NT2 molybdenum 100	NT2 oxygen 14	NT2 radium 222
NT2 molybdenum 102	NT2 oxygen 16	NT2 radium 224
NT2 molybdenum 104	NT2 oxygen 18	NT2 radium 226
NT2 molybdenum 106	NT2 oxygen 20	NT2 radium 228
NT2 molybdenum 108	NT2 oxygen 22	NT2 radium 230
NT2 molybdenum 110	NT2 oxygen 24	NT2 radium 232
NT2 molybdenum 84	NT2 oxygen 28	NT2 radium 234
NT2 molybdenum 86	NT2 palladium 100	NT2 radon 196
NT2 molybdenum 88	NT2 palladium 102	NT2 radon 200
NT2 molybdenum 90	NT2 palladium 104	NT2 radon 202
NT2 molybdenum 92	NT2 palladium 106	NT2 radon 204
NT2 molybdenum 94	NT2 palladium 108	NT2 radon 206
NT2 molybdenum 96	NT2 palladium 110	NT2 radon 208
NT2 molybdenum 98	NT2 palladium 112	NT2 radon 210
NT2 neodymium 128	NT2 palladium 114	NT2 radon 212
NT2 neodymium 130	NT2 palladium 116	NT2 radon 214
NT2 neodymium 132	NT2 palladium 118	NT2 radon 216
NT2 neodymium 134	NT2 palladium 120	NT2 radon 218
NT2 neodymium 136	NT2 palladium 94	NT2 radon 220
NT2 neodymium 138	NT2 palladium 96	NT2 radon 222
NT2 neodymium 140	NT2 palladium 98	NT2 radon 224
NT2 neodymium 142	NT2 platinum 168	NT2 radon 226
NT2 neodymium 144	NT2 platinum 170	NT2 radon 228
NT2 neodymium 146	NT2 platinum 172	NT2 ruthenium 100
NT2 neodymium 148	NT2 platinum 174	NT2 ruthenium 102
NT2 neodymium 150	NT2 platinum 176	NT2 ruthenium 104
NT2 neodymium 152	NT2 platinum 178	NT2 ruthenium 106
NT2 neodymium 154	NT2 platinum 180	NT2 ruthenium 108
NT2 neodymium 156	NT2 platinum 182	NT2 ruthenium 110
NT2 neon 16	NT2 platinum 184	NT2 ruthenium 112
NT2 neon 18	NT2 platinum 186	NT2 ruthenium 114
NT2 neon 20	NT2 platinum 188	NT2 ruthenium 88
NT2 neon 22	NT2 platinum 190	NT2 ruthenium 90
NT2 neon 24	NT2 platinum 192	NT2 ruthenium 92
NT2 neon 26	NT2 platinum 194	NT2 ruthenium 94
NT2 neon 28	NT2 platinum 196	NT2 ruthenium 96
NT2 neon 30	NT2 platinum 198	NT2 ruthenium 98
NT2 neon 32	NT2 platinum 200	NT2 rutherfordium 254
NT2 nickel 50	NT2 platinum 202	NT2 rutherfordium 256
NT2 nickel 52	NT2 platinum 204	NT2 rutherfordium 258
NT2 nickel 54	NT2 platinum 206	NT2 rutherfordium 260
NT2 nickel 56	NT2 platinum 208	NT2 rutherfordium 262
NT2 nickel 58	NT2 plutonium 228	NT2 samarium 134
NT2 nickel 60	NT2 plutonium 230	NT2 samarium 136
NT2 nickel 62	NT2 plutonium 232	NT2 samarium 138
NT2 nickel 64	NT2 plutonium 234	NT2 samarium 140
NT2 nickel 66	NT2 plutonium 236	NT2 samarium 142
NT2 nickel 68	NT2 plutonium 238	NT2 samarium 144
NT2 nickel 70	NT2 plutonium 240	NT2 samarium 146
NT2 nickel 72	NT2 plutonium 242	NT2 samarium 148
NT2 nickel 74	NT2 plutonium 244	NT2 samarium 150
NT2 nickel 78	NT2 plutonium 246	NT2 samarium 152
NT2 nobelium 250	NT2 plutonium 248	NT2 samarium 154
NT2 nobelium 252	NT2 plutonium 250	NT2 samarium 156
NT2 nobelium 254	NT2 polonium 188	NT2 samarium 158
NT2 nobelium 256	NT2 polonium 190	NT2 samarium 160
NT2 nobelium 258	NT2 polonium 192	NT2 seaborgium 260
NT2 nobelium 260	NT2 polonium 194	NT2 seaborgium 262
NT2 nobelium 262	NT2 polonium 196	NT2 seaborgium 266
NT2 nobelium 264	NT2 polonium 198	NT2 selenium 66

NT2	selenium 68	NT2	tin 102	NT2	ytterbium 154
NT2	selenium 70	NT2	tin 104	NT2	ytterbium 156
NT2	selenium 72	NT2	tin 106	NT2	ytterbium 158
NT2	selenium 74	NT2	tin 108	NT2	ytterbium 160
NT2	selenium 76	NT2	tin 110	NT2	ytterbium 162
NT2	selenium 78	NT2	tin 112	NT2	ytterbium 164
NT2	selenium 80	NT2	tin 114	NT2	ytterbium 166
NT2	selenium 82	NT2	tin 116	NT2	ytterbium 168
NT2	selenium 84	NT2	tin 118	NT2	ytterbium 170
NT2	selenium 86	NT2	tin 120	NT2	ytterbium 172
NT2	selenium 88	NT2	tin 122	NT2	ytterbium 174
NT2	silicon 22	NT2	tin 124	NT2	ytterbium 176
NT2	silicon 24	NT2	tin 126	NT2	ytterbium 178
NT2	silicon 26	NT2	tin 128	NT2	ytterbium 180
NT2	silicon 28	NT2	tin 130	NT2	zinc 58
NT2	silicon 30	NT2	tin 132	NT2	zinc 60
NT2	silicon 32	NT2	tin 134	NT2	zinc 62
NT2	silicon 34	NT2	titanium 40	NT2	zinc 64
NT2	silicon 36	NT2	titanium 42	NT2	zinc 66
NT2	silicon 38	NT2	titanium 44	NT2	zinc 68
NT2	silicon 40	NT2	titanium 46	NT2	zinc 70
NT2	silicon 42	NT2	titanium 48	NT2	zinc 72
NT2	strontium 100	NT2	titanium 50	NT2	zinc 74
NT2	strontium 102	NT2	titanium 52	NT2	zinc 76
NT2	strontium 76	NT2	titanium 54	NT2	zinc 78
NT2	strontium 78	NT2	titanium 56	NT2	zinc 80
NT2	strontium 80	NT2	titanium 58	NT2	zirconium 100
NT2	strontium 82	NT2	titanium 60	NT2	zirconium 102
NT2	strontium 84	NT2	tungsten 158	NT2	zirconium 104
NT2	strontium 86	NT2	tungsten 160	NT2	zirconium 80
NT2	strontium 88	NT2	tungsten 162	NT2	zirconium 82
NT2	strontium 90	NT2	tungsten 164	NT2	zirconium 84
NT2	strontium 92	NT2	tungsten 166	NT2	zirconium 86
NT2	strontium 94	NT2	tungsten 168	NT2	zirconium 88
NT2	strontium 96	NT2	tungsten 170	NT2	zirconium 90
NT2	strontium 98	NT2	tungsten 172	NT2	zirconium 92
NT2	sulfur 24	NT2	tungsten 174	NT2	zirconium 94
NT2	sulfur 28	NT2	tungsten 176	NT2	zirconium 96
NT2	sulfur 30	NT2	tungsten 178	NT2	zirconium 98
NT2	sulfur 32	NT2	tungsten 180	NT1	even-odd nuclei
NT2	sulfur 34	NT2	tungsten 182	NT2	argon 31
NT2	sulfur 36	NT2	tungsten 184	NT2	argon 33
NT2	sulfur 38	NT2	tungsten 186	NT2	argon 35
NT2	sulfur 40	NT2	tungsten 188	NT2	argon 37
NT2	sulfur 42	NT2	tungsten 190	NT2	argon 39
NT2	sulfur 44	NT2	tungsten 192	NT2	argon 41
NT2	sulfur 46	NT2	uranium 218	NT2	argon 43
NT2	sulfur 48	NT2	uranium 222	NT2	argon 45
NT2	tellurium 106	NT2	uranium 224	NT2	argon 47
NT2	tellurium 108	NT2	uranium 226	NT2	argon 49
NT2	tellurium 110	NT2	uranium 228	NT2	argon 51
NT2	tellurium 112	NT2	uranium 230	NT2	barium 115
NT2	tellurium 114	NT2	uranium 232	NT2	barium 117
NT2	tellurium 116	NT2	uranium 234	NT2	barium 119
NT2	tellurium 118	NT2	uranium 236	NT2	barium 121
NT2	tellurium 120	NT2	uranium 238	NT2	barium 123
NT2	tellurium 122	NT2	uranium 240	NT2	barium 125
NT2	tellurium 124	NT2	uranium 242	NT2	barium 127
NT2	tellurium 126	NT2	xenon 110	NT2	barium 129
NT2	tellurium 128	NT2	xenon 112	NT2	barium 131
NT2	tellurium 130	NT2	xenon 114	NT2	barium 133
NT2	tellurium 132	NT2	xenon 116	NT2	barium 135
NT2	tellurium 134	NT2	xenon 118	NT2	barium 137
NT2	tellurium 136	NT2	xenon 120	NT2	barium 139
NT2	tellurium 138	NT2	xenon 122	NT2	barium 141
NT2	thorium 212	NT2	xenon 124	NT2	barium 143
NT2	thorium 214	NT2	xenon 126	NT2	barium 145
NT2	thorium 216	NT2	xenon 128	NT2	barium 147
NT2	thorium 218	NT2	xenon 130	NT2	barium 149
NT2	thorium 220	NT2	xenon 132	NT2	beryllium 11
NT2	thorium 224	NT2	xenon 134	NT2	beryllium 13
NT2	thorium 226	NT2	xenon 136	NT2	beryllium 5
NT2	thorium 228	NT2	xenon 138	NT2	beryllium 7
NT2	thorium 230	NT2	xenon 140	NT2	beryllium 9
NT2	thorium 232	NT2	xenon 142	NT2	cadmium 101
NT2	thorium 234	NT2	xenon 144	NT2	cadmium 103
NT2	thorium 236	NT2	xenon 146	NT2	cadmium 105
NT2	thorium 238	NT2	ytterbium 150	NT2	cadmium 107
NT2	tin 100	NT2	ytterbium 152	NT2	cadmium 109

NT2 cadmium 111	NT2 dysprosium 151	NT2 hafnium 183
NT2 cadmium 113	NT2 dysprosium 153	NT2 hafnium 185
NT2 cadmium 115	NT2 dysprosium 155	NT2 hassium 265
NT2 cadmium 117	NT2 dysprosium 157	NT2 hassium 267
NT2 cadmium 119	NT2 dysprosium 159	NT2 hassium 271
NT2 cadmium 121	NT2 dysprosium 161	NT2 helium 3
NT2 cadmium 123	NT2 dysprosium 163	NT3 helium 3 a
NT2 cadmium 125	NT2 dysprosium 165	NT3 helium 3 al
NT2 cadmium 127	NT2 dysprosium 167	NT3 helium 3 b
NT2 cadmium 97	NT2 dysprosium 169	NT2 helium 5
NT2 cadmium 99	NT2 element 112 277	NT2 helium 7
NT2 calcium 35	NT2 element 112 283	NT2 helium 9
NT2 calcium 37	NT2 erbium 145	NT2 iron 45
NT2 calcium 39	NT2 erbium 147	NT2 iron 47
NT2 calcium 41	NT2 erbium 149	NT2 iron 49
NT2 calcium 43	NT2 erbium 151	NT2 iron 51
NT2 calcium 45	NT2 erbium 153	NT2 iron 53
NT2 calcium 47	NT2 erbium 155	NT2 iron 55
NT2 calcium 49	NT2 erbium 157	NT2 iron 57
NT2 calcium 51	NT2 erbium 159	NT2 iron 59
NT2 calcium 53	NT2 erbium 161	NT2 iron 61
NT2 californium 239	NT2 erbium 163	NT2 iron 63
NT2 californium 241	NT2 erbium 165	NT2 iron 65
NT2 californium 243	NT2 erbium 167	NT2 iron 67
NT2 californium 245	NT2 erbium 169	NT2 krypton 69
NT2 californium 247	NT2 erbium 171	NT2 krypton 71
NT2 californium 249	NT2 erbium 173	NT2 krypton 73
NT2 californium 251	NT2 erbium 175	NT2 krypton 75
NT2 californium 253	NT2 fermium 243	NT2 krypton 77
NT2 californium 255	NT2 fermium 245	NT2 krypton 79
NT2 carbon 11	NT2 fermium 247	NT2 krypton 81
NT2 carbon 13	NT2 fermium 249	NT2 krypton 83
NT2 carbon 15	NT2 fermium 251	NT2 krypton 85
NT2 carbon 17	NT2 fermium 253	NT2 krypton 87
NT2 carbon 19	NT2 fermium 255	NT2 krypton 89
NT2 carbon 9	NT2 fermium 257	NT2 krypton 91
NT2 cerium 121	NT2 fermium 259	NT2 krypton 93
NT2 cerium 123	NT2 gadolinium 135	NT2 krypton 95
NT2 cerium 125	NT2 gadolinium 137	NT2 krypton 97
NT2 cerium 127	NT2 gadolinium 139	NT2 lead 183
NT2 cerium 129	NT2 gadolinium 141	NT2 lead 185
NT2 cerium 131	NT2 gadolinium 143	NT2 lead 187
NT2 cerium 133	NT2 gadolinium 145	NT2 lead 189
NT2 cerium 135	NT2 gadolinium 147	NT2 lead 191
NT2 cerium 137	NT2 gadolinium 149	NT2 lead 193
NT2 cerium 139	NT2 gadolinium 151	NT2 lead 195
NT2 cerium 141	NT2 gadolinium 153	NT2 lead 197
NT2 cerium 143	NT2 gadolinium 155	NT2 lead 199
NT2 cerium 145	NT2 gadolinium 157	NT2 lead 201
NT2 cerium 147	NT2 gadolinium 159	NT2 lead 203
NT2 cerium 149	NT2 gadolinium 161	NT2 lead 205
NT2 cerium 151	NT2 gadolinium 163	NT2 lead 207
NT2 chromium 43	NT2 gadolinium 165	NT2 lead 209
NT2 chromium 45	NT2 germanium 61	NT2 lead 211
NT2 chromium 47	NT2 germanium 65	NT2 lead 213
NT2 chromium 49	NT2 germanium 67	NT2 lead 215
NT2 chromium 51	NT2 germanium 69	NT2 magnesium 19
NT2 chromium 53	NT2 germanium 71	NT2 magnesium 21
NT2 chromium 55	NT2 germanium 73	NT2 magnesium 23
NT2 chromium 57	NT2 germanium 75	NT2 magnesium 25
NT2 chromium 59	NT2 germanium 77	NT2 magnesium 27
NT2 chromium 61	NT2 germanium 79	NT2 magnesium 29
NT2 chromium 63	NT2 germanium 81	NT2 magnesium 31
NT2 chromium 65	NT2 germanium 83	NT2 magnesium 33
NT2 curium 237	NT2 germanium 85	NT2 magnesium 35
NT2 curium 239	NT2 hafnium 155	NT2 magnesium 39
NT2 curium 241	NT2 hafnium 157	NT2 mercury 175
NT2 curium 243	NT2 hafnium 159	NT2 mercury 177
NT2 curium 245	NT2 hafnium 161	NT2 mercury 179
NT2 curium 247	NT2 hafnium 163	NT2 mercury 181
NT2 curium 249	NT2 hafnium 165	NT2 mercury 183
NT2 curium 251	NT2 hafnium 167	NT2 mercury 185
NT2 darmstadtium 269	NT2 hafnium 169	NT2 mercury 187
NT2 darmstadtium 271	NT2 hafnium 171	NT2 mercury 189
NT2 dysprosium 141	NT2 hafnium 173	NT2 mercury 191
NT2 dysprosium 143	NT2 hafnium 175	NT2 mercury 193
NT2 dysprosium 145	NT2 hafnium 177	NT2 mercury 195
NT2 dysprosium 147	NT2 hafnium 179	NT2 mercury 197
NT2 dysprosium 149	NT2 hafnium 181	NT2 mercury 199

NT2 mercury 201	NT2 oxygen 17	NT2 radon 201
NT2 mercury 203	NT2 oxygen 19	NT2 radon 203
NT2 mercury 205	NT2 oxygen 21	NT2 radon 205
NT2 mercury 207	NT2 oxygen 23	NT2 radon 207
NT2 mercury 209	NT2 palladium 101	NT2 radon 209
NT2 mercury 211	NT2 palladium 103	NT2 radon 211
NT2 molybdenum 101	NT2 palladium 105	NT2 radon 213
NT2 molybdenum 103	NT2 palladium 107	NT2 radon 215
NT2 molybdenum 105	NT2 palladium 109	NT2 radon 217
NT2 molybdenum 107	NT2 palladium 111	NT2 radon 219
NT2 molybdenum 109	NT2 palladium 113	NT2 radon 221
NT2 molybdenum 85	NT2 palladium 115	NT2 radon 223
NT2 molybdenum 87	NT2 palladium 117	NT2 radon 225
NT2 molybdenum 89	NT2 palladium 119	NT2 radon 227
NT2 molybdenum 91	NT2 palladium 93	NT2 ruthenium 101
NT2 molybdenum 93	NT2 palladium 95	NT2 ruthenium 103
NT2 molybdenum 95	NT2 palladium 97	NT2 ruthenium 105
NT2 molybdenum 97	NT2 palladium 99	NT2 ruthenium 107
NT2 molybdenum 99	NT2 platinum 169	NT2 ruthenium 109
NT2 neodymium 125	NT2 platinum 171	NT2 ruthenium 111
NT2 neodymium 127	NT2 platinum 173	NT2 ruthenium 113
NT2 neodymium 129	NT2 platinum 175	NT2 ruthenium 89
NT2 neodymium 131	NT2 platinum 177	NT2 ruthenium 91
NT2 neodymium 133	NT2 platinum 179	NT2 ruthenium 93
NT2 neodymium 135	NT2 platinum 181	NT2 ruthenium 95
NT2 neodymium 137	NT2 platinum 183	NT2 ruthenium 97
NT2 neodymium 139	NT2 platinum 185	NT2 ruthenium 99
NT2 neodymium 141	NT2 platinum 187	NT2 rutherfordium 253
NT2 neodymium 143	NT2 platinum 189	NT2 rutherfordium 255
NT2 neodymium 145	NT2 platinum 191	NT2 rutherfordium 257
NT2 neodymium 147	NT2 platinum 193	NT2 rutherfordium 259
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NT2 neodymium 151	NT2 platinum 197	NT2 rutherfordium 263
NT2 neodymium 153	NT2 platinum 199	NT2 samarium 131
NT2 neodymium 155	NT2 platinum 201	NT2 samarium 133
NT2 neon 17	NT2 platinum 203	NT2 samarium 135
NT2 neon 19	NT2 platinum 205	NT2 samarium 137
NT2 neon 21	NT2 platinum 207	NT2 samarium 139
NT2 neon 23	NT2 plutonium 229	NT2 samarium 141
NT2 neon 25	NT2 plutonium 231	NT2 samarium 143
NT2 neon 27	NT2 plutonium 233	NT2 samarium 145
NT2 neon 29	NT2 plutonium 235	NT2 samarium 147
NT2 nickel 49	NT2 plutonium 237	NT2 samarium 149
NT2 nickel 53	NT2 plutonium 239	NT2 samarium 151
NT2 nickel 55	NT2 plutonium 241	NT2 samarium 153
NT2 nickel 57	NT2 plutonium 243	NT2 samarium 155
NT2 nickel 59	NT2 plutonium 245	NT2 samarium 157
NT2 nickel 61	NT2 plutonium 247	NT2 samarium 159
NT2 nickel 63	NT2 polonium 193	NT2 seaborgium 259
NT2 nickel 65	NT2 polonium 195	NT2 seaborgium 261
NT2 nickel 67	NT2 polonium 197	NT2 seaborgium 263
NT2 nickel 69	NT2 polonium 199	NT2 seaborgium 265
NT2 nickel 71	NT2 polonium 201	NT2 selenium 65
NT2 nickel 73	NT2 polonium 203	NT2 selenium 67
NT2 nobelium 251	NT2 polonium 205	NT2 selenium 69
NT2 nobelium 253	NT2 polonium 207	NT2 selenium 71
NT2 nobelium 255	NT2 polonium 209	NT2 selenium 73
NT2 nobelium 257	NT2 polonium 211	NT2 selenium 75
NT2 nobelium 259	NT2 polonium 213	NT2 selenium 77
NT2 nobelium 261	NT2 polonium 215	NT2 selenium 79
NT2 osmium 163	NT2 polonium 217	NT2 selenium 81
NT2 osmium 165	NT2 polonium 219	NT2 selenium 83
NT2 osmium 167	NT2 radium 205	NT2 selenium 85
NT2 osmium 169	NT2 radium 207	NT2 selenium 87
NT2 osmium 171	NT2 radium 209	NT2 selenium 89
NT2 osmium 173	NT2 radium 211	NT2 selenium 91
NT2 osmium 175	NT2 radium 213	NT2 silicon 23
NT2 osmium 177	NT2 radium 215	NT2 silicon 25
NT2 osmium 179	NT2 radium 217	NT2 silicon 27
NT2 osmium 181	NT2 radium 219	NT2 silicon 29
NT2 osmium 183	NT2 radium 221	NT2 silicon 31
NT2 osmium 185	NT2 radium 223	NT2 silicon 33
NT2 osmium 187	NT2 radium 225	NT2 silicon 35
NT2 osmium 189	NT2 radium 227	NT2 silicon 37
NT2 osmium 191	NT2 radium 229	NT2 silicon 39
NT2 osmium 193	NT2 radium 231	NT2 silicon 41
NT2 osmium 195	NT2 radium 233	NT2 strontium 101
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NT3	californium 248	NT3	mendelevium 255	NT3	protactinium 228
NT3	californium 249	NT3	mendelevium 256	NT3	protactinium 229
NT3	californium 250	NT3	mendelevium 257	NT3	protactinium 230
NT3	californium 251	NT3	mendelevium 258	NT3	protactinium 231
NT3	californium 252	NT3	mendelevium 259	NT3	protactinium 232
NT3	californium 253	NT3	mendelevium 260	NT3	protactinium 233
NT3	californium 254	NT3	mendelevium 261	NT3	protactinium 234
NT3	californium 255	NT3	neptunium 225	NT3	protactinium 235
NT3	californium 256	NT3	neptunium 226	NT3	protactinium 236
NT3	curium 232	NT3	neptunium 227	NT3	protactinium 237
NT3	curium 236	NT3	neptunium 228	NT3	protactinium 238
NT3	curium 237	NT3	neptunium 229	NT3	protactinium 239
NT3	curium 238	NT3	neptunium 230	NT3	thorium 212
NT3	curium 239	NT3	neptunium 231	NT3	thorium 213
NT3	curium 240	NT3	neptunium 232	NT3	thorium 214
NT3	curium 241	NT3	neptunium 233	NT3	thorium 215
NT3	curium 242	NT3	neptunium 234	NT3	thorium 216
NT3	curium 243	NT3	neptunium 235	NT3	thorium 217
NT3	curium 244	NT3	neptunium 236	NT3	thorium 218
NT3	curium 245	NT3	neptunium 237	NT3	thorium 219
NT3	curium 246	NT3	neptunium 238	NT3	thorium 220
NT3	curium 247	NT3	neptunium 239	NT3	thorium 221
NT3	curium 248	NT3	neptunium 240	NT3	thorium 222
NT3	curium 249	NT3	neptunium 241	NT3	thorium 223
NT3	curium 250	NT3	neptunium 242	NT3	thorium 224
NT3	curium 251	NT3	neptunium 243	NT3	thorium 225
NT3	curium 252	NT3	neptunium 244	NT3	thorium 226
NT3	einsteinium 243	NT3	nobelium 250	NT3	thorium 227
NT3	einsteinium 244	NT3	nobelium 251	NT3	thorium 228
NT3	einsteinium 245	NT3	nobelium 252	NT3	thorium 229
NT3	einsteinium 246	NT3	nobelium 253	NT3	thorium 230
NT3	einsteinium 247	NT3	nobelium 254	NT3	thorium 231
NT3	einsteinium 248	NT3	nobelium 255	NT3	thorium 232
NT3	einsteinium 249	NT3	nobelium 256	NT3	thorium 233
NT3	einsteinium 250	NT3	nobelium 257	NT3	thorium 234
NT3	einsteinium 251	NT3	nobelium 258	NT3	thorium 235
NT3	einsteinium 252	NT3	nobelium 259	NT3	thorium 236
NT3	einsteinium 253	NT3	nobelium 260	NT3	thorium 237
NT3	einsteinium 254	NT3	nobelium 261	NT3	thorium 238
NT3	einsteinium 255	NT3	nobelium 262	NT3	uranium 218
NT3	einsteinium 256	NT3	nobelium 264	NT3	uranium 219
NT3	fermium 242	NT3	plutonium 228	NT3	uranium 222
NT3	fermium 243	NT3	plutonium 229	NT3	uranium 223
NT3	fermium 244	NT3	plutonium 230	NT3	uranium 224
NT3	fermium 245	NT3	plutonium 231	NT3	uranium 225
NT3	fermium 246	NT3	plutonium 232	NT3	uranium 226
NT3	fermium 247	NT3	plutonium 233	NT3	uranium 227
NT3	fermium 248	NT3	plutonium 234	NT3	uranium 228
NT3	fermium 249	NT3	plutonium 235	NT3	uranium 229
NT3	fermium 250	NT3	plutonium 236	NT3	uranium 230
NT3	fermium 251	NT3	plutonium 237	NT3	uranium 231
NT3	fermium 252	NT3	plutonium 238	NT3	uranium 232
NT3	fermium 253	NT3	plutonium 239	NT3	uranium 233
NT3	fermium 254	NT3	plutonium 240	NT3	uranium 234
NT3	fermium 255	NT3	plutonium 241	NT3	uranium 235
NT3	fermium 256	NT3	plutonium 242	NT3	uranium 236
NT3	fermium 257	NT3	plutonium 243	NT3	uranium 237
NT3	fermium 258	NT3	plutonium 244	NT3	uranium 238
NT3	fermium 259	NT3	plutonium 245	NT3	uranium 239
NT3	lawrencium 252	NT3	plutonium 246	NT3	uranium 240
NT3	lawrencium 253	NT3	plutonium 247	NT3	uranium 241
NT3	lawrencium 254	NT3	plutonium 248	NT3	uranium 242
NT3	lawrencium 255	NT3	plutonium 250	NT2	astatine 191
NT3	lawrencium 256	NT3	protactinium 212	NT2	astatine 193
NT3	lawrencium 257	NT3	protactinium 213	NT2	astatine 194
NT3	lawrencium 258	NT3	protactinium 214	NT2	astatine 195
NT3	lawrencium 259	NT3	protactinium 215	NT2	astatine 196
NT3	lawrencium 260	NT3	protactinium 216	NT2	astatine 197
NT3	lawrencium 261	NT3	protactinium 217	NT2	astatine 198
NT3	lawrencium 262	NT3	protactinium 218	NT2	astatine 199
NT3	lawrencium 263	NT3	protactinium 219	NT2	astatine 200
NT3	mendelevium 247	NT3	protactinium 220	NT2	astatine 201
NT3	mendelevium 248	NT3	protactinium 221	NT2	astatine 202
NT3	mendelevium 249	NT3	protactinium 222	NT2	astatine 203
NT3	mendelevium 250	NT3	protactinium 223	NT2	astatine 204
NT3	mendelevium 251	NT3	protactinium 224	NT2	astatine 205
NT3	mendelevium 252	NT3	protactinium 225	NT2	astatine 206
NT3	mendelevium 253	NT3	protactinium 226	NT2	astatine 207

NT2	astatine 208	NT2	francium 213	NT2	lead 185
NT2	astatine 209	NT2	francium 214	NT2	lead 186
NT2	astatine 210	NT2	francium 215	NT2	lead 187
NT2	astatine 211	NT2	francium 216	NT2	lead 188
NT2	astatine 212	NT2	francium 217	NT2	lead 189
NT2	astatine 213	NT2	francium 218	NT2	lead 190
NT2	astatine 214	NT2	francium 219	NT2	lead 191
NT2	astatine 215	NT2	francium 220	NT2	lead 192
NT2	astatine 216	NT2	francium 221	NT2	lead 193
NT2	astatine 217	NT2	francium 222	NT2	lead 194
NT2	astatine 218	NT2	francium 223	NT2	lead 195
NT2	astatine 219	NT2	francium 224	NT2	lead 196
NT2	astatine 220	NT2	francium 225	NT2	lead 197
NT2	astatine 221	NT2	francium 226	NT2	lead 198
NT2	astatine 222	NT2	francium 227	NT2	lead 199
NT2	astatine 223	NT2	francium 228	NT2	lead 200
NT2	bismuth 186	NT2	francium 229	NT2	lead 201
NT2	bismuth 188	NT2	francium 230	NT2	lead 202
NT2	bismuth 189	NT2	francium 231	NT2	lead 203
NT2	bismuth 190	NT2	francium 232	NT2	lead 204
NT2	bismuth 191	NT2	gold 181	NT2	lead 205
NT2	bismuth 192	NT2	gold 182	NT2	lead 206
NT2	bismuth 193	NT2	gold 183	NT2	lead 207
NT2	bismuth 194	NT2	gold 184	NT2	lead 208
NT2	bismuth 195	NT2	gold 185	NT2	lead 209
NT2	bismuth 196	NT2	gold 186	NT2	lead 210
NT2	bismuth 197	NT2	gold 187	NT2	lead 211
NT2	bismuth 198	NT2	gold 188	NT2	lead 212
NT2	bismuth 199	NT2	gold 189	NT2	lead 213
NT2	bismuth 200	NT2	gold 190	NT2	lead 214
NT2	bismuth 201	NT2	gold 191	NT2	lead 215
NT2	bismuth 202	NT2	gold 192	NT2	lead 216
NT2	bismuth 203	NT2	gold 193	NT2	lutetium 181
NT2	bismuth 204	NT2	gold 194	NT2	lutetium 182
NT2	bismuth 205	NT2	gold 195	NT2	lutetium 183
NT2	bismuth 206	NT2	gold 196	NT2	lutetium 184
NT2	bismuth 207	NT2	gold 197	NT2	lutetium 187
NT2	bismuth 208	NT2	gold 198	NT2	meitnerium 266
NT2	bismuth 209	NT2	gold 199	NT2	meitnerium 268
NT2	bismuth 210	NT2	gold 200	NT2	mercury 181
NT2	bismuth 211	NT2	gold 201	NT2	mercury 182
NT2	bismuth 212	NT2	gold 202	NT2	mercury 183
NT2	bismuth 213	NT2	gold 203	NT2	mercury 184
NT2	bismuth 214	NT2	gold 204	NT2	mercury 185
NT2	bismuth 215	NT2	gold 205	NT2	mercury 186
NT2	bismuth 216	NT2	hafnium 181	NT2	mercury 187
NT2	bohrium 261	NT2	hafnium 182	NT2	mercury 188
NT2	bohrium 262	NT2	hafnium 183	NT2	mercury 189
NT2	bohrium 264	NT2	hafnium 184	NT2	mercury 190
NT2	bohrium 265	NT2	hafnium 185	NT2	mercury 191
NT2	bohrium 271	NT2	hafnium 186	NT2	mercury 192
NT2	darmstadtium 269	NT2	hassium 264	NT2	mercury 193
NT2	darmstadtium 270	NT2	hassium 265	NT2	mercury 194
NT2	darmstadtium 271	NT2	hassium 266	NT2	mercury 195
NT2	dubnium 255	NT2	hassium 267	NT2	mercury 196
NT2	dubnium 256	NT2	hassium 270	NT2	mercury 197
NT2	dubnium 257	NT2	hassium 271	NT2	mercury 198
NT2	dubnium 258	NT2	iridium 181	NT2	mercury 199
NT2	dubnium 259	NT2	iridium 182	NT2	mercury 200
NT2	dubnium 260	NT2	iridium 183	NT2	mercury 201
NT2	dubnium 261	NT2	iridium 184	NT2	mercury 202
NT2	dubnium 262	NT2	iridium 185	NT2	mercury 203
NT2	dubnium 263	NT2	iridium 186	NT2	mercury 204
NT2	element 112 277	NT2	iridium 187	NT2	mercury 205
NT2	element 112 283	NT2	iridium 188	NT2	mercury 206
NT2	francium 199	NT2	iridium 189	NT2	mercury 207
NT2	francium 200	NT2	iridium 190	NT2	mercury 208
NT2	francium 201	NT2	iridium 191	NT2	mercury 209
NT2	francium 202	NT2	iridium 192	NT2	mercury 210
NT2	francium 203	NT2	iridium 193	NT2	mercury 211
NT2	francium 204	NT2	iridium 194	NT2	mercury 212
NT2	francium 205	NT2	iridium 195	NT2	osmium 181
NT2	francium 206	NT2	iridium 196	NT2	osmium 182
NT2	francium 207	NT2	iridium 197	NT2	osmium 183
NT2	francium 208	NT2	iridium 198	NT2	osmium 184
NT2	francium 209	NT2	iridium 199	NT2	osmium 185
NT2	francium 210	NT2	lead 182	NT2	osmium 186
NT2	francium 211	NT2	lead 183	NT2	osmium 187
NT2	francium 212	NT2	lead 184	NT2	osmium 188

NT2	osmium 189	NT2	radium 219	NT2	seaborgium 265
NT2	osmium 190	NT2	radium 220	NT2	seaborgium 266
NT2	osmium 191	NT2	radium 221	NT2	tantalum 181
NT2	osmium 192	NT2	radium 222	NT2	tantalum 182
NT2	osmium 193	NT2	radium 223	NT2	tantalum 183
NT2	osmium 194	NT2	radium 224	NT2	tantalum 184
NT2	osmium 195	NT2	radium 225	NT2	tantalum 185
NT2	osmium 196	NT2	radium 226	NT2	tantalum 186
NT2	platinum 181	NT2	radium 227	NT2	thallium 182
NT2	platinum 182	NT2	radium 228	NT2	thallium 183
NT2	platinum 183	NT2	radium 229	NT2	thallium 184
NT2	platinum 184	NT2	radium 230	NT2	thallium 185
NT2	platinum 185	NT2	radium 231	NT2	thallium 186
NT2	platinum 186	NT2	radium 232	NT2	thallium 187
NT2	platinum 187	NT2	radium 233	NT2	thallium 188
NT2	platinum 188	NT2	radium 234	NT2	thallium 189
NT2	platinum 189	NT2	radon 196	NT2	thallium 190
NT2	platinum 190	NT2	radon 197	NT2	thallium 191
NT2	platinum 191	NT2	radon 199	NT2	thallium 192
NT2	platinum 192	NT2	radon 200	NT2	thallium 193
NT2	platinum 193	NT2	radon 201	NT2	thallium 194
NT2	platinum 194	NT2	radon 202	NT2	thallium 195
NT2	platinum 195	NT2	radon 203	NT2	thallium 196
NT2	platinum 196	NT2	radon 204	NT2	thallium 197
NT2	platinum 197	NT2	radon 205	NT2	thallium 198
NT2	platinum 198	NT2	radon 206	NT2	thallium 199
NT2	platinum 199	NT2	radon 207	NT2	thallium 200
NT2	platinum 200	NT2	radon 208	NT2	thallium 201
NT2	platinum 201	NT2	radon 209	NT2	thallium 202
NT2	platinum 202	NT2	radon 210	NT2	thallium 203
NT2	platinum 203	NT2	radon 211	NT2	thallium 204
NT2	platinum 204	NT2	radon 212	NT2	thallium 205
NT2	platinum 205	NT2	radon 213	NT2	thallium 206
NT2	platinum 206	NT2	radon 214	NT2	thallium 207
NT2	platinum 207	NT2	radon 215	NT2	thallium 208
NT2	platinum 208	NT2	radon 216	NT2	thallium 209
NT2	polonium 188	NT2	radon 217	NT2	thallium 210
NT2	polonium 190	NT2	radon 218	NT2	tungsten 181
NT2	polonium 192	NT2	radon 219	NT2	tungsten 182
NT2	polonium 193	NT2	radon 220	NT2	tungsten 183
NT2	polonium 194	NT2	radon 221	NT2	tungsten 184
NT2	polonium 195	NT2	radon 222	NT2	tungsten 185
NT2	polonium 196	NT2	radon 223	NT2	tungsten 186
NT2	polonium 197	NT2	radon 224	NT2	tungsten 187
NT2	polonium 198	NT2	radon 225	NT2	tungsten 188
NT2	polonium 199	NT2	radon 226	NT2	tungsten 189
NT2	polonium 200	NT2	radon 227	NT2	tungsten 190
NT2	polonium 201	NT2	radon 228	NT2	tungsten 192
NT2	polonium 202	NT2	rhodium 181	NT1	hot nuclei
NT2	polonium 203	NT2	rhodium 182	NT1	hypernuclei
NT2	polonium 204	NT2	rhodium 183	NT1	intermediate mass nuclei
NT2	polonium 205	NT2	rhodium 184	NT2	antimony 104
NT2	polonium 206	NT2	rhodium 185	NT2	antimony 105
NT2	polonium 207	NT2	rhodium 186	NT2	antimony 106
NT2	polonium 208	NT2	rhodium 187	NT2	antimony 107
NT2	polonium 209	NT2	rhodium 188	NT2	antimony 108
NT2	polonium 210	NT2	rhodium 189	NT2	antimony 109
NT2	polonium 211	NT2	rhodium 190	NT2	antimony 110
NT2	polonium 212	NT2	rhodium 191	NT2	antimony 111
NT2	polonium 213	NT2	rhodium 192	NT2	antimony 112
NT2	polonium 214	NT2	roentgenium 272	NT2	antimony 113
NT2	polonium 215	NT2	roentgenium 279	NT2	antimony 114
NT2	polonium 216	NT2	roentgenium 280	NT2	antimony 115
NT2	polonium 217	NT2	rutherfordium 253	NT2	antimony 116
NT2	polonium 218	NT2	rutherfordium 254	NT2	antimony 117
NT2	radium 205	NT2	rutherfordium 255	NT2	antimony 118
NT2	radium 206	NT2	rutherfordium 256	NT2	antimony 119
NT2	radium 207	NT2	rutherfordium 257	NT2	antimony 120
NT2	radium 208	NT2	rutherfordium 258	NT2	antimony 121
NT2	radium 209	NT2	rutherfordium 259	NT2	antimony 122
NT2	radium 210	NT2	rutherfordium 260	NT2	antimony 123
NT2	radium 211	NT2	rutherfordium 261	NT2	antimony 124
NT2	radium 212	NT2	rutherfordium 262	NT2	antimony 125
NT2	radium 213	NT2	rutherfordium 263	NT2	antimony 126
NT2	radium 214	NT2	seaborgium 259	NT2	antimony 127
NT2	radium 215	NT2	seaborgium 260	NT2	antimony 128
NT2	radium 216	NT2	seaborgium 261	NT2	antimony 129
NT2	radium 217	NT2	seaborgium 262	NT2	antimony 130
NT2	radium 218	NT2	seaborgium 263	NT2	antimony 131

NT2 antimony 132  
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NT2 argon 41  
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NT2 cobalt 67

NT2	cobalt 68	NT2	gold 172	NT2	iodine 115
NT2	cobalt 69	NT2	gold 173	NT2	iodine 116
NT2	cobalt 70	NT2	gold 174	NT2	iodine 117
NT2	copper 56	NT2	gold 175	NT2	iodine 118
NT2	copper 57	NT2	gold 176	NT2	iodine 119
NT2	copper 58	NT2	gold 177	NT2	iodine 120
NT2	copper 59	NT2	gold 178	NT2	iodine 121
NT2	copper 60	NT2	gold 179	NT2	iodine 122
NT2	copper 61	NT2	gold 180	NT2	iodine 123
NT2	copper 62	NT2	hafnium 154	NT2	iodine 124
NT2	copper 63	NT2	hafnium 155	NT2	iodine 125
NT2	copper 64	NT2	hafnium 156	NT2	iodine 126
NT2	copper 65	NT2	hafnium 157	NT2	iodine 127
NT2	copper 66	NT2	hafnium 158	NT2	iodine 128
NT2	copper 67	NT2	hafnium 159	NT2	iodine 129
NT2	copper 68	NT2	hafnium 160	NT2	iodine 130
NT2	copper 69	NT2	hafnium 161	NT2	iodine 131
NT2	copper 70	NT2	hafnium 162	NT2	iodine 132
NT2	copper 71	NT2	hafnium 163	NT2	iodine 133
NT2	copper 72	NT2	hafnium 164	NT2	iodine 134
NT2	copper 73	NT2	hafnium 165	NT2	iodine 135
NT2	copper 74	NT2	hafnium 166	NT2	iodine 136
NT2	copper 75	NT2	hafnium 167	NT2	iodine 137
NT2	copper 76	NT2	hafnium 168	NT2	iodine 138
NT2	copper 77	NT2	hafnium 169	NT2	iodine 139
NT2	copper 78	NT2	hafnium 170	NT2	iodine 140
NT2	copper 79	NT2	hafnium 171	NT2	iodine 141
NT2	erbium 146	NT2	hafnium 172	NT2	iodine 142
NT2	gallium 60	NT2	hafnium 173	NT2	iridium 166
NT2	gallium 61	NT2	hafnium 174	NT2	iridium 167
NT2	gallium 62	NT2	hafnium 175	NT2	iridium 168
NT2	gallium 63	NT2	hafnium 176	NT2	iridium 169
NT2	gallium 64	NT2	hafnium 177	NT2	iridium 170
NT2	gallium 65	NT2	hafnium 178	NT2	iridium 171
NT2	gallium 66	NT2	hafnium 179	NT2	iridium 172
NT2	gallium 67	NT2	hafnium 180	NT2	iridium 173
NT2	gallium 68	NT2	indium 100	NT2	iridium 174
NT2	gallium 69	NT2	indium 101	NT2	iridium 175
NT2	gallium 70	NT2	indium 102	NT2	iridium 176
NT2	gallium 71	NT2	indium 103	NT2	iridium 177
NT2	gallium 72	NT2	indium 104	NT2	iridium 178
NT2	gallium 73	NT2	indium 105	NT2	iridium 179
NT2	gallium 74	NT2	indium 106	NT2	iridium 180
NT2	gallium 75	NT2	indium 107	NT2	iron 45
NT2	gallium 76	NT2	indium 108	NT2	iron 46
NT2	gallium 77	NT2	indium 109	NT2	iron 47
NT2	gallium 78	NT2	indium 110	NT2	iron 48
NT2	gallium 79	NT2	indium 111	NT2	iron 49
NT2	gallium 80	NT2	indium 112	NT2	iron 50
NT2	gallium 81	NT2	indium 113	NT2	iron 51
NT2	gallium 82	NT2	indium 114	NT2	iron 52
NT2	gallium 83	NT2	indium 115	NT2	iron 53
NT2	gallium 84	NT2	indium 116	NT2	iron 54
NT2	germanium 61	NT2	indium 117	NT2	iron 55
NT2	germanium 62	NT2	indium 118	NT2	iron 56
NT2	germanium 64	NT2	indium 119	NT2	iron 57
NT2	germanium 65	NT2	indium 120	NT2	iron 58
NT2	germanium 66	NT2	indium 121	NT2	iron 59
NT2	germanium 67	NT2	indium 122	NT2	iron 60
NT2	germanium 68	NT2	indium 123	NT2	iron 61
NT2	germanium 69	NT2	indium 124	NT2	iron 62
NT2	germanium 70	NT2	indium 125	NT2	iron 63
NT2	germanium 71	NT2	indium 126	NT2	iron 64
NT2	germanium 72	NT2	indium 127	NT2	iron 65
NT2	germanium 73	NT2	indium 128	NT2	iron 66
NT2	germanium 74	NT2	indium 129	NT2	iron 67
NT2	germanium 75	NT2	indium 130	NT2	iron 68
NT2	germanium 76	NT2	indium 131	NT2	krypton 69
NT2	germanium 77	NT2	indium 132	NT2	krypton 70
NT2	germanium 78	NT2	indium 133	NT2	krypton 71
NT2	germanium 79	NT2	indium 134	NT2	krypton 72
NT2	germanium 80	NT2	indium 135	NT2	krypton 73
NT2	germanium 81	NT2	iodine 108	NT2	krypton 74
NT2	germanium 82	NT2	iodine 109	NT2	krypton 75
NT2	germanium 83	NT2	iodine 110	NT2	krypton 76
NT2	germanium 84	NT2	iodine 111	NT2	krypton 77
NT2	germanium 85	NT2	iodine 112	NT2	krypton 78
NT2	gold 170	NT2	iodine 113	NT2	krypton 79
NT2	gold 171	NT2	iodine 114	NT2	krypton 80

NT2	krypton 81	NT2	nickel 56	NT2	palladium 115
NT2	krypton 82	NT2	nickel 57	NT2	palladium 116
NT2	krypton 83	NT2	nickel 58	NT2	palladium 117
NT2	krypton 84	NT2	nickel 59	NT2	palladium 118
NT2	krypton 85	NT2	nickel 60	NT2	palladium 119
NT2	krypton 86	NT2	nickel 61	NT2	palladium 120
NT2	krypton 87	NT2	nickel 62	NT2	palladium 93
NT2	krypton 88	NT2	nickel 63	NT2	palladium 94
NT2	krypton 89	NT2	nickel 64	NT2	palladium 95
NT2	krypton 90	NT2	nickel 65	NT2	palladium 96
NT2	krypton 91	NT2	nickel 66	NT2	palladium 97
NT2	krypton 92	NT2	nickel 67	NT2	palladium 98
NT2	krypton 93	NT2	nickel 68	NT2	palladium 99
NT2	krypton 94	NT2	nickel 69	NT2	phosphorus 41
NT2	krypton 95	NT2	nickel 70	NT2	phosphorus 42
NT2	krypton 96	NT2	nickel 71	NT2	phosphorus 43
NT2	krypton 97	NT2	nickel 72	NT2	phosphorus 44
NT2	krypton 98	NT2	nickel 73	NT2	phosphorus 45
NT2	lead 180	NT2	nickel 74	NT2	phosphorus 46
NT2	manganese 44	NT2	nickel 78	NT2	platinum 168
NT2	manganese 46	NT2	niobium 100	NT2	platinum 169
NT2	manganese 47	NT2	niobium 101	NT2	platinum 170
NT2	manganese 48	NT2	niobium 102	NT2	platinum 171
NT2	manganese 49	NT2	niobium 103	NT2	platinum 172
NT2	manganese 50	NT2	niobium 104	NT2	platinum 173
NT2	manganese 51	NT2	niobium 105	NT2	platinum 174
NT2	manganese 52	NT2	niobium 106	NT2	platinum 175
NT2	manganese 53	NT2	niobium 108	NT2	platinum 176
NT2	manganese 54	NT2	niobium 83	NT2	platinum 177
NT2	manganese 55	NT2	niobium 84	NT2	platinum 178
NT2	manganese 56	NT2	niobium 85	NT2	platinum 179
NT2	manganese 57	NT2	niobium 86	NT2	platinum 180
NT2	manganese 58	NT2	niobium 87	NT2	potassium 41
NT2	manganese 59	NT2	niobium 88	NT2	potassium 42
NT2	manganese 60	NT2	niobium 89	NT2	potassium 43
NT2	manganese 61	NT2	niobium 90	NT2	potassium 44
NT2	manganese 62	NT2	niobium 91	NT2	potassium 45
NT2	manganese 63	NT2	niobium 92	NT2	potassium 46
NT2	manganese 64	NT2	niobium 93	NT2	potassium 47
NT2	manganese 65	NT2	niobium 94	NT2	potassium 48
NT2	mercury 175	NT2	niobium 95	NT2	potassium 49
NT2	mercury 176	NT2	niobium 96	NT2	potassium 50
NT2	mercury 177	NT2	niobium 97	NT2	potassium 51
NT2	mercury 178	NT2	niobium 98	NT2	potassium 52
NT2	mercury 179	NT2	niobium 99	NT2	potassium 53
NT2	mercury 180	NT2	osmium 162	NT2	potassium 54
NT2	molybdenum 100	NT2	osmium 163	NT2	rare earth nuclei
NT2	molybdenum 101	NT2	osmium 164	NT3	cerium 121
NT2	molybdenum 102	NT2	osmium 165	NT3	cerium 123
NT2	molybdenum 103	NT2	osmium 166	NT3	cerium 124
NT2	molybdenum 104	NT2	osmium 167	NT3	cerium 125
NT2	molybdenum 105	NT2	osmium 168	NT3	cerium 126
NT2	molybdenum 106	NT2	osmium 169	NT3	cerium 127
NT2	molybdenum 107	NT2	osmium 170	NT3	cerium 128
NT2	molybdenum 108	NT2	osmium 171	NT3	cerium 129
NT2	molybdenum 109	NT2	osmium 172	NT3	cerium 130
NT2	molybdenum 110	NT2	osmium 173	NT3	cerium 131
NT2	molybdenum 84	NT2	osmium 174	NT3	cerium 132
NT2	molybdenum 85	NT2	osmium 175	NT3	cerium 133
NT2	molybdenum 86	NT2	osmium 176	NT3	cerium 134
NT2	molybdenum 87	NT2	osmium 177	NT3	cerium 135
NT2	molybdenum 88	NT2	osmium 178	NT3	cerium 136
NT2	molybdenum 89	NT2	osmium 179	NT3	cerium 137
NT2	molybdenum 90	NT2	osmium 180	NT3	cerium 138
NT2	molybdenum 91	NT2	palladium 100	NT3	cerium 139
NT2	molybdenum 92	NT2	palladium 101	NT3	cerium 140
NT2	molybdenum 93	NT2	palladium 102	NT3	cerium 141
NT2	molybdenum 94	NT2	palladium 103	NT3	cerium 142
NT2	molybdenum 95	NT2	palladium 104	NT3	cerium 143
NT2	molybdenum 96	NT2	palladium 105	NT3	cerium 144
NT2	molybdenum 97	NT2	palladium 106	NT3	cerium 145
NT2	molybdenum 98	NT2	palladium 107	NT3	cerium 146
NT2	molybdenum 99	NT2	palladium 108	NT3	cerium 147
NT2	nickel 49	NT2	palladium 109	NT3	cerium 148
NT2	nickel 50	NT2	palladium 110	NT3	cerium 149
NT2	nickel 52	NT2	palladium 111	NT3	cerium 150
NT2	nickel 53	NT2	palladium 112	NT3	cerium 151
NT2	nickel 54	NT2	palladium 113	NT3	cerium 152
NT2	nickel 55	NT2	palladium 114	NT3	dysprosium 140

NT3	dysprosium 141	NT3	europium 152	NT3	lanthanum 127
NT3	dysprosium 142	NT3	europium 153	NT3	lanthanum 128
NT3	dysprosium 143	NT3	europium 154	NT3	lanthanum 129
NT3	dysprosium 144	NT3	europium 155	NT3	lanthanum 130
NT3	dysprosium 145	NT3	europium 156	NT3	lanthanum 131
NT3	dysprosium 146	NT3	europium 157	NT3	lanthanum 132
NT3	dysprosium 147	NT3	europium 158	NT3	lanthanum 133
NT3	dysprosium 148	NT3	europium 159	NT3	lanthanum 134
NT3	dysprosium 149	NT3	europium 160	NT3	lanthanum 135
NT3	dysprosium 150	NT3	europium 161	NT3	lanthanum 136
NT3	dysprosium 151	NT3	europium 162	NT3	lanthanum 137
NT3	dysprosium 152	NT3	gadolinium 135	NT3	lanthanum 138
NT3	dysprosium 153	NT3	gadolinium 137	NT3	lanthanum 139
NT3	dysprosium 154	NT3	gadolinium 138	NT3	lanthanum 140
NT3	dysprosium 155	NT3	gadolinium 139	NT3	lanthanum 141
NT3	dysprosium 156	NT3	gadolinium 140	NT3	lanthanum 142
NT3	dysprosium 157	NT3	gadolinium 141	NT3	lanthanum 143
NT3	dysprosium 158	NT3	gadolinium 142	NT3	lanthanum 144
NT3	dysprosium 159	NT3	gadolinium 143	NT3	lanthanum 145
NT3	dysprosium 160	NT3	gadolinium 144	NT3	lanthanum 146
NT3	dysprosium 161	NT3	gadolinium 145	NT3	lanthanum 147
NT3	dysprosium 162	NT3	gadolinium 146	NT3	lanthanum 148
NT3	dysprosium 163	NT3	gadolinium 147	NT3	lanthanum 149
NT3	dysprosium 164	NT3	gadolinium 148	NT3	lanthanum 150
NT3	dysprosium 165	NT3	gadolinium 149	NT3	lutetium 151
NT3	dysprosium 166	NT3	gadolinium 150	NT3	lutetium 152
NT3	dysprosium 167	NT3	gadolinium 151	NT3	lutetium 153
NT3	dysprosium 168	NT3	gadolinium 152	NT3	lutetium 154
NT3	dysprosium 169	NT3	gadolinium 153	NT3	lutetium 155
NT3	erbium 145	NT3	gadolinium 154	NT3	lutetium 156
NT3	erbium 147	NT3	gadolinium 155	NT3	lutetium 157
NT3	erbium 148	NT3	gadolinium 156	NT3	lutetium 158
NT3	erbium 149	NT3	gadolinium 157	NT3	lutetium 159
NT3	erbium 150	NT3	gadolinium 158	NT3	lutetium 160
NT3	erbium 151	NT3	gadolinium 159	NT3	lutetium 161
NT3	erbium 152	NT3	gadolinium 160	NT3	lutetium 162
NT3	erbium 153	NT3	gadolinium 161	NT3	lutetium 163
NT3	erbium 154	NT3	gadolinium 162	NT3	lutetium 164
NT3	erbium 155	NT3	gadolinium 163	NT3	lutetium 165
NT3	erbium 156	NT3	gadolinium 164	NT3	lutetium 166
NT3	erbium 157	NT3	gadolinium 165	NT3	lutetium 167
NT3	erbium 158	NT3	holmium 141	NT3	lutetium 168
NT3	erbium 159	NT3	holmium 143	NT3	lutetium 169
NT3	erbium 160	NT3	holmium 144	NT3	lutetium 170
NT3	erbium 161	NT3	holmium 145	NT3	lutetium 171
NT3	erbium 162	NT3	holmium 146	NT3	lutetium 172
NT3	erbium 163	NT3	holmium 147	NT3	lutetium 173
NT3	erbium 164	NT3	holmium 148	NT3	lutetium 174
NT3	erbium 165	NT3	holmium 149	NT3	lutetium 175
NT3	erbium 166	NT3	holmium 150	NT3	lutetium 176
NT3	erbium 167	NT3	holmium 151	NT3	lutetium 177
NT3	erbium 168	NT3	holmium 152	NT3	lutetium 178
NT3	erbium 169	NT3	holmium 153	NT3	lutetium 179
NT3	erbium 170	NT3	holmium 154	NT3	lutetium 180
NT3	erbium 171	NT3	holmium 155	NT3	lutetium 181
NT3	erbium 172	NT3	holmium 156	NT3	lutetium 182
NT3	erbium 173	NT3	holmium 157	NT3	lutetium 183
NT3	erbium 174	NT3	holmium 158	NT3	lutetium 184
NT3	erbium 175	NT3	holmium 159	NT3	neodymium 125
NT3	europium 130	NT3	holmium 160	NT3	neodymium 127
NT3	europium 131	NT3	holmium 161	NT3	neodymium 128
NT3	europium 134	NT3	holmium 162	NT3	neodymium 129
NT3	europium 135	NT3	holmium 163	NT3	neodymium 130
NT3	europium 136	NT3	holmium 164	NT3	neodymium 131
NT3	europium 137	NT3	holmium 165	NT3	neodymium 132
NT3	europium 138	NT3	holmium 166	NT3	neodymium 133
NT3	europium 139	NT3	holmium 167	NT3	neodymium 134
NT3	europium 140	NT3	holmium 168	NT3	neodymium 135
NT3	europium 141	NT3	holmium 169	NT3	neodymium 136
NT3	europium 142	NT3	holmium 170	NT3	neodymium 137
NT3	europium 143	NT3	holmium 171	NT3	neodymium 138
NT3	europium 144	NT3	holmium 172	NT3	neodymium 139
NT3	europium 145	NT3	lanthanum 120	NT3	neodymium 140
NT3	europium 146	NT3	lanthanum 121	NT3	neodymium 141
NT3	europium 147	NT3	lanthanum 122	NT3	neodymium 142
NT3	europium 148	NT3	lanthanum 123	NT3	neodymium 143
NT3	europium 149	NT3	lanthanum 124	NT3	neodymium 144
NT3	europium 150	NT3	lanthanum 125	NT3	neodymium 145
NT3	europium 151	NT3	lanthanum 126	NT3	neodymium 146



NT3 neodymium 147  
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 NT2 rhodium 94

NT2	rhodium 95	NT2	scandium 58	NT2	strontium 92
NT2	rhodium 96	NT2	selenium 65	NT2	strontium 93
NT2	rhodium 97	NT2	selenium 66	NT2	strontium 94
NT2	rhodium 98	NT2	selenium 67	NT2	strontium 95
NT2	rhodium 99	NT2	selenium 68	NT2	strontium 96
NT2	rubidium 100	NT2	selenium 69	NT2	strontium 97
NT2	rubidium 101	NT2	selenium 70	NT2	strontium 98
NT2	rubidium 102	NT2	selenium 71	NT2	strontium 99
NT2	rubidium 103	NT2	selenium 72	NT2	sulfur 41
NT2	rubidium 73	NT2	selenium 73	NT2	sulfur 42
NT2	rubidium 74	NT2	selenium 74	NT2	sulfur 43
NT2	rubidium 75	NT2	selenium 75	NT2	sulfur 44
NT2	rubidium 76	NT2	selenium 76	NT2	sulfur 45
NT2	rubidium 77	NT2	selenium 77	NT2	sulfur 46
NT2	rubidium 78	NT2	selenium 78	NT2	sulfur 47
NT2	rubidium 79	NT2	selenium 79	NT2	sulfur 48
NT2	rubidium 80	NT2	selenium 80	NT2	tantalum 156
NT2	rubidium 81	NT2	selenium 81	NT2	tantalum 157
NT2	rubidium 82	NT2	selenium 82	NT2	tantalum 158
NT2	rubidium 83	NT2	selenium 83	NT2	tantalum 159
NT2	rubidium 84	NT2	selenium 84	NT2	tantalum 160
NT2	rubidium 85	NT2	selenium 85	NT2	tantalum 161
NT2	rubidium 86	NT2	selenium 86	NT2	tantalum 162
NT2	rubidium 87	NT2	selenium 87	NT2	tantalum 163
NT2	rubidium 88	NT2	selenium 88	NT2	tantalum 164
NT2	rubidium 89	NT2	selenium 89	NT2	tantalum 165
NT2	rubidium 90	NT2	selenium 91	NT2	tantalum 166
NT2	rubidium 91	NT2	silicon 41	NT2	tantalum 167
NT2	rubidium 92	NT2	silicon 42	NT2	tantalum 168
NT2	rubidium 93	NT2	silver 100	NT2	tantalum 169
NT2	rubidium 94	NT2	silver 101	NT2	tantalum 170
NT2	rubidium 95	NT2	silver 102	NT2	tantalum 171
NT2	rubidium 96	NT2	silver 103	NT2	tantalum 172
NT2	rubidium 97	NT2	silver 104	NT2	tantalum 173
NT2	rubidium 98	NT2	silver 105	NT2	tantalum 174
NT2	rubidium 99	NT2	silver 106	NT2	tantalum 175
NT2	ruthenium 100	NT2	silver 107	NT2	tantalum 176
NT2	ruthenium 101	NT2	silver 108	NT2	tantalum 177
NT2	ruthenium 102	NT2	silver 109	NT2	tantalum 178
NT2	ruthenium 103	NT2	silver 110	NT2	tantalum 179
NT2	ruthenium 104	NT2	silver 111	NT2	tantalum 180
NT2	ruthenium 105	NT2	silver 112	NT2	technetium 100
NT2	ruthenium 106	NT2	silver 113	NT2	technetium 101
NT2	ruthenium 107	NT2	silver 114	NT2	technetium 102
NT2	ruthenium 108	NT2	silver 115	NT2	technetium 103
NT2	ruthenium 109	NT2	silver 116	NT2	technetium 104
NT2	ruthenium 110	NT2	silver 117	NT2	technetium 105
NT2	ruthenium 111	NT2	silver 118	NT2	technetium 106
NT2	ruthenium 112	NT2	silver 119	NT2	technetium 107
NT2	ruthenium 113	NT2	silver 120	NT2	technetium 108
NT2	ruthenium 114	NT2	silver 121	NT2	technetium 109
NT2	ruthenium 88	NT2	silver 122	NT2	technetium 110
NT2	ruthenium 89	NT2	silver 123	NT2	technetium 111
NT2	ruthenium 90	NT2	silver 94	NT2	technetium 112
NT2	ruthenium 91	NT2	silver 95	NT2	technetium 113
NT2	ruthenium 92	NT2	silver 96	NT2	technetium 88
NT2	ruthenium 93	NT2	silver 97	NT2	technetium 89
NT2	ruthenium 94	NT2	silver 98	NT2	technetium 90
NT2	ruthenium 95	NT2	silver 99	NT2	technetium 91
NT2	ruthenium 96	NT2	strontium 100	NT2	technetium 92
NT2	ruthenium 97	NT2	strontium 101	NT2	technetium 93
NT2	ruthenium 98	NT2	strontium 102	NT2	technetium 94
NT2	ruthenium 99	NT2	strontium 75	NT2	technetium 95
NT2	scandium 41	NT2	strontium 76	NT2	technetium 96
NT2	scandium 42	NT2	strontium 77	NT2	technetium 97
NT2	scandium 43	NT2	strontium 78	NT2	technetium 98
NT2	scandium 44	NT2	strontium 79	NT2	technetium 99
NT2	scandium 45	NT2	strontium 80	NT2	tellurium 106
NT2	scandium 46	NT2	strontium 81	NT2	tellurium 107
NT2	scandium 47	NT2	strontium 82	NT2	tellurium 108
NT2	scandium 48	NT2	strontium 83	NT2	tellurium 109
NT2	scandium 49	NT2	strontium 84	NT2	tellurium 110
NT2	scandium 50	NT2	strontium 85	NT2	tellurium 111
NT2	scandium 51	NT2	strontium 86	NT2	tellurium 112
NT2	scandium 52	NT2	strontium 87	NT2	tellurium 113
NT2	scandium 53	NT2	strontium 88	NT2	tellurium 114
NT2	scandium 54	NT2	strontium 89	NT2	tellurium 115
NT2	scandium 55	NT2	strontium 90	NT2	tellurium 116
NT2	scandium 57	NT2	strontium 91	NT2	tellurium 117

NT2 tellurium 118	NT2 tungsten 158	NT2 xenon 144
NT2 tellurium 119	NT2 tungsten 159	NT2 xenon 145
NT2 tellurium 120	NT2 tungsten 160	NT2 xenon 146
NT2 tellurium 121	NT2 tungsten 161	NT2 yttrium 100
NT2 tellurium 122	NT2 tungsten 162	NT2 yttrium 101
NT2 tellurium 123	NT2 tungsten 163	NT2 yttrium 102
NT2 tellurium 124	NT2 tungsten 164	NT2 yttrium 103
NT2 tellurium 125	NT2 tungsten 165	NT2 yttrium 77
NT2 tellurium 126	NT2 tungsten 166	NT2 yttrium 79
NT2 tellurium 127	NT2 tungsten 167	NT2 yttrium 80
NT2 tellurium 128	NT2 tungsten 168	NT2 yttrium 81
NT2 tellurium 129	NT2 tungsten 169	NT2 yttrium 82
NT2 tellurium 130	NT2 tungsten 170	NT2 yttrium 83
NT2 tellurium 131	NT2 tungsten 171	NT2 yttrium 84
NT2 tellurium 132	NT2 tungsten 172	NT2 yttrium 85
NT2 tellurium 133	NT2 tungsten 173	NT2 yttrium 86
NT2 tellurium 134	NT2 tungsten 174	NT2 yttrium 87
NT2 tellurium 135	NT2 tungsten 175	NT2 yttrium 88
NT2 tellurium 136	NT2 tungsten 176	NT2 yttrium 89
NT2 tellurium 137	NT2 tungsten 177	NT2 yttrium 90
NT2 tellurium 138	NT2 tungsten 178	NT2 yttrium 91
NT2 thallium 179	NT2 tungsten 179	NT2 yttrium 92
NT2 tin 100	NT2 tungsten 180	NT2 yttrium 93
NT2 tin 101	NT2 vanadium 42	NT2 yttrium 94
NT2 tin 102	NT2 vanadium 43	NT2 yttrium 95
NT2 tin 103	NT2 vanadium 44	NT2 yttrium 96
NT2 tin 104	NT2 vanadium 45	NT2 yttrium 97
NT2 tin 105	NT2 vanadium 46	NT2 yttrium 98
NT2 tin 106	NT2 vanadium 47	NT2 yttrium 99
NT2 tin 107	NT2 vanadium 48	NT2 zinc 57
NT2 tin 108	NT2 vanadium 49	NT2 zinc 58
NT2 tin 109	NT2 vanadium 50	NT2 zinc 59
NT2 tin 110	NT2 vanadium 51	NT2 zinc 60
NT2 tin 111	NT2 vanadium 52	NT2 zinc 61
NT2 tin 112	NT2 vanadium 53	NT2 zinc 62
NT2 tin 113	NT2 vanadium 54	NT2 zinc 63
NT2 tin 114	NT2 vanadium 55	NT2 zinc 64
NT2 tin 115	NT2 vanadium 56	NT2 zinc 65
NT2 tin 116	NT2 vanadium 57	NT2 zinc 66
NT2 tin 117	NT2 vanadium 58	NT2 zinc 67
NT2 tin 118	NT2 vanadium 59	NT2 zinc 68
NT2 tin 119	NT2 vanadium 60	NT2 zinc 69
NT2 tin 120	NT2 vanadium 61	NT2 zinc 70
NT2 tin 121	NT2 vanadium 62	NT2 zinc 71
NT2 tin 122	NT2 vanadium 63	NT2 zinc 72
NT2 tin 123	NT2 xenon 110	NT2 zinc 73
NT2 tin 124	NT2 xenon 111	NT2 zinc 74
NT2 tin 125	NT2 xenon 112	NT2 zinc 75
NT2 tin 126	NT2 xenon 113	NT2 zinc 76
NT2 tin 127	NT2 xenon 114	NT2 zinc 77
NT2 tin 128	NT2 xenon 115	NT2 zinc 78
NT2 tin 129	NT2 xenon 116	NT2 zinc 79
NT2 tin 130	NT2 xenon 117	NT2 zinc 80
NT2 tin 131	NT2 xenon 118	NT2 zinc 81
NT2 tin 132	NT2 xenon 119	NT2 zirconium 100
NT2 tin 133	NT2 xenon 120	NT2 zirconium 101
NT2 tin 134	NT2 xenon 121	NT2 zirconium 102
NT2 tin 135	NT2 xenon 122	NT2 zirconium 103
NT2 tin 137	NT2 xenon 123	NT2 zirconium 104
NT2 titanium 41	NT2 xenon 124	NT2 zirconium 105
NT2 titanium 42	NT2 xenon 125	NT2 zirconium 109
NT2 titanium 43	NT2 xenon 126	NT2 zirconium 80
NT2 titanium 44	NT2 xenon 127	NT2 zirconium 81
NT2 titanium 45	NT2 xenon 128	NT2 zirconium 82
NT2 titanium 46	NT2 xenon 129	NT2 zirconium 83
NT2 titanium 47	NT2 xenon 130	NT2 zirconium 84
NT2 titanium 48	NT2 xenon 131	NT2 zirconium 85
NT2 titanium 49	NT2 xenon 132	NT2 zirconium 86
NT2 titanium 50	NT2 xenon 133	NT2 zirconium 87
NT2 titanium 51	NT2 xenon 134	NT2 zirconium 88
NT2 titanium 52	NT2 xenon 135	NT2 zirconium 89
NT2 titanium 53	NT2 xenon 136	NT2 zirconium 90
NT2 titanium 54	NT2 xenon 137	NT2 zirconium 91
NT2 titanium 55	NT2 xenon 138	NT2 zirconium 92
NT2 titanium 56	NT2 xenon 139	NT2 zirconium 93
NT2 titanium 57	NT2 xenon 140	NT2 zirconium 94
NT2 titanium 58	NT2 xenon 141	NT2 zirconium 95
NT2 titanium 59	NT2 xenon 142	NT2 zirconium 96
NT2 titanium 60	NT2 xenon 143	NT2 zirconium 97

NT2	zirconium 98	NT2	chlorine 32	NT2	neon 20
NT2	zirconium 99	NT2	chlorine 33	NT2	neon 21
NT1	isobaric nuclei	NT2	chlorine 34	NT2	neon 22
NT1	isomeric nuclei	NT2	chlorine 35	NT2	neon 23
NT1	isotonic nuclei	NT2	chlorine 36	NT2	neon 24
NT1	light nuclei	NT2	chlorine 37	NT2	neon 25
NT2	aluminium 22	NT2	chlorine 38	NT2	neon 26
NT2	aluminium 23	NT2	chlorine 39	NT2	neon 27
NT2	aluminium 24	NT2	chlorine 40	NT2	neon 28
NT2	aluminium 25	NT2	deuterium	NT2	neon 29
NT2	aluminium 26	NT2	fluorine 14	NT2	neon 30
NT2	aluminium 27	NT2	fluorine 15	NT2	neon 32
NT2	aluminium 28	NT2	fluorine 16	NT2	nitrogen 11
NT2	aluminium 29	NT2	fluorine 17	NT2	nitrogen 12
NT2	aluminium 30	NT2	fluorine 18	NT2	nitrogen 13
NT2	aluminium 31	NT2	fluorine 19	NT2	nitrogen 14
NT2	aluminium 32	NT2	fluorine 20	NT2	nitrogen 15
NT2	aluminium 33	NT2	fluorine 21	NT2	nitrogen 16
NT2	aluminium 34	NT2	fluorine 22	NT2	nitrogen 17
NT2	aluminium 35	NT2	fluorine 23	NT2	nitrogen 18
NT2	aluminium 36	NT2	fluorine 24	NT2	nitrogen 19
NT2	aluminium 37	NT2	fluorine 25	NT2	nitrogen 20
NT2	aluminium 38	NT2	fluorine 26	NT2	nitrogen 21
NT2	aluminium 39	NT2	fluorine 27	NT2	nitrogen 22
NT2	aluminium 40	NT2	fluorine 29	NT2	nitrogen 23
NT2	argon 31	NT2	helium 10	NT2	oxygen 12
NT2	argon 32	NT2	helium 2	NT2	oxygen 13
NT2	argon 33	NT2	helium 3	NT2	oxygen 14
NT2	argon 34	NT3	helium 3 a	NT2	oxygen 15
NT2	argon 35	NT3	helium 3 a1	NT2	oxygen 16
NT2	argon 36	NT3	helium 3 b	NT2	oxygen 17
NT2	argon 37	NT2	helium 4	NT2	oxygen 18
NT2	argon 38	NT3	helium i	NT2	oxygen 19
NT2	argon 39	NT3	helium ii	NT2	oxygen 20
NT2	argon 40	NT2	helium 5	NT2	oxygen 21
NT2	beryllium 10	NT2	helium 6	NT2	oxygen 22
NT2	beryllium 11	NT2	helium 7	NT2	oxygen 23
NT2	beryllium 12	NT2	helium 8	NT2	oxygen 24
NT2	beryllium 13	NT2	helium 9	NT2	oxygen 28
NT2	beryllium 14	NT2	hydrogen 1	NT2	phosphorus 21
NT2	beryllium 5	NT2	hydrogen 4	NT2	phosphorus 24
NT2	beryllium 6	NT2	hydrogen 5	NT2	phosphorus 25
NT2	beryllium 7	NT2	hydrogen 6	NT2	phosphorus 26
NT2	beryllium 8	NT2	hydrogen 7	NT2	phosphorus 27
NT2	beryllium 9	NT2	lithium 10	NT2	phosphorus 28
NT2	boron 10	NT2	lithium 11	NT2	phosphorus 29
NT2	boron 11	NT2	lithium 12	NT2	phosphorus 30
NT2	boron 12	NT2	lithium 13	NT2	phosphorus 31
NT2	boron 13	NT2	lithium 3	NT2	phosphorus 32
NT2	boron 14	NT2	lithium 4	NT2	phosphorus 33
NT2	boron 15	NT2	lithium 5	NT2	phosphorus 34
NT2	boron 16	NT2	lithium 6	NT2	phosphorus 35
NT2	boron 17	NT2	lithium 7	NT2	phosphorus 36
NT2	boron 18	NT2	lithium 8	NT2	phosphorus 37
NT2	boron 19	NT2	lithium 9	NT2	phosphorus 38
NT2	boron 7	NT2	magnesium 19	NT2	phosphorus 39
NT2	boron 8	NT2	magnesium 20	NT2	phosphorus 40
NT2	boron 9	NT2	magnesium 21	NT2	potassium 35
NT2	calcium 35	NT2	magnesium 22	NT2	potassium 36
NT2	calcium 36	NT2	magnesium 23	NT2	potassium 37
NT2	calcium 37	NT2	magnesium 24	NT2	potassium 38
NT2	calcium 38	NT2	magnesium 25	NT2	potassium 39
NT2	calcium 39	NT2	magnesium 26	NT2	potassium 40
NT2	calcium 40	NT2	magnesium 27	NT2	scandium 39
NT2	carbon 10	NT2	magnesium 28	NT2	scandium 40
NT2	carbon 11	NT2	magnesium 29	NT2	silicon 22
NT2	carbon 12	NT2	magnesium 30	NT2	silicon 23
NT2	carbon 13	NT2	magnesium 31	NT2	silicon 24
NT2	carbon 14	NT2	magnesium 32	NT2	silicon 25
NT2	carbon 15	NT2	magnesium 33	NT2	silicon 26
NT2	carbon 16	NT2	magnesium 34	NT2	silicon 27
NT2	carbon 17	NT2	magnesium 35	NT2	silicon 28
NT2	carbon 18	NT2	magnesium 36	NT2	silicon 29
NT2	carbon 19	NT2	magnesium 39	NT2	silicon 30
NT2	carbon 20	NT2	magnesium 40	NT2	silicon 31
NT2	carbon 22	NT2	neon 16	NT2	silicon 32
NT2	carbon 8	NT2	neon 17	NT2	silicon 33
NT2	carbon 9	NT2	neon 18	NT2	silicon 34
NT2	chlorine 31	NT2	neon 19	NT2	silicon 35

NT2	silicon 36	NT2	antimony 115	NT2	bromine 87
NT2	silicon 37	NT2	antimony 117	NT2	bromine 89
NT2	silicon 38	NT2	antimony 119	NT2	bromine 91
NT2	silicon 39	NT2	antimony 121	NT2	bromine 93
NT2	silicon 40	NT2	antimony 123	NT2	cesium 113
NT2	sodium 19	NT2	antimony 125	NT2	cesium 115
NT2	sodium 20	NT2	antimony 127	NT2	cesium 117
NT2	sodium 21	NT2	antimony 129	NT2	cesium 119
NT2	sodium 22	NT2	antimony 131	NT2	cesium 121
NT2	sodium 23	NT2	antimony 133	NT2	cesium 123
NT2	sodium 24	NT2	antimony 135	NT2	cesium 125
NT2	sodium 25	NT2	arsenic 65	NT2	cesium 127
NT2	sodium 26	NT2	arsenic 67	NT2	cesium 129
NT2	sodium 27	NT2	arsenic 69	NT2	cesium 131
NT2	sodium 28	NT2	arsenic 71	NT2	cesium 133
NT2	sodium 29	NT2	arsenic 73	NT2	cesium 135
NT2	sodium 30	NT2	arsenic 75	NT2	cesium 137
NT2	sodium 31	NT2	arsenic 77	NT2	cesium 139
NT2	sodium 32	NT2	arsenic 79	NT2	cesium 141
NT2	sodium 33	NT2	arsenic 81	NT2	cesium 143
NT2	sodium 34	NT2	arsenic 83	NT2	cesium 145
NT2	sodium 35	NT2	arsenic 85	NT2	cesium 147
NT2	sulfur 24	NT2	arsenic 87	NT2	cesium 149
NT2	sulfur 27	NT2	astatine 191	NT2	chlorine 31
NT2	sulfur 28	NT2	astatine 193	NT2	chlorine 33
NT2	sulfur 29	NT2	astatine 195	NT2	chlorine 35
NT2	sulfur 30	NT2	astatine 197	NT2	chlorine 37
NT2	sulfur 31	NT2	astatine 199	NT2	chlorine 39
NT2	sulfur 32	NT2	astatine 201	NT2	chlorine 41
NT2	sulfur 33	NT2	astatine 203	NT2	chlorine 43
NT2	sulfur 34	NT2	astatine 205	NT2	chlorine 45
NT2	sulfur 35	NT2	astatine 207	NT2	chlorine 47
NT2	sulfur 36	NT2	astatine 209	NT2	chlorine 49
NT2	sulfur 37	NT2	astatine 211	NT2	chlorine 51
NT2	sulfur 38	NT2	astatine 213	NT2	cobalt 53
NT2	sulfur 39	NT2	astatine 215	NT2	cobalt 55
NT2	sulfur 40	NT2	astatine 217	NT2	cobalt 57
NT2	titanium 39	NT2	astatine 219	NT2	cobalt 59
NT2	titanium 40	NT2	astatine 221	NT2	cobalt 61
NT2	tritium	NT2	astatine 223	NT2	cobalt 63
NT1	magic nuclei	NT2	berkelium 241	NT2	cobalt 65
NT1	mirror nuclei	NT2	berkelium 243	NT2	cobalt 67
NT1	odd-even nuclei	NT2	berkelium 245	NT2	cobalt 69
NT2	actinium 207	NT2	berkelium 247	NT2	copper 57
NT2	actinium 209	NT2	berkelium 249	NT2	copper 59
NT2	actinium 211	NT2	berkelium 251	NT2	copper 61
NT2	actinium 213	NT2	bismuth 189	NT2	copper 63
NT2	actinium 215	NT2	bismuth 191	NT2	copper 65
NT2	actinium 217	NT2	bismuth 193	NT2	copper 67
NT2	actinium 219	NT2	bismuth 195	NT2	copper 69
NT2	actinium 221	NT2	bismuth 197	NT2	copper 71
NT2	actinium 223	NT2	bismuth 199	NT2	copper 73
NT2	actinium 225	NT2	bismuth 201	NT2	copper 75
NT2	actinium 227	NT2	bismuth 203	NT2	copper 77
NT2	actinium 229	NT2	bismuth 205	NT2	copper 79
NT2	actinium 231	NT2	bismuth 207	NT2	dubnium 255
NT2	actinium 233	NT2	bismuth 209	NT2	dubnium 257
NT2	aluminium 23	NT2	bismuth 211	NT2	dubnium 259
NT2	aluminium 25	NT2	bismuth 213	NT2	dubnium 261
NT2	aluminium 27	NT2	bismuth 215	NT2	dubnium 263
NT2	aluminium 29	NT2	bohrium 261	NT2	einsteinium 243
NT2	aluminium 31	NT2	bohrium 265	NT2	einsteinium 245
NT2	aluminium 33	NT2	bohrium 271	NT2	einsteinium 247
NT2	aluminium 35	NT2	boron 11	NT2	einsteinium 249
NT2	aluminium 37	NT2	boron 13	NT2	einsteinium 251
NT2	aluminium 39	NT2	boron 15	NT2	einsteinium 253
NT2	americium 233	NT2	boron 17	NT2	einsteinium 255
NT2	americium 235	NT2	boron 19	NT2	europium 131
NT2	americium 237	NT2	boron 7	NT2	europium 135
NT2	americium 239	NT2	boron 9	NT2	europium 137
NT2	americium 241	NT2	bromine 69	NT2	europium 139
NT2	americium 243	NT2	bromine 71	NT2	europium 141
NT2	americium 245	NT2	bromine 73	NT2	europium 143
NT2	americium 247	NT2	bromine 75	NT2	europium 145
NT2	antimony 105	NT2	bromine 77	NT2	europium 147
NT2	antimony 107	NT2	bromine 79	NT2	europium 149
NT2	antimony 109	NT2	bromine 81	NT2	europium 151
NT2	antimony 111	NT2	bromine 83	NT2	europium 153
NT2	antimony 113	NT2	bromine 85	NT2	europium 155

NT2 europium 157	NT2 indium 105	NT2 lutetium 155
NT2 europium 159	NT2 indium 107	NT2 lutetium 157
NT2 europium 161	NT2 indium 109	NT2 lutetium 159
NT2 fluorine 15	NT2 indium 111	NT2 lutetium 161
NT2 fluorine 17	NT2 indium 113	NT2 lutetium 163
NT2 fluorine 19	NT2 indium 115	NT2 lutetium 165
NT2 fluorine 21	NT2 indium 117	NT2 lutetium 167
NT2 fluorine 23	NT2 indium 119	NT2 lutetium 169
NT2 fluorine 25	NT2 indium 121	NT2 lutetium 171
NT2 fluorine 27	NT2 indium 123	NT2 lutetium 173
NT2 fluorine 29	NT2 indium 125	NT2 lutetium 175
NT2 francium 199	NT2 indium 127	NT2 lutetium 177
NT2 francium 201	NT2 indium 129	NT2 lutetium 179
NT2 francium 203	NT2 indium 131	NT2 lutetium 181
NT2 francium 205	NT2 indium 133	NT2 lutetium 183
NT2 francium 207	NT2 indium 135	NT2 lutetium 187
NT2 francium 209	NT2 iodine 109	NT2 manganese 47
NT2 francium 211	NT2 iodine 111	NT2 manganese 49
NT2 francium 213	NT2 iodine 113	NT2 manganese 51
NT2 francium 215	NT2 iodine 115	NT2 manganese 53
NT2 francium 217	NT2 iodine 117	NT2 manganese 55
NT2 francium 219	NT2 iodine 119	NT2 manganese 57
NT2 francium 221	NT2 iodine 121	NT2 manganese 59
NT2 francium 223	NT2 iodine 123	NT2 manganese 61
NT2 francium 225	NT2 iodine 125	NT2 manganese 63
NT2 francium 227	NT2 iodine 127	NT2 manganese 65
NT2 francium 229	NT2 iodine 129	NT2 mendelevium 247
NT2 francium 231	NT2 iodine 131	NT2 mendelevium 249
NT2 gallium 61	NT2 iodine 133	NT2 mendelevium 251
NT2 gallium 63	NT2 iodine 135	NT2 mendelevium 253
NT2 gallium 65	NT2 iodine 137	NT2 mendelevium 255
NT2 gallium 67	NT2 iodine 139	NT2 mendelevium 257
NT2 gallium 69	NT2 iodine 141	NT2 mendelevium 259
NT2 gallium 71	NT2 iridium 167	NT2 mendelevium 261
NT2 gallium 73	NT2 iridium 169	NT2 neptunium 225
NT2 gallium 75	NT2 iridium 171	NT2 neptunium 227
NT2 gallium 77	NT2 iridium 173	NT2 neptunium 229
NT2 gallium 79	NT2 iridium 175	NT2 neptunium 231
NT2 gallium 81	NT2 iridium 177	NT2 neptunium 233
NT2 gallium 83	NT2 iridium 179	NT2 neptunium 235
NT2 gold 171	NT2 iridium 181	NT2 neptunium 237
NT2 gold 173	NT2 iridium 183	NT2 neptunium 239
NT2 gold 175	NT2 iridium 185	NT2 neptunium 241
NT2 gold 177	NT2 iridium 187	NT2 neptunium 243
NT2 gold 179	NT2 iridium 189	NT2 niobium 101
NT2 gold 181	NT2 iridium 191	NT2 niobium 103
NT2 gold 183	NT2 iridium 193	NT2 niobium 105
NT2 gold 185	NT2 iridium 195	NT2 niobium 83
NT2 gold 187	NT2 iridium 197	NT2 niobium 85
NT2 gold 189	NT2 iridium 199	NT2 niobium 87
NT2 gold 191	NT2 lanthanum 121	NT2 niobium 89
NT2 gold 193	NT2 lanthanum 123	NT2 niobium 91
NT2 gold 195	NT2 lanthanum 125	NT2 niobium 93
NT2 gold 197	NT2 lanthanum 127	NT2 niobium 95
NT2 gold 199	NT2 lanthanum 129	NT2 niobium 97
NT2 gold 201	NT2 lanthanum 131	NT2 niobium 99
NT2 gold 203	NT2 lanthanum 133	NT2 nitrogen 11
NT2 gold 205	NT2 lanthanum 135	NT2 nitrogen 13
NT2 holmium 141	NT2 lanthanum 137	NT2 nitrogen 15
NT2 holmium 143	NT2 lanthanum 139	NT2 nitrogen 17
NT2 holmium 145	NT2 lanthanum 141	NT2 nitrogen 19
NT2 holmium 147	NT2 lanthanum 143	NT2 nitrogen 21
NT2 holmium 149	NT2 lanthanum 145	NT2 nitrogen 23
NT2 holmium 151	NT2 lanthanum 147	NT2 phosphorus 21
NT2 holmium 153	NT2 lanthanum 149	NT2 phosphorus 25
NT2 holmium 155	NT2 lawrencium 253	NT2 phosphorus 27
NT2 holmium 157	NT2 lawrencium 255	NT2 phosphorus 29
NT2 holmium 159	NT2 lawrencium 257	NT2 phosphorus 31
NT2 holmium 161	NT2 lawrencium 259	NT2 phosphorus 33
NT2 holmium 163	NT2 lawrencium 261	NT2 phosphorus 35
NT2 holmium 165	NT2 lawrencium 263	NT2 phosphorus 37
NT2 holmium 167	NT2 lithium 11	NT2 phosphorus 39
NT2 holmium 169	NT2 lithium 13	NT2 phosphorus 41
NT2 holmium 171	NT2 lithium 3	NT2 phosphorus 43
NT2 hydrogen 1	NT2 lithium 5	NT2 phosphorus 45
NT2 hydrogen 5	NT2 lithium 7	NT2 potassium 35
NT2 hydrogen 7	NT2 lithium 9	NT2 potassium 37
NT2 indium 101	NT2 lutetium 151	NT2 potassium 39
NT2 indium 103	NT2 lutetium 153	NT2 potassium 41

NT2	potassium 43	NT2	rhodium 97	NT2	technetium 99
NT2	potassium 45	NT2	rhodium 99	NT2	terbium 139
NT2	potassium 47	NT2	roentgenium 279	NT2	terbium 141
NT2	potassium 49	NT2	rubidium 101	NT2	terbium 143
NT2	potassium 51	NT2	rubidium 103	NT2	terbium 145
NT2	potassium 53	NT2	rubidium 73	NT2	terbium 147
NT2	praseodymium 121	NT2	rubidium 75	NT2	terbium 149
NT2	praseodymium 125	NT2	rubidium 77	NT2	terbium 151
NT2	praseodymium 127	NT2	rubidium 79	NT2	terbium 153
NT2	praseodymium 129	NT2	rubidium 81	NT2	terbium 155
NT2	praseodymium 131	NT2	rubidium 83	NT2	terbium 157
NT2	praseodymium 133	NT2	rubidium 85	NT2	terbium 159
NT2	praseodymium 135	NT2	rubidium 87	NT2	terbium 161
NT2	praseodymium 137	NT2	rubidium 89	NT2	terbium 163
NT2	praseodymium 139	NT2	rubidium 91	NT2	terbium 165
NT2	praseodymium 141	NT2	rubidium 93	NT2	thallium 179
NT2	praseodymium 143	NT2	rubidium 95	NT2	thallium 183
NT2	praseodymium 145	NT2	rubidium 97	NT2	thallium 185
NT2	praseodymium 147	NT2	rubidium 99	NT2	thallium 187
NT2	praseodymium 149	NT2	scandium 39	NT2	thallium 189
NT2	praseodymium 151	NT2	scandium 41	NT2	thallium 191
NT2	praseodymium 153	NT2	scandium 43	NT2	thallium 193
NT2	promethium 129	NT2	scandium 45	NT2	thallium 195
NT2	promethium 131	NT2	scandium 47	NT2	thallium 197
NT2	promethium 133	NT2	scandium 49	NT2	thallium 199
NT2	promethium 135	NT2	scandium 51	NT2	thallium 201
NT2	promethium 137	NT2	scandium 53	NT2	thallium 203
NT2	promethium 139	NT2	scandium 55	NT2	thallium 205
NT2	promethium 141	NT2	scandium 57	NT2	thallium 207
NT2	promethium 143	NT2	silver 101	NT2	thallium 209
NT2	promethium 145	NT2	silver 103	NT2	thulium 145
NT2	promethium 147	NT2	silver 105	NT2	thulium 147
NT2	promethium 149	NT2	silver 107	NT2	thulium 149
NT2	promethium 151	NT2	silver 109	NT2	thulium 151
NT2	promethium 153	NT2	silver 111	NT2	thulium 153
NT2	promethium 155	NT2	silver 113	NT2	thulium 155
NT2	promethium 157	NT2	silver 115	NT2	thulium 157
NT2	protactinium 213	NT2	silver 117	NT2	thulium 159
NT2	protactinium 215	NT2	silver 119	NT2	thulium 161
NT2	protactinium 217	NT2	silver 121	NT2	thulium 163
NT2	protactinium 219	NT2	silver 123	NT2	thulium 165
NT2	protactinium 221	NT2	silver 95	NT2	thulium 167
NT2	protactinium 223	NT2	silver 97	NT2	thulium 169
NT2	protactinium 225	NT2	silver 99	NT2	thulium 171
NT2	protactinium 227	NT2	sodium 19	NT2	thulium 173
NT2	protactinium 229	NT2	sodium 21	NT2	thulium 175
NT2	protactinium 231	NT2	sodium 23	NT2	thulium 177
NT2	protactinium 233	NT2	sodium 25	NT2	tritium
NT2	protactinium 235	NT2	sodium 27	NT2	vanadium 43
NT2	protactinium 237	NT2	sodium 29	NT2	vanadium 45
NT2	protactinium 239	NT2	sodium 31	NT2	vanadium 47
NT2	rhodium 161	NT2	sodium 33	NT2	vanadium 49
NT2	rhodium 163	NT2	sodium 35	NT2	vanadium 51
NT2	rhodium 165	NT2	tantalum 157	NT2	vanadium 53
NT2	rhodium 167	NT2	tantalum 159	NT2	vanadium 55
NT2	rhodium 169	NT2	tantalum 161	NT2	vanadium 57
NT2	rhodium 171	NT2	tantalum 163	NT2	vanadium 59
NT2	rhodium 173	NT2	tantalum 165	NT2	vanadium 61
NT2	rhodium 175	NT2	tantalum 167	NT2	vanadium 63
NT2	rhodium 177	NT2	tantalum 169	NT2	yttrium 101
NT2	rhodium 179	NT2	tantalum 171	NT2	yttrium 103
NT2	rhodium 181	NT2	tantalum 173	NT2	yttrium 77
NT2	rhodium 183	NT2	tantalum 175	NT2	yttrium 79
NT2	rhodium 185	NT2	tantalum 177	NT2	yttrium 81
NT2	rhodium 187	NT2	tantalum 179	NT2	yttrium 83
NT2	rhodium 189	NT2	tantalum 181	NT2	yttrium 85
NT2	rhodium 191	NT2	tantalum 183	NT2	yttrium 87
NT2	rhodium 101	NT2	tantalum 185	NT2	yttrium 89
NT2	rhodium 103	NT2	technetium 101	NT2	yttrium 91
NT2	rhodium 105	NT2	technetium 103	NT2	yttrium 93
NT2	rhodium 107	NT2	technetium 105	NT2	yttrium 95
NT2	rhodium 109	NT2	technetium 107	NT2	yttrium 97
NT2	rhodium 111	NT2	technetium 109	NT2	yttrium 99
NT2	rhodium 113	NT2	technetium 113	NT1	odd-odd nuclei
NT2	rhodium 115	NT2	technetium 89	NT2	actinium 208
NT2	rhodium 117	NT2	technetium 91	NT2	actinium 210
NT2	rhodium 91	NT2	technetium 93	NT2	actinium 212
NT2	rhodium 93	NT2	technetium 95	NT2	actinium 214
NT2	rhodium 95	NT2	technetium 97	NT2	actinium 216

NT2	actinium 218	NT2	bismuth 190	NT2	copper 68
NT2	actinium 220	NT2	bismuth 192	NT2	copper 70
NT2	actinium 222	NT2	bismuth 194	NT2	copper 72
NT2	actinium 224	NT2	bismuth 196	NT2	copper 74
NT2	actinium 226	NT2	bismuth 198	NT2	copper 76
NT2	actinium 228	NT2	bismuth 200	NT2	copper 78
NT2	actinium 230	NT2	bismuth 202	NT2	deuterium
NT2	actinium 232	NT2	bismuth 204	NT2	dubnium 256
NT2	actinium 234	NT2	bismuth 206	NT2	dubnium 258
NT2	aluminium 22	NT2	bismuth 208	NT2	dubnium 260
NT2	aluminium 24	NT2	bismuth 210	NT2	dubnium 262
NT2	aluminium 26	NT2	bismuth 212	NT2	einsteinium 244
NT2	aluminium 28	NT2	bismuth 214	NT2	einsteinium 246
NT2	aluminium 30	NT2	bismuth 216	NT2	einsteinium 248
NT2	aluminium 32	NT2	bohrium 262	NT2	einsteinium 250
NT2	aluminium 34	NT2	bohrium 264	NT2	einsteinium 252
NT2	aluminium 36	NT2	boron 10	NT2	einsteinium 254
NT2	aluminium 38	NT2	boron 12	NT2	einsteinium 256
NT2	aluminium 40	NT2	boron 14	NT2	europium 130
NT2	americium 232	NT2	boron 16	NT2	europium 134
NT2	americium 234	NT2	boron 18	NT2	europium 136
NT2	americium 236	NT2	boron 8	NT2	europium 138
NT2	americium 238	NT2	bromine 70	NT2	europium 140
NT2	americium 240	NT2	bromine 72	NT2	europium 142
NT2	americium 242	NT2	bromine 74	NT2	europium 144
NT2	americium 244	NT2	bromine 76	NT2	europium 146
NT2	americium 246	NT2	bromine 78	NT2	europium 148
NT2	antimony 104	NT2	bromine 80	NT2	europium 150
NT2	antimony 106	NT2	bromine 82	NT2	europium 152
NT2	antimony 108	NT2	bromine 84	NT2	europium 154
NT2	antimony 110	NT2	bromine 86	NT2	europium 156
NT2	antimony 112	NT2	bromine 88	NT2	europium 158
NT2	antimony 114	NT2	bromine 90	NT2	europium 160
NT2	antimony 116	NT2	bromine 92	NT2	europium 162
NT2	antimony 118	NT2	cesium 114	NT2	fluorine 14
NT2	antimony 120	NT2	cesium 116	NT2	fluorine 16
NT2	antimony 122	NT2	cesium 118	NT2	fluorine 18
NT2	antimony 124	NT2	cesium 120	NT2	fluorine 20
NT2	antimony 126	NT2	cesium 122	NT2	fluorine 22
NT2	antimony 128	NT2	cesium 124	NT2	fluorine 24
NT2	antimony 130	NT2	cesium 126	NT2	fluorine 26
NT2	antimony 132	NT2	cesium 128	NT2	francium 200
NT2	antimony 134	NT2	cesium 130	NT2	francium 202
NT2	antimony 136	NT2	cesium 132	NT2	francium 204
NT2	arsenic 64	NT2	cesium 134	NT2	francium 206
NT2	arsenic 66	NT2	cesium 136	NT2	francium 208
NT2	arsenic 68	NT2	cesium 138	NT2	francium 210
NT2	arsenic 70	NT2	cesium 140	NT2	francium 212
NT2	arsenic 72	NT2	cesium 142	NT2	francium 214
NT2	arsenic 74	NT2	cesium 144	NT2	francium 216
NT2	arsenic 76	NT2	cesium 146	NT2	francium 218
NT2	arsenic 78	NT2	cesium 148	NT2	francium 220
NT2	arsenic 80	NT2	cesium 150	NT2	francium 222
NT2	arsenic 82	NT2	chlorine 32	NT2	francium 224
NT2	arsenic 84	NT2	chlorine 34	NT2	francium 226
NT2	arsenic 86	NT2	chlorine 36	NT2	francium 228
NT2	astatine 194	NT2	chlorine 38	NT2	francium 230
NT2	astatine 196	NT2	chlorine 40	NT2	francium 232
NT2	astatine 198	NT2	chlorine 42	NT2	gallium 60
NT2	astatine 200	NT2	chlorine 44	NT2	gallium 62
NT2	astatine 202	NT2	chlorine 46	NT2	gallium 64
NT2	astatine 204	NT2	chlorine 48	NT2	gallium 66
NT2	astatine 206	NT2	cobalt 50	NT2	gallium 68
NT2	astatine 208	NT2	cobalt 52	NT2	gallium 70
NT2	astatine 210	NT2	cobalt 54	NT2	gallium 72
NT2	astatine 212	NT2	cobalt 56	NT2	gallium 74
NT2	astatine 214	NT2	cobalt 58	NT2	gallium 76
NT2	astatine 216	NT2	cobalt 60	NT2	gallium 78
NT2	astatine 218	NT2	cobalt 62	NT2	gallium 80
NT2	astatine 220	NT2	cobalt 64	NT2	gallium 82
NT2	astatine 222	NT2	cobalt 66	NT2	gallium 84
NT2	berkelium 240	NT2	cobalt 68	NT2	gold 170
NT2	berkelium 242	NT2	cobalt 70	NT2	gold 172
NT2	berkelium 244	NT2	copper 56	NT2	gold 174
NT2	berkelium 246	NT2	copper 58	NT2	gold 176
NT2	berkelium 248	NT2	copper 60	NT2	gold 178
NT2	berkelium 250	NT2	copper 62	NT2	gold 180
NT2	bismuth 186	NT2	copper 64	NT2	gold 182
NT2	bismuth 188	NT2	copper 66	NT2	gold 184



NT2 gold 186	NT2 iridium 198	NT2 niobium 108
NT2 gold 188	NT2 lanthanum 120	NT2 niobium 84
NT2 gold 190	NT2 lanthanum 122	NT2 niobium 86
NT2 gold 192	NT2 lanthanum 124	NT2 niobium 88
NT2 gold 194	NT2 lanthanum 126	NT2 niobium 90
NT2 gold 196	NT2 lanthanum 128	NT2 niobium 92
NT2 gold 198	NT2 lanthanum 130	NT2 niobium 94
NT2 gold 200	NT2 lanthanum 132	NT2 niobium 96
NT2 gold 202	NT2 lanthanum 134	NT2 niobium 98
NT2 gold 204	NT2 lanthanum 136	NT2 nitrogen 12
NT2 holmium 144	NT2 lanthanum 138	NT2 nitrogen 14
NT2 holmium 146	NT2 lanthanum 140	NT2 nitrogen 16
NT2 holmium 148	NT2 lanthanum 142	NT2 nitrogen 18
NT2 holmium 150	NT2 lanthanum 144	NT2 nitrogen 20
NT2 holmium 152	NT2 lanthanum 146	NT2 nitrogen 22
NT2 holmium 154	NT2 lanthanum 148	NT2 phosphorus 24
NT2 holmium 156	NT2 lanthanum 150	NT2 phosphorus 26
NT2 holmium 158	NT2 lawrencium 252	NT2 phosphorus 28
NT2 holmium 160	NT2 lawrencium 254	NT2 phosphorus 30
NT2 holmium 162	NT2 lawrencium 256	NT2 phosphorus 32
NT2 holmium 164	NT2 lawrencium 258	NT2 phosphorus 34
NT2 holmium 166	NT2 lawrencium 260	NT2 phosphorus 36
NT2 holmium 168	NT2 lawrencium 262	NT2 phosphorus 38
NT2 holmium 170	NT2 lithium 10	NT2 phosphorus 40
NT2 holmium 172	NT2 lithium 12	NT2 phosphorus 42
NT2 hydrogen 4	NT2 lithium 4	NT2 phosphorus 44
NT2 hydrogen 6	NT2 lithium 6	NT2 phosphorus 46
NT2 indium 100	NT2 lithium 8	NT2 potassium 36
NT2 indium 102	NT2 lutetium 152	NT2 potassium 38
NT2 indium 104	NT2 lutetium 154	NT2 potassium 40
NT2 indium 106	NT2 lutetium 156	NT2 potassium 42
NT2 indium 108	NT2 lutetium 158	NT2 potassium 44
NT2 indium 110	NT2 lutetium 160	NT2 potassium 46
NT2 indium 112	NT2 lutetium 162	NT2 potassium 48
NT2 indium 114	NT2 lutetium 164	NT2 potassium 50
NT2 indium 116	NT2 lutetium 166	NT2 potassium 52
NT2 indium 118	NT2 lutetium 168	NT2 potassium 54
NT2 indium 120	NT2 lutetium 170	NT2 praseodymium 124
NT2 indium 122	NT2 lutetium 172	NT2 praseodymium 126
NT2 indium 124	NT2 lutetium 174	NT2 praseodymium 128
NT2 indium 126	NT2 lutetium 176	NT2 praseodymium 130
NT2 indium 128	NT2 lutetium 178	NT2 praseodymium 132
NT2 indium 130	NT2 lutetium 180	NT2 praseodymium 134
NT2 indium 132	NT2 lutetium 182	NT2 praseodymium 136
NT2 indium 134	NT2 lutetium 184	NT2 praseodymium 138
NT2 iodine 108	NT2 manganese 44	NT2 praseodymium 140
NT2 iodine 110	NT2 manganese 46	NT2 praseodymium 142
NT2 iodine 112	NT2 manganese 48	NT2 praseodymium 144
NT2 iodine 114	NT2 manganese 50	NT2 praseodymium 146
NT2 iodine 116	NT2 manganese 52	NT2 praseodymium 148
NT2 iodine 118	NT2 manganese 54	NT2 praseodymium 150
NT2 iodine 120	NT2 manganese 56	NT2 praseodymium 152
NT2 iodine 122	NT2 manganese 58	NT2 praseodymium 154
NT2 iodine 124	NT2 manganese 60	NT2 promethium 130
NT2 iodine 126	NT2 manganese 62	NT2 promethium 132
NT2 iodine 128	NT2 manganese 64	NT2 promethium 134
NT2 iodine 130	NT2 meitnerium 266	NT2 promethium 136
NT2 iodine 132	NT2 meitnerium 268	NT2 promethium 138
NT2 iodine 134	NT2 mendelevium 248	NT2 promethium 140
NT2 iodine 136	NT2 mendelevium 250	NT2 promethium 142
NT2 iodine 138	NT2 mendelevium 252	NT2 promethium 144
NT2 iodine 140	NT2 mendelevium 254	NT2 promethium 146
NT2 iodine 142	NT2 mendelevium 256	NT2 promethium 148
NT2 iridium 166	NT2 mendelevium 258	NT2 promethium 150
NT2 iridium 168	NT2 mendelevium 260	NT2 promethium 152
NT2 iridium 170	NT2 neptunium 226	NT2 promethium 154
NT2 iridium 172	NT2 neptunium 228	NT2 promethium 156
NT2 iridium 174	NT2 neptunium 230	NT2 promethium 158
NT2 iridium 176	NT2 neptunium 232	NT2 protactinium 212
NT2 iridium 178	NT2 neptunium 234	NT2 protactinium 214
NT2 iridium 180	NT2 neptunium 236	NT2 protactinium 216
NT2 iridium 182	NT2 neptunium 238	NT2 protactinium 218
NT2 iridium 184	NT2 neptunium 240	NT2 protactinium 220
NT2 iridium 186	NT2 neptunium 242	NT2 protactinium 222
NT2 iridium 188	NT2 neptunium 244	NT2 protactinium 224
NT2 iridium 190	NT2 niobium 100	NT2 protactinium 226
NT2 iridium 192	NT2 niobium 102	NT2 protactinium 228
NT2 iridium 194	NT2 niobium 104	NT2 protactinium 230
NT2 iridium 196	NT2 niobium 106	NT2 protactinium 232

NT2 protactinium 234  
 NT2 protactinium 236  
 NT2 protactinium 238  
 NT2 rhenium 162  
 NT2 rhenium 164  
 NT2 rhenium 166  
 NT2 rhenium 168  
 NT2 rhenium 170  
 NT2 rhenium 172  
 NT2 rhenium 174  
 NT2 rhenium 176  
 NT2 rhenium 178  
 NT2 rhenium 180  
 NT2 rhenium 182  
 NT2 rhenium 184  
 NT2 rhenium 186  
 NT2 rhenium 188  
 NT2 rhenium 190  
 NT2 rhenium 192  
 NT2 rhodium 100  
 NT2 rhodium 102  
 NT2 rhodium 104  
 NT2 rhodium 106  
 NT2 rhodium 108  
 NT2 rhodium 110  
 NT2 rhodium 112  
 NT2 rhodium 114  
 NT2 rhodium 116  
 NT2 rhodium 118  
 NT2 rhodium 90  
 NT2 rhodium 92  
 NT2 rhodium 94  
 NT2 rhodium 96  
 NT2 rhodium 98  
 NT2 roentgenium 272  
 NT2 roentgenium 280  
 NT2 rubidium 100  
 NT2 rubidium 102  
 NT2 rubidium 74  
 NT2 rubidium 76  
 NT2 rubidium 78  
 NT2 rubidium 80  
 NT2 rubidium 82  
 NT2 rubidium 84  
 NT2 rubidium 86  
 NT2 rubidium 88  
 NT2 rubidium 90  
 NT2 rubidium 92  
 NT2 rubidium 94  
 NT2 rubidium 96  
 NT2 rubidium 98  
 NT2 scandium 40  
 NT2 scandium 42  
 NT2 scandium 44  
 NT2 scandium 46  
 NT2 scandium 48  
 NT2 scandium 50  
 NT2 scandium 52  
 NT2 scandium 54  
 NT2 scandium 58  
 NT2 silver 100  
 NT2 silver 102  
 NT2 silver 104  
 NT2 silver 106  
 NT2 silver 108  
 NT2 silver 110  
 NT2 silver 112  
 NT2 silver 114  
 NT2 silver 116  
 NT2 silver 118  
 NT2 silver 120  
 NT2 silver 122  
 NT2 silver 94  
 NT2 silver 96  
 NT2 silver 98  
 NT2 sodium 20  
 NT2 sodium 22  
 NT2 sodium 24  
 NT2 sodium 26

NT2 sodium 28  
 NT2 sodium 30  
 NT2 sodium 32  
 NT2 sodium 34  
 NT2 tantalum 156  
 NT2 tantalum 158  
 NT2 tantalum 160  
 NT2 tantalum 162  
 NT2 tantalum 164  
 NT2 tantalum 166  
 NT2 tantalum 168  
 NT2 tantalum 170  
 NT2 tantalum 172  
 NT2 tantalum 174  
 NT2 tantalum 176  
 NT2 tantalum 178  
 NT2 tantalum 180  
 NT2 tantalum 182  
 NT2 tantalum 184  
 NT2 tantalum 186  
 NT2 technetium 100  
 NT2 technetium 102  
 NT2 technetium 104  
 NT2 technetium 106  
 NT2 technetium 108  
 NT2 technetium 110  
 NT2 technetium 112  
 NT2 technetium 88  
 NT2 technetium 90  
 NT2 technetium 92  
 NT2 technetium 94  
 NT2 technetium 96  
 NT2 technetium 98  
 NT2 terbium 140  
 NT2 terbium 144  
 NT2 terbium 146  
 NT2 terbium 148  
 NT2 terbium 150  
 NT2 terbium 152  
 NT2 terbium 154  
 NT2 terbium 156  
 NT2 terbium 158  
 NT2 terbium 160  
 NT2 terbium 162  
 NT2 terbium 164  
 NT2 terbium 166  
 NT2 thallium 182  
 NT2 thallium 184  
 NT2 thallium 186  
 NT2 thallium 188  
 NT2 thallium 190  
 NT2 thallium 192  
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 NT2 thallium 196  
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 NT2 thallium 208  
 NT2 thallium 210  
 NT2 thulium 144  
 NT2 thulium 146  
 NT2 thulium 148  
 NT2 thulium 150  
 NT2 thulium 152  
 NT2 thulium 154  
 NT2 thulium 156  
 NT2 thulium 158  
 NT2 thulium 160  
 NT2 thulium 162  
 NT2 thulium 164  
 NT2 thulium 166  
 NT2 thulium 168  
 NT2 thulium 170  
 NT2 thulium 172  
 NT2 thulium 174  
 NT2 thulium 176  
 NT2 vanadium 42

NT2 vanadium 44  
 NT2 vanadium 46  
 NT2 vanadium 48  
 NT2 vanadium 50  
 NT2 vanadium 52  
 NT2 vanadium 54  
 NT2 vanadium 56  
 NT2 vanadium 58  
 NT2 vanadium 60  
 NT2 vanadium 62  
 NT2 yttrium 100  
 NT2 yttrium 102  
 NT2 yttrium 80  
 NT2 yttrium 82  
 NT2 yttrium 84  
 NT2 yttrium 86  
 NT2 yttrium 88  
 NT2 yttrium 90  
 NT2 yttrium 92  
 NT2 yttrium 94  
 NT2 yttrium 96  
 NT2 yttrium 98  
 NT1 oriented nuclei  
 RT fundamental constants  
 RT isotopes  
 RT nuclear matter  
 RT nuclear molecules  
 RT nuclear structure  
 RT nuclear temperature  
 RT overhauser effect

### nuclei (cells)

USE cell nuclei

### NUCLEIC ACID DENATURATION

*Breaking of H-bonds between strands of NA.*

UF denaturation (nucleic acid)

RT decomposition

RT heat treatments

RT molecular structure

RT nucleic acids

RT ph value

### NUCLEIC ACID HYBRIDIZATION

*INIS: 1996-05-03; ETDE: 1995-01-04*

\*BT1 genetic engineering

NT1 dna hybridization

NT2 dna-cloning

NT1 in-situ hybridization

### NUCLEIC ACID REPLICATION

NT1 dna replication

### NUCLEIC ACIDS

*1996-07-08*

(Prior to August 1996 THYMONUCLEIC ACID was a valid ETDE descriptor.)

UF thymonucleic acid

BT1 organic compounds

NT1 dna

NT2 contigs

NT2 oligonucleotides

NT2 recombinant dna

NT1 rna

NT2 messenger-rna

NT2 ribosomal rna

NT2 transfer rna

RT biological repair

RT cell nuclei

RT genetics

RT nucleases

RT nucleic acid denaturation

RT nucleoproteins

RT nucleotides

RT photoreactivation

RT precursor

RT ribosides

RT two-dimensional electrophoresis

### nucleogenesis

USE nucleosynthesis

**NUCLEOLI**

- \*BT1 cell nuclei
- RT chromosomes
- RT human chromosomes
- RT ribosomal rna
- RT rna

**NUCLEON-ANTINEUTRON INTERACTIONS**

- \*BT1 baryon-baryon interactions
- NT1 antiproton-neutron interactions
- NT1 neutron-antineutron interactions
- NT1 proton-antineutron interactions
- NT1 proton-antiproton interactions

**NUCLEON BEAMS**

- \*BT1 particle beams
- NT1 neutron beams
- NT1 proton beams

**nucleon-deuteron interactions**

1975-11-27

Use more specific terms if known, e.g. PROTON-PROTON INTERACTIONS and PROTON-NEUTRON INTERACTIONS, PROTON-ANTINEUTRON INTERACTIONS and NEUTRON-ANTINEUTRON INTERACTIONS, etc.; otherwise use the descriptor below.

(Prior to May 1996 this was a valid ETDE descriptor.)

- USE baryon-baryon interactions

**NUCLEON-HYPERON INTERACTIONS**

- \*BT1 baryon-baryon interactions

**nucleon isobars**

- USE n\*baryons

**NUCLEON-NUCLEON INTERACTIONS**

- \*BT1 baryon-baryon interactions
- NT1 neutron-neutron interactions
- NT1 proton-nucleon interactions
- NT2 proton-neutron interactions
- NT2 proton-proton interactions
- RT reid potential
- RT schiffer potential

**NUCLEON-NUCLEON POTENTIAL**

1996-07-08

- UF gammel-brueckner potential
- BT1 potentials
- NT1 gauss potential
- NT1 hamada-johnston potential
- NT1 reid potential
- NT1 schiffer potential
- NT1 skyrme potential
- NT1 surface delta potential
- NT1 yamaguchi potential
- RT interactions
- RT jastrow theory
- RT nuclear models
- RT nucleons
- RT ope potential
- RT resonating-group method
- RT rosenfeld force
- RT tabakin potential
- RT yukawa potential

**NUCLEON REACTIONS**

- \*BT1 baryon reactions
- NT1 antineutron reactions
- NT2 antineutron reactions
- NT2 antiproton reactions
- NT1 neutron reactions
- NT2 fast fission
- NT2 thermal fission
- NT1 proton reactions

**NUCLEONS**

1996-07-08

(Prior to August 1996 STAPP THEORY was a valid ETDE descriptor.)

SF stapp theory

SF stapp-ypsilantis-metropolis theory

\*BT1 baryons

- NT1 antineutrons
- NT2 antineutrons
- NT2 antiprotons
- NT1 neutrons
- NT2 antineutrons
- NT2 beta-delayed neutrons
- NT2 cold neutrons
- NT3 ultracold neutrons
- NT2 cosmic neutrons
- NT2 epithermal neutrons
- NT2 fast neutrons
- NT2 fission neutrons
- NT3 delayed neutrons
- NT3 prompt neutrons
- NT2 intermediate neutrons
- NT2 photoneutrons
- NT2 pile neutrons
- NT2 polyneutrons
- NT3 dineutrons
- NT3 tetra-neutrons
- NT3 trineutrons
- NT2 resonance neutrons
- NT2 slow neutrons
- NT2 solar neutrons
- NT2 thermal neutrons

- NT1 photonucleons
- NT2 photoneutrons
- NT2 photoprotons
- NT1 protons
- NT2 antiprotons
- NT2 cosmic protons
- NT2 delayed protons
- NT2 diprotons
- NT2 photoprotons
- NT2 prompt protons
- NT2 solar protons
- NT2 trapped protons
- RT brueckner method
- RT charge independence
- RT effective range theory
- RT hard-core potential
- RT levinger-bethe theory
- RT nucleon-nucleon potential
- RT ope potential
- RT pseudovector coupling
- RT rosenfeld force
- RT tabakin potential
- RT wolfenstein parameters
- RT yamaguchi potential
- RT yukawa potential

**NUCLEOPROTEINS**

1995-01-10

- \*BT1 proteins
- RT dna-ase
- RT dna methylases
- RT dna polymerases
- RT endonucleases
- RT gene recombination proteins
- RT gene repressors
- RT histones
- RT nucleases
- RT nucleic acids
- RT protamines
- RT rna polymerases
- RT rna processing
- RT splicing
- RT transcription factors

**NUCLEOSIDES**

- \*BT1 nucleotides
- BT1 ribosides

- NT1 adenosine
- NT1 budr
- NT1 cytidine
- NT1 deoxycytidine
- NT1 deoxyuridine
- NT1 fudr
- NT1 guanosine
- NT1 inosine
- NT1 iododeoxyuridine
- NT1 thymidine
- NT1 uridine
- RT biological indicators
- RT purines
- RT pyrimidines

**NUCLEOSOMES**

INIS: 1984-08-23; ETDE: 1980-04-14

Chromatin subunits composed of DNA-histone complexes.

- BT1 chromatin
- RT dna
- RT histones

**NUCLEOSYNTHESIS**

UF nucleogenesis

BT1 synthesis

- NT1 heavy ion fusion reactions
- NT1 thermonuclear reactions
- NT2 impact fusion
- NT2 muon-catalyzed fusion
- RT carbon burning
- RT cno cycle
- RT cosmochemistry
- RT helium burning
- RT hydrogen burning
- RT origin
- RT r process
- RT s process
- RT stars

**NUCLEOTIDASES**

Code number 3.1.3.31, 3.1.3.5, and 3.1.3.6.

\*BT1 phosphatases

**nucleotide dehydrogenases**

INIS: 2000-04-12; ETDE: 1981-01-12

Code number 1.6.

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE oxidoreductases

**NUCLEOTIDES**

1996-07-18

(CYTRIPHOS and DEOXYCYTIDYLIC ACID have been valid ETDE descriptors.)

- UF cytriphos
- UF deoxycytidylic acid
- BT1 organic compounds
- NT1 adenylic acid
- NT1 adp
- NT1 amp
- NT1 atp
- NT1 cytidylic acid
- NT1 guanylic acid
- NT1 nad
- NT1 nadh2
- NT1 nadp
- NT1 nucleosides
- NT2 adenosine
- NT2 budr
- NT2 cytidine
- NT2 deoxycytidine
- NT2 deoxyuridine
- NT2 fudr
- NT2 guanosine
- NT2 inosine
- NT2 iododeoxyuridine
- NT2 thymidine
- NT2 uridine
- NT1 thymidylic acid
- NT1 ump

**NT1** uridine diphosphoglucose  
**NT1** uridylic acid  
**NT1** utp  
*RT* codons  
*RT* dna sequencing  
*RT* hypoxanthine  
*RT* nucleic acids  
*RT* oligonucleotides  
*RT* organic acids

**NUCLEOTIDYLTRANSFERASES**

*INIS: 1986-12-03; ETDE: 1981-01-12*

*Code number 2.7.7.*

\*BT1 phosphorus-group transferases  
**NT1** polymerases  
**NT2** dna polymerases  
**NT2** rna polymerases

**nuclides**

USE isotopes

**numak reactors**

*INIS: 1982-11-30; ETDE: 1978-10-23*

*University of Wisconsin Tokamak upgrade of UWMAK I, II, and III.*

USE uwmak devices

**NUMATRON ACCELERATOR**

*INIS: 1984-02-22; ETDE: 1984-03-06*

\*BT1 heavy ion accelerators

**NUMBER CODES**

BT1 computer codes

**NUMERICAL ANALYSIS**

*INIS: 1992-02-24; ETDE: 1976-01-23*

*Study of approximation methods using arithmetic techniques.*

BT1 mathematics  
*RT* computer calculations  
*RT* computerized simulation  
*RT* numerical solution  
*RT* prony method

**NUMERICAL DATA**

*INIS: 1996-03-12; ETDE: 1979-02-27*

*Use only in conjunction with literary indicator N for data flagging.*

\*BT1 data  
**NT1** compiled data  
**NT1** evaluated data  
**NT1** experimental data  
**NT1** financial data  
**NT1** statistical data  
**NT1** theoretical data

**numerical data tagging**

*INIS: 1999-05-13; ETDE: 1980-05-23*

USE data tagging

**NUMERICAL SOLUTION**

*For the procedure only.*

BT1 mathematical solutions  
**NT1** collision probability method  
**NT1** extrapolation  
**NT1** finite difference method  
**NT1** finite element method  
**NT2** boundary element method  
**NT1** interpolation  
**NT1** maximum-likelihood fit  
**NT2** least square fit  
**NT1** runge-kutta method  
*RT* calculation methods  
*RT* galerkin-petrov method  
*RT* iterative methods  
*RT* newton method  
*RT* numerical analysis

**NUNAVUT**

*2006-07-28*

\*BT1 canada

**NUR REACTOR**

*2005-02-11*

*Unite de Recherche en genie nucleaire (URGN), Draria, Algeria.*

\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**NUSSELT NUMBER**

BT1 dimensionless numbers  
*RT* boundary layers  
*RT* forced convection  
*RT* thermal conductivity  
*RT* viscosity

**NUTRIENTS**

*RT* culture media  
*RT* diet  
*RT* eutrophication  
*RT* feeding  
*RT* fertilizers  
*RT* food  
*RT* nutrition  
*RT* plant sap  
*RT* xenobiotics

**NUTRITION**

*RT* animal breeding  
*RT* animal feeds  
*RT* diet  
*RT* food  
*RT* mass rearing  
*RT* nutrients  
*RT* nutritional deficiency  
*RT* rearing

**NUTRITIONAL DEFICIENCY**

UF deficiency (nutritional)  
UF malnutrition  
*RT* diet  
*RT* nutrition

**NUTS**

*1982-01-13*

*(Prior to February 1982, this concept in ETDE was indexed to SEEDS.)*

\*BT1 fruits  
**NT1** chestnuts

**nuts (mechanical)**

*INIS: 1982-01-13; ETDE: 1982-02-11*

USE fasteners

**nx-188**

*INIS: 2000-04-12; ETDE: 1978-12-20*

USE alloy-nx-188

**NYLON**

\*BT1 plastics  
\*BT1 polyamides

**nymphs**

USE larvae

**NYQUIST DIAGRAMS**

\*BT1 diagrams  
*RT* feedback  
*RT* oscillations  
*RT* reactor stability

**O CODES**

BT1 computer codes

**O-GLYCOSYL HYDROLASES**

*INIS: 1986-12-03; ETDE: 1981-01-12*

*Code number 3.2.1.*

\*BT1 glycosyl hydrolases  
**NT1** amylase  
**NT1** cellulase  
**NT1** galactosidase  
**NT1** glucosidase

**NT1** glucuronidase  
**NT1** hyaluronidase  
**NT1** lysozyme  
**NT1** xylanase

**O GROUPS**

\*BT1 dynamical groups  
\*BT1 lie groups

**o-rings**

*INIS: 2000-04-12; ETDE: 1986-10-07*

USE gaskets

**oak harbor ohio reactor**

*ETDE: 2002-04-17*

USE davis besse-1 reactor

**OAK RIDGE**

*INIS: 1992-07-22; ETDE: 1977-06-24*

\*BT1 tennessee  
BT1 urban areas  
*RT* oak ridge reservation  
*RT* orgdp  
*RT* ornl  
*RT* y-12 plant

**oak ridge associated universities**

*1999-06-18*

USE orau

**oak ridge critical experiments facility**

*1993-11-09*

USE or-cef reactor

**oak ridge gaseous diffusion plant**

USE orgdp

**oak ridge institute of nuclear studies**

*INIS: 2000-04-12; ETDE: 1984-12-26*

USE orins

**oak ridge national laboratory**

USE ornl

**oak ridge research reactor**

USE orr reactor

**OAK RIDGE RESERVATION**

*INIS: 1985-07-23; ETDE: 1985-01-28*

*DOE-owned land within the Oak Ridge area.*

\*BT1 us doe  
\*BT1 us erda  
*RT* oak ridge  
*RT* orgdp  
*RT* ornl  
*RT* tennessee  
*RT* y-12 plant

**OAKS**

UF *quercus*  
\*BT1 magnoliopsida  
\*BT1 trees

**OAPEC**

*INIS: 2000-04-12; ETDE: 1976-08-04*

*Organization of Arab Petroleum Exporting Countries.*

BT1 international organizations  
BT1 oil-exporting countries  
*RT* algeria  
*RT* bahrain  
*RT* egyptian arab republic  
*RT* iraq  
*RT* kuwait  
*RT* libyan arab jamahiriya  
*RT* middle east  
*RT* opec  
*RT* petroleum  
*RT* qatar  
*RT* saudi arabia  
*RT* syria  
*RT* united arab emirates

**oas**

INIS: 2000-04-12; ETDE: 1978-03-03  
(Prior to February 1995, this was a valid ETDE descriptor.)  
USE international organizations

**OATS**

UF *avena*  
\*BT1 cereals

**ob'edinennyj institut yadernykh issledovanij**

INIS: 1984-06-21; ETDE: 2002-04-17  
USE jinr

**OBE MODEL**

UF *one-boson-exchange model*  
\*BT1 boson-exchange models  
NT1 ope model  
NT2 electric born model

**obesity**

USE metabolic diseases

**OBRIGHEIM REACTOR**

UF *kernkraftwerk obrigheim*  
UF *kwo reactor*  
\*BT1 pwr type reactors

**obsidianites**

USE tektites

**obstetrics**

USE gynecology

**OCCIDENTAL FLASH PYROLYSIS PROCESS**

INIS: 2000-04-12; ETDE: 1976-08-04  
*The ORC process consists of rapidly pyrolyzing particles at a temperature of less than 1400 degrees F in an entrained stream of hot char and a gas substantially free of oxidizing constituents. Char, liquid and gas are products, with a portion of the char being heated and returned to the pyrolysis reactor.*  
(Prior to July 1976, this concept in ETDE was indexed by GARRETT PYROLYSIS PROCESS.)

UF *garrett pyrolysis process*  
UF *orc flash pyrolysis process*  
\*BT1 coal gasification  
\*BT1 coal liquefaction  
\*BT1 waste processing  
RT oil shales  
RT pyrolysis  
RT waste processing plants

**occlusion complexes**

USE clathrates

**occultation**

USE eclipse

**OCCUPANTS**

INIS: 1992-02-18; ETDE: 1978-04-05  
UF *passengers*  
RT automobiles  
RT buildings  
RT buses  
RT elevators  
RT human populations  
RT motor vehicle operators  
RT recreational vehicles  
RT taxicabs  
RT trains  
RT trucks  
RT vans  
RT vehicles

**OCCUPATION NUMBER**

RT pauli principle

RT quantum mechanics  
RT statistical mechanics

**OCCUPATIONAL DISEASES**

BT1 diseases  
RT industrial medicine  
RT occupational exposure  
RT occupational safety  
RT occupations  
RT pneumoconioses  
RT us occupational safety and health act  
RT work  
RT working conditions

**OCCUPATIONAL EXPOSURE**

INIS: 1985-04-23; ETDE: 1984-06-29  
RT carcinogens  
RT icrp critical group  
RT ionizing radiations  
RT mutagens  
RT occupational diseases  
RT occupational safety  
RT occupations  
RT radiation doses

**OCCUPATIONAL SAFETY**

INIS: 1981-02-27; ETDE: 1978-07-05  
BT1 safety  
RT drug abuse  
RT health hazards  
RT industrial medicine  
RT occupational diseases  
RT occupational exposure  
RT occupations  
RT personnel  
RT working conditions

**occupational safety and health act**

INIS: 2000-04-12; ETDE: 1978-11-14  
(Prior to February 1992 this was a valid ETDE descriptor.)  
USE us occupational safety and health act

**occupational safety and health administration**

INIS: 1993-11-09; ETDE: 1978-06-14  
USE us osha

**OCCUPATIONS**

1996-05-14  
*Nature of work performed.*  
UF *caste (insects)*  
UF *professions*  
RT craftsmen  
RT employment  
RT icrp critical group  
RT manpower  
RT occupational diseases  
RT occupational exposure  
RT occupational safety  
RT personnel  
RT personnel dosimetry  
RT sociology  
RT work

**ocean currents**

INIS: 2000-04-12; ETDE: 1977-04-12  
USE water currents

**ocean spreading center**

INIS: 2000-04-12; ETDE: 1985-04-24  
USE sea-floor spreading

**OCEAN THERMAL ENERGY CONVERSION**

INIS: 1991-12-11; ETDE: 1977-04-12  
UF *otec*  
\*BT1 solar energy conversion  
RT ocean thermal power plants

**OCEAN THERMAL POWER PLANTS**

INIS: 1991-12-11; ETDE: 1977-04-12  
UF *solar sea power plants*  
\*BT1 solar power plants  
\*BT1 thermal power plants  
RT lift cycles  
RT ocean thermal energy conversion

**OCEANIA**

INIS: 1992-06-04; ETDE: 1978-12-11  
*Collective name for lands of the central and south Pacific Ocean, including Melanesia, Micronesia, and Polynesia; and sometimes including Australia, New Zealand, and the Malay Archipelago.*  
UF *pacific islands*  
NT1 micronesia  
NT2 kiribati  
NT2 marshall islands  
NT3 bikini  
NT3 eniwetok  
NT2 nauru  
NT2 tuvalu  
NT1 new caledonia  
RT australia  
RT islands  
RT new zealand

**OCEANIC CIRCULATION**

INIS: 1992-01-20; ETDE: 1986-01-15  
*Large-scale movement of discrete water masses which can be treated by equations of motion.*  
RT box models  
RT general circulation models  
RT seas  
RT upwelling  
RT water currents

**OCEANIC CRUST**

INIS: 1986-12-18; ETDE: 1977-09-19  
BT1 earth crust  
RT continental crust  
RT earth planet

**OCEANOGRAPHY**

RT bathymetry  
RT buoys  
RT earth planet  
RT geography  
RT limnology  
RT seas

**oceans**

USE seas

**OCONEE-1 REACTOR**

*Duke Energy Co., Seneca, South Carolina, USA.*  
\*BT1 pwr type reactors

**OCONEE-2 REACTOR**

*Duke Energy Co., Seneca, South Carolina, USA.*  
\*BT1 pwr type reactors

**OCONEE-3 REACTOR**

*Duke Energy Co., Seneca, South Carolina, USA.*  
\*BT1 pwr type reactors

**OCTADECANOIC ACID**

UF *stearic acid*  
\*BT1 monocarboxylic acids  
RT stearates

**octadecyl glyceryl ether-alpha**

1996-06-26  
(Prior to June 1996 BATYL ALCOHOL was a valid ETDE descriptor.)  
USE alcohols  
USE ethers

**OCTAL 82 FACILITY**

1983-09-06

*Neodymium glass laser facility at Limeil,**France for laser fusion experiments.*

RT neodymium lasers

**OCTANE**

\*BT1 alkanes

**octane number**

2000-04-12

USE antiknock ratings

**OCTANOIC ACID**UF *caprylic acid*

\*BT1 monocarboxylic acids

**OCTANOLS**UF *octyl alcohols*

\*BT1 alcohols

**OCTENES**

2000-04-12

\*BT1 alkenes

**OCTET MODEL**UF *eightfold way*

\*BT1 particle models

RT baryon octets

**OCTUPOLAR CONFIGURATIONS**

\*BT1 multipolar configurations

**octupole radiation**

USE multipole radiation

**OCTUPOLES**

BT1 multipoles

**octyl alcohols**

USE octanols

**OCTYL RADICALS**

\*BT1 alkyl radicals

**ODD-EVEN NUCLEI**

1996-06-17

*Odd protons, even neutrons.*

BT1 nuclei

NT1 actinium 207

NT1 actinium 209

NT1 actinium 211

NT1 actinium 213

NT1 actinium 215

NT1 actinium 217

NT1 actinium 219

NT1 actinium 221

NT1 actinium 223

NT1 actinium 225

NT1 actinium 227

NT1 actinium 229

NT1 actinium 231

NT1 actinium 233

NT1 aluminium 23

NT1 aluminium 25

NT1 aluminium 27

NT1 aluminium 29

NT1 aluminium 31

NT1 aluminium 33

NT1 aluminium 35

NT1 aluminium 37

NT1 aluminium 39

NT1 americium 233

NT1 americium 235

NT1 americium 237

NT1 americium 239

NT1 americium 241

NT1 americium 243

NT1 americium 245

NT1 americium 247

NT1 antimony 105

NT1 antimony 107

NT1 antimony 109

NT1 antimony 111

NT1 antimony 113

NT1 antimony 115

NT1 antimony 117

NT1 antimony 119

NT1 antimony 121

NT1 antimony 123

NT1 antimony 125

NT1 antimony 127

NT1 antimony 129

NT1 antimony 131

NT1 antimony 133

NT1 antimony 135

NT1 arsenic 65

NT1 arsenic 67

NT1 arsenic 69

NT1 arsenic 71

NT1 arsenic 73

NT1 arsenic 75

NT1 arsenic 77

NT1 arsenic 79

NT1 arsenic 81

NT1 arsenic 83

NT1 arsenic 85

NT1 arsenic 87

NT1 astatine 191

NT1 astatine 193

NT1 astatine 195

NT1 astatine 197

NT1 astatine 199

NT1 astatine 201

NT1 astatine 203

NT1 astatine 205

NT1 astatine 207

NT1 astatine 209

NT1 astatine 211

NT1 astatine 213

NT1 astatine 215

NT1 astatine 217

NT1 astatine 219

NT1 astatine 221

NT1 astatine 223

NT1 berkelium 241

NT1 berkelium 243

NT1 berkelium 245

NT1 berkelium 247

NT1 berkelium 249

NT1 berkelium 251

NT1 bismuth 189

NT1 bismuth 191

NT1 bismuth 193

NT1 bismuth 195

NT1 bismuth 197

NT1 bismuth 199

NT1 bismuth 201

NT1 bismuth 203

NT1 bismuth 205

NT1 bismuth 207

NT1 bismuth 209

NT1 bismuth 211

NT1 bismuth 213

NT1 bismuth 215

NT1 bohrium 261

NT1 bohrium 265

NT1 bohrium 271

NT1 boron 11

NT1 boron 13

NT1 boron 15

NT1 boron 17

NT1 boron 19

NT1 boron 7

NT1 boron 9

NT1 bromine 69

NT1 bromine 71

NT1 bromine 73

NT1 bromine 75

NT1 bromine 77

NT1 bromine 79

NT1 bromine 81

NT1 bromine 83

NT1 bromine 85

NT1 bromine 87

NT1 bromine 89

NT1 bromine 91

NT1 bromine 93

NT1 cesium 113

NT1 cesium 115

NT1 cesium 117

NT1 cesium 119

NT1 cesium 121

NT1 cesium 123

NT1 cesium 125

NT1 cesium 127

NT1 cesium 129

NT1 cesium 131

NT1 cesium 133

NT1 cesium 135

NT1 cesium 137

NT1 cesium 139

NT1 cesium 141

NT1 cesium 143

NT1 cesium 145

NT1 cesium 147

NT1 cesium 149

NT1 chlorine 31

NT1 chlorine 33

NT1 chlorine 35

NT1 chlorine 37

NT1 chlorine 39

NT1 chlorine 41

NT1 chlorine 43

NT1 chlorine 45

NT1 chlorine 47

NT1 chlorine 49

NT1 chlorine 51

NT1 cobalt 53

NT1 cobalt 55

NT1 cobalt 57

NT1 cobalt 59

NT1 cobalt 61

NT1 cobalt 63

NT1 cobalt 65

NT1 cobalt 67

NT1 cobalt 69

NT1 copper 57

NT1 copper 59

NT1 copper 61

NT1 copper 63

NT1 copper 65

NT1 copper 67

NT1 copper 69

NT1 copper 71

NT1 copper 73

NT1 copper 75

NT1 copper 77

NT1 copper 79

NT1 dubnium 255

NT1 dubnium 257

NT1 dubnium 259

NT1 dubnium 261

NT1 dubnium 263

NT1 einsteinium 243

NT1 einsteinium 245

NT1 einsteinium 247

NT1 einsteinium 249

NT1 einsteinium 251

NT1 einsteinium 253

NT1 einsteinium 255

NT1 europium 131

NT1 europium 135

NT1 europium 137

NT1 europium 139

NT1 europium 141

NT1 europium 143

NT1 europium 145

NT1 europium 147

NT1 europium 149

NT1 europium 151	NT1 hydrogen 7	NT1 lithium 9
NT1 europium 153	NT1 indium 101	NT1 lutetium 151
NT1 europium 155	NT1 indium 103	NT1 lutetium 153
NT1 europium 157	NT1 indium 105	NT1 lutetium 155
NT1 europium 159	NT1 indium 107	NT1 lutetium 157
NT1 europium 161	NT1 indium 109	NT1 lutetium 159
NT1 fluorine 15	NT1 indium 111	NT1 lutetium 161
NT1 fluorine 17	NT1 indium 113	NT1 lutetium 163
NT1 fluorine 19	NT1 indium 115	NT1 lutetium 165
NT1 fluorine 21	NT1 indium 117	NT1 lutetium 167
NT1 fluorine 23	NT1 indium 119	NT1 lutetium 169
NT1 fluorine 25	NT1 indium 121	NT1 lutetium 171
NT1 fluorine 27	NT1 indium 123	NT1 lutetium 173
NT1 fluorine 29	NT1 indium 125	NT1 lutetium 175
NT1 francium 199	NT1 indium 127	NT1 lutetium 177
NT1 francium 201	NT1 indium 129	NT1 lutetium 179
NT1 francium 203	NT1 indium 131	NT1 lutetium 181
NT1 francium 205	NT1 indium 133	NT1 lutetium 183
NT1 francium 207	NT1 indium 135	NT1 lutetium 187
NT1 francium 209	NT1 iodine 109	NT1 manganese 47
NT1 francium 211	NT1 iodine 111	NT1 manganese 49
NT1 francium 213	NT1 iodine 113	NT1 manganese 51
NT1 francium 215	NT1 iodine 115	NT1 manganese 53
NT1 francium 217	NT1 iodine 117	NT1 manganese 55
NT1 francium 219	NT1 iodine 119	NT1 manganese 57
NT1 francium 221	NT1 iodine 121	NT1 manganese 59
NT1 francium 223	NT1 iodine 123	NT1 manganese 61
NT1 francium 225	NT1 iodine 125	NT1 manganese 63
NT1 francium 227	NT1 iodine 127	NT1 manganese 65
NT1 francium 229	NT1 iodine 129	NT1 mendeleevium 247
NT1 francium 231	NT1 iodine 131	NT1 mendeleevium 249
NT1 gallium 61	NT1 iodine 133	NT1 mendeleevium 251
NT1 gallium 63	NT1 iodine 135	NT1 mendeleevium 253
NT1 gallium 65	NT1 iodine 137	NT1 mendeleevium 255
NT1 gallium 67	NT1 iodine 139	NT1 mendeleevium 257
NT1 gallium 69	NT1 iodine 141	NT1 mendeleevium 259
NT1 gallium 71	NT1 iridium 167	NT1 mendeleevium 261
NT1 gallium 73	NT1 iridium 169	NT1 neptunium 225
NT1 gallium 75	NT1 iridium 171	NT1 neptunium 227
NT1 gallium 77	NT1 iridium 173	NT1 neptunium 229
NT1 gallium 79	NT1 iridium 175	NT1 neptunium 231
NT1 gallium 81	NT1 iridium 177	NT1 neptunium 233
NT1 gallium 83	NT1 iridium 179	NT1 neptunium 235
NT1 gold 171	NT1 iridium 181	NT1 neptunium 237
NT1 gold 173	NT1 iridium 183	NT1 neptunium 239
NT1 gold 175	NT1 iridium 185	NT1 neptunium 241
NT1 gold 177	NT1 iridium 187	NT1 neptunium 243
NT1 gold 179	NT1 iridium 189	NT1 niobium 101
NT1 gold 181	NT1 iridium 191	NT1 niobium 103
NT1 gold 183	NT1 iridium 193	NT1 niobium 105
NT1 gold 185	NT1 iridium 195	NT1 niobium 83
NT1 gold 187	NT1 iridium 197	NT1 niobium 85
NT1 gold 189	NT1 iridium 199	NT1 niobium 87
NT1 gold 191	NT1 lanthanum 121	NT1 niobium 89
NT1 gold 193	NT1 lanthanum 123	NT1 niobium 91
NT1 gold 195	NT1 lanthanum 125	NT1 niobium 93
NT1 gold 197	NT1 lanthanum 127	NT1 niobium 95
NT1 gold 199	NT1 lanthanum 129	NT1 niobium 97
NT1 gold 201	NT1 lanthanum 131	NT1 niobium 99
NT1 gold 203	NT1 lanthanum 133	NT1 nitrogen 11
NT1 gold 205	NT1 lanthanum 135	NT1 nitrogen 13
NT1 holmium 141	NT1 lanthanum 137	NT1 nitrogen 15
NT1 holmium 143	NT1 lanthanum 139	NT1 nitrogen 17
NT1 holmium 145	NT1 lanthanum 141	NT1 nitrogen 19
NT1 holmium 147	NT1 lanthanum 143	NT1 nitrogen 21
NT1 holmium 149	NT1 lanthanum 145	NT1 nitrogen 23
NT1 holmium 151	NT1 lanthanum 147	NT1 phosphorus 21
NT1 holmium 153	NT1 lanthanum 149	NT1 phosphorus 25
NT1 holmium 155	NT1 lawrencium 253	NT1 phosphorus 27
NT1 holmium 157	NT1 lawrencium 255	NT1 phosphorus 29
NT1 holmium 159	NT1 lawrencium 257	NT1 phosphorus 31
NT1 holmium 161	NT1 lawrencium 259	NT1 phosphorus 33
NT1 holmium 163	NT1 lawrencium 261	NT1 phosphorus 35
NT1 holmium 165	NT1 lawrencium 263	NT1 phosphorus 37
NT1 holmium 167	NT1 lithium 11	NT1 phosphorus 39
NT1 holmium 169	NT1 lithium 13	NT1 phosphorus 41
NT1 holmium 171	NT1 lithium 3	NT1 phosphorus 43
NT1 hydrogen 1	NT1 lithium 5	NT1 phosphorus 45
NT1 hydrogen 5	NT1 lithium 7	NT1 potassium 35

NTI	potassium 37	NTI	rhodium 91	NTI	technetium 93
NTI	potassium 39	NTI	rhodium 93	NTI	technetium 95
NTI	potassium 41	NTI	rhodium 95	NTI	technetium 97
NTI	potassium 43	NTI	rhodium 97	NTI	technetium 99
NTI	potassium 45	NTI	rhodium 99	NTI	terbium 139
NTI	potassium 47	NTI	roentgenium 279	NTI	terbium 141
NTI	potassium 49	NTI	rubidium 101	NTI	terbium 143
NTI	potassium 51	NTI	rubidium 103	NTI	terbium 145
NTI	potassium 53	NTI	rubidium 73	NTI	terbium 147
NTI	praseodymium 121	NTI	rubidium 75	NTI	terbium 149
NTI	praseodymium 125	NTI	rubidium 77	NTI	terbium 151
NTI	praseodymium 127	NTI	rubidium 79	NTI	terbium 153
NTI	praseodymium 129	NTI	rubidium 81	NTI	terbium 155
NTI	praseodymium 131	NTI	rubidium 83	NTI	terbium 157
NTI	praseodymium 133	NTI	rubidium 85	NTI	terbium 159
NTI	praseodymium 135	NTI	rubidium 87	NTI	terbium 161
NTI	praseodymium 137	NTI	rubidium 89	NTI	terbium 163
NTI	praseodymium 139	NTI	rubidium 91	NTI	terbium 165
NTI	praseodymium 141	NTI	rubidium 93	NTI	thallium 179
NTI	praseodymium 143	NTI	rubidium 95	NTI	thallium 183
NTI	praseodymium 145	NTI	rubidium 97	NTI	thallium 185
NTI	praseodymium 147	NTI	rubidium 99	NTI	thallium 187
NTI	praseodymium 149	NTI	scandium 39	NTI	thallium 189
NTI	praseodymium 151	NTI	scandium 41	NTI	thallium 191
NTI	praseodymium 153	NTI	scandium 43	NTI	thallium 193
NTI	promethium 129	NTI	scandium 45	NTI	thallium 195
NTI	promethium 131	NTI	scandium 47	NTI	thallium 197
NTI	promethium 133	NTI	scandium 49	NTI	thallium 199
NTI	promethium 135	NTI	scandium 51	NTI	thallium 201
NTI	promethium 137	NTI	scandium 53	NTI	thallium 203
NTI	promethium 139	NTI	scandium 55	NTI	thallium 205
NTI	promethium 141	NTI	scandium 57	NTI	thallium 207
NTI	promethium 143	NTI	silver 101	NTI	thallium 209
NTI	promethium 145	NTI	silver 103	NTI	thulium 145
NTI	promethium 147	NTI	silver 105	NTI	thulium 147
NTI	promethium 149	NTI	silver 107	NTI	thulium 149
NTI	promethium 151	NTI	silver 109	NTI	thulium 151
NTI	promethium 153	NTI	silver 111	NTI	thulium 153
NTI	promethium 155	NTI	silver 113	NTI	thulium 155
NTI	promethium 157	NTI	silver 115	NTI	thulium 157
NTI	protactinium 213	NTI	silver 117	NTI	thulium 159
NTI	protactinium 215	NTI	silver 119	NTI	thulium 161
NTI	protactinium 217	NTI	silver 121	NTI	thulium 163
NTI	protactinium 219	NTI	silver 123	NTI	thulium 165
NTI	protactinium 221	NTI	silver 95	NTI	thulium 167
NTI	protactinium 223	NTI	silver 97	NTI	thulium 169
NTI	protactinium 225	NTI	silver 99	NTI	thulium 171
NTI	protactinium 227	NTI	sodium 19	NTI	thulium 173
NTI	protactinium 229	NTI	sodium 21	NTI	thulium 175
NTI	protactinium 231	NTI	sodium 23	NTI	thulium 177
NTI	protactinium 233	NTI	sodium 25	NTI	tritium
NTI	protactinium 235	NTI	sodium 27	NTI	vanadium 43
NTI	protactinium 237	NTI	sodium 29	NTI	vanadium 45
NTI	protactinium 239	NTI	sodium 31	NTI	vanadium 47
NTI	rhenium 161	NTI	sodium 33	NTI	vanadium 49
NTI	rhenium 163	NTI	sodium 35	NTI	vanadium 51
NTI	rhenium 165	NTI	tantalum 157	NTI	vanadium 53
NTI	rhenium 167	NTI	tantalum 159	NTI	vanadium 55
NTI	rhenium 169	NTI	tantalum 161	NTI	vanadium 57
NTI	rhenium 171	NTI	tantalum 163	NTI	vanadium 59
NTI	rhenium 173	NTI	tantalum 165	NTI	vanadium 61
NTI	rhenium 175	NTI	tantalum 167	NTI	vanadium 63
NTI	rhenium 177	NTI	tantalum 169	NTI	yttrium 101
NTI	rhenium 179	NTI	tantalum 171	NTI	yttrium 103
NTI	rhenium 181	NTI	tantalum 173	NTI	yttrium 77
NTI	rhenium 183	NTI	tantalum 175	NTI	yttrium 79
NTI	rhenium 185	NTI	tantalum 177	NTI	yttrium 81
NTI	rhenium 187	NTI	tantalum 179	NTI	yttrium 83
NTI	rhenium 189	NTI	tantalum 181	NTI	yttrium 85
NTI	rhenium 191	NTI	tantalum 183	NTI	yttrium 87
NTI	rhodium 101	NTI	tantalum 185	NTI	yttrium 89
NTI	rhodium 103	NTI	technetium 101	NTI	yttrium 91
NTI	rhodium 105	NTI	technetium 103	NTI	yttrium 93
NTI	rhodium 107	NTI	technetium 105	NTI	yttrium 95
NTI	rhodium 109	NTI	technetium 107	NTI	yttrium 97
NTI	rhodium 111	NTI	technetium 109	NTI	yttrium 99
NTI	rhodium 113	NTI	technetium 113	RT	nuclear structure
NTI	rhodium 115	NTI	technetium 89		
NTI	rhodium 117	NTI	technetium 91		



## ODD-ODD NUCLEI

1997-06-05

*Odd protons, odd neutrons.*

BT1	nuclei
NT1	actinium 208
NT1	actinium 210
NT1	actinium 212
NT1	actinium 214
NT1	actinium 216
NT1	actinium 218
NT1	actinium 220
NT1	actinium 222
NT1	actinium 224
NT1	actinium 226
NT1	actinium 228
NT1	actinium 230
NT1	actinium 232
NT1	actinium 234
NT1	aluminium 22
NT1	aluminium 24
NT1	aluminium 26
NT1	aluminium 28
NT1	aluminium 30
NT1	aluminium 32
NT1	aluminium 34
NT1	aluminium 36
NT1	aluminium 38
NT1	aluminium 40
NT1	americium 232
NT1	americium 234
NT1	americium 236
NT1	americium 238
NT1	americium 240
NT1	americium 242
NT1	americium 244
NT1	americium 246
NT1	antimony 104
NT1	antimony 106
NT1	antimony 108
NT1	antimony 110
NT1	antimony 112
NT1	antimony 114
NT1	antimony 116
NT1	antimony 118
NT1	antimony 120
NT1	antimony 122
NT1	antimony 124
NT1	antimony 126
NT1	antimony 128
NT1	antimony 130
NT1	antimony 132
NT1	antimony 134
NT1	antimony 136
NT1	arsenic 64
NT1	arsenic 66
NT1	arsenic 68
NT1	arsenic 70
NT1	arsenic 72
NT1	arsenic 74
NT1	arsenic 76
NT1	arsenic 78
NT1	arsenic 80
NT1	arsenic 82
NT1	arsenic 84
NT1	arsenic 86
NT1	astatine 194
NT1	astatine 196
NT1	astatine 198
NT1	astatine 200
NT1	astatine 202
NT1	astatine 204
NT1	astatine 206
NT1	astatine 208
NT1	astatine 210
NT1	astatine 212
NT1	astatine 214
NT1	astatine 216
NT1	astatine 218
NT1	astatine 220
NT1	astatine 222
NT1	astatine 224
NT1	astatine 226
NT1	astatine 228
NT1	astatine 230
NT1	astatine 232
NT1	astatine 234
NT1	astatine 236
NT1	astatine 238
NT1	astatine 240
NT1	astatine 242
NT1	astatine 244
NT1	astatine 246
NT1	astatine 248
NT1	astatine 250
NT1	bismuth 186
NT1	bismuth 188
NT1	bismuth 190
NT1	bismuth 192
NT1	bismuth 194
NT1	bismuth 196
NT1	bismuth 198
NT1	bismuth 200
NT1	bismuth 202
NT1	bismuth 204
NT1	bismuth 206
NT1	bismuth 208
NT1	bismuth 210
NT1	bismuth 212
NT1	bismuth 214
NT1	bismuth 216
NT1	bohrium 262
NT1	bohrium 264
NT1	boron 10
NT1	boron 12
NT1	boron 14
NT1	boron 16
NT1	boron 18
NT1	boron 8
NT1	bromine 70
NT1	bromine 72
NT1	bromine 74
NT1	bromine 76
NT1	bromine 78
NT1	bromine 80
NT1	bromine 82
NT1	bromine 84
NT1	bromine 86
NT1	bromine 88
NT1	bromine 90
NT1	bromine 92
NT1	cesium 114
NT1	cesium 116
NT1	cesium 118
NT1	cesium 120
NT1	cesium 122
NT1	cesium 124
NT1	cesium 126
NT1	cesium 128
NT1	cesium 130
NT1	cesium 132
NT1	cesium 134
NT1	cesium 136
NT1	cesium 138
NT1	cesium 140
NT1	cesium 142
NT1	cesium 144
NT1	cesium 146
NT1	cesium 148
NT1	cesium 150
NT1	chlorine 32
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NT1	chlorine 36
NT1	chlorine 38
NT1	chlorine 40
NT1	chlorine 42
NT1	chlorine 44
NT1	chlorine 46
NT1	chlorine 48
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NT1	cobalt 52
NT1	cobalt 54
NT1	cobalt 56
NT1	cobalt 58
NT1	cobalt 60
NT1	cobalt 62
NT1	cobalt 64
NT1	cobalt 66
NT1	cobalt 68
NT1	cobalt 70
NT1	copper 56
NT1	copper 58
NT1	copper 60
NT1	copper 62
NT1	copper 64
NT1	copper 66
NT1	copper 68
NT1	copper 70
NT1	copper 72
NT1	copper 74
NT1	copper 76
NT1	copper 78
NT1	deuterium
NT1	dubnium 256
NT1	dubnium 258
NT1	dubnium 260
NT1	dubnium 262
NT1	einsteinium 244
NT1	einsteinium 246
NT1	einsteinium 248
NT1	einsteinium 250
NT1	einsteinium 252
NT1	einsteinium 254
NT1	einsteinium 256
NT1	europium 130
NT1	europium 134
NT1	europium 136
NT1	europium 138
NT1	europium 140
NT1	europium 142
NT1	europium 144
NT1	europium 146
NT1	europium 148
NT1	europium 150
NT1	europium 152
NT1	europium 154
NT1	europium 156
NT1	europium 158
NT1	europium 160
NT1	europium 162
NT1	fluorine 14
NT1	fluorine 16
NT1	fluorine 18
NT1	fluorine 20
NT1	fluorine 22
NT1	fluorine 24
NT1	fluorine 26
NT1	francium 200
NT1	francium 202
NT1	francium 204
NT1	francium 206
NT1	francium 208
NT1	francium 210
NT1	francium 212
NT1	francium 214
NT1	francium 216
NT1	francium 218
NT1	francium 220
NT1	francium 222
NT1	francium 224
NT1	francium 226
NT1	francium 228
NT1	francium 230
NT1	francium 232
NT1	gallium 60
NT1	gallium 62
NT1	gallium 64
NT1	gallium 66
NT1	gallium 68
NT1	gallium 70
NT1	gallium 72
NT1	gallium 74
NT1	gallium 76
NT1	gallium 78
NT1	gallium 80
NT1	gallium 82

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NT1	gallium 84	NT1	iridium 180	NT1	neptunium 236
NT1	gold 170	NT1	iridium 182	NT1	neptunium 238
NT1	gold 172	NT1	iridium 184	NT1	neptunium 240
NT1	gold 174	NT1	iridium 186	NT1	neptunium 242
NT1	gold 176	NT1	iridium 188	NT1	neptunium 244
NT1	gold 178	NT1	iridium 190	NT1	niobium 100
NT1	gold 180	NT1	iridium 192	NT1	niobium 102
NT1	gold 182	NT1	iridium 194	NT1	niobium 104
NT1	gold 184	NT1	iridium 196	NT1	niobium 106
NT1	gold 186	NT1	iridium 198	NT1	niobium 108
NT1	gold 188	NT1	lanthanum 120	NT1	niobium 84
NT1	gold 190	NT1	lanthanum 122	NT1	niobium 86
NT1	gold 192	NT1	lanthanum 124	NT1	niobium 88
NT1	gold 194	NT1	lanthanum 126	NT1	niobium 90
NT1	gold 196	NT1	lanthanum 128	NT1	niobium 92
NT1	gold 198	NT1	lanthanum 130	NT1	niobium 94
NT1	gold 200	NT1	lanthanum 132	NT1	niobium 96
NT1	gold 202	NT1	lanthanum 134	NT1	niobium 98
NT1	gold 204	NT1	lanthanum 136	NT1	nitrogen 12
NT1	holmium 144	NT1	lanthanum 138	NT1	nitrogen 14
NT1	holmium 146	NT1	lanthanum 140	NT1	nitrogen 16
NT1	holmium 148	NT1	lanthanum 142	NT1	nitrogen 18
NT1	holmium 150	NT1	lanthanum 144	NT1	nitrogen 20
NT1	holmium 152	NT1	lanthanum 146	NT1	nitrogen 22
NT1	holmium 154	NT1	lanthanum 148	NT1	phosphorus 24
NT1	holmium 156	NT1	lanthanum 150	NT1	phosphorus 26
NT1	holmium 158	NT1	lawrencium 252	NT1	phosphorus 28
NT1	holmium 160	NT1	lawrencium 254	NT1	phosphorus 30
NT1	holmium 162	NT1	lawrencium 256	NT1	phosphorus 32
NT1	holmium 164	NT1	lawrencium 258	NT1	phosphorus 34
NT1	holmium 166	NT1	lawrencium 260	NT1	phosphorus 36
NT1	holmium 168	NT1	lawrencium 262	NT1	phosphorus 38
NT1	holmium 170	NT1	lithium 10	NT1	phosphorus 40
NT1	holmium 172	NT1	lithium 12	NT1	phosphorus 42
NT1	hydrogen 4	NT1	lithium 4	NT1	phosphorus 44
NT1	hydrogen 6	NT1	lithium 6	NT1	phosphorus 46
NT1	indium 100	NT1	lithium 8	NT1	potassium 36
NT1	indium 102	NT1	lutetium 152	NT1	potassium 38
NT1	indium 104	NT1	lutetium 154	NT1	potassium 40
NT1	indium 106	NT1	lutetium 156	NT1	potassium 42
NT1	indium 108	NT1	lutetium 158	NT1	potassium 44
NT1	indium 110	NT1	lutetium 160	NT1	potassium 46
NT1	indium 112	NT1	lutetium 162	NT1	potassium 48
NT1	indium 114	NT1	lutetium 164	NT1	potassium 50
NT1	indium 116	NT1	lutetium 166	NT1	potassium 52
NT1	indium 118	NT1	lutetium 168	NT1	potassium 54
NT1	indium 120	NT1	lutetium 170	NT1	praseodymium 124
NT1	indium 122	NT1	lutetium 172	NT1	praseodymium 126
NT1	indium 124	NT1	lutetium 174	NT1	praseodymium 128
NT1	indium 126	NT1	lutetium 176	NT1	praseodymium 130
NT1	indium 128	NT1	lutetium 178	NT1	praseodymium 132
NT1	indium 130	NT1	lutetium 180	NT1	praseodymium 134
NT1	indium 132	NT1	lutetium 182	NT1	praseodymium 136
NT1	indium 134	NT1	lutetium 184	NT1	praseodymium 138
NT1	iodine 108	NT1	manganese 44	NT1	praseodymium 140
NT1	iodine 110	NT1	manganese 46	NT1	praseodymium 142
NT1	iodine 112	NT1	manganese 48	NT1	praseodymium 144
NT1	iodine 114	NT1	manganese 50	NT1	praseodymium 146
NT1	iodine 116	NT1	manganese 52	NT1	praseodymium 148
NT1	iodine 118	NT1	manganese 54	NT1	praseodymium 150
NT1	iodine 120	NT1	manganese 56	NT1	praseodymium 152
NT1	iodine 122	NT1	manganese 58	NT1	praseodymium 154
NT1	iodine 124	NT1	manganese 60	NT1	promethium 130
NT1	iodine 126	NT1	manganese 62	NT1	promethium 132
NT1	iodine 128	NT1	manganese 64	NT1	promethium 134
NT1	iodine 130	NT1	meitnerium 266	NT1	promethium 136
NT1	iodine 132	NT1	meitnerium 268	NT1	promethium 138
NT1	iodine 134	NT1	mendelevium 248	NT1	promethium 140
NT1	iodine 136	NT1	mendelevium 250	NT1	promethium 142
NT1	iodine 138	NT1	mendelevium 252	NT1	promethium 144
NT1	iodine 140	NT1	mendelevium 254	NT1	promethium 146
NT1	iodine 142	NT1	mendelevium 256	NT1	promethium 148
NT1	iridium 166	NT1	mendelevium 258	NT1	promethium 150
NT1	iridium 168	NT1	mendelevium 260	NT1	promethium 152
NT1	iridium 170	NT1	neptunium 226	NT1	promethium 154
NT1	iridium 172	NT1	neptunium 228	NT1	promethium 156
NT1	iridium 174	NT1	neptunium 230	NT1	promethium 158
NT1	iridium 176	NT1	neptunium 232	NT1	protactinium 212
NT1	iridium 178	NT1	neptunium 234	NT1	protactinium 214

NT1 protactinium 216  
 NT1 protactinium 218  
 NT1 protactinium 220  
 NT1 protactinium 222  
 NT1 protactinium 224  
 NT1 protactinium 226  
 NT1 protactinium 228  
 NT1 protactinium 230  
 NT1 protactinium 232  
 NT1 protactinium 234  
 NT1 protactinium 236  
 NT1 protactinium 238  
 NT1 rhenium 162  
 NT1 rhenium 164  
 NT1 rhenium 166  
 NT1 rhenium 168  
 NT1 rhenium 170  
 NT1 rhenium 172  
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 NT1 rhenium 182  
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 NT1 rhenium 186  
 NT1 rhenium 188  
 NT1 rhenium 190  
 NT1 rhenium 192  
 NT1 rhodium 100  
 NT1 rhodium 102  
 NT1 rhodium 104  
 NT1 rhodium 106  
 NT1 rhodium 108  
 NT1 rhodium 110  
 NT1 rhodium 112  
 NT1 rhodium 114  
 NT1 rhodium 116  
 NT1 rhodium 118  
 NT1 rhodium 90  
 NT1 rhodium 92  
 NT1 rhodium 94  
 NT1 rhodium 96  
 NT1 rhodium 98  
 NT1 roentgenium 272  
 NT1 roentgenium 280  
 NT1 rubidium 100  
 NT1 rubidium 102  
 NT1 rubidium 74  
 NT1 rubidium 76  
 NT1 rubidium 78  
 NT1 rubidium 80  
 NT1 rubidium 82  
 NT1 rubidium 84  
 NT1 rubidium 86  
 NT1 rubidium 88  
 NT1 rubidium 90  
 NT1 rubidium 92  
 NT1 rubidium 94  
 NT1 rubidium 96  
 NT1 rubidium 98  
 NT1 scandium 40  
 NT1 scandium 42  
 NT1 scandium 44  
 NT1 scandium 46  
 NT1 scandium 48  
 NT1 scandium 50  
 NT1 scandium 52  
 NT1 scandium 54  
 NT1 scandium 58  
 NT1 silver 100  
 NT1 silver 102  
 NT1 silver 104  
 NT1 silver 106  
 NT1 silver 108  
 NT1 silver 110  
 NT1 silver 112  
 NT1 silver 114  
 NT1 silver 116  
 NT1 silver 118

NT1 silver 120  
 NT1 silver 122  
 NT1 silver 94  
 NT1 silver 96  
 NT1 silver 98  
 NT1 sodium 20  
 NT1 sodium 22  
 NT1 sodium 24  
 NT1 sodium 26  
 NT1 sodium 28  
 NT1 sodium 30  
 NT1 sodium 32  
 NT1 sodium 34  
 NT1 tantalum 156  
 NT1 tantalum 158  
 NT1 tantalum 160  
 NT1 tantalum 162  
 NT1 tantalum 164  
 NT1 tantalum 166  
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 NT1 technetium 100  
 NT1 technetium 102  
 NT1 technetium 104  
 NT1 technetium 106  
 NT1 technetium 108  
 NT1 technetium 110  
 NT1 technetium 112  
 NT1 technetium 88  
 NT1 technetium 90  
 NT1 technetium 92  
 NT1 technetium 94  
 NT1 technetium 96  
 NT1 technetium 98  
 NT1 terbium 140  
 NT1 terbium 144  
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 NT1 thallium 182  
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 NT1 vanadium 42  
 NT1 vanadium 44  
 NT1 vanadium 46  
 NT1 vanadium 48  
 NT1 vanadium 50  
 NT1 vanadium 52  
 NT1 vanadium 54  
 NT1 vanadium 56  
 NT1 vanadium 58  
 NT1 vanadium 60  
 NT1 vanadium 62  
 NT1 yttrium 100  
 NT1 yttrium 102  
 NT1 yttrium 80  
 NT1 yttrium 82  
 NT1 yttrium 84  
 NT1 yttrium 86  
 NT1 yttrium 88  
 NT1 yttrium 90  
 NT1 yttrium 92  
 NT1 yttrium 94  
 NT1 yttrium 96  
 NT1 yttrium 98  
 RT nuclear structure

#### odocoileus

USE deer

#### ODOR

BT1 organoleptic properties  
 RT chemical attractants  
 RT chemoreceptors  
 RT odorization

#### ODORANT DISPENSERS

INIS: 2000-04-12; ETDE: 1981-06-13

BT1 equipment  
 RT odorization

#### ODORANTS

INIS: 2000-04-12; ETDE: 1981-06-13  
 Chemicals such as mercaptans and alkyl sulfides added to gases to aid in leak detection.

RT odorization

#### ODORIZATION

INIS: 2000-04-12; ETDE: 1977-03-04

UF gas odorization  
 BT1 processing  
 RT odor  
 RT odorant dispensers  
 RT odorants  
 RT odorometers

#### ODOROMETERS

INIS: 2000-04-12; ETDE: 1981-06-13

Instruments that measure the concentrations of odorants in gases.

BT1 measuring instruments  
 RT odorization

#### OECD

UF organization economic co-operation and development  
 BT1 international organizations  
 NT1 nea  
 RT australia  
 RT austria  
 RT belgium  
 RT canada  
 RT czech republic  
 RT denmark

RT federal republic of germany  
 RT finland  
 RT france  
 RT greece  
 RT hungary  
 RT iceland  
 RT international energy agency  
 RT ireland  
 RT italy  
 RT japan  
 RT luxembourg  
 RT mexico  
 RT netherlands  
 RT new zealand  
 RT norway  
 RT poland  
 RT portugal  
 RT republic of korea  
 RT spain  
 RT sweden  
 RT switzerland  
 RT turkey  
 RT united kingdom  
 RT usa

**OECD MCMSDRW**

INIS: 1978-08-14; ETDE: 1978-10-19

*Multilateral Consultation and surveillance Mechanism for Sea Dumping of Radioactive Waste, set up by the OECD Council on 22 July 1977.*

UF *consultation mechanism on sea dumping*

UF *multilateral consultation mechanism, oecd*

\*BT1 international regulations

RT contamination

RT lcpmpdpw

RT marine disposal

**oefzs**

INIS: 1988-06-22; ETDE: 2002-04-17

USE seibersdorf research centre

**oer**

USE oxygen enhancement ratio

**OFF-GAS SYSTEMS**

RT air cleaning systems

RT gaseous wastes

RT pollution control equipment

RT scrubbing

**OFF-HIGHWAY USE**

INIS: 2000-04-12; ETDE: 1982-06-07

RT fuel consumption

RT taxes

**OFF-PEAK ENERGY STORAGE**

2000-04-19

\*BT1 energy storage

RT electric batteries

RT fuel cells

RT load management

RT peaking power plants

RT pumped storage

RT redox fuel cells

**OFF-PEAK POWER**

INIS: 1993-01-22; ETDE: 1977-06-02

\*BT1 electric power

RT nuclear power

RT peak-load pricing

RT power demand

RT power plants

RT public utilities

RT time-of-use pricing

**OFFICE BUILDINGS**

1993-03-24

BT1 buildings

RT commercial buildings

RT government buildings

RT office furniture

RT public buildings

**OFFICE FURNITURE**

INIS: 2000-04-12; ETDE: 1983-03-24

RT equipment

RT office buildings

**office of technology assessment**

INIS: 2000-04-12; ETDE: 1981-03-17

USE us ota

**OFFSHORE DRILLING**

1992-01-08

BT1 drilling

BT1 offshore operations

RT marine risers

RT mwd systems

RT offshore platforms

RT offshore sites

**OFFSHORE NUCLEAR POWER PLANTS**

UF *floating nuclear power plants*

UF *platform mounted nuclear plant*

\*BT1 nuclear power plants

RT atlantic-1 reactor

RT atlantic-2 reactor

RT estuaries

RT offshore sites

RT reactor sites

RT seas

RT shores

RT site selection

**OFFSHORE OPERATIONS**

INIS: 1992-05-18; ETDE: 1976-03-11

NT1 offshore drilling

RT buoys

RT diving operations

RT offshore platforms

RT skimmers

RT underwater facilities

RT underwater operations

**OFFSHORE PLATFORMS**

INIS: 1992-04-09; ETDE: 1975-08-19

*Includes gravity or fixed, floating, and towed platforms.*

UF *drill ships*

UF *drilling platforms*

RT marine risers

RT offshore drilling

RT offshore operations

RT offshore sites

RT positioning

**OFFSHORE SITES**

RT coastal waters

RT estuaries

RT offshore drilling

RT offshore nuclear power plants

RT offshore platforms

RT onshore sites

RT reactor sites

RT seas

RT shores

RT site selection

**offshore surveys**

INIS: 2000-01-24; ETDE: 1976-11-17

USE marine surveys

**offsprings**

USE progeny

**OGO SATELLITES**

UF *orbiting geophysical observatory*

BT1 satellites

RT space flight

**OGRA**

\*BT1 magnetic mirrors

**ohi-3 reactor**

INIS: 1990-02-28; ETDE: 1990-03-15

USE oi-3 reactor

**ohi-4 reactor**

INIS: 1990-02-28; ETDE: 1990-03-15

USE oi-4 reactor

**OHIO**

UF *scioto river*

\*BT1 usa

NT1 cleveland

RT battelle columbus laboratory

RT chattanooga formation

RT feed materials production center

RT mound laboratory

RT ohio river

RT portsmouth centrifuge enrichment plant

RT portsmouth gaseous diffusion plant

**OHIO RIVER**

\*BT1 rivers

RT illinois

RT indiana

RT kentucky

RT ohio

RT ohio valley region

RT pennsylvania

RT west virginia

**ohio state university reactor**

1999-06-25

USE osur reactor

**OHIO VALLEY REGION**

INIS: 2000-04-12; ETDE: 1978-02-14

RT ohio river

**OHM LAW**

RT electric conductivity

**ohmic plasma heating**

USE joule heating

**ohmic plasma losses**

USE energy losses

**ohmic resistance**

USE electric conductivity

**OI-1 REACTOR**

KEPCO, Oi, Fukui, Japan.

UF *kepc oshima oi-1 reactor*

UF *oshima oi-1 reactor*

\*BT1 pwr type reactors

**OI-2 REACTOR**

KEPCO, Oi, Fukui, Japan.

UF *kepc oshima oi-2 reactor*

UF *oshima oi-2 reactor*

\*BT1 pwr type reactors

**OI-3 REACTOR**

INIS: 1990-02-28; ETDE: 1990-03-15

KEPCO, Oi, Fukui, Japan.

UF *ohi-3 reactor*

\*BT1 pwr type reactors

**OI-4 REACTOR**

INIS: 1990-02-28; ETDE: 1990-03-15

KEPCO, Oi, Fukui, Japan.

UF *ohi-4 reactor*

\*BT1 pwr type reactors

**OIL BURNERS**

INIS: 1999-05-18; ETDE: 1979-05-09

BT1 burners

RT combustion

RT oil furnaces

**OIL-EXPORTING COUNTRIES**

INIS: 1999-03-15; ETDE: 1979-08-07

For very broad, general use only. If specific countries are discussed, use the specific country descriptors.

- NT1 oapcc
- NT1 opec
- RT developed countries
- RT developing countries

**OIL FIELDS**

INIS: 1992-03-17; ETDE: 1976-03-11

Surface boundary of an area from which petroleum is obtained; may correspond to an oil pool or may be circumscribed by political or legal limits.

- \*BT1 petroleum deposits
- RT associated gas
- RT field production equipment
- RT gas condensate fields
- RT oil wells
- RT reservoir fluids
- RT reservoir rock
- RT well injection equipment
- RT well recovery equipment
- RT well spacing

**OIL-FILLED CABLES**

INIS: 1999-10-13; ETDE: 1976-03-11

- \*BT1 electric cables
- RT power transmission
- RT power transmission lines

**OIL FURNACES**

INIS: 1992-05-13; ETDE: 1977-06-21

- BT1 furnaces
- RT oil burners
- RT space heating

**OIL-IMPORTING COUNTRIES**

INIS: 2000-04-12; ETDE: 1977-04-14

Countries, industrial or developing, that import some of their oil supplies. For broad, general use only; if specific countries are discussed, use the specific country descriptor.

- RT developing countries
- RT imports
- RT trade

**OIL PALMS**

INIS: 1975-09-16; ETDE: 1975-10-28

- \*BT1 liliopsida
- \*BT1 trees
- RT palm oil

**OIL POLLUTION CONTAINMENT**

INIS: 1992-04-07; ETDE: 1978-01-23

- \*BT1 pollution control
- RT oil retention booms
- RT oil spills
- RT water pollution control

**oil residues**

INIS: 1992-04-02; ETDE: 1977-10-20

- USE petroleum residues

**OIL RETENTION BOOMS**

INIS: 1992-07-17; ETDE: 1978-01-23

- \*BT1 pollution control equipment
- RT oil pollution containment

**OIL SAND DEPOSITS**

1997-06-19

- BT1 geologic deposits
- NT1 asphalt ridge deposit
- NT1 athabasca deposit
- NT1 circle cliffs deposit
- NT1 cold lake deposit
- NT1 edna deposit
- NT1 lloydminster deposit
- NT1 peace river deposit
- NT1 pr springs deposit

- NT1 santa rosa deposit
- NT1 sunnyside deposit
- NT1 tar sand triangle deposit
- NT1 uvalde deposit
- NT1 wabasca deposit
- RT oil sands
- RT reserves

**OIL SAND INDUSTRY**

1994-09-29

- BT1 industry
- RT mineral industry
- RT oil sands

**OIL SAND MINING**

INIS: 1992-09-03; ETDE: 1980-10-28

- BT1 mining
- RT oil sands
- RT surface mining

**oil sand oils**

2000-04-12

- USE bitumens
- USE oil sands

**OIL SAND PROCESSING PLANTS**

1993-12-30

- BT1 industrial plants
- RT oil sands

**OIL SAND TAILINGS**

1992-05-04

- UF tar sand tailings
- \*BT1 tailings

**OIL SANDS**

1997-06-19

- UF oil sand oils
- UF tar sands
- \*BT1 bituminous materials
- \*BT1 fossil fuels
- BT1 sand
- RT asphalt ridge deposit
- RT athabasca deposit
- RT bitumens
- RT circle cliffs deposit
- RT cold lake deposit
- RT cold-water processes
- RT edna deposit
- RT fluid injection processes
- RT h-oil process
- RT hot-water processes
- RT oil sand deposits
- RT oil sand industry
- RT oil sand mining
- RT oil sand processing plants
- RT oil shales
- RT peace river deposit
- RT pr springs deposit
- RT rope process
- RT santa rosa deposit
- RT steam soak processes
- RT sunnyside deposit
- RT tar sand triangle deposit
- RT uvalde deposit
- RT wabasca deposit

**OIL SATURATION**

INIS: 1992-07-10; ETDE: 1976-07-07

Degree of filling of reservoir pore structure by reservoir oil.

- BT1 saturation
- RT gas saturation
- RT reservoir rock
- RT water saturation

**OIL SHALE DEPOSITS**

1997-06-19

- BT1 geologic deposits
- \*BT1 mineral resources
- NT1 us naval oil shale reserves
- RT chattanooga formation

- RT geophysical surveys
- RT green river formation
- RT oil shales
- RT piceance creek basin
- RT reserves
- RT rock springs sites
- RT sand wash basin
- RT uinta basin
- RT uinta formation
- RT washakie basin

**OIL SHALE FINES**

INIS: 2000-04-12; ETDE: 1976-11-01

- RT oil shales

**OIL SHALE INDUSTRY**

1992-07-22

- BT1 industry
- RT mineral industry
- RT oil shales
- RT shale oil

**OIL SHALE MINING**

INIS: 1992-04-09; ETDE: 1976-11-17

- UF shale mining
- BT1 mining
- RT mining engineering
- RT surface mining
- RT underground mining

**OIL SHALE PROCESSING PLANTS**

1997-06-17

- BT1 industrial plants
- NT1 anvil points research facility
- NT1 glen davis facility
- RT gas generators
- RT oil shales

**oil shale waste water**

INIS: 2000-04-12; ETDE: 1976-03-25

- USE oil shales
- USE waste water

**OIL SHALES**

1997-06-17

- UF holzheimer process
- UF ljunstrom process
- UF oil shale waste water
- SF fushun process
- SF galoter process
- \*BT1 bituminous materials
- \*BT1 fossil fuels
- \*BT1 shales
- NT1 black shales
- RT anvil points research facility
- RT bitumens
- RT explosive stimulation
- RT fischer assay
- RT fluidized bed refuse gasification
- RT gas combustion process
- RT gas-flow processes
- RT gasbuggy event
- RT green river formation
- RT h-oil process
- RT hot-water processes
- RT hydroretorting assay
- RT hydroretorting process
- RT ichthammol
- RT in-situ processing
- RT in-situ retorting
- RT integrated in-situ process
- RT kerogen
- RT kivitort process
- RT lofreco process
- RT lurgi-ruhrgas process
- RT mahogany zone
- RT ntu process
- RT occidental flash pyrolysis process
- RT oil sands
- RT oil shale deposits
- RT oil shale fines

RT oil shale industry  
 RT oil shale processing plants  
 RT oxy modified in-situ process  
 RT parah process  
 RT petrosix process  
 RT retorting  
 RT rio blanco oil shale project  
 RT rise  
 RT rope process  
 RT shale gas  
 RT shale oil  
 RT shale oil fractions  
 RT shell pellet heat exchanger retorting  
 RT spent shales  
 RT superior process  
 RT t3 process  
 RT tosc process  
 RT uinta formation  
 RT union oil process  
 RT wasatch formation  
 RT white river shale project

**oil skimmers**

INIS: 1992-07-21; ETDE: 2002-04-17  
 USE skimmers

**oil spill fingerprinting**

INIS: 2000-04-12; ETDE: 1978-08-07  
 USE oil spills  
 USE pattern recognition

**OIL SPILLS**

1991-08-14  
 UF fingerprinting (oil spills)  
 UF oil spill fingerprinting  
 BT1 accidents  
 RT chemical spills  
 RT hazardous materials spills  
 RT natural attenuation  
 RT oil pollution containment  
 RT petroleum  
 RT rotating disk removal systems  
 RT skimmers  
 RT sorbent recovery systems  
 RT weir oil recovery systems

**oil-water separators**

INIS: 2000-04-12; ETDE: 1981-05-18  
 SEE separation equipment

**OIL WELLS**

INIS: 1991-08-14; ETDE: 1975-09-11  
 BT1 wells  
 RT abandoned wells  
 RT artificial lifts  
 RT blowout preventers  
 RT blowouts  
 RT carbon dioxide injection  
 RT drill stem testing  
 RT dry holes  
 RT exploratory wells  
 RT field production equipment  
 RT gas condensate wells  
 RT gas lifts  
 RT interstitial water  
 RT oil fields  
 RT petroleum  
 RT plugging  
 RT plugging agents  
 RT sand consolidation  
 RT water influx  
 RT well completion  
 RT well injection equipment  
 RT well recovery equipment  
 RT well servicing  
 RT well stimulation  
 RT wellhead prices  
 RT wellheads

**OIL YIELDS**

1993-07-21  
 BT1 yields  
 RT petroleum  
 RT productivity

**OILS**

\*BT1 other organic compounds  
 NT1 coal tar oils  
 NT1 essential oils  
 NT1 fish oil  
 NT1 insulating oils  
 NT1 lipiodol  
 NT1 lubricating oils  
 NT1 pyrolytic oils  
 NT1 road oils  
 NT1 shale tar oils  
 NT1 tall oil  
 NT1 triolein  
 NT1 vegetable oils  
 NT2 castor oil  
 NT2 corn oil  
 NT2 cottonseed oil  
 NT2 linseed oil  
 NT2 olive oil  
 NT2 palm oil  
 NT2 peanut oil  
 NT2 sesame oil  
 NT2 soybean oil  
 NT2 sunflower oil  
 NT1 waste oils  
 NT1 wood oils  
 RT bromine number  
 RT coolants  
 RT distillates  
 RT fuel oils  
 RT greases  
 RT hydrocarbons  
 RT petroleum  
 RT petroleum products  
 RT terpenes  
 RT triglycerides

**OINTMENTS**

RT drugs  
 RT skin

**oiyai**

INIS: 1984-06-21; ETDE: 2002-04-17  
 USE jinr

**OKG-1 REACTOR**

UF oskarshamn-1 reactor  
 \*BT1 bwr type reactors

**OKG-2 REACTOR**

UF oskarshamn-2 reactor  
 \*BT1 bwr type reactors

**OKG-3 REACTOR**

UF oskarshamn-3 reactor  
 \*BT1 bwr type reactors

**OKG-4 REACTOR**

UF oskarshamn-4 reactor  
 \*BT1 power reactors

**OKINAWA**

INIS: 1992-06-04; ETDE: 1980-08-25  
 BT1 islands  
 RT japan

**OKLAHOMA**

\*BT1 usa  
 RT chattanooga formation  
 RT permian basin  
 RT sequoyah uf6 production plant

**OKLO PHENOMENON**

INIS: 1976-01-28; ETDE: 1976-03-12  
 UF natural reactor oklo  
 BT1 natural nuclear reactors

RT chain reactions  
 RT criticality  
 RT gabon  
 RT spontaneous fission  
 RT uranium deposits  
 RT uranium ores

**oktemberian-1 reactor**

INIS: 1984-08-23; ETDE: 2002-04-17  
 USE armenian-1 reactor

**oktemberian-2 reactor**

INIS: 1984-08-23; ETDE: 1984-09-20  
 USE armenian-2 reactor

**OKTEMBERYAN-2 REACTOR**

2000-04-12  
 \*BT1 pwr type reactors

**OKUBO MASS FORMULA**

BT1 mass formulae  
 RT particle multiplets

**old faithful geyser**

2000-04-12  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 USE geysers

**OLDBURY-A REACTOR**

Oldbury on Severn, Gloucestershire, United Kingdom.  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 magnox type reactors  
 \*BT1 thermal reactors

**OLDBURY-B REACTOR**

Oldbury on Severn, Gloucestershire, United Kingdom.  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**olefins**

USE alkenes

**OLEIC ACID**

\*BT1 monocarboxylic acids  
 RT triolein

**olein**

USE triolein

**OLEORESINS**

INIS: 2000-04-12; ETDE: 1979-05-31  
 Plant products containing chiefly essential oil and resin; obtained from plants such as pine trees.  
 RT aromatics  
 RT biomass

**OLFACTORY BULBS**

\*BT1 brain  
 RT sense organs

**oligocene epoch**

INIS: 2000-04-12; ETDE: 1977-10-20  
 USE tertiary period

**OLIGONUCLEOTIDES**

1994-04-12  
 Chemically synthesized polynucleotides, generally shorter than 100 nucleotides. (Until April 1994 this concept was indexed to NUCLEOTIDES.)  
 \*BT1 dna  
 RT dna-cloning  
 RT dna hybridization  
 RT nucleotides  
 RT recombinant dna

**OLIGOPHENYLENES**

- \*BT1 aromatics
- \*BT1 hydrocarbons

**OLIGOSACCHARIDES**

- \*BT1 saccharides
- NT1 disaccharides
- NT2 cellobiose
- NT2 lactose
- NT2 maltose
- NT2 saccharose
- NT1 raffinose

**OLIVE OIL**

- UF *florence oil*
- UF *luccu oil*
- \*BT1 triglycerides
- \*BT1 vegetable oils
- RT olives

**OLIVE TREES**

- INIS: 1975-12-17; ETDE: 1976-01-26
- \*BT1 magnoliopsida
- \*BT1 trees

**OLIVES**

- \*BT1 fruits
- RT *dacus oleae*
- RT olive oil

**OLIVINE**

(Prior to August 1980 OLIVINES was a valid ETDE descriptor.)

- \*BT1 silicate minerals
- RT *anorthosites*
- RT *basalt*
- RT *dielectric track detectors*
- RT *iron silicates*
- RT *kimberlites*
- RT *magnesium silicates*
- RT *peridotites*

**olkiluoto (halmholmen)-1 reactor**

INIS: 1993-11-09; ETDE: 2002-04-17  
USE olkiluoto-1 reactor

**olkiluoto (halmholmen)-2 reactor**

INIS: 1993-11-09; ETDE: 2002-04-17  
USE olkiluoto-2 reactor

**olkiluoto (halmholmen)-3 reactor**

2005-09-08  
USE olkiluoto-3 reactor

**OLKILUOTO-1 REACTOR**

INIS: 1997-06-19; ETDE: 1997-09-08  
*TVO, Olkiluoto (Halmholmen), Finland.*  
(From August 1976 till June 1997 (INIS)/September 1997 (ETDE) the descriptor TVO-1 REACTOR was used for this reactor. OLKILUOTO REACTOR was also a valid ETDE descriptor till January 1995.)  
UF *olkiluoto (halmholmen)-1 reactor*  
UF *olkiluoto reactor*  
UF *teollisuuden voima oy-1 reactor*  
UF *tvo-1 reactor*  
\*BT1 bwr type reactors

**OLKILUOTO-2 REACTOR**

INIS: 1997-06-19; ETDE: 1997-09-08  
*TVO, Olkiluoto (Halmholmen), Finland.*  
(From August 1976 till June 1997 (INIS)/September 1997 (ETDE) the descriptor TVO-2 REACTOR was used for this reactor. OLKILUOTO REACTOR was also a valid ETDE descriptor till January 1995.)  
UF *olkiluoto (halmholmen)-2 reactor*  
UF *teollisuuden voima oy-2 reactor*  
UF *tvo-2 reactor*  
\*BT1 bwr type reactors

**OLKILUOTO-3 REACTOR**

2005-09-08  
*TVO, Olkiluoto (Halmholmen), Finland. The Framatome APN/Siemens AG European Pressurized Water Reactor (EPR).*  
UF *olkiluoto (halmholmen)-3 reactor*  
UF *teollisuuden voima oy-3 reactor*  
UF *tvo-3 reactor*  
\*BT1 pwr type reactors

**olkiluoto reactor**

2000-04-12  
(Prior to January 1995, this was a valid ETDE descriptor. TVO-1 REACTOR was a valid ETDE descriptor from August 1976 till September 1997.)  
USE olkiluoto-1 reactor

**OLYMPIC DAM MINE**

INIS: 1990-04-19; ETDE: 1990-05-16  
\*BT1 uranium mines  
RT *roxby downs deposit*  
RT *south australia*

**omaha veterans triga-mk-1**

USE triga-veterans reactor

**OMAN**

INIS: 1981-09-17; ETDE: 1976-10-13  
BT1 arab countries  
BT1 asia  
BT1 developing countries  
BT1 middle east

**OMEGA-1420 MESONS**

1995-07-17  
\*BT1 vector mesons

**OMEGA-1600 MESONS**

1995-07-17  
\*BT1 vector mesons

**omega-1675 resonances**

INIS: 1987-12-21; ETDE: 1977-03-04  
(Prior to December 1987 this was a valid descriptor.)  
USE omega3-1670 mesons

**omega-1778 resonances**

INIS: 1988-03-08; ETDE: 1977-11-10  
(Prior to December 1987 this was a valid descriptor.)  
USE mesons

**OMEGA-2250 BARYONS**

1995-07-17  
\*BT1 omega baryons

**OMEGA-782 MESONS**

1995-08-07  
(Until December 1987 this concept was indexed by OMEGA-784 RESONANCES; from then until July 1995 it was indexed by OMEGA-783 MESONS.)  
UF *omega-783 mesons*  
UF *omega-784 resonances*  
\*BT1 vector mesons

**omega-783 mesons**

INIS: 1995-08-07; ETDE: 1988-01-25  
(From December 1987 until July 1995 this was a valid term.)  
USE omega-782 mesons

**omega-784 resonances**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE omega-782 mesons

**OMEGA BARYONS**

INIS: 1995-07-17; ETDE: 1988-02-26  
\*BT1 hyperons  
NT1 omega-2250 baryons  
NT1 omega particles  
NT2 antiomega particles  
NT2 omega minus particles

**OMEGA C NEUTRAL BARYONS**

INIS: 1987-12-21; ETDE: 1988-02-26  
\*BT1 charmed baryons

**OMEGA FACILITY**

INIS: 1984-05-28; ETDE: 1979-05-25  
*Large Nd laser facility at University of Rochester to be used for laser fusion experiments.*  
RT *gdI facility*  
RT *laser fusion reactors*  
RT *neodymium lasers*

**omega minus**

1987-12-21  
(Prior to December 1987 this was a valid descriptor.)  
USE omega particles

**OMEGA MINUS PARTICLES**

1995-07-17  
(Until July 1995 this concept was indexed to OMEGA PARTICLES.)  
\*BT1 omega particles

**omega particle beams**

1996-07-18  
(Until July 1996 this was a valid descriptor.)  
USE hyperon beams

**OMEGA PARTICLES**

1995-07-17  
UF *omega minus*  
\*BT1 omega baryons  
NT1 antiomega particles  
NT1 omega minus particles

**omega west reactor**

USE owr reactor

**OMEGA3-1670 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01  
(Prior to December 1987 this concept was indexed by OMEGA-1675 RESONANCES.)  
UF *omega-1675 resonances*  
\*BT1 tensor mesons

**omentum**

USE mesentery

**OMNES-MUSKHELISHVILI METHOD**

BT1 calculation methods  
RT partial waves

**omnitrone**

1996-06-28  
(Until June 1996 this was a valid descriptor.)  
USE synchrotrons

**OMR TYPE REACTORS**

UF *organic cooled and moderated reactor*  
\*BT1 organic cooled reactors  
\*BT1 organic moderated reactors  
NT1 arbus reactor  
NT1 omre reactor  
NT1 pnpf reactor  
RT power reactors

**OMRE REACTOR**

*INEEL, Idaho Falls, Idaho, USA. Shut down in 1963.*

*UF organic moderated reactor experiment*

- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 mixed spectrum reactors
- \*BT1 omr type reactors

**ON-HIGHWAY USE**

*INIS: 2000-04-12; ETDE: 1982-06-07*

*RT fuel consumption*  
*RT taxes*

**on-line computers**

*USE computers*  
*USE on-line systems*

**ON-LINE CONTROL SYSTEMS**

- BT1 control systems
- BT1 on-line systems
- NT1 computerized control systems
- NT2 adaptive systems
- RT camac system*
- RT computer-aided manufacturing*
- RT fastbus system*
- RT nuclear instrument modules*
- RT process computers*
- RT reactor control systems*
- RT real time systems*
- RT remote multiplexing systems*

**ON-LINE MEASUREMENT SYSTEMS**

- BT1 on-line systems
- RT digitizers*
- RT fastbus system*
- RT measuring instruments*
- RT reactor monitoring systems*

**ON-LINE SYSTEMS**

- UF on-line computers*
- NT1 on-line control systems
- NT2 computerized control systems
- NT3 adaptive systems
- NT1 on-line measurement systems
- RT computer networks*
- RT mwd systems*
- RT real time systems*

**ON-SITE INSPECTION**

*INIS: 1999-01-27; ETDE: 1988-05-23*

- BT1 inspection
- RT in-country detection*
- RT verification*

**ON-SITE POWER GENERATION**

*INIS: 1986-04-03; ETDE: 1980-10-07*

*Production of power at location of use instead of purchase of power from a utility.*

- BT1 power generation
- RT dispersed storage and generation*
- RT electric power*
- RT power plants*
- RT reactor sites*

**ONAGAWA-1 REACTOR**

*Tohoku Electric Power Co., Onagawa, Miyagi, Japan.*

*UF tohoku-1 reactor*  
*\*BT1 bwr type reactors*

**ONAGAWA-2 REACTOR**

*INIS: 1989-11-24; ETDE: 1989-12-08*

*Tohoku Electric Power Co., Onagawa, Miyagi, Japan.*

*\*BT1 bwr type reactors*

**ONAGAWA-3 REACTOR**

*INIS: 2000-04-25; ETDE: 2000-05-03*

*Tohoku Electric Power Co., Onagawa, Miyagi, Japan.*

*\*BT1 bwr type reactors*

**ONCE-THROUGH COOLING SYSTEMS**

*1993-03-23*

*\*BT1 cooling systems*  
*RT cooling*

**ONCOGENES**

*INIS: 1987-04-28; ETDE: 1985-11-19*

*Genes whose expression may lead to cancer. The genes maybe normal components of the genome or be derived from oncogenic viruses.*

- BT1 genes
- RT carcinogenesis*
- RT growth factors*
- RT gtp-ases*
- RT oncogenic transformations*
- RT oncogenic viruses*

**ONCOGENIC TRANSFORMATIONS**

*INIS: 1999-04-21; ETDE: 1979-07-18*

*The chemical alterations induced in a cell by exposure to carcinogens and leading ultimately to the development of a neoplastic condition.*

- UF transformations (oncogenic)*
- BT1 cell transformations
- RT carcinogenesis*
- RT carcinogens*
- RT oncogenes*

**ONCOGENIC VIRUSES**

*INIS: 1976-03-17; ETDE: 1975-08-19*

- UF epstein-barr virus*
- UF rous sarcoma virus*
- UF sv40 virus*
- UF tumor viruses*
- \*BT1 viruses
- NT1 adenovirus
- NT1 leukemia viruses
- NT1 polyoma virus
- RT carcinogenesis*
- RT leukemia*
- RT oncogenes*

**ONCOVIN**

*INIS: 1976-05-07; ETDE: 1976-08-04*

- UF vincristine sulfate*
- \*BT1 alkaloids
- \*BT1 antimitotic drugs

**ONDULATOR RADIATION**

*\*BT1 bremsstrahlung*

**one-boson-exchange model**

*USE obe model*

**ONE-DIMENSIONAL CALCULATIONS**

- UF 1-dimensional calculations*
- UF calculations (1-dimensional)*
- RT adjoint difference method*
- RT mathematics*

**ONE-GROUP THEORY**

*\*BT1 neutron transport theory*

**ONE-NUCLEON TRANSFER REACTIONS**

*\*BT1 transfer reactions*

**ONIKOBE GEOTHERMAL FIELD**

*INIS: 2000-04-12; ETDE: 1975-11-28*

- BT1 geothermal fields
- RT japan*

**ONIONS**

*1999-08-10*

- \*BT1 liliopsida
- \*BT1 vegetables
- NT1 allium cepa
- RT bulbs*
- RT hylemya antiqua*
- RT sprout inhibition*

**onsager principle**

*USE onsager relations*

**ONSAGER RELATIONS**

- UF onsager principle*
- UF onsager symmetry relations*
- RT irreversible processes*
- RT pressure gradients*
- RT temperature gradients*
- RT thermodynamics*

**onsager symmetry relations**

*USE onsager relations*

**ONSHORE SITES**

*INIS: 1992-10-05; ETDE: 1979-12-10*

*To be used only in conjunction with offshore sites if the paper discusses both.*

*RT offshore sites*

**ONSHORE BAY**

*INIS: 2000-04-12; ETDE: 1977-06-02*

- \*BT1 atlantic ocean
- \*BT1 bays
- RT north carolina*
- RT south atlantic bight*

**ONTARIO**

- \*BT1 canada
- NT1 chalk river
- NT1 deep river
- NT1 elliot lake
- RT ottawa river*
- RT st lawrence river*

**ontario phwr pickering-1 reactor**

*2000-04-12*

*USE pickering-1 reactor*

**ontario phwr pickering-2 reactor**

*2000-04-12*

*USE pickering-2 reactor*

**ontario phwr pickering-3 reactor**

*2000-04-12*

*USE pickering-3 reactor*

**ontario phwr pickering-4 reactor**

*2000-04-12*

*USE pickering-4 reactor*

**ontario phwr pickering-5 reactor**

*INIS: 1977-11-21; ETDE: 2002-04-17*

*USE pickering-5 reactor*

**ontario phwr pickering-6 reactor**

*INIS: 1977-11-21; ETDE: 2002-04-17*

*USE pickering-6 reactor*

**ontario phwr pickering-7 reactor**

*INIS: 1977-11-21; ETDE: 2002-04-17*

*USE pickering-7 reactor*

**ontario phwr pickering-8 reactor**

*INIS: 1977-11-21; ETDE: 2002-04-17*

*USE pickering-8 reactor*

**ONTOGENESIS**

*1996-04-30*

- UF embryonic development*
- RT animal growth*
- RT apoptosis*
- RT cell differentiation*



RT embryos  
 RT fetuses  
 RT genotype  
 RT growth factors  
 RT metamorphosis  
 RT morphogenesis  
 RT phenotype  
 RT zygotes

**ONUMA GEOTHERMAL FIELD**

2000-04-12

BT1 geothermal fields  
 RT hachimantai  
 RT japan

**OOCYTES**

BT1 germ cells  
 RT ova

**OOGENESIS**

BT1 gametogenesis  
 RT oogenesis  
 RT ova  
 RT ovaries  
 RT reproduction

**OOGONIA**

INIS: 1975-11-07; ETDE: 1975-12-16

BT1 germ cells  
 RT oogenesis

**OPACITY**

UF optical density  
 UF transparency  
 SF absorptivity (optical)  
 \*BT1 optical properties  
 RT attenuation  
 RT light transmission  
 RT schlieren method  
 RT transmission  
 RT visibility  
 RT visible radiation

**OPAL REACTOR**

2005-07-22

Open Pool Australian Light water reactor,  
 ANSTO, Lucas Heights site, Sydney, Australia.

UF australian replacement research  
 reactor

\*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 thermal reactors

**OPALS**

INIS: 1999-03-03; ETDE: 1980-03-04

An amorphous form of silica containing a  
 varying portion of water occurring in nearly all  
 colors.

\*BT1 silica

**OPE MODEL**

UF pion-exchange model  
 \*BT1 obe model  
 NT1 electric born model  
 RT ope potential

**OPE POTENTIAL**

BT1 potentials  
 NT1 gammel-thaler potential  
 RT nucleon-nucleon potential  
 RT nucleons  
 RT ope model

**OPEC**

INIS: 1997-01-06; ETDE: 1975-08-19

Organization of Oil Exporting Countries.

BT1 international organizations  
 BT1 oil-exporting countries  
 RT algeria  
 RT cartels

RT ecuador  
 RT gabon  
 RT indonesia  
 RT iran  
 RT iraq  
 RT kuwait  
 RT libyan arab jamahiriya  
 RT middle east  
 RT nigeria  
 RT oapec  
 RT petroleum  
 RT qatar  
 RT saudi arabia  
 RT united arab emirates  
 RT venezuela

**open-circuit voltage**

2006-01-19

USE electric potential

**OPEN CONFIGURATIONS**

UF magnetic traps (open)  
 BT1 magnetic field configurations  
 NT1 baseball seam configurations  
 NT1 cusped geometries  
 NT1 magnetic mirror configurations  
 NT2 tlm configurations  
 NT1 minimum-b configurations  
 RT open plasma devices

**OPEN-CYCLE COOLING SYSTEMS**

1977-09-06

UF wet-type cooling towers

\*BT1 cooling systems  
 RT coolant loops  
 RT cooling towers  
 RT open-cycle systems  
 RT reactor cooling systems

**OPEN-CYCLE MHD GENERATORS**

\*BT1 mhd generators  
 RT closed-cycle mhd generators

**OPEN-CYCLE SYSTEMS**

INIS: 2000-04-12; ETDE: 1975-12-16

RT lift cycles  
 RT open-cycle cooling systems

**open-flow collectors**

INIS: 2000-04-12; ETDE: 1978-09-11

USE trickle-type collectors

**OPEN-LOOP CONTROL**

INIS: 1976-09-06; ETDE: 1976-11-01

Without feedback.

BT1 control

**open pit mining**

INIS: 1975-11-07; ETDE: 2002-02-27

USE surface mining

**OPEN PLASMA DEVICES**

BT1 thermonuclear devices  
 NT1 baseball devices  
 NT1 linear pinch devices  
 NT2 linear hard core pinch devices  
 NT2 linear screw pinch devices  
 NT2 linear theta pinch devices  
 NT3 isar devices  
 NT3 scylla devices  
 NT2 linear z pinch devices  
 NT1 magnetic mirrors  
 NT2 2x devices  
 NT2 alice  
 NT2 beta ii devices  
 NT2 bumpy tori  
 NT3 elmo bumpy torus  
 NT2 burnout devices  
 NT2 circe devices  
 NT2 deca devices  
 NT2 elmo devices  
 NT3 elmo bumpy torus

NT2 gol-3 device  
 NT2 imp device  
 NT2 mftf devices  
 NT2 ogra  
 NT2 phoenix devices  
 NT2 pleiade device  
 NT2 reversed-field mirrors  
 NT2 tandem mirrors  
 NT3 gamma 10 devices  
 NT3 phaedrus mirror devices  
 NT3 tara devices  
 NT3 tmx devices  
 NT1 plasma focus devices  
 NT2 pf-1000 device  
 NT1 q devices  
 NT2 helios devices  
 NT2 qp devices  
 RT open configurations

**OPENINGS**

NT1 apertures  
 NT1 doors  
 NT2 storm doors  
 NT1 orifices  
 NT1 stomata  
 NT1 windows  
 NT2 storm windows  
 RT boreholes  
 RT caves  
 RT cavities  
 RT craters  
 RT ducts  
 RT mine shafts  
 RT shutters  
 RT vents

**OPERATING COST**

INIS: 1982-12-03; ETDE: 1979-02-23

BT1 cost  
 RT capitalized cost  
 RT economic analysis

**OPERATING LICENSES**

INIS: 1976-12-08; ETDE: 1978-03-08

BT1 licenses  
 RT licensing procedures  
 RT licensing regulations

**operating systems (computer)**

INIS: 1988-11-16; ETDE: 2002-04-17

USE executive codes

**OPERATION**

NT1 reactor operation  
 RT maintenance  
 RT motor vehicle operators  
 RT standby mode  
 RT start-up

**operation (fission reactor)**

INIS: 1982-11-30; ETDE: 2002-04-17

USE reactor operation

**operation (reactor)**

2000-04-12

USE reactor operation

**OPERATIONAL AMPLIFIERS**

\*BT1 amplifiers

**operations offices**

INIS: 2000-04-12; ETDE: 1983-03-24

USE us doe field offices

**operations research**

INIS: 1986-07-09; ETDE: 1982-09-10

(Prior to March 1997 this was a valid ETDE  
 descriptor.)

SEE decision making  
 SEE input-output analysis  
 SEE management  
 SEE mathematical models

SEE optimization

## OPERATOR PRODUCT EXPANSION

INIS: 1988-11-16; ETDE: 1988-12-05

BT1 series expansion  
RT gauge invariance  
RT quantum operators

### operators (mathematical)

USE mathematical operators

### operators (nuclear facilities)

INIS: 1976-12-08; ETDE: 2002-04-17

USE nuclear operators

### operators (quantum field theory)

INIS: 1993-11-09; ETDE: 2002-04-17

USE quantum operators

### operators (quantum mechanical)

USE quantum operators

## OPHTHALMOLOGY

BT1 medicine  
RT eyes  
RT sense organs diseases

## opiates

INIS: 2000-04-12; ETDE: 1981-04-20

USE narcotics

## OPIUM

INIS: 2000-04-12; ETDE: 1979-03-29

\*BT1 analgesics  
\*BT1 narcotics  
NT1 morphine  
NT2 thebaine  
RT papaver somniferum

## opix process

INIS: 2000-04-12; ETDE: 1980-03-29

Separation of trivalent actinides and rare earths from other fission products in HLW by oxalate precipitation followed by ion exchange.

(Prior to April 1994, this was a valid ETDE descriptor.)

USE radioactive waste processing

## opossum

USE marsupials

## OPPENHEIMER-PHILLIPS

### PROCESS

RT direct reactions  
RT nuclear reactions  
RT stripping

## OPTICAL ACTIVITY

INIS: 1977-06-13; ETDE: 1976-02-19

The ability to rotate the plane of vibration of polarized light.

UF activity (optical)  
\*BT1 optical properties  
RT crystal structure  
RT molecular structure  
RT polarization  
RT stereochemistry

### optical antipodes

INIS: 1994-06-27; ETDE: 1976-02-23

USE enantiomorphs

### optical computers

INIS: 2000-04-12; ETDE: 1986-02-21

(Prior to March 1997 this was a valid ETDE descriptor.)

USE computers

### optical density

USE opacity

## OPTICAL DEPTH CURVE

INIS: 1975-08-22; ETDE: 1976-08-24

\*BT1 diagrams  
NT1 spectroscopic curve of growth  
RT absorption spectra  
RT cosmic gases  
RT line broadening  
RT optical properties  
RT oscillator strengths

## OPTICAL DISPERSION

RT diffraction  
RT optics  
RT refraction  
RT refractive index

## OPTICAL EQUIPMENT

1975-11-07

UF optical scanners  
UF scanners (optical)  
BT1 equipment  
RT antireflection coatings  
RT fiber optics  
RT optical fibers  
RT parametric oscillators

## OPTICAL FIBERS

INIS: 1982-09-21; ETDE: 1982-03-10

Long, thin threads of transparent materials used to transmit light.

UF light guides  
BT1 fibers  
RT fiber optics  
RT optical equipment  
RT optical systems

## OPTICAL FILTERS

BT1 filters  
RT optical systems

## optical isomers

1994-06-27

USE enantiomorphs

## OPTICAL MICROSCOPES

BT1 microscopes

## OPTICAL MICROSCOPY

BT1 microscopy  
NT1 scanning light microscopy

## OPTICAL MODELS

1996-01-24

UF jeshbach-porter-weisskopf model  
UF kisslinger model  
UF models (optical)  
BT1 mathematical models  
RT atomic models  
RT cloudy crystal ball model  
RT fsc approximation  
RT nuclear models  
RT nuclear potential  
RT particle models  
RT perey-buck model  
RT woods-saxon potential

## OPTICAL MODES

UF modes (optical)  
BT1 oscillation modes

## OPTICAL PROPERTIES

BT1 physical properties  
NT1 brightness  
NT1 color  
NT1 emissivity  
NT1 luminosity  
NT1 opacity  
NT1 optical activity  
NT1 reflectivity  
NT1 refractive index  
NT1 spectral reflectance  
RT absorptivity

RT birefringence  
RT dichroism  
RT diffraction  
RT electro-optical effects  
RT fiber optics  
RT geometrical aberrations  
RT light scattering  
RT light transmission  
RT magneto-optical effects  
RT mirrors  
RT optical depth curve  
RT optical systems  
RT optics  
RT reflective coatings  
RT refraction  
RT spectroscopic curve of growth  
RT visibility

## OPTICAL PUMPING

2000-03-28

UF pumping (laser)  
BT1 pumping  
RT double resonance methods  
RT electrical pumping  
RT excitation  
RT lasers  
RT nuclear pumping  
RT stimulated emission

## OPTICAL PYROMETERS

\*BT1 pyrometers  
RT temperature measurement

## OPTICAL RADAR

INIS: 1992-04-13; ETDE: 1979-01-30

UF lidar  
\*BT1 radar  
RT laser radiation  
RT lasers  
RT optical systems  
RT remote sensing

## OPTICAL REFLECTION

1994-09-08

BT1 reflection  
RT optics

## optical scanners

INIS: 2000-04-12; ETDE: 1977-04-12

Single-unit combinations of a light source and phototube for scanning moving strips of paper or other materials in photoelectric side-register control systems.

(Prior to March 1997 this was a valid ETDE descriptor.)

USE image scanners  
USE optical equipment

## OPTICAL SPECTROMETERS

\*BT1 spectrometers

## OPTICAL SYSTEMS

NT1 periscopes  
RT antireflection coatings  
RT beam optics  
RT diffraction gratings  
RT fiber optics  
RT lenses  
RT lighting systems  
RT mirrors  
RT optical fibers  
RT optical filters  
RT optical properties  
RT optical radar  
RT optics  
RT remote viewing equipment  
RT shutters  
RT solar reflectors  
RT telescopes

## OPTICAL THEOREM

RT small angle scattering

**OPTICALLY THICK PLASMA**

BT1 plasma

**OPTICALLY THIN PLASMA**

BT1 plasma

**OPTICS**

INIS: 1978-01-13; ETDE: 1976-04-19

NT1 fiber optics  
 NT1 nonlinear optics  
 RT beam optics  
 RT illuminance  
 RT incidence angle  
 RT optical dispersion  
 RT optical properties  
 RT optical reflection  
 RT optical systems  
 RT quantum electronics

**OPTIMAL CONTROL**

INIS: 1976-09-06; ETDE: 1976-11-01

BT1 control  
 RT optimization

**OPTIMIZATION**

(From September 1982 till March 1997  
 OPERATIONS RESEARCH was a valid  
 ETDE descriptor.)

SF *operations research*  
 NT1 minimization  
 RT alara  
 RT augmentation  
 RT control  
 RT control systems  
 RT control theory  
 RT dynamic programming  
 RT econometrics  
 RT linear programming  
 RT mitigation  
 RT modifications  
 RT nonlinear programming  
 RT optimal control  
 RT parametric analysis  
 RT planning  
 RT variational methods

**optoacoustic cells**

INIS: 1978-02-23; ETDE: 1978-05-01

USE photoacoustic spectrometers

**OR-CEF REACTOR**

ORNL, Oak Ridge, Tennessee, USA.

UF *cef-or reactor*  
 UF *critical experiments facility oak ridge*  
 UF *oak ridge critical experiments facility*  
 \*BT1 zero power reactors

**ORAL ADMINISTRATION**

UF *gastric administration*  
 BT1 intake  
 RT ingestion  
 RT intestinal absorption  
 RT radionuclide administration

**ORAL CAVITY**

UF *lips*  
 UF *mouth*  
 BT1 digestive system  
 NT1 teeth  
 NT1 tongue  
 RT face  
 RT head  
 RT ingestion  
 RT pharynx  
 RT salivary glands

**orange event**

INIS: 1994-10-14; ETDE: 1976-03-12

*A test made during PROJECT HARDTACK.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE atmospheric explosions  
 USE nuclear explosions

**orange-type spectrometers**

USE flat magnetic spectrometers

**ORANGES**

\*BT1 fruits  
 RT citrus

**ORAU**

UF *oak ridge associated universities*  
 \*BT1 us organizations

**ORBIT STABILITY**

BT1 stability  
 RT beam dynamics

**ORBITAL ANGULAR MOMENTUM**

BT1 angular momentum  
 RT fractional-parentage coefficients  
 RT j-j coupling  
 RT l-s coupling  
 RT spin

**ORBITAL MOMENTUM****OPERATORS**

\*BT1 angular momentum operators

**ORBITAL SOLAR POWER PLANTS**

1993-02-18

UF *satellite power system*  
 UF *satellite solar power stations*  
 \*BT1 solar power plants  
 RT orbital solar reflectors  
 RT satellites

**ORBITAL SOLAR REFLECTORS**

INIS: 2000-04-12; ETDE: 1980-02-11

*For providing concentrated solar radiation to ground-based solar power plants.*

\*BT1 solar reflectors  
 RT orbital solar power plants  
 RT solar power plants

**orbiting geophysical observatory**

INIS: 1993-11-09; ETDE: 2002-04-17

USE ogo satellites

**ORBITING SOLAR OBSERVATORIES**

BT1 satellites  
 RT space flight  
 RT sun

**ORBITS***For electron orbits in atoms use**ELECTRONIC STRUCTURE.*

RT beam dynamics  
 RT limit cycle  
 RT precession  
 RT trajectories

**orc flash pyrolysis process**

INIS: 2000-04-12; ETDE: 1977-06-02

USE occidental flash pyrolysis process

**ORDER-DISORDER MODEL**

INIS: 1977-09-15; ETDE: 1977-11-10

\*BT1 nuclear models  
 RT fission

**ORDER-DISORDER****TRANSFORMATIONS**

BT1 phase transformations  
 RT crystal-phase transformations  
 RT ising model  
 RT superlattices

**ORDER PARAMETERS**

BT1 dimensionless numbers  
 RT crystal structure  
 RT wilson loop

**ORDERS**

INIS: 2000-04-12; ETDE: 1997-03-31

(From December 1979 till March 1997

CONSENT ORDERS was a valid ETDE descriptor.)

UF *consent orders*  
 BT1 administrative procedures

**ordnance**

INIS: 2000-04-12; ETDE: 1975-08-19

(Prior to March 1997 this was a valid ETDE descriptor.)

USE military equipment

**ORDOVICIAN PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19

\*BT1 paleozoic era

**ORE COMPOSITION**

UF *abundance (mineral)*  
 RT abundance  
 RT availability  
 RT mining  
 RT natural occurrence  
 RT ores

**ORE CONCENTRATES**

UF *concentrates (ore)*  
 UF *enriched materials (ores)*  
 NT1 uranium concentrates  
 RT ore enrichment

**ORE ENRICHMENT**

1996-07-08

UF *enrichment (ores)*  
 BT1 enrichment  
 \*BT1 ore processing  
 BT1 separation processes  
 RT flotation  
 RT leaching  
 RT ore concentrates

**ORE PROCESSING**

2000-02-01

UF *processing (ores)*  
 BT1 processing  
 NT1 ore enrichment  
 NT1 retorting  
 NT2 in-situ retorting  
 RT crushing  
 RT flotation  
 RT in-situ processing  
 RT leaching  
 RT mill tailings  
 RT ores  
 RT process control  
 RT radiometric sorting  
 RT refining  
 RT slurries  
 RT tailings  
 RT thiobacillus oxidans  
 RT uranium concentrates

**ore reserves**

*Index by coordination of RESERVES with ORES or with the descriptor for a specific type of ore.*

USE reserves

**OREGON**

1997-06-17

\*BT1 usa  
 NT1 mt hood  
 RT cascade mountains  
 RT columbia river basin  
 RT klamath falls

RT snake river plain  
RT us west coast

**oregon state triga reactor**

USE ostr reactor

**ORELA**

*Oak Ridge Electron Linear Accelerator.*

\*BT1 linear accelerators

**ORES**

*1996-07-23*

(Prior to March 1997 RHENIUM ORES and SELENIUM ORES were valid ETDE descriptors.)

UF rhenium ores

UF selenium ores

NT1 aluminum ores

NT2 bauxite

NT1 bismuth ores

NT1 chromium ores

NT1 cobalt ores

NT1 copper ores

NT1 gold ores

NT1 iron ores

NT2 hematite

NT2 limonite

NT2 magnetite

NT2 siderite

NT1 lead ores

NT1 manganese ores

NT1 molybdenum ores

NT1 nickel ores

NT1 niobium ores

NT1 polymetallic ores

NT1 silver ores

NT1 sulfur ores

NT1 tantalum ores

NT1 tellurium ores

NT1 thorium ores

NT1 tin ores

NT1 titanium ores

NT1 tungsten ores

NT1 uranium ores

NT2 caldasite

NT2 uranium concentrates

NT1 vanadium ores

NT1 yttrium ores

NT1 zinc ores

NT1 zirconium ores

RT environmental materials

RT geologic deposits

RT minerals

RT ore composition

RT ore processing

**organ cultures**

USE tissue cultures

**organelles**

*INIS: 2000-04-12; ETDE: 1985-10-10*

USE cell constituents

**ORGANIC ACIDS**

*1996-06-26*

*Not for the concepts covered by NUCLEIC ACIDS and NUCLEOTIDES.*

UF acids (organic)

UF cacodylic acid

UF sulfinic acids

BT1 organic compounds

NT1 arsonic acids

NT2 arsenazo

NT1 boronic acids

NT1 carboxylic acids

NT2 amino acids

NT3 alanines

NT4 alanine-alpha

NT5 alanine-l

NT4 alanine-beta

NT3 aminobutyric acid

NT3 aminolevulinic acid

NT3 anthranilic acid

NT3 arginine

NT3 asparagine

NT3 aspartic acid

NT3 betaine

NT3 carnitine

NT3 cda

NT3 citrulline

NT3 creatine

NT3 cysteine

NT3 cystine

NT3 dcta

NT3 diiodotyrosine

NT3 dopa

NT3 dtpa

NT3 eddha

NT3 edta

NT3 ethionine

NT3 folic acid

NT3 glutamic acid

NT4 pyridoxylidene glutamate

NT3 glutamine

NT3 glycine

NT3 glycyglycine

NT3 hedta

NT3 heida

NT3 hippuric acid

NT3 histidine

NT3 homocysteine

NT3 hydroxyproline

NT3 hydroxytryptophan

NT3 kynurenine

NT3 leucine

NT3 lysine

NT3 methionine

NT3 methyl red

NT3 methyl tyrosine

NT3 mimosine

NT3 mpg

NT3 nta

NT3 ornithine

NT3 paba

NT3 pantothenic acid

NT3 penicillamine

NT3 phenylalanine

NT3 phosphocreatine

NT3 proline

NT3 sarcosine

NT3 serine

NT3 tetaha

NT3 threonine

NT3 thyronine

NT3 thyroxine

NT3 tryptophan

NT3 tyrosine

NT3 valine

NT2 bile acids

NT3 cholic acid

NT2 carminic acid

NT2 dicarboxylic acids

NT3 adipic acid

NT3 fumaric acid

NT3 glutaric acid

NT3 itaconic acid

NT3 maleic acid

NT3 malonic acid

NT3 oxalic acid

NT3 phthalic acid

NT3 sebacic acid

NT3 succinic acid

NT3 terephthalic acid

NT2 egta

NT2 glyoxylic acid

NT2 heterocyclic acids

NT3 bilirubin

NT3 biotin

NT3 histidine

NT3 hydroxyproline

NT3 lysergic acid

NT3 nicotinic acid

NT3 orotic acid

NT3 picolinic acid

NT3 porphyrins

NT4 chlorins

NT4 chlorophyll

NT4 hematomorphyrins

NT4 heme

NT4 hemoglobin

NT5 methemoglobin

NT4 hemosiderin

NT4 myoglobin

NT4 protoporphyrins

NT3 proline

NT3 rhodamines

NT3 thioctic acid

NT3 tryptophan

NT3 urocanic acid

NT2 hydroxy acids

NT3 acetylsalicylic acid

NT3 benzilic acid

NT3 carnitine

NT3 citric acid

NT3 diiodotyrosine

NT3 dopa

NT3 eddha

NT3 eosin

NT3 fluorescein

NT4 erythrosine

NT3 galacturonic acid

NT3 gallic acid

NT3 gibberellic acid

NT3 gluconic acid

NT3 glucuronic acid

NT3 glyceric acid

NT3 glycolic acid

NT3 hedta

NT3 heida

NT3 hydroxyproline

NT3 hydroxytryptophan

NT3 lactic acid

NT3 malic acid

NT3 mandelic acid

NT3 methyl tyrosine

NT3 mevalonic acid

NT3 pantothenic acid

NT3 rose bengal

NT3 salicylic acid

NT3 serine

NT3 shikimic acid

NT3 tartaric acid

NT3 threonine

NT3 thyronine

NT3 tyrosine

NT2 keto acids

NT3 acetoacetic acid

NT3 kynurenine

NT3 levulinic acid

NT3 pyruvic acid

NT2 mellitic acid

NT2 monocarboxylic acids

NT3 abscisic acid

NT3 acetic acid

NT3 acrylic acid

NT3 arachidonic acid

NT3 benzoic acid

NT3 butyric acid

NT3 chlorambucil

NT3 cinnamic acid

NT3 crotonic acid

NT3 decanoic acid

NT3 dodecanoic acid

NT3 eicosanoic acid

NT3 formic acid

NT3 glycolic acid

NT3 heptanoic acid

NT3 hexadecanoic acid

NT3 hexanoic acid

NT3 isobutyric acid  
 NT3 isovaleric acid  
 NT3 linoleic acid  
 NT3 linolenic acid  
 NT3 methacrylic acid  
 NT3 nicotinic acid  
 NT3 nonanoic acid  
 NT3 octadecanoic acid  
 NT3 octanoic acid  
 NT3 oleic acid  
 NT3 pethidine  
 NT3 pivalic acid  
 NT3 propionic acid  
 NT3 sorbic acid  
 NT3 tetradecanoic acid  
 NT3 uronic acids  
 NT3 valeric acid  
 NT2 tannic acid  
 NT1 coal tar acids  
 NT1 fulvic acids  
 NT1 humic acids  
 NT1 mdpa  
 NT1 phosphinic acids  
 NT1 phosphonic acids  
 NT1 phytic acid  
 NT1 shale tar acids  
 NT1 sulfonic acids  
   NT2 arsenazo  
   NT2 bromosulfophthalein  
   NT2 chromotropic acid  
   NT2 eriochrome dyes  
   NT2 evans blue  
   NT2 ferron  
   NT2 methyl orange  
   NT2 nitroso-r salt  
   NT2 sulfanilic acid  
   NT2 taurine  
   NT2 thorin  
   NT2 tiron  
   NT2 trypan blue  
   NT2 unithiol  
 NT1 thioic acids  
 RT acidification  
 RT anhydrides  
 RT chloranilic acid  
 RT hydrazides  
 RT hydroxamic acids  
 RT nucleotides  
 RT ph value  
 RT picric acid  
 RT rhodizonic acid  
 RT sialic acid  
 RT soaps  
 RT uric acid

**ORGANIC ARSENIC COMPOUNDS**

1999-06-18

UF *arsonates*  
 BT1 organic compounds  
 NT1 arsenic acids  
   NT2 arsenazo  
 RT arsenic compounds

**ORGANIC BORON COMPOUNDS**

BT1 organic compounds  
 NT1 carboranes  
 RT boron compounds

**ORGANIC BROMINE COMPOUNDS**

UF *bromamines*  
 UF *brominated alicyclic hydrocarbons*  
 UF *brominated hydrocarbons*  
 \*BT1 organic halogen compounds  
 NT1 brominated aliphatic hydrocarbons  
   NT2 bromoform  
   NT2 methyl bromide  
 NT1 brominated aromatic hydrocarbons  
 NT1 bromosulfophthalein  
 NT1 bromouracils  
   NT2 budr

NT1 eosin  
 RT bromine compounds

**ORGANIC CHLORINE COMPOUNDS**

1996-10-23

UF *chlorinated hydrocarbons*  
 UF *iodochloroquine*  
 UF *thiophosgene*  
 \*BT1 organic halogen compounds  
 NT1 chloral  
 NT1 chlorambucil  
 NT1 chloramines  
 NT1 chloranil  
 NT1 chlorinated alicyclic hydrocarbons  
   NT2 lindane  
 NT1 chlorinated aliphatic hydrocarbons  
   NT2 carbon tetrachloride  
   NT2 chloroform  
   NT2 methyl chloride  
   NT2 pvc  
   NT2 vinyl chloride  
 NT1 chlorinated aromatic hydrocarbons  
   NT2 aldrin  
   NT2 polychlorinated biphenyls  
 NT1 chlorofluorocarbons  
 NT1 chlorouracils  
 NT1 chlorpromazine  
 NT1 ddt  
 NT1 kel-f  
 NT1 methylene chloride  
 NT1 neoprene  
 NT1 nitrogen mustard  
 NT1 phosgene  
 NT1 rose bengal  
 RT chlorine compounds  
 RT kepone

**ORGANIC COMPOUNDS**

UF *compounds (organic)*  
 UF *voc*  
 SF *chemicals*  
 SF *renewable resources*  
 NT1 aldehydes

  NT2 acetaldehyde  
   NT2 acrolein  
   NT2 aldosterone  
   NT2 arabinose  
   NT2 benzaldehyde  
   NT2 chloral  
   NT2 deoxyribose  
   NT2 formaldehyde  
   NT2 furfural  
   NT2 galactose  
   NT2 galacturonic acid  
   NT2 glucose  
   NT2 glucuronic acid  
   NT2 glyoxal  
   NT2 glyoxylic acid  
   NT2 mannose  
   NT2 pyridoxal  
   NT2 ribose  
   NT2 xylose  
 NT1 alkaloids  
   NT2 atropine  
   NT2 cocaine  
   NT2 codeine  
   NT2 colchicine  
   NT2 ephedrine  
   NT2 ergotamine  
   NT2 eserine  
   NT2 lysergic acid  
   NT2 morphine  
   NT3 thebaine  
   NT2 nicotine  
   NT2 oncovin  
   NT2 pilocarpine  
   NT2 quinine  
   NT2 reserpine  
   NT2 strychnine

NT2 vinblastine  
 NT1 amines  
   NT2 acridine orange  
   NT2 adenines  
   NT3 kinetin  
   NT2 aminopterin  
   NT2 amphetamines  
   NT3 benzedrine  
   NT2 aniline  
   NT2 benzidine  
   NT2 beta-aminoethyl isothiurea  
   NT2 bph  
   NT2 cadaverine  
   NT2 catecholamines  
   NT2 chlorambucil  
   NT2 chloramines  
   NT2 chlorpromazine  
   NT2 cupferron  
   NT2 cystamine  
   NT2 cystaphos  
   NT2 cysteamine  
   NT2 cytosine  
   NT2 deferoxamine  
   NT2 dopamine  
   NT2 ephedrine  
   NT2 flavines  
   NT3 acriflavine  
   NT3 proflavine  
   NT2 gammaphos  
   NT2 guanine  
   NT2 hexosamines  
   NT3 glucosamine  
   NT2 histamine  
   NT2 hydroxamic acids  
   NT3 benzohydroxamic acid  
   NT2 hydroxylamine  
   NT2 imipramine  
   NT2 luminol  
   NT2 melamine  
   NT2 methyl orange  
   NT2 methyl violet  
   NT2 methylamine  
   NT2 methylene blue  
   NT2 morpholines  
   NT2 mucopolysaccharides  
   NT3 chitin  
   NT3 chondroitin  
   NT3 heparin  
   NT3 hyaluronic acid  
   NT2 nitrogen mustard  
   NT2 nitrosamines  
   NT2 oximes  
   NT3 benzoinoxime  
   NT3 dimethylglyoxime  
   NT2 piperidines  
   NT3 dipyrindamole  
   NT3 pethidine  
   NT3 triacetoneamine-n-oxyl  
   NT2 polycyclic aromatic amines  
   NT2 primene  
   NT2 putrescine  
   NT2 pyrrolidines  
   NT3 hydroxyproline  
   NT3 nicotine  
   NT3 proline  
   NT2 quaternary compounds  
   NT3 acetylcholine  
   NT3 betaine  
   NT3 choline  
   NT3 pyridinium compounds  
   NT2 rhodamines  
   NT2 spermidine  
   NT2 spermine  
   NT2 sulfanilic acid  
   NT2 taurine  
   NT2 tda  
   NT2 teta  
   NT2 tetryl  
   NT2 thiamine

- NT2 thionine  
 NT2 toluidines  
 NT2 tridodecylamine  
 NT2 trioctylamine  
 NT2 trypan blue  
 NT2 tryptamines  
   NT3 melatonin  
   NT3 serotonin  
   NT4 bufotenine  
 NT2 tyramine  
 NT2 urotropin  
 NT1 antibiotics  
   NT2 actinomycin  
   NT2 bleomycin  
   NT2 chloramphenicol  
   NT2 cycloheximide  
   NT2 doxorubicin  
   NT2 erythromycin  
   NT2 mitomycin  
   NT2 neocarzinostatin  
   NT2 neomycin  
   NT2 penicillin  
   NT2 puromycin  
   NT2 streptomycin  
   NT2 streptozocin  
   NT2 tetracyclines  
   NT3 oxytetracycline  
   NT2 valinomycin  
 NT1 aromatics  
   NT2 acetophenone  
   NT2 alkylated aromatics  
     NT3 mesitylene  
     NT3 methylnaphthalenes  
     NT3 styrene  
     NT3 toluene  
     NT3 xylenes  
       NT4 xylene-para  
   NT2 aniline  
   NT2 azaarenes  
     NT3 acridines  
       NT4 acridine orange  
       NT4 flavines  
       NT5 acriflavine  
       NT5 proflavine  
     NT3 carbazoles  
     NT3 indoles  
       NT4 indigo  
       NT4 indocyanine green  
       NT4 lysergic acid  
       NT4 reserpine  
       NT4 strychnine  
       NT4 tryptamines  
       NT5 melatonin  
       NT5 serotonin  
       NT6 bufotenine  
     NT4 tryptophan  
     NT4 vinblastine  
   NT3 phenanthrolines  
     NT4 feroin  
     NT4 phenanthroline-ortho  
   NT3 pteridines  
     NT4 aminopterin  
     NT4 folic acid  
   NT3 purines  
     NT4 adenines  
     NT5 kinetin  
     NT4 guanine  
     NT4 guanosine  
     NT4 hypoxanthine  
     NT4 inosine  
     NT4 mercaptopurine  
     NT4 xanthines  
       NT5 caffeine  
       NT5 theobromine  
       NT5 theophylline  
       NT5 uric acid  
   NT3 quinolines  
     NT4 ferron  
     NT4 oxine  
   NT4 quinaldine  
 NT2 benzene  
 NT2 benzidine  
 NT2 benzyl alcohol  
 NT2 bibenzyl  
 NT2 biphenyl  
 NT2 condensed aromatics  
   NT3 3-methylcholanthrene  
   NT3 acenaphthene  
   NT3 anthracene  
   NT3 benzanthracene  
   NT3 benzopyrene  
   NT3 calixarenes  
   NT3 cholanthrene  
   NT3 chrysene  
   NT3 dimethylbenzanthracene  
   NT3 fluorene  
   NT3 indene  
   NT3 indocyanine green  
   NT3 methylnaphthalenes  
   NT3 naphthalene  
   NT3 pentacene  
   NT3 perylene  
   NT3 phenanthrene  
   NT3 pyrene  
   NT3 tetracene  
   NT3 triphenylene  
 NT2 cumene  
 NT2 cymene  
 NT2 ddt  
 NT2 divinylbenzene  
 NT2 durene  
 NT2 halogenated aromatic hydrocarbons  
   NT3 brominated aromatic hydrocarbons  
   NT3 chlorinated aromatic hydrocarbons  
     NT4 aldrin  
     NT4 polychlorinated biphenyls  
   NT3 fluorinated aromatic hydrocarbons  
   NT3 iodinated aromatic hydrocarbons  
 NT2 indan  
 NT2 methyl tyrosine  
 NT2 mibg  
 NT2 oligophenylenes  
 NT2 pethidine  
 NT2 phenols  
   NT3 cresols  
   NT3 dinitrophenol  
   NT3 eriochrome dyes  
   NT3 hydroxypropiophenone  
   NT3 naphthols  
     NT4 1-nitroso-2-naphthol  
     NT4 nitroso-r salt  
     NT4 pyridylazonaphthol  
     NT4 thorin  
     NT4 trypan blue  
   NT3 nitrophenol  
   NT3 phenol  
   NT3 phenolphthalein  
   NT3 picric acid  
   NT3 polyphenols  
     NT4 arsenazo  
     NT4 bromosulfophthalein  
     NT4 catecholamines  
     NT4 curcumin  
     NT4 dopamine  
     NT4 fluorescein  
     NT5 erythrosine  
     NT4 hematoxylin  
     NT4 morin  
     NT4 pyridylazoresorcinol  
     NT4 pyrocatechol  
     NT4 pyrogallol  
     NT4 quercetin  
     NT4 resorcinol  
     NT4 stilbestrol  
     NT4 tannic acid  
   NT4 quinaldine  
   NT4 tiron  
   NT3 thymol  
   NT3 tyramine  
   NT3 xylenols  
 NT2 phenylalanine  
 NT2 polycyclic aromatic hydrocarbons  
   NT3 3-methylcholanthrene  
 NT2 polyphenyls  
   NT3 terphenyls  
     NT4 terphenyl-ortho  
     NT4 terphenyl-para  
 NT2 quaterphenyls  
 NT2 quinones  
   NT3 anthraquinones  
     NT4 alizarin  
     NT4 carminic acid  
     NT4 quinizarin  
   NT3 benzoquinones  
     NT4 chloranil  
     NT4 chloranilic acid  
     NT4 plastoquinone  
     NT4 ubiquinone  
   NT3 rhodizonic acid  
   NT3 vitamin k  
 NT2 stilbene  
 NT2 tetralin  
 NT2 tolan  
 NT1 carbohydrates  
   NT2 glycosides  
     NT3 cardiac glycosides  
       NT4 digitalis glycosides  
       NT5 digitoxin  
       NT5 digoxin  
     NT4 strophanthins  
       NT5 ouabain  
   NT3 saponins  
   NT3 strophanthin  
   NT3 uridine diphosphoglucose  
 NT2 saccharides  
   NT3 glycolipids  
     NT4 cerebrosides  
     NT4 gangliosides  
   NT3 glycoproteins  
     NT4 avidin  
     NT4 glucoproteins  
     NT5 lactoferrin  
     NT5 ovalbumin  
     NT4 luteinizing hormone  
   NT3 monosaccharides  
     NT4 erythritol  
     NT4 hexoses  
       NT5 fructose  
       NT5 galactose  
       NT5 glucose  
       NT5 hexosamines  
       NT6 glucosamine  
       NT5 mannose  
       NT5 sorbose  
     NT4 inositols  
       NT5 inositol  
     NT4 pentoses  
       NT5 arabinose  
       NT5 deoxyribose  
       NT5 ribose  
       NT5 ribulose  
       NT5 xylose  
     NT4 sorbitol  
   NT3 oligosaccharides  
     NT4 disaccharides  
       NT5 cellobiose  
       NT5 lactose  
       NT5 maltose  
       NT5 saccharose  
     NT4 raffinose  
   NT3 polysaccharides  
     NT4 agar  
     NT4 alginic acid  
     NT4 cellophane  
     NT4 cellulose

- NT4 dextran  
 NT4 dextrin  
 NT4 glycogen  
 NT4 gum acacia  
 NT4 hemicellulose  
   NT5 xylans  
 NT4 inulin  
 NT4 lignin  
 NT4 lipopolysaccharides  
 NT4 mucopolysaccharides  
   NT5 chitin  
   NT5 chondroitin  
   NT5 heparin  
   NT5 hyaluronic acid  
 NT4 mucoproteins  
   NT5 haptoglobins  
   NT5 intrinsic factor  
   NT5 phytohemagglutinin  
 NT4 nitrocellulose  
 NT4 pectins  
 NT4 rayon  
 NT4 starch  
 NT4 viscose  
 NT4 xanthan gum  
 NT1 carbonic acid derivatives  
   NT2 carbamates  
   NT3 dedtc  
   NT3 urethane  
 NT2 carbazides  
 NT2 carbazones  
   NT3 dithizone  
 NT2 cyanamides  
 NT2 cyanates  
 NT2 dpca  
 NT2 guanidines  
   NT3 mibg  
 NT2 isocyanates  
 NT2 isonitriles  
 NT2 isothiocyanates  
 NT2 mercaptoethylguanidine  
 NT2 methyl nitrosourea  
 NT2 phosgene  
 NT2 semicarbazides  
 NT2 semicarbazones  
 NT2 thiocyanates  
   NT3 ammonium thiocyanates  
 NT2 thioureas  
   NT3 beta-aminoethyl isothiourea  
   NT3 thiourea  
 NT2 urea  
 NT1 coal tar bases  
 NT1 esters  
   NT2 acetylcholine  
   NT2 carbonic acid esters  
   NT2 carboxylic acid esters  
     NT3 acetic acid esters  
       NT4 methyl acetate  
       NT4 polyvinyl acetate  
       NT4 vinyl acetate  
     NT3 acetoacetic acid esters  
     NT3 acrylic acid esters  
     NT3 bromosulfophthalein  
     NT3 carbamic acid esters  
     NT3 citric acid esters  
     NT3 glucoheptonate  
     NT3 malathion  
     NT3 methacrylic acid esters  
     NT3 oxalic acid esters  
     NT3 phenolphthalein  
     NT3 retinoic acid  
   NT2 cellulose esters  
     NT3 nitrocellulose  
   NT2 isocyanic acid esters  
   NT2 lactones  
     NT3 coumarin  
     NT3 gibberellic acid  
   NT2 nitric acid esters  
     NT3 nitrocellulose  
     NT3 nitroglycerin  
   NT3 peroxyacetyl nitrate  
   NT3 petn  
   NT2 nitrous acid esters  
   NT2 phorbol esters  
   NT2 phosphinic acid esters  
   NT2 phospholipids  
     NT3 cardioliipin  
     NT3 lecithins  
     NT3 sphingomyelins  
   NT2 phosphonic acid esters  
     NT3 dampa  
     NT3 dhdecmp  
   NT2 phosphoric acid esters  
     NT3 butyl phosphates  
     NT4 dbp  
     NT4 mbp  
     NT4 tbp  
   NT3 hdehp  
   NT3 mdpa  
   NT3 phytic acid  
   NT3 tcp  
   NT2 phthalic acid esters  
   NT2 polyacrylates  
     NT3 lucite  
     NT3 perspex  
     NT3 plexiglas  
     NT3 pmma  
   NT2 polyesters  
     NT3 dacron  
     NT3 homalite  
     NT3 mylar  
   NT2 sulfonic acid esters  
     NT3 alkyl benzenesulfonates  
     NT3 ethyl methanesulfonate  
     NT3 methyl methanesulfonate  
     NT3 petroleum sulfonates  
   NT2 sulfuric acid esters  
   NT2 thiophosphoric acid esters  
     NT3 cystaphos  
     NT3 gammaphos  
     NT3 parathion  
   NT2 triglycerides  
     NT3 corn oil  
     NT3 linseed oil  
     NT3 olive oil  
     NT3 peanut oil  
     NT3 soybean oil  
     NT3 triolein  
 NT1 heterocyclic compounds  
   NT2 azaarenes  
     NT3 acridines  
       NT4 acridine orange  
       NT4 flavines  
       NT5 acriflavine  
       NT5 proflavine  
     NT3 carbazoles  
     NT3 indoles  
       NT4 indigo  
       NT4 indocyanine green  
       NT4 lysergic acid  
       NT4 reserpine  
       NT4 strychnine  
       NT4 tryptamines  
       NT5 melatonin  
       NT5 serotonin  
       NT6 bufotenine  
       NT4 tryptophan  
       NT4 vinblastine  
     NT3 phenanthrolines  
       NT4 feroin  
       NT4 phenanthroline-ortho  
     NT3 pteridines  
       NT4 aminopterin  
       NT4 folic acid  
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       NT4 adenines  
       NT5 kinetin  
       NT4 guanine  
       NT4 guanosine  
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   NT4 xanthines  
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   NT3 quinolines  
   NT4 ferron  
   NT4 oxine  
   NT4 quinaldine  
   NT2 azines  
     NT3 phenothiazines  
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     NT4 methylene blue  
   NT3 pyrazines  
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     NT4 piperazines  
   NT3 pyridazines  
     NT4 phthalazines  
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     NT4 acridines  
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     NT5 flavines  
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   NT4 picolines  
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   NT4 pyridoxylidene-glutamate  
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     NT6 budr  
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     NT6 fudr  
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     NT4 allantoin

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 NT3 pentane  
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 NT3 squalane  
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 NT4 terphenyl-para  
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 NT2 toluene  
 NT2 triphenylene  
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 NT4 prednisolone  
 NT4 prednisone  
 NT3 mineralocorticoids  
 NT4 aldosterone  
 NT2 cupferron  
 NT2 ephedrine  
 NT2 estradiol



- NT2 estriol  
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   NT3 dimethylglyoxime  
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   NT3 eriochrome dyes  
   NT3 hydroxypropionophenone  
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     NT4 pyridylazonaphthol  
     NT4 thorin  
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   NT3 phenolphthalein  
   NT3 picric acid  
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     NT4 morin  
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     NT4 fudr  
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     NT4 iododeoxyuridine  
   NT3 orotic acid  
   NT3 thiouracil  
   NT3 thymine  
   NT3 uridine  
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- NT1 ketones  
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   NT2 acetylacetone  
   NT2 androstenedione  
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       NT4 prednisone  
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   NT2 estrone  
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   NT2 hydroxyandrostene  
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   NT2 testosterone  
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   NT2 tropones  
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   NT2 glycolipids  
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     NT3 lecithins  
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     NT3 soybean oil  
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     NT3 contigs  
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   NT2 nadh2  
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     NT3 fudr
- NT3 guanosine  
 NT3 inosine  
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   NT2 carboxylic acids  
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         NT5 alanine-alpha  
         NT6 alanine-l  
         NT5 alanine-beta  
       NT4 aminobutyric acid  
       NT4 aminolevulinic acid  
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       NT4 aspartic acid  
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       NT4 cystine  
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       NT4 dopa  
       NT4 dtpa  
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       NT4 edta  
       NT4 ethionine  
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       NT4 mimosine  
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       NT4 phenylalanine  
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       NT4 proline  
       NT4 sarcosine  
       NT4 serine  
       NT4 tetaha  
       NT4 threonine  
       NT4 thyronine  
       NT4 thyroxine  
       NT4 tryptophan  
       NT4 tyrosine  
       NT4 valine  
   NT3 bile acids

- NT4 cholic acid  
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   NT4 fumaric acid  
   NT4 glutaric acid  
   NT4 itaconic acid  
   NT4 maleic acid  
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   NT3 ferron  
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   NT3 thorin  
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     NT3 neoprene  
     NT3 nitrogen mustard  
     NT3 phosgene  
     NT3 rose bengal  
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       NT5 teflon  
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   NT4 budr  
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   NT3 chloramines  
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   NT3 chlorofluorocarbons  
   NT3 fluorinated alicyclic hydrocarbons  
   NT3 fluorinated aliphatic hydrocarbons  
     NT4 carbon tetrafluoride  
     NT4 fluoroform  
     NT4 methyl fluoride  
     NT4 polytetrafluoroethylene  
     NT5 teflon  
   NT4 tedlar

- NT3 fluorinated aromatic hydrocarbons  
 NT3 fluorouracils  
   NT4 fudr  
 NT3 kel-f  
 NT3 tta  
 NT2 organic iodine compounds  
 NT3 diiodotyrosine  
 NT3 erythrosine  
 NT3 ferron  
 NT3 iodinated alicyclic hydrocarbons  
 NT3 iodinated aliphatic hydrocarbons  
   NT4 iodoform  
   NT4 methyl iodide  
 NT3 iodinated aromatic hydrocarbons  
 NT3 iodouracils  
   NT4 iododeoxyuridine  
 NT3 lipiodol  
 NT3 mibg  
 NT3 pbi  
 NT3 rose bengal  
 NT3 thyroxine  
 NT1 organic mercury compounds  
   NT2 methylmercury  
 NT1 organic nitrogen compounds  
   NT2 amides  
     NT3 acetamide  
     NT3 acrylamide  
     NT3 asparagine  
     NT3 formamide  
     NT3 glutamine  
     NT3 hydroxyurea  
     NT3 lactams  
       NT4 pyrrolidones  
       NT5 pvp  
     NT3 metrizamide  
     NT3 nicotinamide  
     NT3 sulfenamides  
     NT3 sulfonamides  
     NT3 thionalide  
     NT3 urea  
   NT2 amidines  
   NT2 azaarenes  
     NT3 acridines  
       NT4 acridine orange  
       NT4 flavines  
       NT5 acriflavine  
       NT5 proflavine  
     NT3 carbazoles  
     NT3 indoles  
       NT4 indigo  
       NT4 indocyanine green  
       NT4 lysergic acid  
       NT4 reserpine  
       NT4 strychnine  
       NT4 tryptamines  
       NT5 melatonin  
       NT5 serotonin  
       NT6 bufotenine  
       NT4 tryptophan  
       NT4 vinblastine  
     NT3 phenanthrolines  
       NT4 ferroin  
       NT4 phenanthroline-ortho  
     NT3 pteridines  
       NT4 aminopterin  
       NT4 folic acid  
   NT3 purines  
     NT4 adenines  
       NT5 kinetin  
     NT4 guanine  
     NT4 guanosine  
     NT4 hypoxanthine  
     NT4 inosine  
     NT4 mercaptopurine  
     NT4 xanthes  
       NT5 caffeine  
       NT5 theobromine  
       NT5 theophylline  
     NT5 uric acid  
 NT3 quinolines  
   NT4 ferron  
   NT4 oxine  
   NT4 quinaldine  
 NT2 azido compounds  
 NT2 azines  
   NT3 phenothiazines  
     NT4 chlorpromazine  
     NT4 methylene blue  
   NT3 pyrazines  
     NT4 phenazine  
     NT4 piperazines  
   NT3 pyridazines  
     NT4 phthalazines  
     NT5 luminol  
   NT3 pyridines  
     NT4 acridines  
     NT5 acridine orange  
     NT5 flavines  
       NT6 acriflavine  
       NT6 proflavine  
   NT4 bipyridines  
   NT4 nicotinamide  
   NT4 nicotine  
   NT4 nicotinic acid  
   NT4 picolines  
     NT5 picolinic acid  
   NT4 piperidines  
     NT5 dipyridamole  
     NT5 pethidine  
     NT5 triacetoneamine-n-oxyl  
   NT4 pyridine  
   NT4 pyridinium compounds  
   NT4 pyridoxal  
   NT4 pyridoxine  
   NT4 pyridoxylidene-glutamate  
   NT4 pyridylazonaphthol  
   NT4 pyridylazoresorcinol  
   NT4 quinolines  
     NT5 ferron  
     NT5 oxine  
     NT5 quinaldine  
   NT3 pyrimidines  
     NT4 alloxan  
     NT4 barbiturates  
     NT5 nambutal  
     NT5 phenobarbital  
   NT4 cytidine  
   NT4 cytosine  
   NT4 deoxycytidine  
   NT4 thiamine  
   NT4 thymidine  
   NT4 uracils  
     NT5 bromouracils  
     NT6 budr  
     NT5 chlorouracils  
     NT5 deoxyuridine  
     NT5 fluorouracils  
     NT6 fudr  
     NT5 iodouracils  
     NT6 iododeoxyuridine  
     NT5 orotic acid  
     NT5 thiouracil  
     NT5 thymine  
     NT5 uridine  
   NT3 triazines  
     NT4 cyanurates  
     NT4 melamine  
   NT2 azo compounds  
     NT3 arsenazo  
     NT3 azo dyes  
       NT4 eriochrome dyes  
       NT4 evans blue  
       NT4 methyl orange  
       NT4 methyl red  
       NT4 toluidine blue  
       NT4 trypan blue  
   NT2 azoles  
     NT3 carbazoles  
     NT3 imidazoles  
       NT4 allantoin  
       NT4 benzimidazoles  
       NT4 biotin  
       NT4 creatinine  
       NT4 histamine  
       NT4 histidine  
       NT4 hydantoins  
       NT4 metronidazole  
       NT4 misonidazole  
       NT4 urocanic acid  
   NT3 oxadiazoles  
   NT3 oxazoles  
     NT4 benzoxazoles  
     NT4 popop  
   NT3 pyrazoles  
     NT4 indazoles  
     NT4 pyrazolines  
     NT5 antipyrine  
   NT3 pyrroles  
     NT4 bilirubin  
     NT4 indoles  
       NT5 indigo  
       NT5 indocyanine green  
       NT5 lysergic acid  
       NT5 reserpine  
       NT5 strychnine  
       NT5 tryptamines  
       NT6 melatonin  
       NT6 serotonin  
       NT7 bufotenine  
     NT5 tryptophan  
     NT5 vinblastine  
   NT4 pyrrolidines  
     NT5 hydroxyproline  
     NT5 nicotine  
     NT5 proline  
   NT4 pyrrolidones  
     NT5 pvp  
   NT3 tetrazoles  
   NT4 tetrazolium  
   NT3 thiadiazoles  
   NT3 thiazoles  
     NT4 benzothiazoles  
     NT4 saccharin  
     NT4 thiamine  
   NT3 triazoles  
   NT2 carbamates  
   NT3 dedtc  
   NT3 urethane  
   NT2 carbazides  
   NT2 carbazones  
   NT3 dithizone  
   NT2 cyanamides  
   NT2 diazo compounds  
     NT3 pyridylazonaphthol  
     NT3 pyridylazoresorcinol  
   NT3 thorin  
   NT2 dpca  
   NT2 gangliosides  
   NT2 guanidines  
     NT3 mibg  
   NT2 hydrazides  
   NT3 isoniazid  
   NT2 hydrazones  
   NT2 imides  
   NT3 nem  
   NT2 imines  
     NT3 creatinine  
     NT3 schiff bases  
   NT2 imipramine  
   NT2 isoalloxazines  
     NT3 diaphorase  
   NT2 melanin  
   NT2 morpholines  
   NT2 nitriles  
     NT3 acetonitrile  
     NT3 acrylonitrile

- NT3 propiolonitrile  
 NT3 ttf-tcnq  
 NT2 nitro compounds  
 NT3 dinitrophenol  
 NT3 dpph  
 NT3 metronidazole  
 NT3 misonidazole  
 NT3 nitrobenzene  
 NT3 nitromethane  
 NT3 nitrophenol  
 NT3 picric acid  
 NT3 polycyclic nitro compounds  
 NT3 tetryl  
 NT3 tnt  
 NT2 nitroso compounds  
 NT3 1-nitroso-2-naphthol  
 NT3 methyl nitrosourea  
 NT3 nitrosamines  
 NT3 nitroso-r salt  
 NT3 nitrosoureas  
 NT2 oximes  
 NT3 benzoinoxime  
 NT3 dimethylglyoxime  
 NT2 parathion  
 NT2 porphyrins  
 NT3 chlorins  
 NT3 chlorophyll  
 NT3 hematoporphyrins  
 NT3 heme  
 NT3 hemoglobin  
 NT4 methemoglobin  
 NT3 hemosiderin  
 NT3 myoglobin  
 NT3 protoporphyrins  
 NT2 semicarbazides  
 NT2 semicarbazones  
 NT2 tamoxifen  
 NT2 thionine  
 NT1 organic oxygen compounds  
 NT2 allantoin  
 NT2 alloxan  
 NT2 barbiturates  
 NT3 nembutal  
 NT3 phenobarbital  
 NT2 benzoyl peroxide  
 NT2 cyanurates  
 NT2 cytosine  
 NT2 dioxane  
 NT2 dioxin  
 NT2 epoxides  
 NT3 araldite  
 NT2 ethers  
 NT3 acetals  
 NT4 acetal  
 NT3 anisole  
 NT3 butyl ether  
 NT3 cellosolves  
 NT3 crown ethers  
 NT3 curcumin  
 NT3 dme  
 NT3 ethyl ether  
 NT3 isopropyl ether  
 NT3 methyl ether  
 NT3 methylal  
 NT3 mexamine  
 NT3 morpholines  
 NT3 phenyl ether  
 NT2 flavonoids  
 NT3 flavones  
 NT4 morin  
 NT4 quercetin  
 NT2 furans  
 NT3 benzofurans  
 NT3 furfural  
 NT3 tetrahydrofuran  
 NT4 mthf  
 NT2 heterocyclic oxygen compounds  
 NT3 pyrans  
 NT4 coumarin  
 NT4 hematoxylin  
 NT4 pyrones  
 NT4 quercetin  
 NT4 tetrahydropyran  
 NT2 isoalloxazines  
 NT3 diaphorase  
 NT2 ketenes  
 NT2 malathion  
 NT2 oxadiazoles  
 NT2 oxazoles  
 NT3 benzoxazoles  
 NT3 popop  
 NT2 psoralen  
 NT2 pyridoxal  
 NT2 quinones  
 NT3 anthraquinones  
 NT4 alizarin  
 NT4 carminic acid  
 NT4 quinizarin  
 NT3 benzoquinones  
 NT4 chloranil  
 NT4 chloranilic acid  
 NT4 plastoquinone  
 NT4 ubiquinone  
 NT3 rhodizonic acid  
 NT3 vitamin k  
 NT2 rhodamines  
 NT2 saccharin  
 NT2 semicarbazides  
 NT2 triacetoneamine-n-oxyl  
 NT2 trioxanes  
 NT2 xanthines  
 NT3 caffeine  
 NT3 theobromine  
 NT3 theophylline  
 NT3 uric acid  
 NT1 organic phosphorus compounds  
 NT2 casein  
 NT2 cmpo  
 NT2 cystaphos  
 NT2 malathion  
 NT2 parathion  
 NT2 phosphinic acid esters  
 NT2 phosphinic acids  
 NT2 phosphocreatine  
 NT2 phospholipids  
 NT3 cardiolipin  
 NT3 lecithins  
 NT3 sphingomyelins  
 NT2 phosphonates  
 NT2 phosphonic acid esters  
 NT3 damp  
 NT3 dhdecmp  
 NT2 phosphonic acids  
 NT2 phosphoric acid esters  
 NT3 butyl phosphates  
 NT4 dbp  
 NT4 mbp  
 NT4 tbp  
 NT3 hdehp  
 NT3 mdpa  
 NT3 phytic acid  
 NT3 tcp  
 NT2 tributylphosphine oxide  
 NT2 trioctylphosphine oxide  
 NT2 trioctylphosphine sulfide  
 NT2 triphenylphosphine oxide  
 NT2 uridine diphosphoglucose  
 NT1 organic polymers  
 NT2 araldite  
 NT2 copolymers  
 NT2 graft polymers  
 NT2 neoprene  
 NT2 plastic foams  
 NT2 plastics  
 NT3 aramids  
 NT3 bakelite  
 NT3 formvar  
 NT3 lucite  
 NT3 mylar  
 NT3 nylon  
 NT3 perspex  
 NT3 plexiglas  
 NT3 polystyrene  
 NT3 polyurethanes  
 NT4 halthane  
 NT3 reinforced plastics  
 NT3 tedlar  
 NT3 teflon  
 NT3 thermoplastics  
 NT2 polyacetals  
 NT3 formvar  
 NT3 polyoxymethylenes  
 NT2 polyacetylenes  
 NT2 polyamides  
 NT3 nylon  
 NT3 polyurethanes  
 NT4 halthane  
 NT2 polycarbonates  
 NT2 polyesters  
 NT3 dacron  
 NT3 homalite  
 NT3 mylar  
 NT2 polyethylene glycols  
 NT3 carbowax  
 NT3 pluronics  
 NT2 polyisoprene  
 NT2 polyolefins  
 NT3 polyethylenes  
 NT4 kel-f  
 NT4 polytetrafluoroethylene  
 NT5 teflon  
 NT3 polypropylene  
 NT3 polystyrene  
 NT3 polystyrene-dvb  
 NT2 polyvinyls  
 NT3 polyacrylates  
 NT4 lucite  
 NT4 perspex  
 NT4 plexiglas  
 NT4 pmma  
 NT3 polystyrene  
 NT3 polyvinyl acetate  
 NT3 pva  
 NT3 pvc  
 NT3 pvp  
 NT3 tedlar  
 NT2 resins  
 NT2 rubbers  
 NT3 buna  
 NT3 latex  
 NT3 natural rubber  
 NT3 silastic  
 NT3 viton  
 NT2 textolite  
 NT1 organic silicon compounds  
 NT2 silanes  
 NT2 siloxanes  
 NT3 silicones  
 NT4 silastic  
 NT1 organic sulfur compounds  
 NT2 bedt-ttf  
 NT2 biotin  
 NT2 cystamine  
 NT2 dedtc  
 NT2 dimethyl sulfide  
 NT2 disulfides  
 NT3 cystine  
 NT3 thioctic acid  
 NT2 dithione  
 NT2 ethionine  
 NT2 heparin  
 NT2 isothiocyanates  
 NT2 methionine  
 NT2 phenothiazines  
 NT3 chlorpromazine  
 NT3 methylene blue  
 NT2 polycyclic sulfur heterocycles

- NT2 sulfenamides  
 NT2 sulfonamides  
 NT2 sulfonates  
   NT3 indocyanine green  
   NT3 petroleum sulfonates  
 NT2 sulfones  
 NT2 sulfonic acid esters  
   NT3 alkyl benzenesulfonates  
   NT3 ethyl methanesulfonate  
   NT3 methyl methanesulfonate  
   NT3 petroleum sulfonates  
 NT2 sulfonic acids  
   NT3 arsenazo  
   NT3 bromosulphophthalein  
   NT3 chromotropic acid  
   NT3 eriochrome dyes  
   NT3 evans blue  
   NT3 ferron  
   NT3 methyl orange  
   NT3 nitroso-r salt  
   NT3 sulfanilic acid  
   NT3 taurine  
   NT3 thorin  
   NT3 tiron  
   NT3 trypan blue  
   NT3 unithiol  
 NT2 sulfoxides  
   NT3 dmsa  
   NT3 dpo  
 NT2 sulfuric acid esters  
 NT2 tetrathiafulvalene  
 NT2 thiadiazoles  
 NT2 thiazoles  
   NT3 benzothiazoles  
   NT3 saccharin  
   NT3 thiamine  
 NT2 thiocyanates  
   NT3 ammonium thiocyanates  
 NT2 thioic acids  
 NT2 thiols  
   NT3 cysteamine  
   NT3 cysteine  
   NT3 dithiols  
     NT4 dimercaprol  
     NT4 unithiol  
   NT3 malathion  
   NT3 mercaptoethylguanidine  
   NT3 mercaptopurine  
   NT3 mpg  
   NT3 penicillamine  
   NT3 thionalide  
   NT3 thiouracil  
 NT2 thionaphthenes  
 NT2 thionates  
 NT2 thionine  
 NT2 thionyl chlorides  
 NT2 thiophene  
 NT2 thiophenols  
 NT2 thioureas  
   NT3 beta-aminoethyl isothiurea  
   NT3 thiourea  
 NT2 trioctylphosphine sulfide  
 NT2 tta  
 NT2 ttf-tenq  
 NT2 xanthates  
   NT3 viscose  
 NT1 organometallic compounds  
   NT2 grignard reagents  
   NT2 lactoferrin  
   NT2 tetraethyl lead  
 NT1 other organic compounds  
   NT2 amber  
   NT2 asphaltite  
   NT2 oils  
     NT3 coal tar oils  
     NT3 essential oils  
     NT3 fish oil  
     NT3 insulating oils  
     NT3 lipiodol  
   NT3 lubricating oils  
   NT3 pyrolytic oils  
   NT3 road oils  
   NT3 shale tar oils  
   NT3 tall oil  
   NT3 triolein  
   NT3 vegetable oils  
     NT4 castor oil  
     NT4 corn oil  
     NT4 cottonseed oil  
     NT4 linseed oil  
     NT4 olive oil  
     NT4 palm oil  
     NT4 peanut oil  
     NT4 sesame oil  
     NT4 soybean oil  
     NT4 sunflower oil  
   NT3 waste oils  
   NT3 wood oils  
   NT2 pitches  
   NT2 soaps  
   NT2 tar  
     NT3 bitumens  
     NT4 asphalts  
     NT4 coal tar  
     NT4 thucholite  
   NT3 shale tar  
   NT2 waxes  
   NT3 carbowax  
   NT3 paraffin  
 NT1 proteins  
   NT2 actin  
   NT2 albumins  
   NT3 luciferin  
   NT2 blood coagulation factors  
   NT3 fibrin  
   NT3 fibrinogen  
   NT3 kallikrein  
   NT3 plasminogen  
   NT3 prothrombin  
   NT3 thrombin  
   NT3 thromboplastin  
   NT3 urokinase  
   NT2 calmodulin  
   NT2 casein  
   NT2 chlorophyll-binding proteins  
   NT2 complement  
   NT2 cytochromes  
   NT2 enzymes  
     NT3 dna helicases  
     NT3 gene recombination proteins  
     NT3 hydrolases  
       NT4 acid anhydrases  
       NT5 gtp-ases  
       NT5 phosphohydrolases  
       NT6 atp-ase  
     NT4 esterases  
       NT5 carboxylesterases  
       NT6 cholinesterase  
       NT6 lipases  
     NT5 phosphatases  
       NT6 acid phosphatase  
       NT6 alkaline phosphatase  
       NT6 nucleotidases  
     NT5 phosphodiesterases  
     NT6 nucleases  
       NT7 dna-ase  
       NT8 endonucleases  
       NT7 rna-ase  
   NT4 glycosyl hydrolases  
     NT5 o-glycosyl hydrolases  
     NT6 amylase  
     NT6 cellulase  
     NT6 galactosidase  
     NT6 glucosidase  
     NT6 glucuronidase  
     NT6 hyaluronidase  
     NT6 lysozyme  
     NT6 xylanase  
   NT4 non-peptide c-n hydrolases  
   NT5 amidases  
   NT6 arginase  
   NT6 urease  
   NT5 amidinases  
   NT4 peptide hydrolases  
   NT5 acid proteinases  
   NT6 pepsin  
   NT5 aminopeptidases  
   NT5 carboxypeptidases  
   NT5 nonspecific peptidases  
   NT6 renin  
   NT6 urokinase  
   NT5 serine proteinases  
   NT6 chymotrypsin  
   NT6 fibrinolysin  
   NT6 kallikrein  
   NT6 thrombin  
   NT6 trypsin  
   NT5 sh-proteinases  
   NT6 cathepsins  
   NT6 papain  
   NT6 streptococcal proteinase  
   NT3 isomerases  
   NT3 ligases  
   NT3 lyases  
     NT4 carbon-carbon lyases  
     NT5 aldehyde-lyases  
     NT5 aldolases  
     NT5 carboxy-lyases  
     NT6 carboxylase  
     NT6 decarboxylases  
     NT6 ribulose diphosphate carboxylase  
   NT4 carbon-oxygen lyases  
   NT5 hyaluronidase  
   NT5 hydro-lyases  
   NT6 carbonic anhydrase  
   NT4 cyclases  
   NT4 dna methylases  
   NT3 oxidoreductases  
   NT4 amine oxidases  
   NT4 aryl 4-monooxygenase  
   NT4 diaphorase  
   NT4 hemiacetal dehydrogenases  
   NT5 alcohol dehydrogenase  
   NT5 lactate dehydrogenase  
   NT4 hydrogenases  
   NT4 hydroxylases  
   NT5 tyrosinase  
   NT4 nitro-group dehydrogenases  
   NT5 nitrogenase  
   NT4 oxidases  
   NT5 cytochrome oxidase  
   NT5 luciferase  
   NT4 oxygenases  
   NT5 mixed-function oxidases  
   NT4 peroxidases  
   NT5 catalase  
   NT4 superoxide dismutase  
   NT3 transferases  
   NT4 carbon-group transferases  
   NT5 methyl transferases  
   NT4 glycosyl transferases  
   NT5 hexosyl transferases  
   NT5 pentosyl transferases  
   NT6 hypoxanthine phosphoribosyltransferase  
   NT4 nitrogen transferases  
   NT5 aminotransferases  
   NT4 phosphorus-group transferases  
   NT5 nucleotidyltransferases  
   NT6 polymerases  
     NT7 dna polymerases  
     NT7 rna polymerases  
   NT5 phosphotransferases  
   NT6 hexokinase  
   NT2 gelatin  
   NT2 globins

NT3 hemoglobin  
 NT4 methemoglobin  
 NT3 myoglobin  
 NT2 globulins  
 NT3 angiotensin  
 NT3 fibrinogen  
 NT3 globulins-alpha  
 NT4 ceruloplasmin  
 NT4 haptoglobins  
 NT3 globulins-beta  
 NT4 transferrin  
 NT3 globulins-gamma  
 NT3 immunoglobulins  
 NT3 lactoferrin  
 NT3 myosin  
 NT3 thyroglobulin  
 NT2 glycoproteins  
 NT3 avidin  
 NT3 glucoproteins  
 NT4 lactoferrin  
 NT4 ovalbumin  
 NT3 luteinizing hormone  
 NT2 growth factors  
 NT3 lymphokines  
 NT4 interferon  
 NT2 heat-shock proteins  
 NT2 histones  
 NT2 lipoproteins  
 NT3 apolipoproteins  
 NT3 myelin  
 NT2 membrane proteins  
 NT3 porins  
 NT3 receptors  
 NT3 thylakoid membrane proteins  
 NT4 phycobiliproteins  
 NT5 phycocyanin  
 NT2 metalloproteins  
 NT3 ceruloplasmin  
 NT3 ferredoxin  
 NT3 ferritin  
 NT3 hemocyanin  
 NT3 hemosiderin  
 NT3 lactoferrin  
 NT3 metallothionein  
 NT3 rubredoxin  
 NT3 transferrin  
 NT2 mucoproteins  
 NT3 haptoglobins  
 NT3 intrinsic factor  
 NT3 phytohemagglutinin  
 NT2 nucleoproteins  
 NT2 pbi  
 NT2 peptide hormones  
 NT3 calcitonin  
 NT3 erythropoietin  
 NT3 gastrin  
 NT3 glucagon  
 NT3 insulin  
 NT3 leptin  
 NT3 parathormone  
 NT3 pituitary hormones  
 NT4 acth  
 NT4 gonadotropins  
 NT5 fsh  
 NT5 hcg  
 NT5 lth  
 NT5 luteinizing hormone  
 NT4 liberins  
 NT5 lh-rh  
 NT4 oxytocin  
 NT4 sth  
 NT4 tsh  
 NT4 vasopressin  
 NT3 secretin  
 NT3 thyroid hormones  
 NT4 diiodothyronine  
 NT4 thyrocalcitonin  
 NT4 thyroxine  
 NT4 triiodothyronine

NT3 thyronine  
 NT3 th  
 NT2 peptides  
 NT3 cyclosporine  
 NT3 glycylglycine  
 NT3 polypeptides  
 NT4 calcitonin  
 NT4 endorphins  
 NT5 enkephalins  
 NT4 endothelins  
 NT4 gastrin  
 NT4 glucagon  
 NT4 glutathione  
 NT4 kinins  
 NT5 bradykinin  
 NT4 leptin  
 NT2 peptone  
 NT2 phosphoproteins  
 NT2 phytochromes  
 NT3 chlorophyll  
 NT2 protamines  
 NT2 rhodopsin  
 NT2 scleroproteins  
 NT3 collagen  
 NT3 fibrin  
 NT3 glutin  
 NT3 keratin  
 NT2 transcription factors  
 NT2 tropomyosin  
 NT2 zein  
 NT1 shale tar bases  
 NT1 steroids  
 NT2 androstanes  
 NT3 androgens  
 NT4 androstenedione  
 NT4 androsterone  
 NT4 hydroxyandrostenone  
 NT4 testosterone  
 NT2 estranes  
 NT3 estradiol  
 NT3 estriol  
 NT3 estrone  
 NT2 pregnanes  
 NT3 corticosteroids  
 NT4 glucocorticoids  
 NT5 corticosterone  
 NT5 cortisone  
 NT5 dexamethasone  
 NT5 hydrocortisone  
 NT5 prednisolone  
 NT5 prednisone  
 NT4 mineralocorticoids  
 NT5 aldosterone  
 NT3 hydroxypregnenone  
 NT3 progesterone  
 NT2 sterols  
 NT3 bile acids  
 NT4 cholic acid  
 NT3 cholesterol  
 NT3 ergosterol  
 NT3 sitosterol  
 NT1 terpenes  
 NT2 camphor  
 NT2 carotenoids  
 NT2 squalene  
 NT2 turpentine  
 RT chemical feedstocks  
 RT clathrates  
 RT organic semiconductors  
 RT organic superconductors  
 RT polar compounds  
 RT translocation

#### ORGANIC COOLANTS

BT1 coolants  
 RT aromatics  
 RT organic cooled reactors  
 RT polyphenyls  
 RT refrigerants

#### organic cooled and heavy water moderated chalk river reactor

INIS: 1993-11-09; ETDE: 2002-04-17  
 USE zed-2 reactor

#### organic cooled and moderated reactor

1993-11-09  
 USE omr type reactors

#### organic cooled heavy water moderated chalk river reactor

2000-04-12  
 USE zed-2 reactor

#### ORGANIC COOLED REACTORS

BT1 reactors  
 NT1 eco reactor  
 NT1 eocr reactor  
 NT1 essor reactor  
 NT1 lwor type reactors  
 NT1 omr type reactors  
 NT2 arbus reactor  
 NT2 omre reactor  
 NT2 pnpf reactor  
 NT1 wr-1 reactor  
 NT1 zed-2 reactor  
 RT organic coolants

#### ORGANIC CRYSTAL PHOSPHORS

BT1 phosphors  
 RT anthracene  
 RT solid scintillation detectors  
 RT stilbene

#### ORGANIC FLUORINE COMPOUNDS

UF fluorinated hydrocarbons  
 \*BT1 organic halogen compounds  
 NT1 chlorofluorocarbons  
 NT1 fluorinated alicyclic hydrocarbons  
 NT1 fluorinated aliphatic hydrocarbons  
 NT2 carbon tetrafluoride  
 NT2 fluorofom  
 NT2 methyl fluoride  
 NT2 polytetrafluoroethylene  
 NT3 teflon  
 NT2 tedlar  
 NT1 fluorinated aromatic hydrocarbons  
 NT1 fluorouracils  
 NT2 fudr  
 NT1 kel-f  
 NT1 tta  
 RT fluorine compounds

#### ORGANIC HALOGEN COMPOUNDS

UF halogenated hydrocarbons  
 BT1 organic compounds  
 NT1 halogenated alicyclic hydrocarbons  
 NT2 chlorinated alicyclic hydrocarbons  
 NT3 lindane  
 NT2 fluorinated alicyclic hydrocarbons  
 NT2 iodinated alicyclic hydrocarbons  
 NT1 halogenated aliphatic hydrocarbons  
 NT2 brominated aliphatic hydrocarbons  
 NT3 bromoform  
 NT3 methyl bromide  
 NT2 chlorinated aliphatic hydrocarbons  
 NT3 carbon tetrachloride  
 NT3 chloroform  
 NT3 methyl chloride  
 NT3 pvc  
 NT3 vinyl chloride  
 NT2 fluorinated aliphatic hydrocarbons  
 NT3 carbon tetrafluoride  
 NT3 fluorofom  
 NT3 methyl fluoride  
 NT3 polytetrafluoroethylene  
 NT4 teflon  
 NT3 tedlar  
 NT2 freons

NT2 iodinated aliphatic hydrocarbons  
 NT3 iodoform  
 NT3 methyl iodide  
 NT1 halogenated aromatic hydrocarbons  
 NT2 brominated aromatic hydrocarbons  
 NT2 chlorinated aromatic hydrocarbons  
 NT3 aldrin  
 NT3 polychlorinated biphenyls  
 NT2 fluorinated aromatic hydrocarbons  
 NT2 iodinated aromatic hydrocarbons  
 NT1 organic bromine compounds  
 NT2 brominated aliphatic hydrocarbons  
 NT3 bromoform  
 NT3 methyl bromide  
 NT2 brominated aromatic hydrocarbons  
 NT2 bromosulphophthalein  
 NT2 bromouracils  
 NT3 budr  
 NT2 eosin  
 NT1 organic chlorine compounds  
 NT2 chloral  
 NT2 chlorambucil  
 NT2 chloramines  
 NT2 chloranil  
 NT2 chlorinated alicyclic hydrocarbons  
 NT3 lindane  
 NT2 chlorinated aliphatic hydrocarbons  
 NT3 carbon tetrachloride  
 NT3 chloroform  
 NT3 methyl chloride  
 NT3 pvc  
 NT3 vinyl chloride  
 NT2 chlorinated aromatic hydrocarbons  
 NT3 aldrin  
 NT3 polychlorinated biphenyls  
 NT2 chlorofluorocarbons  
 NT2 chlorouracils  
 NT2 chlorpromazine  
 NT2 ddt  
 NT2 kel-f  
 NT2 methylene chloride  
 NT2 neoprene  
 NT2 nitrogen mustard  
 NT2 phosgene  
 NT2 rose bengal  
 NT1 organic fluorine compounds  
 NT2 chlorofluorocarbons  
 NT2 fluorinated alicyclic hydrocarbons  
 NT2 fluorinated aliphatic hydrocarbons  
 NT3 carbon tetrafluoride  
 NT3 fluoroform  
 NT3 methyl fluoride  
 NT3 polytetrafluoroethylene  
 NT4 teflon  
 NT3 tedlar  
 NT2 fluorinated aromatic hydrocarbons  
 NT2 fluorouracils  
 NT3 fudr  
 NT2 kel-f  
 NT2 tta  
 NT1 organic iodine compounds  
 NT2 diiodotyrosine  
 NT2 erythrosine  
 NT2 ferron  
 NT2 iodinated alicyclic hydrocarbons  
 NT2 iodinated aliphatic hydrocarbons  
 NT3 iodoform  
 NT3 methyl iodide  
 NT2 iodinated aromatic hydrocarbons  
 NT2 iodouracils  
 NT3 iododeoxyuridine  
 NT2 lipiodol  
 NT2 mibg  
 NT2 pbi  
 NT2 rose bengal  
 NT2 thyroxine  
 RT halogen compounds  
 RT refrigerants

**ORGANIC INSULATORS**

RT dielectric materials  
 RT electrical insulation  
 RT electrical insulators

**ORGANIC IODINE COMPOUNDS**

1996-10-23

UF diodrast  
 UF hypaque  
 UF iodinated hydrocarbons  
 UF iodochloroquine  
 UF iodopyracet  
 UF ioglycamic acid  
 UF risa  
 \*BT1 organic halogen compounds  
 NT1 diiodotyrosine  
 NT1 erythrosine  
 NT1 ferron  
 NT1 iodinated alicyclic hydrocarbons  
 NT1 iodinated aliphatic hydrocarbons  
 NT2 iodoform  
 NT2 methyl iodide  
 NT1 iodinated aromatic hydrocarbons  
 NT1 iodouracils  
 NT2 iododeoxyuridine  
 NT1 lipiodol  
 NT1 mibg  
 NT1 pbi  
 NT1 rose bengal  
 NT1 thyroxine  
 RT iodine compounds

**ORGANIC ION EXCHANGERS**

UF amberlite  
 UF dowex  
 UF permutit (organic)  
 \*BT1 ion exchange materials  
 NT1 polystyrene-dvb

**ORGANIC MATTER**

INIS: 1982-07-22; ETDE: 1980-10-27

Only for unspecified materials containing chain and ring compounds of carbon; if specific organic compounds are studied, use descriptors for the compounds.

BT1 matter  
 NT1 kerogen  
 NT1 peat  
 RT acid neutralizing capacity  
 RT carbonaceous materials  
 RT geochemistry

**ORGANIC MERCURY COMPOUNDS**

1999-03-03

BT1 organic compounds  
 NT1 methylmercury  
 RT mercury compounds

**organic moderated reactor****experiment**

1993-11-09

USE omre reactor

**organic moderated reactor piqua**

2000-04-12

USE pnpf reactor

**ORGANIC MODERATED REACTORS**

BT1 reactors  
 NT1 akr-1 reactor  
 NT1 eocr reactor  
 NT1 omr type reactors  
 NT2 arbus reactor  
 NT2 omre reactor  
 NT2 pnpf reactor  
 NT1 rospo reactor  
 NT1 sur-100 series reactor  
 NT1 viper reactor  
 NT1 zerlina reactor

RT organic moderators

**ORGANIC MODERATORS**

BT1 moderators  
 RT aromatics  
 RT organic moderated reactors  
 RT polyphenyls

**ORGANIC NITROGEN COMPOUNDS**

1996-10-23

Excluding those concepts included under the descriptors: PROTEINS, AMINES, ALKALOIDS, AMINO ACIDS, NUCLEIC ACIDS, and NUCLEOTIDES.

UF guanethidine  
 UF imidines  
 BT1 organic compounds  
 NT1 amides  
 NT2 acetamide  
 NT2 acrylamide  
 NT2 asparagine  
 NT2 formamide  
 NT2 glutamine  
 NT2 hydroxyurea  
 NT2 lactams  
 NT3 pyrrolidones  
 NT4 pvp  
 NT2 metrizamide  
 NT2 nicotinamide  
 NT2 sulfenamides  
 NT2 sulfonamides  
 NT2 thionalide  
 NT2 urea  
 NT1 amidines  
 NT1 azaarenes  
 NT2 acridines  
 NT3 acridine orange  
 NT3 flavines  
 NT4 acriflavine  
 NT4 proflavine  
 NT2 carbazoles  
 NT2 indoles  
 NT3 indigo  
 NT3 indocyanine green  
 NT3 lysergic acid  
 NT3 reserpine  
 NT3 strychnine  
 NT3 tryptamines  
 NT4 melatonin  
 NT4 serotonin  
 NT5 bufotenine  
 NT3 tryptophan  
 NT3 vinblastine  
 NT2 phenanthrolines  
 NT3 ferroin  
 NT3 phenanthroline-ortho  
 NT2 pteridines  
 NT3 aminopterin  
 NT3 folic acid  
 NT2 purines  
 NT3 adenines  
 NT4 kinetin  
 NT3 guanine  
 NT3 guanosine  
 NT3 hypoxanthine  
 NT3 inosine  
 NT3 mercaptopurine  
 NT3 xanthines  
 NT4 caffeine  
 NT4 theobromine  
 NT4 theophylline  
 NT4 uric acid  
 NT2 quinolines  
 NT3 ferron  
 NT3 oxine  
 NT3 quinaldine  
 NT1 azido compounds  
 NT1 azines  
 NT2 phenothiazines

NT3 chlorpromazine  
 NT3 methylene blue  
 NT2 pyrazines  
 NT3 phenazine  
 NT3 piperazines  
 NT2 pyridazines  
 NT3 phthalazines  
 NT4 luminol  
 NT2 pyridines  
 NT3 acridines  
 NT4 acridine orange  
 NT4 flavines  
 NT5 acriflavine  
 NT5 proflavine  
 NT3 bipyridines  
 NT3 nicotinamide  
 NT3 nicotine  
 NT3 nicotinic acid  
 NT3 picolines  
 NT4 picolinic acid  
 NT3 piperidines  
 NT4 dipyridamole  
 NT4 pethidine  
 NT4 triacetoneamine-n-oxyl  
 NT3 pyridine  
 NT3 pyridinium compounds  
 NT3 pyridoxal  
 NT3 pyridoxine  
 NT3 pyridoxylideneglutamate  
 NT3 pyridylazonaphthol  
 NT3 pyridylazoresorcinol  
 NT3 quinolines  
 NT4 ferron  
 NT4 oxine  
 NT4 quinaldine  
 NT2 pyrimidines  
 NT3 alloxan  
 NT3 barbiturates  
 NT4 nembital  
 NT4 phenobarbital  
 NT3 cytidine  
 NT3 cytosine  
 NT3 deoxycytidine  
 NT3 thiamine  
 NT3 thymidine  
 NT3 uracils  
 NT4 bromouracils  
 NT5 budr  
 NT4 chlorouracils  
 NT4 deoxyuridine  
 NT4 fluorouracils  
 NT5 fudr  
 NT4 iodouracils  
 NT5 iododeoxyuridine  
 NT4 orotic acid  
 NT4 thiouracil  
 NT4 thymine  
 NT4 uridine  
 NT2 triazines  
 NT3 cyanurates  
 NT3 melamine  
 NT1 azo compounds  
 NT2 arsenazo  
 NT2 azo dyes  
 NT3 eriochrome dyes  
 NT3 evans blue  
 NT3 methyl orange  
 NT3 methyl red  
 NT3 toluidine blue  
 NT3 trypan blue  
 NT1 azoles  
 NT2 carbazoles  
 NT2 imidazoles  
 NT3 allantoin  
 NT3 benzimidazoles  
 NT3 biotin  
 NT3 creatinine  
 NT3 histamine  
 NT3 histidine

NT3 hydantoins  
 NT3 metronidazole  
 NT3 misonidazole  
 NT3 urocanic acid  
 NT2 oxadiazoles  
 NT2 oxazoles  
 NT3 benzoxazoles  
 NT3 popop  
 NT2 pyrazoles  
 NT3 indazoles  
 NT3 pyrazolines  
 NT4 antipyrine  
 NT2 pyrroles  
 NT3 bilirubin  
 NT3 indoles  
 NT4 indigo  
 NT4 indocyanine green  
 NT4 lysergic acid  
 NT4 reserpine  
 NT4 strychnine  
 NT4 tryptamines  
 NT5 melatonin  
 NT5 serotonin  
 NT6 bufotenine  
 NT4 tryptophan  
 NT4 vinblastine  
 NT3 pyrrolidines  
 NT4 hydroxyproline  
 NT4 nicotine  
 NT4 proline  
 NT3 pyrrolidones  
 NT4 pvp  
 NT2 tetrazoles  
 NT3 tetrazolium  
 NT2 thiadiazoles  
 NT2 thiazoles  
 NT3 benzothiazoles  
 NT3 saccharin  
 NT3 thiamine  
 NT2 triazoles  
 NT1 carbamates  
 NT2 dedtc  
 NT2 urethane  
 NT1 carbazides  
 NT1 carbazones  
 NT2 dithizone  
 NT1 cyanamides  
 NT1 diazo compounds  
 NT2 pyridylazonaphthol  
 NT2 pyridylazoresorcinol  
 NT2 thorin  
 NT1 dpca  
 NT1 gangliosides  
 NT1 guanidines  
 NT2 mibg  
 NT1 hydrazides  
 NT2 isoniazid  
 NT1 hydrazones  
 NT1 imides  
 NT2 nem  
 NT1 imines  
 NT2 creatinine  
 NT2 schiff bases  
 NT1 imipramine  
 NT1 isoalloxazines  
 NT2 diaphorase  
 NT1 melanin  
 NT1 morpholines  
 NT1 nitriles  
 NT2 acetonitrile  
 NT2 acrylonitrile  
 NT2 propionitrile  
 NT2 ttf-tenq  
 NT1 nitro compounds  
 NT2 dinitrophenol  
 NT2 dpph  
 NT2 metronidazole  
 NT2 misonidazole  
 NT2 nitrobenzene

NT2 nitromethane  
 NT2 nitrophenol  
 NT2 picric acid  
 NT2 polycyclic nitro compounds  
 NT2 tetryl  
 NT2 tnt  
 NT1 nitroso compounds  
 NT2 1-nitroso-2-naphthol  
 NT2 methyl nitrosoourea  
 NT2 nitrosamines  
 NT2 nitroso-r salt  
 NT2 nitrosooureas  
 NT1 oximes  
 NT2 benzoinoxime  
 NT2 dimethylglyoxime  
 NT1 parathion  
 NT1 porphyrins  
 NT2 chlorins  
 NT2 chlorophyll  
 NT2 hematoporphyrins  
 NT2 heme  
 NT2 hemoglobin  
 NT3 methemoglobin  
 NT2 hemosiderin  
 NT2 myoglobin  
 NT2 protoporphyrins  
 NT1 semicarbazides  
 NT1 semicarbazones  
 NT1 tamoxifen  
 NT1 thionine  
 RT diazotization  
 RT nitrogen compounds  
 RT squarylium dyes

## ORGANIC OXYGEN COMPOUNDS

1996-07-18

Excluding those concepts included under the descriptors: HYDROXY COMPOUNDS, CARBONIC ACID DERIVATIVES, LIPIDS, ORGANIC ACIDS, ALDEHYDES, KETONES, and ESTERS.

UF murexide  
 UF parabanic acid  
 UF purpuric acid  
 UF tmpn  
 BT1 organic compounds  
 NT1 allantoin  
 NT1 alloxan  
 NT1 barbiturates  
 NT2 nembital  
 NT2 phenobarbital  
 NT1 benzoyl peroxide  
 NT1 cyanurates  
 NT1 cytosine  
 NT1 dioxane  
 NT1 dioxin  
 NT1 epoxides  
 NT2 araldite  
 NT1 ethers  
 NT2 acetals  
 NT3 acetal  
 NT2 anisole  
 NT2 butyl ether  
 NT2 cellosolves  
 NT2 crown ethers  
 NT2 curcumin  
 NT2 dme  
 NT2 ethyl ether  
 NT2 isopropyl ether  
 NT2 methyl ether  
 NT2 methylal  
 NT2 mexamine  
 NT2 morpholines  
 NT2 phenyl ether  
 NT1 flavonoids  
 NT2 flavones  
 NT3 morin  
 NT3 quercetin  
 NT1 furans



NT2 benzofurans  
 NT2 furfural  
 NT2 tetrahydrofuran  
 NT3 mthf  
 NT1 heterocyclic oxygen compounds  
 NT2 pyrans  
 NT3 coumarin  
 NT3 hematoxylin  
 NT3 pyrones  
 NT3 quercetin  
 NT3 tetrahydropyran  
 NT1 isoalloxazines  
 NT2 diaphorase  
 NT1 ketenes  
 NT1 malathion  
 NT1 oxadiazoles  
 NT1 oxazoles  
 NT2 benzoxazoles  
 NT2 popop  
 NT1 psoralen  
 NT1 pyridoxal  
 NT1 quinones  
 NT2 anthraquinones  
 NT3 alizarin  
 NT3 carminic acid  
 NT3 quinizarin  
 NT2 benzoquinones  
 NT3 chloranil  
 NT3 chloranilic acid  
 NT3 plastoquinone  
 NT3 ubiquinone  
 NT2 rhodizonic acid  
 NT2 vitamin k  
 NT1 rhodamines  
 NT1 saccharin  
 NT1 semicarbazides  
 NT1 triacetoneamine-n-oxyl  
 NT1 trioxanes  
 NT1 xanthenes  
 NT2 caffeine  
 NT2 theobromine  
 NT2 theophylline  
 NT2 uric acid  
 RT oxygen compounds

## ORGANIC PHOSPHORUS COMPOUNDS

Excluding those concepts covered by NUCLEIC ACIDS and NUCLEOTIDES.

UF diphenylphosphine oxide  
 UF dpo  
 BT1 organic compounds  
 NT1 casein  
 NT1 cmpo  
 NT1 cystaphos  
 NT1 malathion  
 NT1 parathion  
 NT1 phosphinic acid esters  
 NT1 phosphinic acids  
 NT1 phosphocreatine  
 NT1 phospholipids  
 NT2 cardiolipin  
 NT2 lecithins  
 NT2 sphingomyelins  
 NT1 phosphonates  
 NT1 phosphonic acid esters  
 NT2 damp  
 NT2 dhdecmp  
 NT1 phosphonic acids  
 NT1 phosphoric acid esters  
 NT2 butyl phosphates  
 NT3 dbp  
 NT3 mbp  
 NT3 tbp  
 NT2 hdehp  
 NT2 mdpa  
 NT2 phytic acid  
 NT2 tcp  
 NT1 tributylphosphine oxide

NT1 trioctylphosphine oxide  
 NT1 trioctylphosphine sulfide  
 NT1 triphenylphosphine oxide  
 NT1 uridine diphosphoglucose  
 RT phosphine oxides  
 RT phosphines  
 RT phosphorus compounds  
 RT thiophosphoric acid esters

## ORGANIC POLYMERS

UF poly(isobutylene oxide)  
 UF polyacrylonitrile  
 UF polytetraoxane  
 BT1 organic compounds  
 BT1 polymers  
 NT1 araldite  
 NT1 copolymers  
 NT1 graft polymers  
 NT1 neoprene  
 NT1 plastic foams  
 NT1 plastics  
 NT2 aramids  
 NT2 bakelite  
 NT2 formvar  
 NT2 lucite  
 NT2 mylar  
 NT2 nylon  
 NT2 perspex  
 NT2 plexiglas  
 NT2 polystyrene  
 NT2 polyurethanes  
 NT3 halthane  
 NT2 reinforced plastics  
 NT2 tedlar  
 NT2 teflon  
 NT2 thermoplastics  
 NT1 polyacetals  
 NT2 formvar  
 NT2 polyoxymethylenes  
 NT1 polyacetylenes  
 NT1 polyamides  
 NT2 nylon  
 NT2 polyurethanes  
 NT3 halthane  
 NT1 polycarbonates  
 NT1 polyesters  
 NT2 dacron  
 NT2 homalite  
 NT2 mylar  
 NT1 polyethylene glycols  
 NT2 carbowax  
 NT2 pluronics  
 NT1 polyisoprene  
 NT1 polyolefins  
 NT2 polyethylenes  
 NT3 kel-f  
 NT3 polytetrafluoroethylene  
 NT4 teflon  
 NT2 polypropylene  
 NT2 polystyrene  
 NT2 polystyrene-dvb  
 NT1 polyvinyls  
 NT2 polyacrylates  
 NT3 lucite  
 NT3 perspex  
 NT3 plexiglas  
 NT3 pmma  
 NT2 polystyrene  
 NT2 polyvinyl acetate  
 NT2 pva  
 NT2 pvc  
 NT2 pvp  
 NT2 tedlar  
 NT1 resins  
 NT1 rubbers  
 NT2 buna  
 NT2 latex  
 NT2 natural rubber  
 NT2 silastic

NT2 viton  
 NT1 textolite  
 RT acrylonitrile  
 RT benzofurans  
 RT butadiene  
 RT concrete-plastic composites  
 RT fiberglass  
 RT melamine  
 RT plasticizers  
 RT polyphenyls  
 RT wood-plastic composites  
 RT xenobiotics

## ORGANIC SEMICONDUCTORS

1992-05-29

\*BT1 semiconductor materials  
 RT organic compounds  
 RT organic solar cells  
 RT organic superconductors

## ORGANIC SILICON COMPOUNDS

INIS: 1986-07-09; ETDE: 1984-05-09

UF silicic acid esters  
 BT1 organic compounds  
 NT1 silanes  
 NT1 siloxanes  
 NT2 silicones  
 NT3 silastic  
 RT silicon compounds

## ORGANIC SOLAR CELLS

INIS: 1997-06-19; ETDE: 1979-05-02

\*BT1 solar cells  
 RT dyes  
 RT organic semiconductors  
 RT photovoltaic conversion  
 RT pis solar cells  
 RT ps solar cells

## ORGANIC SOLVENTS

1996-10-22

(AMSCO and CARBITOLS have been valid ETDE descriptors.)

UF amSCO  
 UF carbitols  
 UF diglycol monoalkyl ethers  
 \*BT1 nonaqueous solvents  
 NT1 cellosolves  
 NT1 solvesso  
 NT1 turpentine  
 RT butyl ether  
 RT carbon tetrachloride  
 RT chloroform  
 RT dhdecmp  
 RT dme  
 RT ethyl ether  
 RT isopropyl ether  
 RT methyl ether  
 RT solutions  
 RT trioxanes

## ORGANIC SULFUR COMPOUNDS

1996-10-23

UF ethryone  
 UF ethryoneethyl phosphinate  
 UF pentothal  
 UF sulfinic acids  
 UF thio compounds  
 UF thioethers  
 UF thiopental  
 UF thiophosgene  
 BT1 organic compounds  
 NT1 bedt-ttf  
 NT1 biotin  
 NT1 cystamine  
 NT1 dedtc  
 NT1 dimethyl sulfide  
 NT1 disulfides  
 NT2 cystine  
 NT2 thioctic acid  
 NT1 dithizone

NT1 ethionine  
 NT1 heparin  
 NT1 isothiocyanates  
 NT1 methionine  
 NT1 phenothiazines  
   NT2 chlorpromazine  
   NT2 methylene blue  
 NT1 polycyclic sulfur heterocycles  
 NT1 sulfenamides  
 NT1 sulfonamides  
 NT1 sulfonates  
   NT2 indocyanine green  
   NT2 petroleum sulfonates  
 NT1 sulfones  
 NT1 sulfonic acid esters  
   NT2 alkyl benzenesulfonates  
   NT2 ethyl methanesulfonate  
   NT2 methyl methanesulfonate  
   NT2 petroleum sulfonates  
 NT1 sulfonic acids  
   NT2 arsenazo  
   NT2 bromosulphophthalein  
   NT2 chromotropic acid  
   NT2 eriochrome dyes  
   NT2 evans blue  
   NT2 ferron  
   NT2 methyl orange  
   NT2 nitroso-r salt  
   NT2 sulfanilic acid  
   NT2 taurine  
   NT2 thorin  
   NT2 tiron  
   NT2 trypan blue  
   NT2 unithiol  
 NT1 sulfoxides  
   NT2 dmsa  
   NT2 dpo  
 NT1 sulfuric acid esters  
 NT1 tetrathiafulvalene  
 NT1 thiadiazoles  
 NT1 thiazoles  
   NT2 benzothiazoles  
   NT2 saccharin  
   NT2 thiamine  
 NT1 thiocyanates  
   NT2 ammonium thiocyanates  
 NT1 thioic acids  
 NT1 thiols  
   NT2 cysteamine  
   NT2 cysteine  
   NT2 dithiols  
     NT3 dimercaprol  
     NT3 unithiol  
   NT2 malathion  
   NT2 mercaptoethylguanidine  
   NT2 mercaptopurine  
   NT2 mpg  
   NT2 penicillamine  
   NT2 thionalide  
   NT2 thiouracil  
 NT1 thionaphthenes  
 NT1 thionates  
 NT1 thionine  
 NT1 thionyl chlorides  
 NT1 thiophene  
 NT1 thiophenols  
 NT1 thioureas  
   NT2 beta-aminoethyl isothiourea  
   NT2 thiourea  
 NT1 trioctylphosphine sulfide  
 NT1 tta  
 NT1 ttf-tenq  
 NT1 xanthates  
   NT2 viscose  
 RT sulfur compounds  
 RT thiophosphoric acid esters

**ORGANIC SUPERCONDUCTORS**

INIS: 2000-05-02; ETDE: 1991-02-22

BT1 superconductors  
 NT1 bedt-tdf  
 NT1 tmtsf  
 NT1 ttf-tenq  
 RT organic compounds  
 RT organic semiconductors

**ORGANIC WASTES**

INIS: 1991-12-11; ETDE: 1975-09-11

BT1 wastes  
 NT1 agricultural wastes  
   NT2 bagasse  
   NT2 manures  
 NT1 compost  
 NT1 stillage  
 NT1 wood wastes  
 RT biological wastes  
 RT industrial wastes  
 RT liquid wastes  
 RT sewage  
 RT solid wastes

**organization economic co-operation and development**

1993-11-09

USE oecd

**organization of american states**

INIS: 2000-04-12; ETDE: 1978-03-03

USE international organizations

**ORGANIZATIONAL MODELS**

INIS: 1975-11-07; ETDE: 1975-12-16

UF models (organizational)  
 RT management  
 RT organizing  
 RT planning

**ORGANIZING**

RT organizational models  
 RT planning  
 RT schedules

**organoids**

1994-08-22

(Until August 1994 this was a valid descriptor.)

USE golgi complexes

**ORGANOLEPTIC PROPERTIES**

NT1 color  
 NT1 flavor  
 NT1 odor  
 RT food  
 RT preservation  
 RT sense organs

**ORGANOMETALLIC COMPOUNDS**

For compounds of metals and semimetals with organic compounds, but only when the metal or semimetal is directly bound to carbon.

BT1 organic compounds  
 NT1 grignard reagents  
 NT1 lactoferrin  
 NT1 tetraethyl lead

**organophosphinic acids**

1992-01-10

(Prior to January 1992, this was a valid ETDE descriptor.)

USE phosphinic acids

**ORGANS**

1996-04-30

BT1 body  
 NT1 blood vessels  
   NT2 arteries  
     NT3 aorta  
     NT3 carotid arteries

NT3 cerebral arteries  
   NT3 coronaries  
 NT2 capillaries  
 NT2 veins  
   NT3 portal system  
 NT1 bone marrow  
 NT1 brain  
   NT2 cerebellum  
   NT2 cerebrum  
   NT3 cerebral cortex  
   NT2 hippocampus  
   NT2 hypothalamus  
   NT2 olfactory bulbs  
   NT2 thalamus  
 NT1 critical organs  
 NT1 diaphragm  
 NT1 esophagus  
 NT1 female genitals  
   NT2 ovaries  
   NT2 uterus  
 NT1 glands  
   NT2 endocrine glands  
     NT3 adrenal glands  
     NT3 pancreas  
     NT3 parathyroid glands  
     NT3 pituitary gland  
     NT3 thyroid  
   NT2 liver  
   NT2 mammary glands  
   NT2 pineal gland  
   NT2 prostate  
   NT2 salivary glands  
 NT1 heart  
   NT2 myocardium  
   NT2 pericardium  
 NT1 intestines  
   NT2 large intestine  
   NT3 rectum  
   NT2 small intestine  
 NT1 kidneys  
   NT2 glomeruli  
   NT2 tubules  
 NT1 lungs  
 NT1 male genitals  
   NT2 prostate  
   NT2 testes  
 NT1 perfused organs  
 NT1 pharynx  
 NT1 sense organs  
   NT2 auditory organs  
   NT2 eyes  
     NT3 conjunctiva  
     NT3 cornea  
     NT3 crystalline lens  
     NT3 lacrimal ducts  
     NT3 retina  
     NT3 uvea  
   NT2 taste buds  
   NT2 vestibular apparatus  
 NT1 skeleton  
   NT2 bone joints  
   NT2 exoskeleton  
   NT2 femur  
   NT2 skull  
     NT3 jaw  
   NT2 tibia  
   NT2 vertebrae  
 NT1 skin  
   NT2 epidermis  
   NT2 hair  
   NT2 hair follicles  
   NT2 nails  
 NT1 spleen  
 NT1 stomach  
 NT1 thymus  
 NT1 tongue  
 NT1 urinary tract  
   NT2 bladder  
   NT2 ureters

RT animal tissues  
 RT artificial organs  
 RT biological regeneration  
 RT biology  
 RT blood flow  
 RT cardiovascular system  
 RT digestive system  
 RT homogenates  
 RT in vivo  
 RT lymphatic system  
 RT morphogenesis  
 RT nervous system  
 RT respiratory system  
 RT retention

**ORGDP**

UF *k-25 plant*  
 UF *oak ridge gaseous diffusion plant*  
 \*BT1 gaseous diffusion plants  
 \*BT1 us doe  
 \*BT1 us erda  
 RT gaseous diffusion process  
 RT oak ridge  
 RT oak ridge reservation  
 RT tennessee

**orgel reactor**

USE essor reactor

**ORIENTAL AMERICANS**

INIS: 2000-04-12; ETDE: 1982-01-21  
 UF *american orientals*  
 \*BT1 minority groups  
 RT sociology

**ORIENTATION**

(From December 1975 till February 1997 AZIMUTH was a valid ETDE descriptor.)

UF *attitude control*  
 SF *azimuth*  
 NT1 grain orientation  
 NT1 spin orientation  
 RT anisotropy  
 RT asymmetry  
 RT configuration  
 RT incidence angle  
 RT isotropy  
 RT symmetry  
 RT tilt mechanisms

**orientation (grain)**

2000-04-12  
 USE grain orientation

**ORIENTED NUCLEI**

UF *polarized nuclei*  
 BT1 nuclei  
 RT nuclear alignment  
 RT polarization

**ORIFICES**

BT1 openings  
 RT apertures  
 RT flowmeters  
 RT nozzles  
 RT pipe fittings

**ORIGIN**

UF *earthquake foci*  
 UF *genesis*  
 RT catagenesis  
 RT cosmology  
 RT diagenesis  
 RT nucleosynthesis  
 RT orogenesis  
 RT petrogenesis  
 RT protostars  
 RT star evolution  
 RT white holes

**ORINS**

INIS: 2000-04-12; ETDE: 1984-12-26  
 UF *oak ridge institute of nuclear studies*  
 \*BT1 us organizations

**orion computers**

2000-04-12  
 (Prior to February 1996 this was a valid ETDE descriptor.)  
 USE computers

**ORMAK DEVICES**

\*BT1 tokamak devices

**ORNAMENTAL PLANTS**

BT1 plants  
 RT aesthetics

**ORNITHINE**

UF *2,5-diaminovaleric acid*  
 \*BT1 amino acids

**ORNL**

UF *oak ridge national laboratory*  
 \*BT1 us aec  
 \*BT1 us doe  
 \*BT1 us erda  
 RT oak ridge  
 RT oak ridge reservation  
 RT tennessee

**ORNL ISOCHRONOUS CYCLOTRON**

\*BT1 isochronous cyclotrons  
 RT hhurf accelerator

**ORNL-PCA REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut down in 1991.

UF *pca-ornl reactor*  
 UF *pool critical assembly ornl*  
 \*BT1 zero power reactors

**ornl research reactor**

USE orr reactor

**ornl x-10 area graphite reactor**

USE x-10 reactor

**OROGENESIS**

*The process of mountain making, especially by folding of the earth's crust.*

RT mountains  
 RT origin  
 RT petrogenesis  
 RT rocks

**OROTIC ACID**

UF *6-carboxyuracil*  
 UF *uracil-6-carboxylic acid*  
 \*BT1 heterocyclic acids  
 \*BT1 uracils

**ORPHEE REACTOR**

1979-11-02  
*High flux reactor at Saclay Nuclear Research Centre, Gif-sur-Yvette, France.*

\*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors  
 \*BT1 water cooled reactors

**ORR REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut down in 1987.

UF *oak ridge research reactor*  
 UF *ornl research reactor*  
 \*BT1 enriched uranium reactors  
 \*BT1 tank type reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**orsat apparatus**

2000-04-12  
 (Prior to March 1996 this was a valid ETDE descriptor.)  
 SEE gas analysis

**orsay alice cyclotron**

USE alice cyclotron

**ORSAY CYCLOTRON**

\*BT1 isochronous cyclotrons

**ORSAY LINAC**

\*BT1 linear accelerators

**ORSAY STORAGE RINGS**

2005-01-25  
 (Prior to January 2005 ACO was used for this concept.)

UF *aco (anneau de collisions d'orsay)*  
 UF *anneau de collisions d'orsay*  
 BT1 storage rings

**ORSAY SYNCHROCYCLOTRON**

INIS: 1984-10-23; ETDE: 1990-11-20  
 \*BT1 synchrocyclotrons

**ORSAY TANDEM ACCELERATOR**

INIS: 1977-01-25; ETDE: 1977-04-13  
 \*BT1 tandem electrostatic accelerators  
 \*BT1 van de graaff accelerators

**orthicons**

1996-07-08  
 (Until June 1996 this was a valid descriptor.)  
 USE camera tubes

**orthite**

1997-01-28  
 (Until October 1996 this was a valid descriptor.)  
 USE allanite

**ORTHOCLASE**

INIS: 2000-04-12; ETDE: 1983-06-20  
*A white to pale yellow, red, or transparent mineral of the feldspar group, monoclinic in form.*

\*BT1 feldspars  
 RT aluminium silicates

**orthogonal pinch devices (linear)**

USE linear theta pinch devices

**ORTHOGONAL****TRANSFORMATIONS**

BT1 transformations  
 NT1 moshinsky transformation

**orthoiodohippurate**

INIS: 1975-10-23; ETDE: 2002-04-17  
 USE hippuran

**ORTHONOL**

2000-04-12  
 \*BT1 iron alloys  
 \*BT1 nickel alloys

**ORTHOPTERA**

INIS: 1993-07-15; ETDE: 1981-06-16  
 \*BT1 insects  
 NT1 grasshoppers  
 NT2 locusts

**ORTHORHOMBIC LATTICES**

\*BT1 crystal lattices

**oryza**

USE rice

**OSAMU UTSUMI MINE**

INIS: 1993-02-09; ETDE: 1992-11-20  
 \*BT1 uranium mines

*RT* brazil

## OSCILLATION MODES

*UF* modes (oscillation)

*UF* vibration modes

**NT1** bernstein mode

**NT1** optical modes

**NT1** single-particle modes

*RT* harmonics

*RT* lattice vibrations

*RT* mode control

*RT* mode conversion

*RT* mode selection

*RT* oscillations

*RT* plasma waves

## oscillation techniques (pile)

USE pile oscillation techniques

## OSCILLATIONS

(From February 1976 till March 1997 pendulums was a valid ETDE descriptor.)

*SF* pendulums

**NT1** betatron oscillations

**NT1** harmonics

**NT2** cyclotron harmonics

**NT1** phase oscillations

**NT1** sawtooth oscillations

**NT1** synchrotron oscillations

*RT* amplitudes

*RT* disturbances

*RT* mechanical vibrations

*RT* nyquist diagrams

*RT* oscillation modes

*RT* periodicity

*RT* pulsations

*RT* samarium oscillations

*RT* variations

*RT* xenon oscillations

## oscillations (plasma)

USE plasma waves

## OSCILLATOR STRENGTHS

*RT* einstein coefficients

*RT* energy-level transitions

*RT* optical depth curve

*RT* spectroscopic curve of growth

*RT* strength functions

## OSCILLATORS

\*BT1 electronic equipment

**NT1** blocking oscillators

**NT1** parametric oscillators

**NT1** transistor oscillators

*RT* electronic circuits

*RT* pulse techniques

*RT* reactor oscillators

*RT* resonators

*RT* semiconductor devices

## oscillators (reactor)

USE reactor oscillators

## OSCILLOGRAPHS

\*BT1 electronic equipment

*RT* cathode ray tubes

## OSEEN METHOD

BT1 calculation methods

*RT* fluid flow

## osha

*INIS: 2000-04-12; ETDE: 1978-06-14*

USE us osha

## oshima oi-1 reactor

USE oi-1 reactor

## oshima oi-2 reactor

USE oi-2 reactor

## OSIRIS REACTOR

*CEA/CEN de Saclay, Gif-sur-Yvette, France.*

\*BT1 enriched uranium reactors

\*BT1 materials testing reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

## oskarshamn-1 reactor

USE okg-1 reactor

## oskarshamn-2 reactor

USE okg-2 reactor

## oskarshamn-3 reactor

USE okg-3 reactor

## oskarshamn-4 reactor

USE okg-4 reactor

## OSLO CYCLOTRON

*INIS: 1980-07-24; ETDE: 1980-08-12*

\*BT1 isochronous cyclotrons

## OSMIUM

\*BT1 platinum metals

\*BT1 refractory metals

## OSMIUM 162

*INIS: 1989-07-19; ETDE: 1989-08-01*

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 osmium isotopes

## OSMIUM 163

*INIS: 1986-05-08; ETDE: 1986-07-03*

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 osmium isotopes

## OSMIUM 164

*INIS: 1986-05-08; ETDE: 1986-07-03*

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 osmium isotopes

## OSMIUM 165

*INIS: 1978-11-24; ETDE: 1978-12-20*

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 osmium isotopes

## OSMIUM 166

*INIS: 1978-02-23; ETDE: 1978-05-01*

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 osmium isotopes

## OSMIUM 167

*INIS: 1978-02-23; ETDE: 1978-05-01*

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 osmium isotopes

## OSMIUM 168

*INIS: 1978-02-23; ETDE: 1979-04-12*

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 osmium isotopes

\*BT1 seconds living radioisotopes

## OSMIUM 169

*INIS: 1982-08-27; ETDE: 1979-09-26*

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 osmium isotopes

\*BT1 seconds living radioisotopes

## OSMIUM 170

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 osmium isotopes

\*BT1 seconds living radioisotopes

## OSMIUM 171

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 osmium isotopes

\*BT1 seconds living radioisotopes

## OSMIUM 172

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 osmium isotopes

\*BT1 seconds living radioisotopes

## OSMIUM 173

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 osmium isotopes

\*BT1 seconds living radioisotopes

## OSMIUM 174

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 osmium isotopes

\*BT1 seconds living radioisotopes

## OSMIUM 175

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 osmium isotopes

## OSMIUM 176

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-even nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 osmium isotopes

## OSMIUM 177

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 osmium isotopes

**OSMIUM 178**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 179**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 180**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 181**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 182**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 183**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 osmium isotopes

**OSMIUM 184**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 osmium isotopes
- \*BT1 stable isotopes

**OSMIUM 184 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**OSMIUM 185**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 osmium isotopes

**OSMIUM 186**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 osmium isotopes
- \*BT1 stable isotopes
- \*BT1 years living radioisotopes

**OSMIUM 186 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**OSMIUM 187**

- \*BT1 even-odd nuclei

- \*BT1 heavy nuclei
- \*BT1 osmium isotopes
- \*BT1 stable isotopes

**OSMIUM 187 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**OSMIUM 188**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 osmium isotopes
- \*BT1 stable isotopes

**OSMIUM 188 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**OSMIUM 189**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 osmium isotopes
- \*BT1 stable isotopes

**OSMIUM 189 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**OSMIUM 190**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes
- \*BT1 stable isotopes

**OSMIUM 190 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**OSMIUM 191**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 osmium isotopes

**OSMIUM 191 TARGET**

*INIS: 1979-04-27; ETDE: 1979-05-25*  
BT1 targets

**OSMIUM 192**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 osmium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 stable isotopes

**OSMIUM 192 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**OSMIUM 193**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 osmium isotopes

**OSMIUM 193 TARGET**

*INIS: 1992-09-23; ETDE: 1982-03-29*  
BT1 targets

**OSMIUM 194**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei

- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 osmium isotopes
- \*BT1 years living radioisotopes

**OSMIUM 195**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 osmium isotopes

**OSMIUM 196**

*INIS: 1977-01-26; ETDE: 1976-10-13*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 osmium isotopes

**OSMIUM ADDITIONS**

*Alloys containing not more than 1% Os are listed here.*  
\*BT1 osmium alloys

**OSMIUM ALLOYS**

*Alloys containing more than 1% Os.*  
\*BT1 platinum metal alloys  
NT1 osmium additions  
NT1 osmium base alloys

**OSMIUM BASE ALLOYS**

- \*BT1 osmium alloys

**OSMIUM BORIDES**

*INIS: 1976-02-05; ETDE: 1975-12-16*  
\*BT1 borides  
\*BT1 osmium compounds

**OSMIUM CARBIDES**

*INIS: 1991-09-16; ETDE: 1976-01-23*  
\*BT1 carbides  
\*BT1 osmium compounds

**OSMIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 osmium compounds

**OSMIUM COMPLEXES**

- \*BT1 transition element complexes

**OSMIUM COMPOUNDS**

*1997-06-18*  
UF osmium sulfates  
BT1 refractory metal compounds  
BT1 transition element compounds  
NT1 osmium borides  
NT1 osmium carbides  
NT1 osmium chlorides  
NT1 osmium fluorides  
NT1 osmium oxides  
NT1 osmium phosphides  
NT1 osmium sulfides

**OSMIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 osmium compounds

**OSMIUM IONS**

- \*BT1 ions

**OSMIUM ISOTOPES**

*1999-07-16*  
BT1 isotopes  
NT1 osmium 162  
NT1 osmium 163  
NT1 osmium 164  
NT1 osmium 165  
NT1 osmium 166  
NT1 osmium 167  
NT1 osmium 168  
NT1 osmium 169  
NT1 osmium 170

NT1 osmium 171  
 NT1 osmium 172  
 NT1 osmium 173  
 NT1 osmium 174  
 NT1 osmium 175  
 NT1 osmium 176  
 NT1 osmium 177  
 NT1 osmium 178  
 NT1 osmium 179  
 NT1 osmium 180  
 NT1 osmium 181  
 NT1 osmium 182  
 NT1 osmium 183  
 NT1 osmium 184  
 NT1 osmium 185  
 NT1 osmium 186  
 NT1 osmium 187  
 NT1 osmium 188  
 NT1 osmium 189  
 NT1 osmium 190  
 NT1 osmium 191  
 NT1 osmium 192  
 NT1 osmium 193  
 NT1 osmium 194  
 NT1 osmium 195  
 NT1 osmium 196

**OSMIUM OXIDES**

\*BT1 osmium compounds  
 \*BT1 oxides

**OSMIUM PHOSPHIDES**

INIS: 2000-04-12; ETDE: 1984-06-14

\*BT1 osmium compounds  
 \*BT1 phosphides

**osmium sulfates**

INIS: 1996-07-08; ETDE: 1977-04-12

(Until June 1996 this was a valid descriptor.)

USE osmium compounds  
 USE sulfates

**OSMIUM SULFIDES**

INIS: 2000-04-12; ETDE: 1977-03-04

\*BT1 osmium compounds  
 \*BT1 sulfides

**OSMOSIS**

UF reverse osmosis  
 BT1 diffusion  
 RT advection  
 RT donnan theory  
 RT hypertonic solutions  
 RT isotonic solutions  
 RT mass transfer  
 RT membrane transport  
 RT membranes  
 RT molecular weight  
 RT permeability

**osmotic power plants**

INIS: 2000-04-12; ETDE: 1977-09-19

USE salinity gradient power plants

**osteitis (radioinduced)**

USE osteoradionecrosis

**osteoblasts**

USE connective tissue cells

**osteocytes**

USE bone cells

**OSTEODENSITOMETRY**

\*BT1 biomedical radiography  
 RT bone tissues  
 RT osteoporosis  
 RT scintiscanning

**OSTEOMYELITIS**

\*BT1 skeletal diseases  
 RT bone tissues

**OSTEOPOROSIS**

\*BT1 skeletal diseases  
 RT bone tissues  
 RT osteodensitometry

**OSTEORADIONECROSIS**

UF osteitis (radioinduced)  
 \*BT1 local radiation effects  
 \*BT1 necrosis  
 \*BT1 radiation injuries  
 \*BT1 skeletal diseases  
 RT bone tissues

**OSTEOSARCOMAS**

\*BT1 sarcomas  
 \*BT1 skeletal diseases  
 RT bone tissues

**OSTR REACTOR**

Oregon State Univ., Corvallis, Oregon, USA.

UF oregon state triga reactor  
 \*BT1 isotope production reactors  
 \*BT1 pulsed reactors  
 \*BT1 training reactors  
 \*BT1 triga type reactors

**OSUR REACTOR**

Ohio State Univ., Columbus, Ohio, USA.

UF ohio state university reactor  
 \*BT1 pool type reactors  
 \*BT1 training reactors

**oswego nuclear power plant**

USE nine mile point-2 reactor

**OTAKE GEOTHERMAL FIELD**

2000-04-12

BT1 geothermal fields  
 RT geothermal hot-water systems  
 RT japan

**otec**

INIS: 1991-12-11; ETDE: 1981-01-27  
 USE ocean thermal energy conversion

**otec foam-lift cycle**

INIS: 2000-04-12; ETDE: 1980-08-12

USE lift cycles

**otec lift cycles**

INIS: 2000-04-12; ETDE: 1980-08-12

USE lift cycles

**otec mist-lift cycle**

INIS: 2000-04-12; ETDE: 1980-08-12

USE mist-lift cycles

**OTHER ORGANIC COMPOUNDS**

For organic materials, usually naturally occurring, composed of undetermined or mixed organic compounds.

BT1 organic compounds  
 NT1 amber  
 NT1 asphaltite  
 NT1 oils  
 NT2 coal tar oils  
 NT2 essential oils  
 NT2 fish oil  
 NT2 insulating oils  
 NT2 lipiodol  
 NT2 lubricating oils  
 NT2 pyrolytic oils  
 NT2 road oils  
 NT2 shale tar oils  
 NT2 tall oil  
 NT2 triolein  
 NT2 vegetable oils  
 NT3 castor oil  
 NT3 corn oil  
 NT3 cottonseed oil  
 NT3 linseed oil  
 NT3 olive oil

NT3 palm oil  
 NT3 peanut oil  
 NT3 sesame oil  
 NT3 soybean oil  
 NT3 sunflower oil  
 NT2 waste oils  
 NT2 wood oils  
 NT1 pitches  
 NT1 soaps  
 NT1 tar  
 NT2 bitumens  
 NT3 asphalts  
 NT3 coal tar  
 NT3 thucholite  
 NT2 shale tar  
 NT1 waxes  
 NT2 carbowax  
 NT2 paraffin

**OTISCA PROCESS**

INIS: 2000-04-12; ETDE: 1981-06-13

Heavy media separation process using chlorofluoromethanes.

\*BT1 heavy media separation

**OTTAWA RIVER**

\*BT1 rivers  
 RT ontario  
 RT quebec

**ottawa slowpoke reactor**

INIS: 1984-06-21; ETDE: 2002-04-17

USE slowpoke-ottawa reactor

**OTTERS**

INIS: 1993-05-04; ETDE: 1984-05-08

\*BT1 mammals  
 RT aquatic ecosystems  
 RT aquatic organisms

**OTTO CYCLE**

2000-04-12

BT1 thermodynamic cycles

**otto hahn (nuclear ship)**

USE ns otto hahn

**OTTO HAHN REACTOR**

UF fdr reactor  
 UF nuclear ship otto hahn reactor  
 \*BT1 pwr type reactors  
 \*BT1 ship propulsion reactors  
 RT ns otto hahn

**OTTO PROCESS**

2000-04-12

Process for removal of hydrogen sulfide from coal gas.

\*BT1 desulfurization  
 RT sulfur

**OTTO RUMMEL SLAG BATH PROCESS**

INIS: 2000-04-12; ETDE: 1977-05-07

Slag bath gasification using either steam or oxygen-steam; steam blown system requires a dual shaft, which permits the separation of the combustor function from the gasification function, thereby permitting synthesis gas generation with low nitrogen content.

\*BT1 coal gasification

**OUABAIN**

\*BT1 strophanthins

**OUNCE METAL**

2000-04-12

\*BT1 copper base alloys  
 \*BT1 lead alloys  
 \*BT1 nickel additions  
 \*BT1 tin alloys  
 \*BT1 zinc alloys

RT brass

## OUTAGES

INIS: 1995-03-27; ETDE: 1979-07-18  
Accidental or planned shutdowns or significant reductions of all or part of an electrical or thermal power system.

UF blackouts  
UF brownouts  
RT accidents  
RT availability  
RT capacity  
RT failures  
RT maintenance  
RT power losses  
RT power plants  
RT power supplies  
RT power systems  
RT power transmission  
RT reliability  
RT shutdown

## OUTDOORS

INIS: 2004-05-14; ETDE: 2004-11-02  
Only for documents where this concept is significant. Consider also more specific descriptors such as ARCTIC REGIONS or one indicating the temperature range.

RT ambient temperature  
RT climates  
RT indoors

## outer continental shelf

INIS: 2000-04-12; ETDE: 1979-11-23  
USE continental shelf

## outgassing

USE degassing

## OUTLET STRUCTURES

INIS: 2000-04-12; ETDE: 1979-05-31  
BT1 mechanical structures

## output

INIS: 2000-04-12; ETDE: 1980-05-06  
USE production

## OVA

\*BT1 gametes  
RT eggs  
RT fertilization  
RT life cycle  
RT oocytes  
RT oogenesis  
RT ovulation

## OVALBUMIN

\*BT1 glucoproteins

## OVARIES

\*BT1 female genitals  
BT1 gonads  
RT estrogens  
RT oogenesis  
RT ovulation  
RT progesterone

## OVEN COKE

INIS: 2000-04-12; ETDE: 1979-09-27  
BT1 coke

## OVENS

INIS: 1999-12-31; ETDE: 1982-08-11  
\*BT1 appliances  
NT1 microwave ovens  
RT electric appliances  
RT gas appliances  
RT stoves  
RT wood burning appliances

## OVERBURDEN

1990-12-07

The loose soil, silt, sand, gravel, or other unconsolidated material overlying bedrock, either transported or formed in place.

SF regolith  
RT dusts  
RT earth mantle  
RT mining  
RT rock mechanics  
RT rocks  
RT soil mechanics

## OVERCURRENT

1986-04-03

\*BT1 electric currents  
RT surges  
RT transients

## OVERHAUSER EFFECT

1980-07-24

RT electron spin resonance  
RT nuclear magnetic resonance  
RT nuclei  
RT polarization

## OVERHEAD POWER

### TRANSMISSION

INIS: 1992-06-04; ETDE: 1976-08-04

BT1 power transmission  
RT power transmission towers

## overthrust belt

INIS: 2000-04-12; ETDE: 1982-07-27  
USE western us overthrust belt

## OVERVOLTAGE

1999-06-30

RT breakdown  
RT electric potential  
RT electrical transients  
RT surges  
RT transients  
RT var control systems

## OVULATION

RT estrous cycle  
RT fertilization  
RT menstrual cycle  
RT ova  
RT ovaries  
RT reproduction

## OWNERSHIP

INIS: 1978-11-24; ETDE: 1977-07-23  
(From December 1977 until March 1996 MULTINATIONAL OWNERSHIP was a valid ETDE descriptor.)

UF multinational ownership  
NT1 land ownership  
RT legal aspects  
RT mineral rights  
RT property rights  
RT public enterprises  
RT solar rights

## OWR REACTOR

Univ. of California, LANL, Los Alamos, New Mexico, USA.

UF los alamos omega west reactor  
UF omega west reactor  
\*BT1 enriched uranium reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 test reactors  
\*BT1 thermal reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

## OXADIAZOLES

Compounds that contain a five-membered heterocyclic ring containing one oxygen and two nitrogen atoms.

\*BT1 azoles  
\*BT1 organic oxygen compounds

## oxalaldehyde

USE glyoxal

## OXALATES

BT1 carboxylic acid salts  
RT oxalic acid esters

## OXALIC ACID

\*BT1 dicarboxylic acids

## OXALIC ACID ESTERS

\*BT1 carboxylic acid esters  
RT oxalates

## OXAZOLES

1996-01-24

Compounds that contain a five-membered heterocyclic ring containing one nitrogen and one oxygen atom.

\*BT1 azoles  
\*BT1 organic oxygen compounds  
NT1 benzoxazoles  
NT1 popop

## oxetane

INIS: 2000-04-12; ETDE: 1980-12-08

USE ethers  
USE heterocyclic oxygen compounds

## oxidants

INIS: 1983-02-04; ETDE: 1977-01-10  
USE oxidizers

## OXIDASES

1996-11-13

\*BT1 oxidoreductases  
NT1 cytochrome oxidase  
NT1 luciferase

## OXIDATION

UF disproportionation  
BT1 chemical reactions  
NT1 combustion  
NT2 cocombustion  
NT2 fluidized-bed combustion  
NT2 in-situ combustion  
NT2 pulse combustion  
NT2 reverse combustion  
NT2 spontaneous combustion  
NT2 staged combustion  
NT1 roasting  
RT anoxia  
RT antioxidants  
RT bioreactors  
RT corrosion  
RT corrosion products  
RT oxidizers  
RT oxidoreductases  
RT redox potential  
RT redox reactions  
RT reduction  
RT sesame process  
RT sulfation  
RT thiobacillus ferrooxidans  
RT thiobacillus oxidans  
RT wet oxidation processes

## oxidation state

INIS: 2000-04-12; ETDE: 1980-10-27  
USE valence

## OXIDE MINERALS

INIS: 1996-11-13; ETDE: 1982-05-12

(The UF terms below have been valid ETDE descriptors.)

UF *aeschnite*  
 UF *cerianite*  
 UF *coesite*  
 UF *curite*  
 UF *davidite*  
 UF *demesmaekerite*  
 UF *francevillite*  
 UF *gummitite*  
 UF *hatchettolite*  
 UF *iriginite*  
 UF *masuyite*  
 UF *moluranite*  
 UF *strelkinite*  
 UF *umohoite*  
 UF *uranothorianite*  
 UF *wulfenite*  
 UF *zeunerite*  
 BT1 minerals  
 NT1 baddeleyite  
 NT1 bastnaesite  
 NT1 becquerelite  
 NT1 billietite  
 NT1 brannerite  
 NT1 chrysoberyl  
 NT1 clarkeite  
 NT1 compregnacite  
 NT1 corundum  
   NT2 ruby  
   NT2 sapphire  
 NT1 corvusite  
 NT1 cristobalite  
 NT1 ellsworthite  
 NT1 ferghanite  
 NT1 ferrite garnets  
 NT1 gibbsite  
 NT1 goethite  
 NT1 guilleminite  
 NT1 hallimondite  
 NT1 heinrichite  
 NT1 hematite  
 NT1 hollandite  
 NT1 ianthinite  
 NT1 ilmenite  
 NT1 kahlerite  
 NT1 kaolin  
 NT1 kirchheimerite  
 NT1 limonite  
 NT1 lodochmikitite  
 NT1 lyndochite  
 NT1 magnetite  
 NT1 marignacite  
 NT1 melanovanadite  
 NT1 moctezumite  
 NT1 mullite  
 NT1 naegite  
 NT1 nogizawalite  
 NT1 nordstrandite  
 NT1 novacekite  
 NT1 para-schoepite  
 NT1 pascoite  
 NT1 perovskite  
 NT1 quartz  
 NT1 rauvite  
 NT1 rutile  
 NT1 schoepite  
 NT1 sengierite  
 NT1 silica  
   NT2 opals  
 NT1 spinels  
 NT1 stishovite  
 NT1 tantalite  
 NT1 tapiolite  
 NT1 thorianite  
 NT1 tyuyamunite  
 NT1 uraninites

NT2 broeggerite  
 NT2 pitchblende  
 NT1 uranium black  
 NT1 wolframite  
 NT1 zirconolite  
 RT aluminium oxides  
 RT arsenic oxides  
 RT barium oxides  
 RT calcium oxides  
 RT cerium oxides  
 RT cobalt oxides  
 RT copper oxides  
 RT hafnium oxides  
 RT iron oxides  
 RT kimberlites  
 RT lead oxides  
 RT magnesium oxides  
 RT manganese oxides  
 RT molybdenum oxides  
 RT niobium oxides  
 RT perovskites  
 RT potassium oxides  
 RT selenium oxides  
 RT shales  
 RT silicon oxides  
 RT sodium oxides  
 RT tantalum oxides  
 RT tellurium oxides  
 RT thorium oxides  
 RT titanium oxides  
 RT tungsten oxides  
 RT uranium oxides  
 RT vanadium oxides  
 RT zirconium oxides

## OXIDES

1997-06-19

UF *actinium oxides*  
 UF *fermium oxides*  
 UF *helium oxides*  
 UF *mendelevium oxides*  
 UF *neon oxides*  
 UF *nobelium oxides*  
 BT1 chalcogenides  
 BT1 oxygen compounds  
 NT1 aluminium oxides  
 NT1 americium oxides  
 NT1 antimony oxides  
 NT1 argon oxides  
 NT1 arsenic oxides  
 NT1 barium oxides  
 NT1 berkelium oxides  
 NT1 beryllium oxides  
 NT1 bismuth oxides  
 NT1 boron oxides  
 NT1 bromine oxides  
 NT1 cadmium oxides  
 NT1 calcium oxides  
 NT1 californium oxides  
 NT1 carbon oxides  
   NT2 carbon dioxide  
   NT2 carbon monoxide  
 NT1 cerium oxides  
 NT1 cesium oxides  
 NT1 chlorine oxides  
 NT1 chromium oxides  
 NT1 cobalt oxides  
 NT1 copper oxides  
 NT1 curium oxides  
 NT1 dysprosium oxides  
 NT1 einsteinium oxides  
 NT1 erbium oxides  
 NT1 europium oxides  
 NT1 fluorine oxides  
 NT1 gadolinium oxides  
 NT1 gallium oxides  
 NT1 germanium oxides  
 NT1 gold oxides  
 NT1 hafnium oxides

NT1 holmium oxides  
 NT1 indium oxides  
 NT1 iodine oxides  
 NT1 iridium oxides  
 NT1 iron oxides  
 NT1 krypton oxides  
 NT1 lanthanum oxides  
 NT1 lead oxides  
 NT1 lithium oxides  
 NT1 lutetium oxides  
 NT1 magnesium oxides  
 NT1 manganese oxides  
 NT1 mercury oxides  
 NT1 molybdenum oxides  
   NT2 molybdenum blue  
 NT1 neodymium oxides  
 NT1 neptunium oxides  
 NT1 nickel oxides  
 NT1 niobium oxides  
 NT1 nitrogen oxides  
   NT2 nitric oxide  
   NT2 nitrogen dioxide  
   NT2 nitrous oxide  
 NT1 osmium oxides  
 NT1 palladium oxides  
 NT1 phosphorus oxides  
 NT1 platinum oxides  
 NT1 plutonium oxides  
   NT2 plutonium dioxide  
 NT1 polonium oxides  
 NT1 potassium oxides  
 NT1 praseodymium oxides  
 NT1 promethium oxides  
 NT1 protactinium oxides  
 NT1 radium oxides  
 NT1 radon oxides  
 NT1 rhenium oxides  
 NT1 rhodium oxides  
 NT1 rubidium oxides  
 NT1 ruthenium oxides  
 NT1 samarium oxides  
 NT1 scandium oxides  
 NT1 selenium oxides  
 NT1 silicon oxides  
 NT1 silver oxides  
 NT1 sodium oxides  
   NT2 sodium tungsten bronze  
 NT1 strontium oxides  
 NT1 sulfur oxides  
   NT2 sulfur dioxide  
   NT2 sulfur trioxide  
 NT1 tantalum oxides  
 NT1 technetium oxides  
 NT1 tellurium oxides  
 NT1 terbium oxides  
 NT1 thallium oxides  
 NT1 thorium oxides  
   NT2 thorotrast  
 NT1 thulium oxides  
 NT1 tin oxides  
 NT1 titanium oxides  
 NT1 tritium oxides  
 NT1 tungsten oxides  
   NT2 sodium tungsten bronze  
 NT1 uranium oxides  
   NT2 uranium dioxide  
   NT2 uranium oxides u3o8  
   NT2 uranium trioxide  
 NT1 vanadium oxides  
 NT1 xenon oxides  
 NT1 ytterbium oxides  
 NT1 yttrium oxides  
   NT2 alloy-in-853  
 NT1 zinc oxides  
 NT1 zirconium oxides  
 RT ceramics  
 RT corrosion products  
 RT oxybromides  
 RT oxycarbides



RT oxychlorides  
 RT oxyfluorides  
 RT oxygen additions  
 RT oxyiodides  
 RT oxynitrates  
 RT oxyselenides  
 RT oxysulfides  
 RT oxytellurides

**OXIDIZERS**

INIS: 1983-02-04; ETDE: 1977-01-10

UF oxidants  
 UF oxidizing agents  
 RT antioxidants  
 RT oxidation

**oxidizing agents**

INIS: 1983-02-04; ETDE: 1977-01-10

USE oxidizers

**OXIDOREDUCTASES**

1997-06-17

Code number 1.

(DEHYDROGENASES, HAEM DEHYDROGENASES, and NUCLEOTIDE DEHYDROGENASES have been valid descriptors.)

UF dehydrogenases  
 UF haem dehydrogenases  
 UF nucleotide dehydrogenases  
 UF reductases

\*BT1 enzymes  
 NT1 amine oxidases  
 NT1 aryl 4-monooxygenase  
 NT1 diaphorase  
 NT1 hemiacetal dehydrogenases  
 NT2 alcohol dehydrogenase  
 NT2 lactate dehydrogenase  
 NT1 hydrogenases  
 NT1 hydroxylases  
 NT2 tyrosinase  
 NT1 nitro-group dehydrogenases  
 NT2 nitrogenase  
 NT1 oxidases  
 NT2 cytochrome oxidase  
 NT2 luciferase  
 NT1 oxygenases  
 NT2 mixed-function oxidases  
 NT1 peroxidases  
 NT2 catalase  
 NT1 superoxide dismutase  
 RT oxidation  
 RT redox process  
 RT reduction  
 RT respiration

**OXIMES**

1996-10-23

UF furildioxime  
 \*BT1 amines  
 \*BT1 hydroxy compounds  
 \*BT1 organic nitrogen compounds  
 NT1 benzoinoxime  
 NT1 dimethylglyoxime  
 RT aldehydes  
 RT hydroxylamine  
 RT ketones

**OXINE**

1980-07-24

UF 8-hydroxyquinoline  
 UF 8-quinolinol  
 \*BT1 hydroxy compounds  
 \*BT1 quinolines

**oxirans**

USE epoxides

**oxoacetic acid**

USE glyoxylic acid

**oxocarboxylic acids**

USE keto acids

**OXONIUM IONS**

UF hydronium ions  
 \*BT1 molecular ions  
 RT hydrogen ions 1 plus  
 RT radiation chemistry

**oxopropane**

USE acetone

**OXY MODIFIED IN-SITU PROCESS**

INIS: 2000-04-12; ETDE: 1977-03-08

Before March 1977 GARRETT PROCESS was used for this process.

UF garrett process  
 BT1 modified in-situ processes  
 RT oil shales

**OXYBROMIDES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

\*BT1 bromine compounds  
 \*BT1 oxyhalides  
 RT bromides  
 RT bromine oxides  
 RT oxides

**OXYCARBIDES**

INIS: 1984-08-23; ETDE: 1976-06-07

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

BT1 carbon compounds  
 BT1 oxygen compounds  
 RT carbides  
 RT carbon oxides  
 RT oxides

**OXYCHLORIDES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

\*BT1 chlorine compounds  
 \*BT1 oxyhalides  
 RT chlorides  
 RT chlorine oxides  
 RT oxides

**OXYFLUORIDES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

\*BT1 fluorine compounds  
 \*BT1 oxyhalides  
 RT fluorides  
 RT fluorine oxides  
 RT oxides

**OXYGEN**

UF dissolved oxygen  
 UF oxygen effect (radiobiology)  
 \*BT1 nonmetals  
 RT anoxia  
 RT biochemical oxygen demand  
 RT chemical oxygen demand  
 RT cryogenic fluids  
 RT ozone

**OXYGEN 12**

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 oxygen isotopes

**OXYGEN 13**

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 oxygen isotopes

**OXYGEN 14**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 oxygen isotopes

**OXYGEN 14 REACTIONS**

1992-02-18

\*BT1 heavy ion reactions

**OXYGEN 14 TARGET**

1998-01-27

BT1 targets

**OXYGEN 15**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 oxygen isotopes

**OXYGEN 15 TARGET**

INIS: 1976-04-03; ETDE: 1976-07-12

BT1 targets

**OXYGEN 16**

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 oxygen isotopes  
 \*BT1 stable isotopes  
 RT oxygen 16 beams  
 RT oxygen 16 reactions

**OXYGEN 16 BEAMS**

\*BT1 ion beams  
 RT oxygen 16

**OXYGEN 16 EMISSION DECAY**

INIS: 1991-07-29; ETDE: 1991-09-13

\*BT1 heavy ion emission decay

**OXYGEN 16 REACTIONS**

\*BT1 heavy ion reactions  
 RT oxygen 16

**OXYGEN 16 TARGET**

ETDE: 1976-07-09

BT1 targets

**OXYGEN 17**

\*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 oxygen isotopes  
 \*BT1 stable isotopes  
 RT oxygen 17 reactions

**OXYGEN 17 REACTIONS**

\*BT1 heavy ion reactions  
 RT oxygen 17

**OXYGEN 17 TARGET**

ETDE: 1976-07-09

BT1 targets

**OXYGEN 18**

\*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 oxygen isotopes  
 \*BT1 stable isotopes  
 RT oxygen 18 beams  
 RT oxygen 18 reactions

**OXYGEN 18 BEAMS**

\*BT1 ion beams  
 RT oxygen 18

**OXYGEN 18 REACTIONS**

\*BT1 heavy ion reactions

*RT* oxygen 18

## OXYGEN 18 TARGET

*ETDE: 1976-07-09*

BT1 targets

## OXYGEN 19

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 oxygen isotopes
- \*BT1 seconds living radioisotopes

## OXYGEN 20

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 oxygen isotopes
- \*BT1 seconds living radioisotopes

## OXYGEN 21

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 oxygen isotopes
- \*BT1 seconds living radioisotopes

## OXYGEN 22

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 oxygen isotopes
- \*BT1 seconds living radioisotopes

## OXYGEN 23

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 oxygen isotopes

## OXYGEN 24

*INIS: 1978-02-23; ETDE: 1978-05-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 oxygen isotopes

## OXYGEN 28

*INIS: 1979-02-21; ETDE: 1979-03-28*

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 oxygen isotopes

## OXYGEN ADDITIONS

*RT* oxides

## OXYGEN COMPLEXES

BT1 complexes

## OXYGEN COMPOUNDS

*1996-07-16*

- UF* aurates
- UF* chlorites
- UF* polythionates
- UF* polythionic acids
- NT1 aluminates
- NT1 antimonates
- NT1 arsenates
- NT1 borates
  - NT2 borax
- NT1 boric acid
- NT1 bromates
- NT1 bromic acid
- NT1 carbonates
  - NT2 americium carbonates
  - NT2 ammonium carbonates
  - NT3 auc
  - NT2 barium carbonates
  - NT2 beryllium carbonates
  - NT2 cadmium carbonates
  - NT2 calcium carbonates
  - NT2 cerium carbonates

- NT2 cesium carbonates
- NT2 cobalt carbonates
- NT2 copper carbonates
- NT2 erbium carbonates
- NT2 europium carbonates
- NT2 gadolinium carbonates
- NT2 holmium carbonates
- NT2 iron carbonates
- NT2 lanthanum carbonates
- NT2 lead carbonates
- NT2 lithium carbonates
- NT2 lutetium carbonates
- NT2 magnesium carbonates
- NT2 manganese carbonates
- NT2 molybdenum carbonates
- NT2 neodymium carbonates
- NT2 neptunium carbonates
- NT2 nickel carbonates
- NT2 plutonium carbonates
- NT2 polycarbonates
- NT2 potassium carbonates
- NT2 praseodymium carbonates
- NT2 rhenium carbonates
- NT2 rubidium carbonates
- NT2 samarium carbonates
- NT2 scandium carbonates
- NT2 sodium carbonates
- NT2 strontium carbonates
- NT2 terbium carbonates
- NT2 thallium carbonates
- NT2 thorium carbonates
- NT2 uranium carbonates
- NT2 uranyl carbonates
- NT2 ytterbium carbonates
- NT2 yttrium carbonates
- NT2 zinc carbonates
- NT2 zirconium carbonates
- NT1 carbonic acid
- NT1 chlorates
- NT1 chloric acid
- NT1 chlorous acid
- NT1 chromates
- NT1 chromic acid
- NT1 chromites
- NT1 cuprates
- NT1 dichromates
- NT1 ferrates
- NT1 ferrites
- NT1 fluorates
- NT1 germanates
  - NT2 bismuth germanates
- NT1 hafnates
- NT1 hydroxides
  - NT2 aluminium hydroxides
  - NT2 americium hydroxides
  - NT2 ammonium hydroxides
  - NT2 antimony hydroxides
  - NT2 barium hydroxides
  - NT2 beryllium hydroxides
  - NT2 bismuth hydroxides
  - NT2 boron hydroxides
  - NT2 cadmium hydroxides
  - NT2 calcium hydroxides
  - NT2 cerium hydroxides
  - NT2 cesium hydroxides
  - NT2 chromium hydroxides
  - NT2 cobalt hydroxides
  - NT2 copper hydroxides
  - NT2 dysprosium hydroxides
  - NT2 erbium hydroxides
  - NT2 europium hydroxides
  - NT2 gadolinium hydroxides
  - NT2 gallium hydroxides
  - NT2 hafnium hydroxides
  - NT2 holmium hydroxides
  - NT2 indium hydroxides
  - NT2 iron hydroxides
  - NT2 lanthanum hydroxides
  - NT2 lead hydroxides

- NT2 lithium hydroxides
- NT2 lutetium hydroxides
- NT2 magnesium hydroxides
- NT2 manganese hydroxides
- NT2 molybdenum hydroxides
- NT2 neodymium hydroxides
- NT2 neptunium hydroxides
- NT2 nickel hydroxides
- NT2 niobium hydroxides
- NT2 platinum hydroxides
- NT2 plutonium hydroxides
- NT2 potassium hydroxides
- NT2 praseodymium hydroxides
- NT2 promethium hydroxides
- NT2 rubidium hydroxides
- NT2 ruthenium hydroxides
- NT2 samarium hydroxides
- NT2 scandium hydroxides
- NT2 silicon hydroxides
- NT2 silver hydroxides
- NT2 sodium hydroxides
- NT2 strontium hydroxides
- NT2 tantalum hydroxides
- NT2 tellurium hydroxides
- NT2 terbium hydroxides
- NT2 thorium hydroxides
- NT2 thulium hydroxides
- NT2 tin hydroxides
- NT2 titanium hydroxides
- NT2 tungsten hydroxides
- NT2 uranium hydroxides
- NT2 vanadium hydroxides
- NT2 ytterbium hydroxides
- NT2 yttrium hydroxides
- NT2 zinc hydroxides
- NT2 zirconium hydroxides
- NT1 hypochlorous acid
- NT1 hypofluorous acid
- NT1 hypoiodous acid
- NT1 hypophosphorous acid
- NT1 iodates
- NT1 iodic acid
- NT1 manganates
- NT1 molybdates
- NT1 molybdophosphates
- NT1 molybdophosphoric acid
- NT1 nickelates
- NT1 niobates
- NT1 nitrates
  - NT2 aluminium nitrates
  - NT2 americium nitrates
  - NT2 ammonium nitrates
  - NT2 barium nitrates
  - NT2 berkelium nitrates
  - NT2 beryllium nitrates
  - NT2 bismuth nitrates
  - NT2 cadmium nitrates
  - NT2 calcium nitrates
  - NT2 cerium nitrates
  - NT2 cesium nitrates
  - NT2 chlorine nitrates
  - NT2 chromium nitrates
  - NT2 cobalt nitrates
  - NT2 copper nitrates
  - NT2 curium nitrates
  - NT2 dysprosium nitrates
  - NT2 einsteinium nitrates
  - NT2 erbium nitrates
  - NT2 europium nitrates
  - NT2 gadolinium nitrates
  - NT2 gallium nitrates
  - NT2 hafnium nitrates
  - NT2 holmium nitrates
  - NT2 indium nitrates
  - NT2 iron nitrates
  - NT2 lanthanum nitrates
  - NT2 lead nitrates
  - NT2 lithium nitrates
  - NT2 lutetium nitrates

NT2	magnesium nitrates	NT2	lanthanum oxides	NT1	perbromates
NT2	manganese nitrates	NT2	lead oxides	NT1	perchlorates
NT2	mercury nitrates	NT2	lithium oxides	NT2	aluminium perchlorates
NT2	neodymium nitrates	NT2	lutetium oxides	NT2	americium perchlorates
NT2	neptunium nitrates	NT2	magnesium oxides	NT2	ammonium perchlorates
NT2	nickel nitrates	NT2	manganese oxides	NT2	barium perchlorates
NT2	niobium nitrates	NT2	mercury oxides	NT2	cadmium perchlorates
NT2	peroxyacetyl nitrate	NT2	molybdenum oxides	NT2	calcium perchlorates
NT2	petn	NT3	molybdenum blue	NT2	cerium perchlorates
NT2	plutonium nitrates	NT2	neodymium oxides	NT2	cesium perchlorates
NT2	potassium nitrates	NT2	neptunium oxides	NT2	chromium perchlorates
NT2	praseodymium nitrates	NT2	nickel oxides	NT2	cobalt perchlorates
NT2	promethium nitrates	NT2	niobium oxides	NT2	copper perchlorates
NT2	radium nitrates	NT2	nitrogen oxides	NT2	erbium perchlorates
NT2	rubidium nitrates	NT3	nitric oxide	NT2	europium perchlorates
NT2	ruthenium nitrates	NT3	nitrogen dioxide	NT2	gadolinium perchlorates
NT2	samarium nitrates	NT3	nitrous oxide	NT2	hafnium perchlorates
NT2	scandium nitrates	NT2	osmium oxides	NT2	holmium perchlorates
NT2	silver nitrates	NT2	palladium oxides	NT2	indium perchlorates
NT2	sodium nitrates	NT2	phosphorus oxides	NT2	iron perchlorates
NT2	strontium nitrates	NT2	platinum oxides	NT2	lanthanum perchlorates
NT2	tellurium nitrates	NT2	plutonium oxides	NT2	lead perchlorates
NT2	terbium nitrates	NT3	plutonium dioxide	NT2	lithium perchlorates
NT2	thallium nitrates	NT2	polonium oxides	NT2	magnesium perchlorates
NT2	thorium nitrates	NT2	potassium oxides	NT2	mercury perchlorates
NT2	thulium nitrates	NT2	praseodymium oxides	NT2	neodymium perchlorates
NT2	titanium nitrates	NT2	promethium oxides	NT2	neptunium perchlorates
NT2	uranium nitrates	NT2	protactinium oxides	NT2	potassium perchlorates
NT2	uranyl nitrates	NT2	radium oxides	NT2	praseodymium perchlorates
NT3	unh	NT2	radon oxides	NT2	rubidium perchlorates
NT2	vanadium nitrates	NT2	rhenium oxides	NT2	samarium perchlorates
NT2	ytterbium nitrates	NT2	rhodium oxides	NT2	scandium perchlorates
NT2	yttrium nitrates	NT2	rubidium oxides	NT2	silver perchlorates
NT2	zinc nitrates	NT2	ruthenium oxides	NT2	sodium perchlorates
NT2	zirconium nitrates	NT2	samarium oxides	NT2	strontium perchlorates
NT1	nitric acid	NT2	scandium oxides	NT2	terbium perchlorates
NT1	nitrites	NT2	selenium oxides	NT2	thulium perchlorates
NT1	nitrous acid	NT2	silicon oxides	NT2	uranium perchlorates
NT1	oxides	NT2	silver oxides	NT2	uranyl perchlorates
NT2	aluminium oxides	NT2	sodium oxides	NT2	ytterbium perchlorates
NT2	americium oxides	NT3	sodium tungsten bronze	NT2	yttrium perchlorates
NT2	antimony oxides	NT2	strontium oxides	NT2	zinc perchlorates
NT2	argon oxides	NT2	sulfur oxides	NT2	zirconium perchlorates
NT2	arsenic oxides	NT3	sulfur dioxide	NT1	perchloric acid
NT2	barium oxides	NT3	sulfur trioxide	NT1	periodates
NT2	berkelium oxides	NT2	tantalum oxides	NT1	periodic acid
NT2	beryllium oxides	NT2	technetium oxides	NT1	permanganates
NT2	bismuth oxides	NT2	tellurium oxides	NT1	peroxides
NT2	boron oxides	NT2	terbium oxides	NT2	benzoyl peroxide
NT2	bromine oxides	NT2	thallium oxides	NT2	hydrogen peroxide
NT2	cadmium oxides	NT2	thorium oxides	NT2	uranium peroxide
NT2	calcium oxides	NT3	thorotrast	NT1	perrhenates
NT2	californium oxides	NT2	thulium oxides	NT1	persulfates
NT2	carbon oxides	NT2	tin oxides	NT1	persulfuric acid
NT3	carbon dioxide	NT2	titanium oxides	NT1	pertechnates
NT3	carbon monoxide	NT2	tritium oxides	NT1	phosphates
NT2	cerium oxides	NT2	tungsten oxides	NT2	aluminium phosphates
NT2	cesium oxides	NT3	sodium tungsten bronze	NT2	americium phosphates
NT2	chlorine oxides	NT2	uranium oxides	NT2	ammonium phosphates
NT2	chromium oxides	NT3	uranium dioxide	NT2	barium phosphates
NT2	cobalt oxides	NT3	uranium oxides u3o8	NT2	beryllium phosphates
NT2	copper oxides	NT3	uranium trioxide	NT2	bismuth phosphates
NT2	curium oxides	NT2	vanadium oxides	NT2	boron phosphates
NT2	dysprosium oxides	NT2	xenon oxides	NT2	cadmium phosphates
NT2	einsteinium oxides	NT2	ytterbium oxides	NT2	calcium phosphates
NT2	erbium oxides	NT2	yttrium oxides	NT2	cerium phosphates
NT2	europium oxides	NT3	alloy-in-853	NT2	cesium phosphates
NT2	fluorine oxides	NT2	zinc oxides	NT2	chromium phosphates
NT2	gadolinium oxides	NT2	zirconium oxides	NT2	cobalt phosphates
NT2	gallium oxides	NT1	oxycarbides	NT2	copper phosphates
NT2	germanium oxides	NT1	oxyhalides	NT2	dysprosium phosphates
NT2	gold oxides	NT2	oxybromides	NT2	erbium phosphates
NT2	hafnium oxides	NT2	oxychlorides	NT2	europium phosphates
NT2	holmium oxides	NT2	oxyfluorides	NT2	gadolinium phosphates
NT2	indium oxides	NT2	oxyiodides	NT2	gallium phosphates
NT2	iodine oxides	NT1	oxynitrates	NT2	germanium phosphates
NT2	iridium oxides	NT1	oxyselenides	NT2	hafnium phosphates
NT2	iron oxides	NT1	oxysulfides	NT2	holmium phosphates
NT2	krypton oxides	NT1	oxytellurides	NT2	indium phosphates

NT2	iron phosphates	NT2	rubidium silicates	NT2	ytterbium sulfates
NT2	lanthanum phosphates	NT2	samarium silicates	NT2	yttrium sulfates
NT2	lead phosphates	NT2	scandium silicates	NT2	zinc sulfates
NT2	lithium phosphates	NT2	sodium silicates	NT2	zirconium sulfates
NT2	lutetium phosphates	NT2	strontium silicates	NT1	sulfites
NT2	magnesium phosphates	NT2	tantalum silicates	NT2	acid sulfites
NT2	manganese phosphates	NT2	thorium silicates	NT1	sulfuric acid
NT2	molybdenum phosphates	NT2	thulium silicates	NT1	sulfurous acid
NT2	neodymium phosphates	NT2	titanium silicates	NT1	tantalates
NT2	nickel phosphates	NT2	uranium silicates	NT1	technetates
NT2	niobium phosphates	NT2	uranyl silicates	NT1	tellurates
NT2	plutonium phosphates	NT2	vanadium silicates	NT1	telluric acid
NT2	potassium phosphates	NT2	ytterbium silicates	NT1	titanates
NT2	praseodymium phosphates	NT2	yttrium silicates	NT2	cadmium titanates
NT2	rubidium phosphates	NT2	zinc silicates	NT2	lithium titanates
NT2	samarium phosphates	NT2	zirconium silicates	NT2	plzt
NT2	scandium phosphates	NT1	silicic acid	NT2	pzt
NT2	silicon phosphates	NT1	stannates	NT2	strontium titanates
NT2	silver phosphates	NT2	cadmium stannates	NT1	tungstates
NT2	sodium phosphates	NT1	sulfates	NT2	aluminium tungstates
NT2	strontium phosphates	NT2	acid sulfates	NT2	ammonium tungstates
NT2	superphosphates	NT2	aluminium sulfates	NT2	barium tungstates
NT2	tantalum phosphates	NT2	ammonium sulfates	NT2	bismuth tungstates
NT2	technetium phosphates	NT2	antimony sulfates	NT2	cadmium tungstates
NT2	terbium phosphates	NT2	barium sulfates	NT2	calcium tungstates
NT2	thallium phosphates	NT2	beryllium sulfates	NT2	cerium tungstates
NT2	thorium phosphates	NT2	bismuth sulfates	NT2	cesium tungstates
NT2	thulium phosphates	NT2	cadmium sulfates	NT2	cobalt tungstates
NT2	tin phosphates	NT2	calcium sulfates	NT2	copper tungstates
NT2	titanium phosphates	NT2	cerium sulfates	NT2	dysprosium tungstates
NT2	uranium phosphates	NT2	cesium sulfates	NT2	erbium tungstates
NT2	uranyl phosphates	NT2	chromium sulfates	NT2	gadolinium tungstates
NT2	vanadium phosphates	NT2	cobalt sulfates	NT2	indium tungstates
NT2	ytterbium phosphates	NT2	copper sulfates	NT2	iron tungstates
NT2	yttrium phosphates	NT2	dysprosium sulfates	NT2	lanthanum tungstates
NT2	zinc phosphates	NT2	erbium sulfates	NT2	lead tungstates
NT2	zirconium phosphates	NT2	europium sulfates	NT2	lithium tungstates
NT1	phosphine oxides	NT2	gadolinium sulfates	NT2	lutetium tungstates
NT2	cmpp	NT2	gallium sulfates	NT2	manganese tungstates
NT2	tributylphosphine oxide	NT2	hafnium sulfates	NT2	neodymium tungstates
NT2	trioctylphosphine oxide	NT2	holmium sulfates	NT2	nickel tungstates
NT2	triphenylphosphine oxide	NT2	indium sulfates	NT2	potassium tungstates
NT1	phosphoric acid	NT2	iridium sulfates	NT2	praseodymium tungstates
NT1	phosphorous acid	NT2	iron sulfates	NT2	rubidium tungstates
NT1	plumbates	NT2	lanthanum sulfates	NT2	samarium tungstates
NT1	pyrophosphates	NT2	lead sulfates	NT2	scandium tungstates
NT1	rhenates	NT2	lithium sulfates	NT2	silver tungstates
NT1	selenates	NT2	lutetium sulfates	NT2	sodium tungstates
NT1	selenites	NT2	magnesium sulfates	NT2	strontium tungstates
NT1	silicates	NT2	manganese sulfates	NT2	tantalum tungstates
NT2	aluminium silicates	NT2	mercury sulfates	NT2	thallium tungstates
NT2	barium silicates	NT2	molybdenum sulfates	NT2	tin tungstates
NT2	beryllium silicates	NT2	neodymium sulfates	NT2	titanium tungstates
NT2	boron silicates	NT2	neptunium sulfates	NT2	ytterbium tungstates
NT2	cadmium silicates	NT2	nickel sulfates	NT2	yttrium tungstates
NT2	calcium silicates	NT2	niobium sulfates	NT2	zinc tungstates
NT2	cerium silicates	NT2	platinum sulfates	NT2	zirconium tungstates
NT2	cesium silicates	NT2	plutonium sulfates	NT1	tungstophosphates
NT2	chromium silicates	NT2	potassium sulfates	NT1	tungstophosphoric acid
NT2	cobalt silicates	NT2	praseodymium sulfates	NT1	vanadates
NT2	copper silicates	NT2	radium sulfates	NT2	potassium vanadates
NT2	dysprosium silicates	NT2	rhenium sulfates	NT2	uranium vanadates
NT2	europium silicates	NT2	rubidium sulfates	NT1	water
NT2	germanium silicates	NT2	ruthenium sulfates	NT2	drinking water
NT2	hafnium silicates	NT2	samarium sulfates	NT2	feedwater
NT2	holmium silicates	NT2	scandium sulfates	NT2	fresh water
NT2	iron silicates	NT2	silver sulfates	NT2	ground water
NT2	lanthanum silicates	NT2	sodium sulfates	NT3	interstitial water
NT2	lead silicates	NT2	strontium sulfates	NT3	magmatic water
NT2	lithium silicates	NT2	tantalum sulfates	NT2	heavy water
NT2	lutetium silicates	NT2	terbium sulfates	NT2	hot water
NT2	magnesium silicates	NT2	thallium sulfates	NT2	rain water
NT2	manganese silicates	NT2	thorium sulfates	NT3	throughfall
NT2	molybdenum silicates	NT2	thulium sulfates	NT2	seawater
NT2	neodymium silicates	NT2	tin sulfates	NT2	tritium oxides
NT2	nickel silicates	NT2	titanium sulfates	NT2	waste water
NT2	niobium silicates	NT2	uranium sulfates	NT3	shale tar water
NT2	potassium silicates	NT2	uranyl sulfates	NT1	zirconates
NT2	praseodymium silicates	NT2	vanadium sulfates	NT2	plzt

**NT2** pzt  
*RT* cyanates  
*RT* hydroxyl radicals  
*RT* isocyanates  
*RT* organic oxygen compounds  
*RT* ozone

**oxygen effect (radiobiology)**

*USE* oxygen  
*USE* response modifying factors

**OXYGEN ENHANCEMENT RATIO**

*UF* oer  
*BT1* dimensionless numbers  
*RT* aerobic conditions  
*RT* anaerobic conditions  
*RT* biological radiation effects  
*RT* let  
*RT* quality factor  
*RT* rbe  
*RT* response modifying factors

**OXYGEN ENRICHMENT**

*INIS: 2000-04-12; ETDE: 1979-07-24*  
*BT1* enrichment  
*RT* fuel-air ratio  
*RT* fuel systems

**oxygen fluorides**

*USE* fluorine oxides

**oxygen hydrides**

*USE* water

**OXYGEN IONS**

\**BT1* ions

**OXYGEN ISOTOPES**

*1999-07-16*  
*BT1* isotopes  
*NT1* oxygen 12  
*NT1* oxygen 13  
*NT1* oxygen 14  
*NT1* oxygen 15  
*NT1* oxygen 16  
*NT1* oxygen 17  
*NT1* oxygen 18  
*NT1* oxygen 19  
*NT1* oxygen 20  
*NT1* oxygen 21  
*NT1* oxygen 22  
*NT1* oxygen 23  
*NT1* oxygen 24  
*NT1* oxygen 28

**oxygen logs**

*INIS: 2000-04-12; ETDE: 1979-03-27*  
*USE* neutron-gamma logging

**OXYGEN METERS**

\**BT1* meters  
*RT* chemical analysis

**OXYGEN PLANTS**

*INIS: 2000-04-12; ETDE: 1981-03-17*  
*Large capacity plants for liquefying air and separating oxygen, e.g., for coal gasification.*  
*BT1* industrial plants  
*RT* moltox oxygen process

**OXYGEN POTENTIAL**

*1981-04-03*  
*Partial molar free enthalpy of oxygen in an oxide phase.*  
 \**BT1* free enthalpy

**OXYGENASES**

*INIS: 1996-11-13; ETDE: 1981-01-12*  
*Code number 1.13.*  
 (From 1974 till March 1997 TRYPTOPHAN OXYGENASE was a valid ETDE descriptor.)  
*UF* pyrrolase (tryptophan)

*UF* tryptophan oxygenase  
 \**BT1* oxidoreductases  
*NT1* mixed-function oxidases

**OXYHALIDES**

*INIS: 1989-11-24; ETDE: 1989-12-08*  
*BT1* halogen compounds  
*BT1* oxygen compounds  
*NT1* oxybromides  
*NT1* oxychlorides  
*NT1* oxyfluorides  
*NT1* oxyiodides

**OXYIODIDES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*  
 \**BT1* iodine compounds  
 \**BT1* oxyhalides  
*RT* iodides  
*RT* iodine oxides  
*RT* oxides

**oxymethylene**

*USE* formaldehyde

**OXYNITRATES**

*2000-04-12*  
*BT1* nitrogen compounds  
*BT1* oxygen compounds  
*RT* nitrates  
*RT* oxides

**OXYSELENIDES**

*2000-04-12*  
*BT1* oxygen compounds  
*BT1* selenium compounds  
*RT* oxides  
*RT* selenides

**OXYSULFIDES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*  
*BT1* oxygen compounds  
*BT1* sulfur compounds  
*RT* oxides  
*RT* sulfides  
*RT* sulfur oxides

**OXYTELLURIDES**

*2000-04-12*  
*BT1* oxygen compounds  
*BT1* tellurium compounds  
*RT* oxides  
*RT* tellurides

**OXYTETRACYCLINE**

*UF* terramycin  
 \**BT1* tetracyclines

**OXYTOCIN**

\**BT1* pituitary hormones  
*RT* parturition  
*RT* uterus

**OYSTER CREEK-1 REACTOR**

*AmerGen Energy Co., LLC, Forked River, New Jersey, USA.*  
 \**BT1* bwr type reactors

**oyster creek-2 reactor**

*USE* forked river-1 reactor

**OYSTERS**

\**BT1* molluscs  
*RT* seafood

**ozark region**

*INIS: 2000-04-12; ETDE: 1978-03-09*  
*Use the specific states if known; otherwise, use the descriptor below.*  
 (Prior to May 1996 this was a valid ETDE descriptor.)  
*USE* usa

**OZONE**

*RT* atmospheric chemistry  
*RT* oxygen  
*RT* oxygen compounds  
*RT* ozonization

**OZONE LAYER**

*INIS: 1983-02-03; ETDE: 1979-05-03*  
*BT1* layers  
*RT* chlorofluorocarbons  
*RT* climatic change  
*RT* stratosphere

**OZONIZATION**

*INIS: 1992-04-13; ETDE: 1980-07-09*  
*BT1* chemical reactions  
*RT* ozone

**P CODES**

*BT1* computer codes

**P INVARIANCE**

*UF* parity nonconservation  
*UF* space reflection  
*BT1* invariance principles  
*RT* lee-yang theory  
*RT* parity

**p-n counters**

*USE* junction detectors

**P-N JUNCTIONS**

*1977-01-26*  
*BT1* semiconductor junctions  
*RT* n-type conductors  
*RT* p-type conductors  
*RT* semiconductor materials

**P REACTOR**

*Savannah River Plant, Aiken, South Carolina, USA. Reactor in surveillance and maintenance mode.*  
*UF* savannah river plant p reactor  
 \**BT1* heavy water moderated reactors  
 \**BT1* special production reactors

**P STATES**

*BT1* energy levels

**P-TYPE CONDUCTORS**

\**BT1* semiconductor materials  
*RT* p-n junctions

**P WAVES**

*For seismic waves use SEISMIC P WAVES.*  
*BT1* partial waves  
*RT* angular momentum  
*RT* quantum mechanics

**p waves (seismic)**

*USE* seismic p waves

**P1-APPROXIMATION**

\**BT1* spherical harmonics method  
*RT* boltzmann equation  
*RT* perturbation theory

**P2-APPROXIMATION**

\**BT1* spherical harmonics method  
*RT* boltzmann equation  
*RT* perturbation theory

**P3-APPROXIMATION**

\**BT1* spherical harmonics method  
*RT* boltzmann equation

RT perturbation theory

## PABA

UF aminobenzoic acid-para  
 UF para-aminobenzoic acid  
 UF vitamin h-1  
 \*BT1 amino acids  
 RT folic acid  
 RT vitamin b group

## pacemakers

USE cardiac pacemakers

## pacific gas diablo canyon-1 reactor

1993-11-09

USE diablo canyon-1 reactor

## pacific gas diablo canyon-2 reactor

1993-11-09

USE diablo canyon-2 reactor

## pacific islands

INIS: 1992-06-04; ETDE: 1978-12-11

USE oceania

## pacific northwest laboratories

INIS: 2000-04-12; ETDE: 1982-09-10

USE battelle pacific northwest laboratories

## pacific northwest region

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to June 1982 this was a valid ETDE descriptor.)

USE usa

## PACIFIC OCEAN

1996-07-18

UF humboldt bay

\*BT1 seas

NT1 bering sea

NT1 china sea

NT1 gulf of alaska

NT1 gulf of california

NT1 puget sound

NT1 san francisco bay

NT1 santa barbara channel

NT1 sequim bay

NT1 tasman sea

RT aleutian islands

RT american samoa

RT fiji

RT hawaii

RT indonesia

RT kiribati

RT kurile islands

RT marshall islands

RT micronesia

RT nauru

RT new guinea

RT new hebrides islands

RT new zealand

RT philippines

RT singapore

RT southern oscillation

RT tasmania

RT trust territory of the pacific islands

RT tuvalu

RT us west coast

## PACKAGE REACTORS

Compact power reactors specially designed to simplify shipping and assembly.

\*BT1 power reactors

\*BT1 transportable reactors

## PACKAGING

RT containers

RT packaging rules

RT transport

## PACKAGING RULES

INIS: 1976-12-08; ETDE: 1978-03-08

Including labelling.

UF labelling (packages)

\*BT1 regulations

RT packaging

RT transport

## PACKED BEDS

INIS: 1992-03-02; ETDE: 1992-04-01

(Prior to April 1992 PACKED BED was a valid ETDE descriptor.)

UF fixed beds

RT ebullated bed

RT fluidized beds

## packing

INIS: 2000-04-12; ETDE: 1979-06-06

USE stowing

## packing (column)

INIS: 1984-04-04; ETDE: 2002-04-26

USE column packing

## PACKINGS

2000-04-12

UF cooling tower packing grids

NT1 column packing

RT cooling towers

## PAD DISTRICTS

INIS: 2000-04-12; ETDE: 1979-09-27

UF petroleum administration for defense districts

RT petroleum

RT usa

## PADE APPROXIMATION

\*BT1 approximations

RT series expansion

## PADUCAH PLANT

\*BT1 gaseous diffusion plants

\*BT1 us aec

\*BT1 us doe

\*BT1 us erda

RT kentucky

## paec

INIS: 1977-09-06; ETDE: 1977-10-19

USE philippine atomic energy commission

## pah

INIS: 2000-04-12; ETDE: 1976-08-24

USE polycyclic aromatic hydrocarbons

## pahr

INIS: 1984-06-21; ETDE: 2002-04-26

Post-accident heat removal.

USE after-heat removal

## PAIN

BT1 symptoms

RT analgesics

RT anesthesia

RT nervous system

## paintings

INIS: 1984-04-04; ETDE: 2002-04-26

USE cultural objects

## PAINTS

BT1 coatings

NT1 luminous paints

RT corrosion protection

RT pigments

## pair conversion

INIS: 1985-01-17; ETDE: 2000-10-23

USE internal pair production

## PAIR PRODUCTION

For production of particle pairs only; ion pairs should be indexed to IONIZATION and ION PAIRS.

UF production (pair)

BT1 interactions

BT1 particle production

NT1 internal pair production

RT bethe-heitler theory

RT electron pairs

RT muon pairs

## PAIR SPECTROMETERS

\*BT1 gamma spectrometers

## PAIRING ENERGY

\*BT1 binding energy

## PAIRING INTERACTIONS

BT1 interactions

RT generator-coordinate method

## PAKHRA SYNCHROTRON

\*BT1 synchrotrons

## PAKISTAN

BT1 asia

BT1 developing countries

## pakistan (east)

INIS: 2000-04-12; ETDE: 1976-05-17

USE bangladesh

## pakistan atomic research reactor

2000-04-12

USE parr-1 reactor

## pakistan miniature neutron source reactor

2004-03-15

USE parr-2 reactor

## PAKISTANI ORGANIZATIONS

2004-03-31

BT1 national organizations

## PAKS-1 REACTOR

Paks, Tolna, Hungary.

UF hungarian paks-1 reactor

\*BT1 wwer type reactors

## PAKS-2 REACTOR

Paks, Tolna, Hungary.

UF hungarian paks-2 reactor

\*BT1 wwer type reactors

## PAKS-3 REACTOR

INIS: 1980-07-24; ETDE: 1980-08-12

Paks, Tolna, Hungary.

UF hungarian paks-3 reactor

\*BT1 wwer type reactors

## PAKS-4 REACTOR

INIS: 1980-07-24; ETDE: 1980-08-12

Paks, Tolna, Hungary.

UF hungarian paks-4 reactor

\*BT1 wwer type reactors

## palanquin event

2000-04-12

(Prior to July 1996 this was a valid ETDE descriptor.)

USE cratering explosions

USE underground explosions

## PALAU

2000-04-12

\*BT1 gold base alloys

\*BT1 palladium alloys

## palau islands

INIS: 2000-04-12; ETDE: 1983-05-21

USE trust territory of the pacific islands

**paleocene epoch**

INIS: 2000-04-12; ETDE: 1977-10-20  
USE tertiary period

**PALEOCLIMATOLOGY**

INIS: 1993-01-28; ETDE: 1986-07-25  
*The study of climates in the geologic past, involving fossil, glacial, isotopic, or other data.*

BT1 paleontology  
RT climate models  
RT climates  
RT climatic change  
RT fossils  
RT little ice age

**paleogene period**

INIS: 2000-04-12; ETDE: 1977-10-20  
USE tertiary period

**PALEOMAGNETISM**

INIS: 1999-05-19; ETDE: 1979-07-24  
BT1 magnetism  
RT geologic ages  
RT geomagnetic field  
RT plate tectonics

**PALEONTOLOGY**

NT1 paleoclimatology  
RT age estimation  
RT biological evolution  
RT biological extinction  
RT fossils  
RT paleotemperature  
RT palynology

**PALEOTEMPERATURE**

INIS: 2000-04-12; ETDE: 1985-11-19  
RT paleontology  
RT temperature measurement

**PALEOZOIC ERA**

INIS: 1992-04-14; ETDE: 1977-10-19  
BT1 geologic ages  
NT1 cambrian period  
NT1 carboniferous period  
NT1 devonian period  
NT1 ordovician period  
NT1 permian period  
NT1 silurian period

**PALIMPINON GEOTHERMAL FIELD**

INIS: 1992-06-04; ETDE: 1984-02-23  
UF southern negros geothermal field  
BT1 geothermal fields  
RT philippines

**PALISADES-1 REACTOR**

*Nuclear Management Co., LLC, South Haven, Michigan, USA.*

UF consumers michigan palisades reactor  
UF south haven michigan reactor  
\*BT1 pwr type reactors

**PALLADIUM**

\*BT1 platinum metals

**PALLADIUM 100**

\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 palladium isotopes

**PALLADIUM 101**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei

\*BT1 palladium isotopes

**PALLADIUM 102**

\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 palladium isotopes  
\*BT1 stable isotopes

**PALLADIUM 102 TARGET**

ETDE: 1976-07-09  
BT1 targets

**PALLADIUM 103**

\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 palladium isotopes

**PALLADIUM 104**

\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 palladium isotopes  
\*BT1 stable isotopes

**PALLADIUM 104 TARGET**

ETDE: 1976-07-09  
BT1 targets

**PALLADIUM 105**

\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 palladium isotopes  
\*BT1 stable isotopes

**PALLADIUM 105 TARGET**

ETDE: 1976-07-09  
BT1 targets

**PALLADIUM 106**

\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 palladium isotopes  
\*BT1 stable isotopes

**PALLADIUM 106 TARGET**

ETDE: 1976-07-09  
BT1 targets

**PALLADIUM 107**

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 palladium isotopes  
\*BT1 seconds living radioisotopes  
\*BT1 years living radioisotopes

**PALLADIUM 107 TARGET**

INIS: 1978-07-03; ETDE: 1977-11-28  
BT1 targets

**PALLADIUM 108**

\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 palladium isotopes  
\*BT1 stable isotopes

**PALLADIUM 108 TARGET**

ETDE: 1976-07-09  
BT1 targets

**PALLADIUM 109**

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 palladium isotopes

**PALLADIUM 110**

\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei

\*BT1 palladium isotopes  
\*BT1 stable isotopes

**PALLADIUM 110 REACTIONS**

1992-02-04

\*BT1 heavy ion reactions

**PALLADIUM 110 TARGET**

ETDE: 1976-07-09  
BT1 targets

**PALLADIUM 111**

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 palladium isotopes

**PALLADIUM 112**

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 palladium isotopes

**PALLADIUM 113**

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 palladium isotopes

**PALLADIUM 114**

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 palladium isotopes

**PALLADIUM 115**

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 palladium isotopes  
\*BT1 seconds living radioisotopes

**PALLADIUM 116**

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 palladium isotopes  
\*BT1 seconds living radioisotopes

**PALLADIUM 117**

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 palladium isotopes  
\*BT1 seconds living radioisotopes

**PALLADIUM 118**

1976-07-06

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 palladium isotopes  
\*BT1 seconds living radioisotopes

**PALLADIUM 118 REACTIONS**

INIS: 1979-12-20; ETDE: 1979-07-18

\*BT1 heavy ion reactions

**PALLADIUM 118 TARGET**

INIS: 1979-12-20; ETDE: 1979-07-18  
BT1 targets

**PALLADIUM 119***INIS: 1991-03-22; ETDE: 1991-04-09*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 120***INIS: 1993-04-13; ETDE: 1993-07-06*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 93***2001-11-30*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 seconds living radioisotopes

**PALLADIUM 94***1996-02-14*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 seconds living radioisotopes

**PALLADIUM 95***1981-09-17*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 palladium isotopes
- \*BT1 seconds living radioisotopes

**PALLADIUM 96**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 97**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 98**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM 99**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 palladium isotopes

**PALLADIUM ADDITIONS***Alloys containing not more than 1% Pd are listed here.**RT* palladium alloys**PALLADIUM ALLOYS***Alloys containing more than 1% Pd.*

- \*BT1 platinum metal alloys
- NT1** palau

**NT1** palladium base alloys*RT* palladium additions**PALLADIUM ARSENIDES***INIS: 1991-09-16; ETDE: 1976-07-07*

- \*BT1 arsenides
- \*BT1 palladium compounds

**PALLADIUM BASE ALLOYS**

- \*BT1 palladium alloys

**PALLADIUM BORIDES***1991-09-16*

- \*BT1 borides
- \*BT1 palladium compounds

**PALLADIUM BROMIDES***INIS: 1979-05-28; ETDE: 1979-03-05*

- \*BT1 bromides
- \*BT1 palladium compounds

**PALLADIUM CARBIDES**

- \*BT1 carbides
- \*BT1 palladium compounds

**PALLADIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 palladium compounds

**PALLADIUM COMPLEXES**

- \*BT1 transition element complexes

**PALLADIUM COMPOUNDS***1997-06-19*

- UF* palladium hydroxides
- UF* palladium nitrates
- UF* palladium nitrides
- BT1** transition element compounds
- NT1** palladium arsenides
- NT1** palladium borides
- NT1** palladium bromides
- NT1** palladium carbides
- NT1** palladium chlorides
- NT1** palladium fluorides
- NT1** palladium hydrides
- NT1** palladium iodides
- NT1** palladium oxides
- NT1** palladium phosphides
- NT1** palladium selenides
- NT1** palladium silicides
- NT1** palladium sulfides
- NT1** palladium tellurides

**PALLADIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 palladium compounds

**PALLADIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 palladium compounds

**palladium hydroxides***INIS: 1996-07-08; ETDE: 1979-05-25**(Until June 1996 this was a valid descriptor.)*

- USE* hydroxides
- USE* palladium compounds

**PALLADIUM IODIDES**

- \*BT1 iodides
- \*BT1 palladium compounds

**PALLADIUM IONS**

- \*BT1 ions

**PALLADIUM ISOTOPES***1999-07-16*

- BT1** isotopes
- NT1** palladium 100
- NT1** palladium 101
- NT1** palladium 102
- NT1** palladium 103
- NT1** palladium 104
- NT1** palladium 105
- NT1** palladium 106

**NT1** palladium 107**NT1** palladium 108**NT1** palladium 109**NT1** palladium 110**NT1** palladium 111**NT1** palladium 112**NT1** palladium 113**NT1** palladium 114**NT1** palladium 115**NT1** palladium 116**NT1** palladium 117**NT1** palladium 118**NT1** palladium 119**NT1** palladium 120**NT1** palladium 93**NT1** palladium 94**NT1** palladium 95**NT1** palladium 96**NT1** palladium 97**NT1** palladium 98**palladium nitrates***INIS: 1994-08-22; ETDE: 1978-10-20**(Until August 1994 this was a valid descriptor.)**USE* nitrates*USE* palladium compounds**palladium nitrides***INIS: 2000-04-12; ETDE: 1975-12-16**(Prior to January 1995, this was a valid ETDE descriptor.)**USE* nitrides*USE* palladium compounds**PALLADIUM OXIDES**

\*BT1 oxides

\*BT1 palladium compounds

**PALLADIUM PHOSPHIDES***INIS: 2000-04-12; ETDE: 1975-10-01*

\*BT1 palladium compounds

\*BT1 phosphides

**PALLADIUM SELENIDES***INIS: 2000-04-12; ETDE: 1976-03-11*

\*BT1 palladium compounds

\*BT1 selenides

**PALLADIUM SILICIDES***INIS: 1976-10-29; ETDE: 1976-02-19*

\*BT1 palladium compounds

\*BT1 silicides

**PALLADIUM SULFIDES***1976-10-07*

\*BT1 palladium compounds

\*BT1 sulfides

**PALLADIUM TELLURIDES***INIS: 1978-02-23; ETDE: 1976-06-07*

\*BT1 palladium compounds

\*BT1 tellurides

**PALM OIL***INIS: 2001-06-19; ETDE: 2001-11-30*

\*BT1 vegetable oils

*RT* oil palms**palmitic acid***USE* hexadecanoic acid**PALO DURO BASIN***INIS: 2000-04-12; ETDE: 1984-02-10***BT1** permian basin*RT* radioactive waste disposal*RT* texas**PALO VERDE-1 REACTOR***Arizona Public Service Co., Wintersburg, Arizona, USA.*

\*BT1 pwr type reactors



RT ce standard reactor

**PALO VERDE-2 REACTOR**

Arizona Public Service Co., Wintersburg, Arizona, USA.

\*BT1 pwr type reactors  
RT ce standard reactor

**PALO VERDE-3 REACTOR**

Arizona Public Service Co., Wintersburg, Arizona, USA.

\*BT1 pwr type reactors  
RT ce standard reactor

**PALO VERDE-4 REACTOR**

INIS: 1978-07-31; ETDE: 1978-06-14  
Arizona Public Service Co., Wintersburg, Arizona, USA. Canceled in 1979 before construction began.

\*BT1 pwr type reactors  
RT ce standard reactor

**PALO VERDE-5 REACTOR**

INIS: 1978-07-31; ETDE: 1978-06-14  
Arizona Public Service Co., Wintersburg, Arizona, USA. Canceled in 1979 before construction began.

\*BT1 pwr type reactors  
RT ce standard reactor

**PALUEL-1 REACTOR**

INIS: 1981-05-11; ETDE: 1981-06-13

\*BT1 pwr type reactors

**PALUEL-2 REACTOR**

INIS: 1981-07-13; ETDE: 1981-08-04

\*BT1 pwr type reactors

**PALUEL-3 REACTOR**

INIS: 1981-07-13; ETDE: 1981-08-04

\*BT1 pwr type reactors

**PALUEL-4 REACTOR**

INIS: 1981-07-13; ETDE: 1981-08-04

\*BT1 pwr type reactors

**PALYNOLOGY**

INIS: 2000-04-12; ETDE: 1986-01-15  
The study of pollen and spores of plants, including their dispersal and applications in stratigraphy and paleoecology.

RT paleontology  
RT pollen  
RT stratigraphy

**PAMCO PROCESS**

2000-04-12  
Spencer chemical company process for direct catalytic conversion of coal to synthetic crude oil by hydrogenation during and after solvent extraction.

\*BT1 coal liquefaction

**PAMELA PLANT**

1988-02-02  
Vitrification plant for high-level radioactive wastes in Mol, Belgium.

\*BT1 radioactive waste facilities  
RT high-level radioactive wastes  
RT pilot plants  
RT radioactive waste processing  
RT vitrification

**PAMPUS STORAGE RING**

INIS: 1977-09-15; ETDE: 1977-11-10  
Photons for Atomic and Molecular Processes and Universal Studies storage ring facility in Amsterdam.

BT1 storage rings

**pan (pyridylazonaphthol)**

ETDE: 2005-02-01  
(Prior to January 2005 PAN was a valid descriptor.)

USE pyridylazonaphthol

**PANAMA**

\*BT1 central america  
BT1 developing countries

**PANAMA CANAL**

1996-07-08  
\*BT1 inland waterways

**panama canal zone**

1996-07-08  
(Until June 1996 this was a valid descriptor.)  
USE central america

**PANCREAS**

BT1 digestive system  
\*BT1 endocrine glands  
RT amylase  
RT chymotrypsin  
RT glucagon  
RT insulin  
RT trypsin

**PANELS**

INIS: 1999-05-26; ETDE: 1985-04-09  
RT underground mining  
RT walls

**panindco process**

2000-04-12  
Pulverized coal is fed into center of cylinder and surrounded by oxygen-steam or air-steam mixtures. Synthesis gas of 210 or 125 btu/scf is produced.  
(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

**PANOFSKY RATIO**

Charge exchange to capture ratio.  
BT1 dimensionless numbers  
RT capture  
RT photoproduction

**PANSTWOWA AGENCJA**

ATOMISTYKI  
INIS: 1992-01-28; ETDE: 1992-02-14  
\*BT1 polish organizations

**PANTEX PLANT**

INIS: 1977-09-06; ETDE: 1976-11-17  
\*BT1 us doe  
\*BT1 us erda  
RT texas

**PANTOTHENIC ACID**

UF vitamin b-5  
\*BT1 amino acids  
\*BT1 hydroxy acids  
\*BT1 vitamin b group  
RT alanine-beta

**PAPAIN**

Code number 3.4.22.2.  
\*BT1 sh-proteinases

**PAPAVER SOMNIFERUM**

\*BT1 magnoliopsida  
\*BT1 medicinal plants  
RT morphine  
RT opium

**PAPAYAS**

\*BT1 fruits

**PAPER**

RT dielectric materials  
RT paper industry

**paper chromatography**

USE chromatography

**PAPER INDUSTRY**

INIS: 1992-03-10; ETDE: 1977-01-31  
\*BT1 wood products industry  
RT forestry  
RT paper  
RT printing and publishing industry  
RT wood

**papp**

1996-07-18  
Aminopropiophenone-para.  
(Until July 1996 this was a valid descriptor.)  
USE amines  
USE ketones

**paprika**

INIS: 1984-04-04; ETDE: 2001-01-23  
USE peppers

**papua**

INIS: 1992-06-04; ETDE: 1978-10-25  
USE papua new guinea

**PAPUA NEW GUINEA**

INIS: 1992-02-21; ETDE: 1978-10-25  
(Prior to February 1992, this was indexed by NEW GUINEA.)  
UF papua  
\*BT1 new guinea

**para-aminobenzoic acid**

USE paba

**PARA-SCHOEPITE**

2000-04-12  
\*BT1 oxide minerals  
\*BT1 uranium minerals  
RT uranium oxides

**parabanic acid**

USE imidazoles  
USE organic oxygen compounds

**PARABIOSIS**

BT1 mosaicism  
RT blood circulation

**PARABOLAS**

2000-04-12  
BT1 shape

**PARABOLIC COLLECTORS**

INIS: 1992-03-11; ETDE: 1977-06-21  
\*BT1 concentrating collectors  
NTI parabolic dish collectors  
NTI parabolic trough collectors  
RT parabolic reflectors

**PARABOLIC DISH COLLECTORS**

INIS: 1992-03-30; ETDE: 1978-10-25  
UF circular point collectors  
UF parabolic point collectors  
\*BT1 parabolic collectors  
RT parabolic dish reflectors

**PARABOLIC DISH REFLECTORS**

INIS: 2000-04-12; ETDE: 1981-04-17  
\*BT1 parabolic reflectors  
RT parabolic dish collectors

**parabolic point collectors**

INIS: 1992-03-30; ETDE: 1978-10-25  
USE parabolic dish collectors

**PARABOLIC REFLECTORS**

2000-04-12  
\*BT1 solar reflectors  
NTI parabolic dish reflectors  
NTI parabolic trough reflectors  
RT cassegrainian concentrators

RT compound parabolic concentrators  
 RT mirrors  
 RT parabolic collectors  
 RT parabolic trough collectors  
 RT reflection

### PARABOLIC TROUGH COLLECTORS

INIS: 1992-03-11; ETDE: 1978-10-25  
 UF cylindrical parabolic collectors  
 \*BT1 parabolic collectors  
 RT parabolic reflectors  
 RT parabolic trough reflectors

### PARABOLIC TROUGH REFLECTORS

INIS: 2000-04-12; ETDE: 1981-04-17  
 \*BT1 parabolic reflectors  
 RT parabolic trough collectors

### paracharge

INIS: 1996-07-18; ETDE: 1976-11-01  
 (Until July 1996 this was a valid descriptor.)  
 USE particle properties

### PARACHUTES

2000-04-12  
 RT aerodynamics  
 RT reentry

### PARADISE STEAM PLANT

INIS: 2000-04-12; ETDE: 1978-09-13  
 \*BT1 fossil-fuel power plants  
 RT tennessee valley authority

### PARADOX BASIN

INIS: 1986-07-09; ETDE: 1984-03-19  
 An area of about 10, 000 square miles in southeastern Utah and southwestern Colorado underlain by a series of salt-core anticlines.  
 RT colorado  
 RT radioactive waste disposal  
 RT utah

### PARAELECTRIC RESONANCE

Resonant rotation of electric dipoles in ionic crystals.  
 UF per (paraelectric resonance)  
 \*BT1 electric resonance

### PARAFFIN

\*BT1 alkanes  
 \*BT1 waxes  
 RT shielding materials

### paraffin removal

INIS: 2000-04-12; ETDE: 1984-10-24  
 USE dewaxing

### paraffins

USE alkanes

### paragenes

INIS: 1982-01-13; ETDE: 1977-12-22  
 USE plasmids

### paragenesis

INIS: 2000-04-12; ETDE: 1981-08-21  
 A characteristic association of minerals connoting contemporaneous formation. (Prior to March 1997 this was a valid ETDE descriptor.)  
 SEE geologic deposits  
 SEE petrogenesis

### paragonite

INIS: 2000-04-12; ETDE: 1976-01-26  
 A yellowish or greenish mineral of the mica group. (Prior to January 1995, this was a valid ETDE descriptor.)  
 USE mica

### PARAGUAY

1982-02-09  
 BT1 developing countries  
 \*BT1 south america

### PARAGUAYAN CNEA

2005-07-06  
 Comision Nacional de Energia Atomica.  
 UF cnea (paraguay)  
 \*BT1 paraguay organizations

### PARAGUAYAN ORGANIZATIONS

2005-07-06  
 BT1 national organizations  
 NT1 paraguay cnea

### PARAHO PROCESS

2000-04-12  
 An oil shale processing method in which heat transfer during the vertical-kiln retorting process is effected by internal combustion of spent shale carbon residue. An alternative method makes use of hot recycle gas with no combustion in the retort.  
 RT oil shales

### PARALLEL PROCESSING

INIS: 1997-06-17; ETDE: 1984-01-27  
 The concurrent or simultaneous execution of more than one program, or the handling of input for more than one operation at the same time.  
 UF multiprocessing  
 BT1 programming  
 RT algorithms  
 RT cedar computers  
 RT computers  
 RT memory management  
 RT task scheduling  
 RT vector processing

### paramagnetic resonance (electron acoustic)

INIS: 1993-11-09; ETDE: 2002-04-26  
 USE acoustic esr

### paramagnetic resonance (electron)

USE electron spin resonance

### paramagnetic resonance (nuclear acoustic)

INIS: 1993-11-09; ETDE: 2002-04-26  
 USE acoustic nmr

### paramagnetic resonance (nuclear)

USE nuclear magnetic resonance

### PARAMAGNETISM

BT1 magnetism  
 RT van vleck theory

### PARAMECIUM

\*BT1 ciliata

### parameter computers

1997-01-28  
 (Until October 1996 this was a valid descriptor.)  
 USE digital computers

### PARAMETRIC AMPLIFIERS

\*BT1 amplifiers  
 RT frequency converters

### PARAMETRIC ANALYSIS

INIS: 1992-03-09; ETDE: 1980-03-04  
 Experimental or theoretical study of the changes in the characteristics of a system due to changes in design or operating parameters.  
 NT1 prony method  
 RT mathematical models  
 RT multi-parameter analysis

RT optimization  
 RT response functions  
 RT sensitivity analysis  
 RT systems analysis

### PARAMETRIC INSTABILITIES

UF non-linear plasma instabilities  
 UF nonlinear plasma instabilities  
 \*BT1 plasma macroinstabilities  
 RT alternating current  
 RT electric fields

### PARAMETRIC OSCILLATORS

INIS: 1994-06-27; ETDE: 1978-12-11  
 \*BT1 oscillators  
 RT optical equipment

### PARASITES

1996-07-18  
 UF claviceps  
 SF helminths  
 NT1 ascaridae  
 NT2 ascaris  
 NT1 cestodes  
 NT1 dictyocaulus  
 NT1 fusarium  
 NT1 hookworm  
 NT1 mildew  
 NT1 sporozoa  
 NT2 babesidae  
 NT2 plasmodium  
 NT1 trematodes  
 NT2 fasciola  
 NT2 schistosoma  
 NT1 trichinella  
 NT1 trypanosoma  
 NT1 ustilago  
 NT1 viruses  
 NT2 aids virus  
 NT2 bacteriophages  
 NT2 influenza viruses  
 NT2 measles virus  
 NT2 oncogenic viruses  
 NT3 adenovirus  
 NT3 leukemia viruses  
 NT3 polyoma virus  
 NT2 polio virus  
 NT2 simian virus  
 NT2 tobacco mosaic virus  
 NT2 vaccinia virus  
 RT disease vectors  
 RT filariasis  
 RT fungi  
 RT hydatidosis  
 RT insects  
 RT invertebrates  
 RT microorganisms  
 RT mites  
 RT nematodes  
 RT parasitic diseases  
 RT pest control  
 RT pest eradication  
 RT pesticides  
 RT plant diseases  
 RT protozoa  
 RT screwworm fly  
 RT sterile male technique  
 RT trypanosomes

### PARASITIC DISEASES

INIS: 1982-12-08; ETDE: 1981-01-12  
 \*BT1 infectious diseases  
 NT1 fascioliasis  
 NT1 filariasis  
 NT1 hydatidosis  
 NT1 malaria  
 NT1 schistosomiasis  
 NT1 trichinosis  
 NT1 trypanosomiasis  
 RT dictyocaulus

RT hookworm  
RT host  
RT parasites

**PARASTATISTICS**

INIS: 1977-01-26; ETDE: 1977-04-13  
RT bose-einstein statistics  
RT fermi statistics  
RT field algebra  
RT statistical mechanics

**parasympathetic nervous system**

USE autonomic nervous system

**PARASYMPATHOLYTICS**

\*BT1 autonomic nervous system agents  
NT1 atropine  
NT1 nicotine  
RT autonomic nervous system  
RT neuroregulators  
RT parasympathomimetics  
RT sympatholytics  
RT sympathomimetics

**PARASYMPATHOMIMETICS**

\*BT1 autonomic nervous system agents  
NT1 acetylcholine  
NT1 eserine  
NT1 nicotine  
NT1 pilocarpine  
RT autonomic nervous system  
RT neuroregulators  
RT parasympatholytics  
RT sympatholytics  
RT sympathomimetics  
RT vagus

**PARATHION**

INIS: 1976-05-07; ETDE: 1976-08-04  
\*BT1 insecticides  
\*BT1 organic nitrogen compounds  
\*BT1 organic phosphorus compounds  
\*BT1 thiophosphoric acid esters

**PARATHORMONE**

\*BT1 peptide hormones  
RT bone tissues  
RT calcium  
RT parathyroid glands

**PARATHYROID GLANDS**

\*BT1 endocrine glands  
RT calcitonin  
RT hyperparathyroidism  
RT neck  
RT parathormone  
RT thyroid

**PARATUNKA GEOTHERMAL FIELD**

2000-04-12  
BT1 geothermal fields

**paratyphoid**

1996-07-18  
(Until July 1996 this was a valid descriptor.)  
USE bacterial diseases

**paris convention-third party liability**

USE pcotpl

**PARITY**

1996-06-28  
(Prior to July 1996 MINAMI AMBIGUITY was a valid ETDE descriptor.)  
SF *minami ambiguity*  
BT1 particle properties  
RT morrison rule  
RT p invariance  
RT quantum numbers

**parity nonconservation**

USE p invariance

**PARKA REACTOR**

INIS: 1979-02-21; ETDE: 1976-12-16  
LANL, Los Alamos, New Mexico, USA. Shut down in 1987.  
UF *lasl critical assembly*  
\*BT1 zero power reactors

**parks**

INIS: 2000-04-12; ETDE: 1981-01-09  
SEE everglades national park  
SEE public lands  
SEE recreational areas  
SEE yellowstone national park

**parks (energy)**

INIS: 2000-04-12; ETDE: 1981-01-09  
USE energy parks

**parks (nuclear)**

INIS: 2000-04-12; ETDE: 1981-01-09  
USE nuclear parks

**paroxypropione**

INIS: 2005-01-31; ETDE: 2005-02-01  
USE hydroxypropiofenone

**PARR-1 REACTOR**

2004-03-15  
Pakistan Atomic Energy Commission, Islamabad, Pakistan.  
(Prior to March 2004 the descriptor PARR REACTOR was used for this reactor.)  
UF *islamabad reactor pakistan*  
UF *pakistan atomic research reactor*  
UF *parr reactor*  
UF *rawalpindi research reactor*  
\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors

**PARR-2 REACTOR**

2004-03-15  
Pakistan Atomic Energy Commission, Islamabad, Pakistan.  
UF *pakistan miniature neutron source reactor*  
\*BT1 mnsr type reactors

**parr carolinas cvtr reactor**

USE cvtr reactor

**parr reactor**

(Prior to March 2004 this was a valid descriptor.)  
USE parr-1 reactor

**paronsite**

INIS: 1996-07-08; ETDE: 2002-04-26  
(Until June 1996 this was a valid descriptor.)  
USE phosphate minerals  
USE uranium minerals

**part-time work schedules**

INIS: 2000-04-12; ETDE: 1984-05-08  
USE alternative work schedules

**parthenium argentatum**

INIS: 2000-04-12; ETDE: 1980-01-15  
USE guayule

**parthenogenesis**

USE reproduction

**PARTIAL BODY IRRADIATION**

UF *shielded organs*  
\*BT1 external irradiation  
RT abscopal radiation effects  
RT local irradiation  
RT spatial dose distributions

**partial conservation axial currents**

1993-11-09  
USE pcam theory

**partial conservation vector current**

1993-11-09  
USE pcvc theory

**PARTIAL DIFFERENTIAL EQUATIONS**

INIS: 1982-12-07; ETDE: 1980-11-25  
\*BT1 differential equations  
NT1 boltzmann equation  
NT1 boltzmann-vlasov equation  
NT2 plasma fluid equations  
NT1 continuity equations  
NT1 diffusion equations  
NT2 neutron diffusion equation  
NT1 equations of motion  
NT1 fokker-planck equation  
NT1 fourier heat equation  
NT1 grad-shafranov equation  
NT1 hamilton-jacobi equations  
NT1 korteweg-de vries equation  
NT1 lagrange equations  
NT1 laplace equation  
NT1 maxwell equations  
NT1 navier-stokes equations  
NT1 poisson equation  
NT1 proca equations  
NT1 wave equations  
NT2 dirac equation  
NT2 klein-gordon equation  
NT2 schrodinger equation  
RT cauchy problem  
RT dirichlet problem

**PARTIAL MOLAL VOLUME**

INIS: 2000-04-12; ETDE: 1975-09-11  
*Partial molal volume is the change in volume of a solution which would be brought about by the addition of one mole of solute to such a large amount of solution that the composition of the solution remains essentially unchanged.*  
RT thermodynamic properties

**PARTIAL OXIDATION PROCESSES**

2000-04-12  
BT1 chemical reactions  
BT1 thermochemical processes  
RT autothermal reformer processes  
RT hydrocarbons  
RT hydrogen production  
RT shell gasification process

**PARTIAL PRESSURE**

INIS: 1985-07-23; ETDE: 1981-11-10  
*The pressure that would be exerted by one component of a mixture of gases if it were present alone in a container.*  
\*BT1 thermodynamic properties  
RT dissolved gases

**PARTIAL WAVES**

NT1 d waves  
NT1 f waves  
NT1 p waves  
NT1 s waves  
RT angular momentum  
RT cdd poles  
RT dispersion relations  
RT linear absorption models  
RT n-d method  
RT omnes-muskhelishvili method  
RT phase shift  
RT quantum mechanics  
RT scattering  
RT scattering amplitudes

**PARTICLE BEAM FUSION  
ACCELERATOR***INIS: 1999-01-20; ETDE: 1980-03-04**UF pbfa*

BT1 accelerators

RT electron beam fusion accelerator

RT inertial confinement

RT ion beam fusion reactors

**particle-beam weapons***INIS: 2000-04-12; ETDE: 1981-08-21*

USE directed-energy weapons

**PARTICLE BEAMS**

BT1 beams

NT1 hyperon beams

NT2 lambda particle beams

NT2 sigma particle beams

NT1 lepton beams

NT2 electron beams

NT2 muon beams

NT2 neutrino beams

NT3 antineutrino beams

NT2 positron beams

NT1 meson beams

NT2 eta meson beams

NT2 kaon beams

NT2 pion beams

NT1 nucleon beams

NT2 neutron beams

NT2 proton beams

RT beam neutralization

RT directed-energy weapons

RT ion beams

RT photon beams

RT pomeranchuk theorem

RT q-shift

**PARTICLE BOOSTERS***First stage of a multistage accelerator.**UF boosters (particle)*

RT accelerators

RT beam injection

**PARTICLE-CORE COUPLING  
MODEL***INIS: 1977-01-26; ETDE: 1977-04-13**UF particle-core model**UF particle-rotor model*

\*BT1 nuclear models

RT coupling

RT nuclear structure

**particle-core model***1984-04-04**(Prior to July 1985, this was a valid ETDE descriptor.)*

USE particle-core coupling model

**PARTICLE DECAY***SF disintegration (nuclear particles)*

BT1 decay

NT1 electromagnetic particle decay

NT1 hadronic particle decay

NT1 radiative decay

NT1 weak particle decay

NT2 leptonic decay

NT2 semileptonic decay

NT2 weak hadronic decay

RT multiple production

RT particle production

**PARTICLE DISCRIMINATION***Particle or radiation discrimination in a mixed field.*

BT1 particle identification

RT measuring methods

RT radiation detection

RT resolution

**PARTICLE-HOLE MODEL**

\*BT1 nuclear models

RT aligned coupling scheme

RT weak-coupling model

**PARTICLE IDENTIFICATION**

NT1 particle discrimination

**particle-induced x-ray emission  
analysis***INIS: 2000-04-12; ETDE: 1978-08-07*

USE x-ray emission analysis

**PARTICLE INFLUX***1995-07-03**UF influx (particles)*

RT particle losses

RT plasma impurities

RT thermonuclear fuels

RT wall effects

**PARTICLE INTERACTIONS**

BT1 interactions

NT1 annihilation

NT1 charged-current interactions

NT1 coherent production

NT1 electron-quark interactions

NT1 electroproduction

NT1 exclusive interactions

NT2 semi-exclusive interactions

NT1 gluon-gluon interactions

NT1 hadron-hadron interactions

NT2 baryon-baryon interactions

NT3 hyperon-hyperon interactions

NT3 nucleon-antinucleon interactions

NT4 antiproton-neutron interactions

NT4 neutron-antineutron interactions

NT4 proton-antineutron interactions

NT4 proton-antiproton interactions

NT3 nucleon-hyperon interactions

NT3 nucleon-nucleon interactions

NT4 neutron-neutron interactions

NT4 proton-nucleon interactions

NT5 proton-neutron interactions

NT5 proton-proton interactions

NT2 meson-baryon interactions

NT3 meson-hyperon interactions

NT4 kaon-hyperon interactions

NT4 pion-hyperon interactions

NT3 meson-nucleon interactions

NT4 kaon-nucleon interactions

NT5 kaon-neutron interactions

NT6 kaon minus-neutron interactions

NT6 kaon neutral-neutron interactions

NT6 kaon plus-neutron interactions

NT6 kaon plus-neutron interactions

NT5 kaon-proton interactions

NT6 kaon minus-proton interactions

NT6 kaon neutral-proton interactions

NT6 kaon plus-proton interactions

NT4 pion-nucleon interactions

NT5 pion-neutron interactions

NT6 pion minus-neutron interactions

NT6 pion plus-neutron interactions

NT6 pion plus-neutron interactions

NT5 pion-proton interactions

NT6 pion minus-proton interactions

NT6 pion plus-proton interactions

NT6 pion plus-proton interactions

NT2 meson-meson interactions

NT3 kaon-kaon interactions

NT3 pion-kaon interactions

NT3 pion-pion interactions

NT1 inclusive interactions

NT2 semi-inclusive interactions

NT1 incoherent production

NT1 lepton-hadron interactions

NT2 lepton-baryon interactions

NT3 lepton-nucleon interactions

NT4 deep inelastic scattering

NT4 electron-nucleon interactions

NT5 electron-neutron interactions

NT5 electron-proton interactions

NT4 lepton-neutron interactions

NT5 antilepton-neutron interactions

NT6 antineutrino-neutron interactions

NT4 lepton-proton interactions

NT5 antilepton-proton interactions

NT6 antineutrino-proton interactions

NT4 muon-nucleon interactions

NT5 muon-neutron interactions

NT5 muon-proton interactions

NT4 neutrino-nucleon interactions

NT5 antineutrino-nucleon interactions

NT6 antineutrino-neutron interactions

NT6 antineutrino-neutron interactions

NT6 antineutrino-neutron interactions

NT6 antineutrino-neutron interactions

NT6 antineutrino-neutron interactions

NT5 neutrino-neutron interactions

NT6 antineutrino-neutron interactions

NT5 neutrino-proton interactions

NT6 antineutrino-proton interactions

NT6 antineutrino-proton interactions

NT6 antineutrino-proton interactions

NT6 antineutrino-proton interactions

NT6 antineutrino-proton interactions

NT2 lepton-meson interactions

NT3 electron-meson interactions

NT4 electron-pion interactions

NT3 muon-meson interactions

NT3 neutrino-meson interactions

NT1 lepton-lepton interactions

NT2 electron-electron interactions

NT2 electron-muon interactions

NT2 electron-positron interactions

NT2 muon-muon interactions

NT2 neutrino-electron interactions

NT3 antineutrino-electron interactions

NT2 neutrino-muon interactions

NT2 neutrino-neutrino interactions

NT2 positron-positron interactions

NT1 neutral-current interactions

NT1 photon-hadron interactions

NT2 photon-baryon interactions

NT3 photon-hyperon interactions

NT3 photon-nucleon interactions

NT4 photon-neutron interactions

NT4 photon-proton interactions

NT2 photon-meson interactions

NT1 photon-lepton interactions

NT2 photon-electron interactions

NT2 photon-muon interactions

NT2 photon-neutrino interactions

NT1 photon-photon interactions

NT1 photoproduction

NT2 primakoff effect

NT1 quark-antiquark interactions

NT1 quark-gluon interactions

NT1 quark-hadron interactions

NT1 quark-quark interactions

RT centauro-type events

RT coherent tube model

RT four momentum transfer

RT longitudinal momentum

RT morrison rule

RT multiple production

RT particle kinematics

RT particle production

RT polarized products

RT s channel

RT straight-line path approximation

RT string models

RT t channel  
 RT transverse energy  
 RT transverse momentum  
 RT u channel

**PARTICLE KINEMATICS**

UF kinematics (particle)  
 RT angular correlation  
 RT collisions  
 RT conservation laws  
 RT decay  
 RT distribution  
 RT equations of motion  
 RT particle interactions  
 RT particle rapidity

**PARTICLE LOSSES**

INIS: 1995-07-03; ETDE: 1983-03-24

BT1 losses  
 RT energy losses  
 RT particle influx  
 RT plasma confinement  
 RT plasma disruption

**PARTICLE MOBILITY**

BT1 mobility  
 NT1 electron mobility  
 NT1 ion mobility

**PARTICLE MODELS**

UF models (particle)  
 BT1 mathematical models  
 NT1 coherent tube model  
 NT1 composite models  
 NT2 bootstrap model  
 NT2 cim model  
 NT2 quark model  
 NT3 bag model  
 NT3 color model  
 NT3 flavor model  
 NT3 string models  
 NT4 superstring models  
 NT1 correlated-particle models  
 NT1 diffraction models  
 NT1 dual absorption model  
 NT1 extended particle model  
 NT2 bag model  
 NT2 string models  
 NT3 superstring models  
 NT1 feynman gas model  
 NT1 fireball model  
 NT1 gluon model  
 NT1 hard collision models  
 NT1 higgs model  
 NT1 isobar model  
 NT1 jet model  
 NT1 lee model  
 NT1 linear absorption models  
 NT1 nova model  
 NT1 octet model  
 NT1 peripheral models  
 NT2 baryon-exchange models  
 NT2 boson-exchange models  
 NT3 obe model  
 NT4 ope model  
 NT5 electric born model  
 NT3 sigma model  
 NT2 multiperipheral model  
 NT3 cluster emission model  
 NT4 space-time model  
 NT1 strong-coupling model  
 NT1 tensor dominance model  
 NT1 thermodynamic model  
 NT2 hydrodynamic model  
 NT1 uncorrelated-particle model  
 NT1 unified gauge models  
 NT2 grand unified theory  
 NT3 standard model  
 NT2 weinberg-salam gauge model  
 NT1 van hove model

NT1 vector dominance model  
 NT1 veneziano model  
 NT2 dual resonance model  
 RT harmonic oscillator models  
 RT leading particles  
 RT limiting fragmentation  
 RT optical models  
 RT particle multiplets  
 RT particle structure  
 RT statistical models  
 RT structure functions

**PARTICLE MULTIPLETS**

BT1 multiplets  
 NT1 baryon decuplets  
 NT1 baryon octets  
 NT1 meson nonets  
 NT1 meson octets  
 RT okubo mass formula  
 RT particle models  
 RT spectra

**PARTICLE PRODUCTION**

UF cumulative effect  
 UF diffractive dissociation  
 UF production (particle)  
 UF production mechanisms (particle)  
 NT1 coherent production  
 NT1 electroproduction  
 NT1 incoherent production  
 NT1 multiple production  
 NT2 pionization  
 NT1 pair production  
 NT2 internal pair production  
 NT1 photoproduction  
 NT2 primakoff effect  
 RT blankenbecler-sugar equations  
 RT hydrodynamic model  
 RT leading particles  
 RT mixing ratio  
 RT particle decay  
 RT particle interactions  
 RT regeneration

**PARTICLE PROPERTIES**

1996-07-18

Use only for data compilations or papers of a similar broad nature; otherwise use the specific terms listed below.

UF parachearge  
 NT1 chirality  
 NT1 form factors  
 NT2 dirac form factors  
 NT2 electromagnetic form factors  
 NT2 pauli form factors  
 NT1 g parity  
 NT1 helicity  
 NT1 hypercharge  
 NT1 isospin  
 NT1 mass difference  
 NT1 parity  
 NT1 particle radii  
 NT1 particle rapidity  
 NT1 particle widths  
 NT1 spin  
 NT1 strangeness  
 RT lifetime  
 RT limiting values  
 RT quantum numbers  
 RT spin orientation

**PARTICLE RADII**

For quantum objects only; otherwise use PARTICLE SIZE.

UF charge radius (particle)  
 UF mass radius (particle)  
 BT1 particle properties  
 RT nuclear radii  
 RT particle structure

**PARTICLE RAPIDITY**

Defined as  $(1/2)\ln((E+p)/(E-p))$ ; widely used in high energy physics.

UF rapidity  
 BT1 particle properties  
 RT kinetic energy  
 RT longitudinal momentum  
 RT particle kinematics  
 RT scale invariance

**PARTICLE RESUSPENSION**

INIS: 1977-09-06; ETDE: 1976-07-07

UF resuspension  
 UF resuspension (particles)  
 RT aerodynamics  
 RT aerosols  
 RT air pollution  
 RT chemical effluents  
 RT diffusion  
 RT dispersions  
 RT dusts  
 RT earth crust  
 RT fallout  
 RT radioactive aerosols  
 RT radioactive effluents  
 RT radionuclide migration  
 RT surface air  
 RT wind

**particle-rotor model**

INIS: 1984-04-04; ETDE: 2002-04-26

USE particle-core coupling model

**PARTICLE SIZE**

For quantum objects see PARTICLE RADII.

BT1 size  
 RT aerosols  
 RT agglomeration  
 RT ceramography  
 RT colloids  
 RT dispersions  
 RT droplets  
 RT dusts  
 RT elutriation  
 RT microspheres  
 RT particle size classifiers  
 RT particles  
 RT powders

**PARTICLE SIZE CLASSIFIERS**

INIS: 1999-09-08; ETDE: 1977-03-08

BT1 equipment  
 RT classification  
 RT particle size  
 RT screens  
 RT separation processes  
 RT sorting  
 RT trommels

**PARTICLE SOURCES**

BT1 radiation sources  
 NT1 alpha sources  
 NT1 antiproton sources  
 NT1 beta sources  
 NT1 deuteron sources  
 NT1 electron sources  
 NT2 pierce electron guns  
 NT1 neutron sources  
 NT2 neutron generators  
 NT2 nusus facility  
 NT1 positron sources  
 NT1 proton sources  
 RT ion sources

**PARTICLE STRUCTURE**

1996-06-26

(Prior to June 1996 BACH-TAMAID THEORY was a valid ETDE descriptor.)

SF bach-tamaid theory  
 RT emc effect  
 RT landau quasi particles

*RT* particle models  
*RT* particle radii  
*RT* string models  
*RT* structure functions  
*RT* superstring models

**PARTICLE TRACKS**

*UF* prongs  
*UF* tracks  
**NT1** fission tracks  
*RT* dielectric track detectors  
*RT* etching  
*RT* image scanners  
*RT* particles  
*RT* pattern recognition  
*RT* trajectories

**PARTICLE WIDTHS**

**BT1** particle properties  
*RT* lifetime

**PARTICLES**

*When appropriate, see the more specific descriptors listed under CHARGED PARTICLES, ELEMENTARY PARTICLES, and QUASIPARTICLES.*

*UF* fallout particulates  
*UF* fragments (particles)  
*UF* radioactive particulates  
**NT1** droplets  
**NT1** interstellar grains  
**NT1** particulates  
**NT2** total suspended particulates  
*RT* aerosols  
*RT* colloids  
*RT* condensation nuclei  
*RT* dispersions  
*RT* dusts  
*RT* elutriation  
*RT* granular materials  
*RT* micellar systems  
*RT* particle size  
*RT* particle tracks  
*RT* powders  
*RT* sedimentation  
*RT* virial theorem  
*RT* viruses

**particles (fuel)**

USE fuel particles

**PARTICULATES**

*INIS: 1991-08-14; ETDE: 1981-09-08*  
 (Prior to August 1991, this concept was indexed to AEROSOLS and PARTICLES.)  
*UF* airborne particles  
*UF* airborne particulates  
*UF* waterborne particles  
*UF* waterborne particulates  
**BT1** particles  
**NT1** total suspended particulates  
*RT* aerosols  
*RT* air pollution  
*RT* air pollution monitoring  
*RT* ashes  
*RT* dispersions  
*RT* dusts  
*RT* fly ash  
*RT* water pollution

**PARTITION**

*Not to be used in connection with ion exchange or ion exchange chromatography.*  
*RT* arrhenius equation  
*RT* equilibrium  
*RT* gas chromatography  
*RT* solvent extraction

**partition chromatography**

USE chromatography

**PARTITION FUNCTIONS**

**BT1** functions  
*RT* statistical mechanics  
*RT* thermodynamics

**parton model**

(This was a valid descriptor until March 2006.)  
 SEE gluon model  
 SEE quark model

**partons**

*INIS: 1980-02-26; ETDE: 1980-03-29*  
 (This was a valid descriptor from February 1980 to March 2006.)  
 SEE gluons  
 SEE quarks

**PARTURITION**

*UF* birth  
*RT* oxytocin  
*RT* pregnancy  
*RT* progeny

**pas**

1996-10-23  
*Aminosalicyclic acid-para.*  
 (Until October 1996 this was a valid descriptor.)  
 USE amino acids

**PASCAL**

*INIS: 2000-04-12; ETDE: 1985-12-11*  
**BT1** programming languages

**PASCHEN-BACK EFFECT**

*RT* fine structure  
*RT* zeeman effect

**paschen curve**

USE paschen law

**PASCHEN LAW**

*UF* paschen curve  
*UF* paschen minimum  
*RT* breakdown  
*RT* electric discharges  
*RT* electric potential  
*RT* gases  
*RT* spark gaps

**PASCHEN LINES**

*RT* spectra

**paschen minimum**

USE paschen law

**PASCO BASIN**

*INIS: 1992-06-04; ETDE: 1984-08-20*  
**\*BT1** columbia river basin  
*RT* hanford reservation  
*RT* radioactive waste disposal  
*RT* washington

**PASCOITE**

2000-04-12  
**\*BT1** oxide minerals  
**\*BT1** radioactive minerals  
*RT* calcium oxides  
*RT* vanadium oxides

**PASSAMAQUODDY POWER PLANT**

*INIS: 2000-04-12; ETDE: 1975-11-11*  
**\*BT1** tidal power plants

**passengers**

*INIS: 2000-04-12; ETDE: 1978-04-05*  
 USE occupants

**PASSIVATION**

*RT* corrosion protection

**PASSIVE SOLAR COOLING SYSTEMS**

*INIS: 2000-04-12; ETDE: 1977-07-23*  
**\*BT1** solar cooling systems  
**NT1** bead walls  
**NT1** drum walls  
**NT1** roof ponds  
*RT* curtains  
*RT* solar architecture

**PASSIVE SOLAR HEATING SYSTEMS**

*INIS: 2000-05-08; ETDE: 1977-07-23*  
**\*BT1** solar heating systems  
**NT1** bead walls  
**NT1** direct gain systems  
**NT1** drum walls  
**NT1** roof ponds  
**NT1** thermic diode solar panels  
**NT1** trombe walls  
**NT1** water walls  
*RT* attached greenhouses  
*RT* curtains  
*RT* double envelope buildings  
*RT* load collector ratio  
*RT* solar air heaters  
*RT* solar architecture

**PASSIVE SOLAR WATER HEATERS**

*INIS: 2000-04-12; ETDE: 1981-01-09*  
**\*BT1** solar water heaters  
**NT1** thermic diode solar panels  
*RT* thermosyphon effect

**PASSIVITY**

*RT* corrosion  
*RT* corrosion resistance

**PASTEURIZATION**

**\*BT1** food processing  
**NT1** radication  
*RT* preservation  
*RT* sterilization

**PASTURES**

*INIS: 1979-12-20; ETDE: 1979-05-31*  
*RT* cattle  
*RT* forage  
*RT* gramineae  
*RT* rangelands

**PAT REACTOR**

2000-04-12  
*Land-based submarine prototype reactor.*  
*UF* prototype a terre  
**\*BT1** pwr type reactors  
**\*BT1** research reactors  
**\*BT1** test reactors

**PATENT LAWS**

*INIS: 1990-12-15; ETDE: 1978-03-08*  
 (Prior to December 1990, this descriptor was spelled PATENT LAW.)  
**BT1** laws

**PATENTS**

*Use only for items about patents, not for items which are patents.*  
**BT1** document types  
*RT* inventions  
*RT* legal aspects  
*RT* licensing  
*RT* specifications

**patgas process**

INIS: 2000-04-12; ETDE: 1976-10-13

Coal gasification process to produce a fuel gas containing 36% hydrogen and 64% carbon monoxide at 1000 psig and 100 degrees F.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal gasification

**PATH INTEGRALS**

2003-07-24

BT1 integrals

NT1 feynman path integral

**PATHE GEOTHERMAL FIELD**

2000-04-12

BT1 geothermal fields

RT geothermal hot-water systems

RT mexico

**PATHFINDER REACTOR**

Northern States Power Co., Sioux Falls, South Dakota, USA. Decommissioned in 1967.

UF sioux falls pathfinder reactor

\*BT1 bwr type reactors

**PATHOGENESIS**

NT1 carcinogenesis

NT2 leukemogenesis

RT aids

RT diseases

RT pathogens

RT pathological changes

**PATHOGENS**

INIS: 1981-05-11; ETDE: 1979-05-25

Disease-producing agents, usually refers to living organisms.

RT anti-infective agents

RT disease vectors

RT diseases

RT fungi

RT microorganisms

RT pathogenesis

RT pathological changes

**PATHOLOGICAL CHANGES**

NT1 abscesses

NT1 allergy

NT1 ascites

NT1 atrophy

NT1 biological shock

NT1 calcinosis

NT1 caries

NT1 chlorosis

NT1 cysts

NT1 edema

NT1 emphysema

NT1 epilation

NT1 fibrosis

NT1 fistulae

NT1 hemolysis

NT1 hemorrhage

NT1 hypertrophy

NT1 inflammation

NT1 jaundice

NT1 malformations

NT2 congenital malformations

NT3 downs syndrome

NT1 necrosis

NT2 gangrene

NT2 osteoradionecrosis

NT1 splenomegaly

NT1 ulcers

RT diseases

RT granulomas

RT leukopenia

RT pathogenesis

RT pathogens

RT pathology

RT symptoms

**PATHOLOGY**

RT autopsies

RT diseases

RT medicine

RT pathological changes

**PATIENTS**

RT human populations

RT man

RT medicine

RT therapy

**PATTERN RECOGNITION**

INIS: 1976-05-07; ETDE: 1975-12-16

Identification of shapes and patterns without active human participation.

UF fingerprinting (oil spills)

UF oil spill fingerprinting

RT data processing

RT diagrams

RT display devices

RT identification systems

RT image scanners

RT image tubes

RT images

RT particle tracks

RT visibility

**PATTERSON METHOD**

BT1 calculation methods

RT crystallography

RT diffraction methods

**pauli exclusion principle**

USE pauli principle

**PAULI FORM FACTORS**

\*BT1 form factors

**pauli matrices**

USE pauli spin operators

**PAULI PRINCIPLE**

UF exclusion principle

UF pauli exclusion principle

RT occupation number

RT quantum mechanics

**PAULI SPIN OPERATORS**

UF pauli matrices

\*BT1 angular momentum operators

RT spin

**PAUZHETSK GEOTHERMAL FIELD**

2000-04-12

BT1 geothermal fields

RT geothermal hot-water systems

**PAVEMENTS**

INIS: 1992-05-18; ETDE: 1978-06-14

RT asphalts

RT building materials

RT concretes

RT roads

**pavia triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-04-26

USE triga-2-pavia reactor

**pawling research reactor**

USE prr reactor

**PAYBACK PERIOD**

INIS: 1986-04-03; ETDE: 1978-03-03

Time required for the cost savings from a new installation to equal the initial capital investment.

RT cost

RT economics

RT financial incentives

RT investment

RT life-cycle cost

**PBF REACTOR**

INEEL, Idaho Falls, Idaho, USA. Shut down in 1992; decommissioned.

UF national reactor testing station burst facility

UF power burst facility usaec

\*BT1 pulsed reactors

\*BT1 tank type reactors

**pbfa**

INIS: 1982-09-21; ETDE: 1980-03-04

USE particle beam fusion accelerator

**PBI**

UF protein-bound iodine

\*BT1 organic iodine compounds

\*BT1 proteins

RT blood chemistry

RT blood-plasma clearance

RT cpb

RT hyperthyroidism

RT hypothyroidism

RT radiotherapy

RT thyroid hormones

**PBR REACTOR**

NASA, Lewis Research Center, Plum Brook Station, Sandusky, Ohio, USA. Shut down in 1973.

UF nasa-test reactor

UF nasa-tr reactor

UF plum brook nasa-tr

UF plum brook reactor facility

\*BT1 enriched uranium reactors

\*BT1 materials testing reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**PBX DEVICES**

INIS: 1988-11-16; ETDE: 1983-10-11

A modification of the PDX device with a rearrangement of the divertor coils.

UF princeton beta experiment

\*BT1 tokamak devices

RT pdx devices

RT poloidal field divertors

**pca**

USE polar-cap absorption

**pca-lasl facility**

INIS: 2000-04-12; ETDE: 1977-04-12

USE plasma core assembly

**pca-ornl reactor**

USE ornl-pca reactor

**PCAC THEORY**

UF partial conservation axial currents

RT axial-vector currents

RT current algebra

**pcb**

INIS: 2000-04-12; ETDE: 1980-11-12

Polychlorinated biphenyl.

USE polychlorinated biphenyls

**pcb (polychlorinated biphenyl)**

ETDE: 2002-04-26

USE polychlorinated biphenyls

**pcm accidents**

USE power-cooling-mismatch accidents

**PCOTPL**

Paris Convention on Third Party Liability.

UF liability conv on third party, paris

UF paris convention-third party liability

UF *third party liability convention, paris*  
 \*BT1 international agreements  
 RT bestpc  
 RT civil liability  
 RT liabilities  
 RT nuclear liability

**pcr**

1994-06-27

USE polymerase chain reaction

**PCTR REACTOR**

*Battelle Memorial Institute, Richland, Washington, USA. Shut down in 1972.*  
 UF *physical constants test reactor*  
 UF *richland physical constants test reactor*  
 \*BT1 enriched uranium reactors  
 \*BT1 graphite moderated reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**PCV SYSTEMS**

INIS: 2000-04-12; ETDE: 1979-03-05

UF *positive crankcase ventilation systems*

\*BT1 pollution control equipment  
 RT automobiles  
 RT internal combustion engines

**PCVC THEORY**

UF *partial conservation vector current*  
 RT current algebra  
 RT vector currents

**PDP COMPUTERS**

\*BT1 dec computers

**PDP REACTOR**

*Savannah River Plant, Aiken, South Carolina, USA. Shut down in 1979.*  
 UF *process development pile*  
 UF *savannah river process development reactor*  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 zero power reactors  
 RT enriched uranium reactors  
 RT natural uranium reactors

**pdu**

INIS: 2000-04-12; ETDE: 1976-11-17

USE process development units

**PDX DEVICES**

INIS: 1978-07-03; ETDE: 1977-11-28

UF *poloidal divertor experiment*  
 \*BT1 tokamak devices  
 RT pbx devices  
 RT poloidal field divertors

**pe-16**

INIS: 1975-08-20; ETDE: 2002-04-26

USE alloy-ni43fe33cr16mo3

**pea plant**

USE pisum

**PEACE RIVER**

INIS: 1992-06-04; ETDE: 1975-11-28

\*BT1 rivers  
 RT alberta  
 RT british columbia

**PEACE RIVER DEPOSIT**

1992-06-04

\*BT1 oil sand deposits  
 RT alberta  
 RT canada  
 RT oil sands

**PEACH BOTTOM-1 REACTOR**

*Philadelphia Electric Co., Delta, Pennsylvania, USA. Shut down in 1974.*

UF *htgr peach bottom reactor*  
 \*BT1 enriched uranium reactors  
 \*BT1 helium cooled reactors  
 \*BT1 htgr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**PEACH BOTTOM-2 REACTOR**

*Exelon Generation Co., LLC, Delta, Pennsylvania, USA.*

\*BT1 bwr type reactors

**PEACH BOTTOM-3 REACTOR**

*Exelon Generation Co., LLC, Delta, Pennsylvania, USA.*

\*BT1 bwr type reactors

**PEACHES**

\*BT1 fruits  
 RT fruit trees  
 RT rosaceae

**PEAK LOAD**

INIS: 1982-12-03; ETDE: 1979-09-06

*Maximum instantaneous load or maximum average load over a designated interval of time.*

UF *peak power*  
 RT electric utilities  
 RT load analysis  
 RT load management  
 RT power demand

**PEAK-LOAD PRICING**

INIS: 1984-04-04; ETDE: 1976-03-22

BT1 prices  
 RT electric power  
 RT load management  
 RT off-peak power  
 RT power meters  
 RT public utilities  
 RT time-of-use pricing

**peak power**

INIS: 2000-04-12; ETDE: 1979-09-06

USE peak load

**PEAKING POWER PLANTS**

INIS: 1995-02-27; ETDE: 1979-02-27

BT1 power plants  
 NT1 compressed air storage power plants  
 NT1 pumped storage power plants  
 RT capacitive energy storage equipment  
 RT compressed air energy storage equipment  
 RT gas turbine power plants  
 RT hydroelectric power plants  
 RT load management  
 RT magnetic energy storage equipment  
 RT off-peak energy storage  
 RT thermal energy storage equipment  
 RT thermal power plants

**PEAKS**

NT1 escape peaks  
 RT pulse rise time  
 RT transients

**PEANUT OIL**

\*BT1 triglycerides  
 \*BT1 vegetable oils

**PEANUTS**

UF *groundnuts*  
 BT1 seeds  
 RT leguminosae  
 RT proteins

**pearl pulsations**

USE pulsations

**pearl spar**

INIS: 2000-04-12; ETDE: 1976-03-31

SEE ankerite  
 SEE dolomite

**PEARLITE**

*An aggregate in steel of ferrite and cementite.*

UF *perlite (iron-carbon alloy)*  
 RT cast iron  
 RT cementite  
 RT ferrite  
 RT steels

**PEARS**

\*BT1 fruits  
 RT rosaceae

**PEAS**

BT1 seeds  
 \*BT1 vegetables  
 RT pisum

**PEAT**

\*BT1 fossil fuels  
 \*BT1 organic matter  
 \*BT1 solid fuels  
 RT coal  
 RT soils

**PEATGAS PROCESS**

INIS: 2000-04-12; ETDE: 1978-08-07

*Dilute-phase, concurrent short-residence time hydrogasification and fluidized-bed nonslagging char gasification.*

\*BT1 coal gasification  
 BT1 sng processes

**peatlands**

INIS: 2000-04-12; ETDE: 1983-01-21

USE wetlands

**PEBBLE BED REACTORS**

\*BT1 gas cooled reactors  
 \*BT1 solid homogeneous reactors  
 NT1 avr reactor  
 NT1 thtr-300 reactor  
 NT1 vg-400 reactor  
 NT1 vgr-50 reactor

**PEBBLE SPRINGS-1 REACTOR**

*Portland General Electric Co., Arlington, Oregon, USA. Canceled in 1982 before construction began.*

\*BT1 pwr type reactors

**PEBBLE SPRINGS-2 REACTOR**

*Portland General Electric Co., Arlington, Oregon, USA. Canceled in 1982 before construction began.*

\*BT1 pwr type reactors

**PEC BRASIMONE REACTOR**

UF *brasimone pec reactor*

\*BT1 fbr type reactors  
 \*BT1 power reactors

**PECAN TREES**

INIS: 1992-01-10; ETDE: 1979-05-31

\*BT1 magnoliopsida  
 \*BT1 trees

**PECTINS**

\*BT1 blood substitutes  
 \*BT1 polysaccharides  
 RT galacturonic acid  
 RT glucuronic acid

**peculiar a-stars**

USE magnetic stars



**PEDIATRICS**

- BT1 medicine
- RT children
- RT congenital malformations

**peening**

- USE shot peening

**pegase critical experiments**

- USE peggy reactor

**PEGASE REACTOR**

*Cadarache Nuclear Research Center, France.*

UF *cadarache fuel element testing reactor*

- \*BT1 enriched uranium reactors
- \*BT1 tank type reactors
- \*BT1 test reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**PEGGY REACTOR**

UF *pegase critical experiments*

- \*BT1 enriched uranium reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors
- \*BT1 zero power reactors

**PEGMATITES**

*Exceptionally coarse grained igneous rocks, with interlocking crystals, usually found as irregular dikes, lenses, or veins, esp. at the margins of batholiths.*

- \*BT1 plutonic rocks
- RT feldspars
- RT granites
- RT mica
- RT xenotime

**PEIERLS METHOD**

- UF *kapur-peierls method*
- UF *wigner method*
- RT *bremsstrahlung*
- RT *compound nuclei*
- RT *cross sections*
- RT *photoneutrons*

**PEIERLS-NABARRO FORCE**

- RT *crystal structure*
- RT *dislocations*

**pelargonic acid**

- USE *nonanoic acid*

**PELINDABA TREATY**

1999-01-26

*Treaty for the prohibition of nuclear weapons in Africa.*

- BT1 *treaties*
- RT *arms control*
- RT *nuclear weapons*

**PELINDUNA REACTOR**

- \*BT1 enriched uranium reactors
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 zero power reactors

**PELLET INJECTION**

1983-03-15

- UF *injection (pellets)*
- RT *fuel feeding systems*
- RT *fuel pellets*
- RT *thermonuclear fuels*
- RT *thermonuclear reactor fueling*

**PELLETIZING**

INIS: 1981-02-27; ETDE: 1975-10-01

- \*BT1 *molding*

- RT *agglomeration*
- RT *breeding pellets*
- RT *briquetting*
- RT *compacting*
- RT *fuel pellets*
- RT *moderator pellets*
- RT *waste pellets*

**PELLETRON ACCELERATORS**

INIS: 1979-12-20; ETDE: 1980-01-24

- UF *pelletrons*
- \*BT1 *electrostatic accelerators*
- NT1 *5u pelletron accelerator*

**pelletrons**

INIS: 2000-04-12; ETDE: 1979-08-09

(Prior to December 1980, this was a valid ETDE descriptor.)

- USE *pelletron accelerators*

**PELLETS**

INIS: 2000-04-12; ETDE: 1976-10-13

- UF *wood pellets*
- NT1 *absorber pellets*
- NT1 *breeding pellets*
- NT1 *fuel pellets*
- NT1 *moderator pellets*
- NT1 *waste pellets*

**pellicularia**

INIS: 2000-04-12; ETDE: 1979-08-07

*Cellulase-producing fungus.*

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE *eumycota*

**PELVIS**

1999-04-06

- BT1 *body*
- RT *bladder*
- RT *female genitals*
- RT *gonads*
- RT *rectum*

**penalties**

INIS: 2000-04-12; ETDE: 1979-07-24

- USE *charges*

**pendulums**

INIS: 2000-04-12; ETDE: 1976-02-19

(Prior to March 1997 this was a valid ETDE descriptor.)

- SEE *mechanical vibrations*
- SEE *oscillations*
- SEE *time measurement*

**PENELEC PROCESS**

2000-04-12

*A process for desulfurization of flue gas using V catalyst to oxidize sulfur dioxide to sulfur trioxide.*

- \*BT1 *desulfurization*
- RT *sulfur*

**penetrant inspection (liquid)**

- USE *liquid penetrant inspection*

**PENETRATION DEPTH**

1978-11-24

*May be used in any field; in particular in the field of superconductivity it is the depth to which an external magnetic field penetrates a superconductor.*

- RT *ginzburg-landau theory*
- RT *skin effect*
- RT *superconductivity*

**PENETRATORS**

INIS: 2000-04-12; ETDE: 1975-10-01

- NT1 *earth penetrators*
- NT2 *subterrene penetrators*
- RT *weapons*

**PENETROMETERS**

1992-05-12

- BT1 *measuring instruments*

**PENFOLD-LEISS METHOD**

RT *bremsstrahlung*

**PENICILLAMINE**

UF *mercaptoaminoisovaleric acid*

UF *mercaptovaline*

- \*BT1 *amino acids*
- BT1 *chelating agents*
- \*BT1 *radioprotective substances*
- \*BT1 *thiols*

**PENICILLIN**

- \*BT1 *antibiotics*

**PENICILLIUM**

- \*BT1 *eumycota*

**PENLY-1 REACTOR**

INIS: 1984-07-23; ETDE: 1984-09-05

- \*BT1 *pwr type reactors*

**PENNING DISCHARGES**

UF *pig discharges*

BT1 *electric discharges*

RT *penning ion sources*

RT *sputter-ion pumps*

**PENNING EFFECT**

- RT *ionization*

**penning gages**

- USE *philips gages*

**PENNING ION SOURCES**

UF *pig ion sources*

BT1 *ion sources*

RT *penning discharges*

**PENNSYLVANIA**

- \*BT1 *usa*

NT1 *pittsburgh*

RT *alleggheny river*

RT *bettis*

RT *delaware river*

RT *monongahela river basin*

RT *ohio river*

RT *potomac river basin*

RT *susquehanna river*

**pennsylvania state triga reactor**

INIS: 1993-11-09; ETDE: 2002-04-26

- USE *pstr reactor*

**pennsylvania state university**

**research reactor**

1993-11-09

- USE *pstr reactor*

**pennsylvanian period**

INIS: 1992-05-22; ETDE: 1977-10-19

(Prior to April 1990 this was a valid ETDE descriptor.)

- USE *carboniferous period*

**penrose twistor theory**

INIS: 2000-04-12; ETDE: 1975-08-19

- USE *twistor theory*

**PENSTOCKS**

INIS: 1992-10-01; ETDE: 1976-03-11

- \*BT1 *pipes*
- RT *flow regulators*
- RT *hydraulic turbines*
- RT *hydraulics*
- RT *hydroelectric power plants*

**PENTACENE**

INIS: 2000-04-12; ETDE: 1985-09-23

- UF *2,3,4,7-dibenzoanthracene*

\*BT1 condensed aromatics

\*BT1 hydrocarbons

### pentacyn

INIS: 2000-04-12; ETDE: 1978-04-06

(Prior to January 1995, this was a valid ETDE descriptor.)

USE radioprotective substances

### PENTADIENES

2000-05-04

\*BT1 dienes

### pentamethylol tetranitrate

USE petn

### PENTAGONAL LATTICES

2002-09-23

\*BT1 crystal lattices

### pentamethylenediamine

USE cadaverine

### pentamethyleneimines

USE piperidines

### PENTANE

\*BT1 alkanes

### pentanedione (2,3)

ETDE: 2002-04-26

USE 2-3-pentanedione

### pentanoic acid

USE valeric acid

### PENTANOLS

UF amyl alcohols

UF pentyl alcohols

\*BT1 alcohols

### PENTENES

\*BT1 alkenes

### pentobarbital

ETDE: 1981-04-20

(Prior to October 1982, this was a valid ETDE descriptor.)

USE nembutal

### PENTOSE

\*BT1 monosaccharides

NT1 arabinose

NT1 deoxyribose

NT1 ribose

NT1 ribulose

NT1 xylose

RT ribosides

### PENTOSYL TRANSFERASES

INIS: 2000-04-12; ETDE: 1981-06-13

Code number 2.4.2.

\*BT1 glycosyl transferases

NT1 hypoxanthine  
phosphoribosyltransferase

### pentothal

1996-10-23

(Prior to March 1997 THIOPENTAL was used for this concept in ETDE.)

USE barbiturates

USE organic sulfur compounds

### pentyl alcohols

USE pentanols

### PENTYL RADICALS

UF amyl radicals

\*BT1 alkyl radicals

### people

INIS: 2000-04-12; ETDE: 1981-06-16

USE human populations

### peoples democratic republic of yemen

INIS: 2000-04-12; ETDE: 1980-08-12

(Prior to November 1991 this was a valid

ETDE descriptor.)

USE yemen

### peoples republic of china

INIS: 2000-04-12; ETDE: 1977-11-09

USE china

### peos

INIS: 1986-01-21; ETDE: 2002-04-26

Plasma Erosion Opening Switches.

USE plasma switches

### pep

INIS: 2000-04-12; ETDE: 1984-10-10

USE phosphoenolpyruvate

### PEP STORAGE RINGS

UF positron-electron-proton storage ring

BT1 storage rings

NT1 epic storage ring

### PEPPERS

Fruit of Capsicum plant.

UF paprika

UF red peppers

\*BT1 vegetables

RT capsicum

RT spices

### pepr devices

USE cathode ray tube digitizers

### PEPSIN

Code numbers 3.4.23.1, 3.4.23.2, and 3.4.23.3.

\*BT1 acid proteinases

RT digestion

RT stomach

### PEPTIDE HORMONES

1995-07-03

BT1 hormones

\*BT1 proteins

NT1 calcitonin

NT1 erythropoietin

NT1 gastrin

NT1 glucagon

NT1 insulin

NT1 leptin

NT1 parathormone

NT1 pituitary hormones

NT2 acth

NT2 gonadotropins

NT3 fish

NT3 hcg

NT3 lth

NT3 luteinizing hormone

NT2 liberins

NT3 lh-rh

NT2 oxytocin

NT2 sth

NT2 tsh

NT2 vasopressin

NT1 secretin

NT1 thyroid hormones

NT2 diiodothyronine

NT2 thyrocalcitonin

NT2 thyroxine

NT2 triiodothyronine

NT1 thyronine

NT1 trh

RT growth factors

RT lactogens

### PEPTIDE HYDROLASES

Code number 3.4.

\*BT1 hydrolases

NT1 acid proteinases

NT2 pepsin

NT1 aminopeptidases

NT1 carboxypeptidases

NT1 nonspecific peptidases

NT2 renin

NT2 urokinase

NT1 serine proteinases

NT2 chymotrypsin

NT2 fibrinolysin

NT2 kallikrein

NT2 thrombin

NT2 trypsin

NT1 sh-proteinases

NT2 cathepsins

NT2 papain

NT2 streptococcal proteinase

RT proteolysis

### PEPTIDES

\*BT1 proteins

NT1 cyclosporine

NT1 glycylglycine

NT1 polypeptides

NT2 calcitonin

NT2 endorphins

NT3 enkephalins

NT2 endothelins

NT2 gastrin

NT2 glucagon

NT2 glutathione

NT2 kinins

NT3 bradykinin

NT2 leptin

RT pyrogens

### PEPTONE

\*BT1 proteins

### per (paraelectric resonance)

USE paraelectric resonance

### PER CAPITA VALUES

INIS: 2000-04-12; ETDE: 1981-12-21

RT economic analysis

RT energy consumption

### peratization procedure

1996-07-18

(Prior to March 1997 FEINBERG-PAIS THEORY was used for this concept in ETDE.)

SEE leptons

SEE weak interactions

### PERBROMATES

ETDE: 1975-09-11

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

\*BT1 bromine compounds

BT1 oxygen compounds

### PERCHLORATES

1997-06-19

UF dysprosium perchlorates

UF lutetium perchlorates

UF manganese perchlorates

UF plutonium perchlorates

UF thallium perchlorates

UF thorium perchlorates

\*BT1 chlorine compounds

BT1 oxygen compounds

NT1 aluminium perchlorates

NT1 americium perchlorates

NT1 ammonium perchlorates

NT1 barium perchlorates

NT1 cadmium perchlorates

NT1 calcium perchlorates

NT1 cerium perchlorates

NT1 cesium perchlorates

**NT1** chromium perchlorates  
**NT1** cobalt perchlorates  
**NT1** copper perchlorates  
**NT1** erbium perchlorates  
**NT1** europium perchlorates  
**NT1** gadolinium perchlorates  
**NT1** hafnium perchlorates  
**NT1** holmium perchlorates  
**NT1** indium perchlorates  
**NT1** iron perchlorates  
**NT1** lanthanum perchlorates  
**NT1** lead perchlorates  
**NT1** lithium perchlorates  
**NT1** magnesium perchlorates  
**NT1** mercury perchlorates  
**NT1** neodymium perchlorates  
**NT1** neptunium perchlorates  
**NT1** potassium perchlorates  
**NT1** praseodymium perchlorates  
**NT1** rubidium perchlorates  
**NT1** samarium perchlorates  
**NT1** scandium perchlorates  
**NT1** silver perchlorates  
**NT1** sodium perchlorates  
**NT1** strontium perchlorates  
**NT1** terbium perchlorates  
**NT1** thulium perchlorates  
**NT1** uranium perchlorates  
**NT1** uranyl perchlorates  
**NT1** ytterbium perchlorates  
**NT1** yttrium perchlorates  
**NT1** zinc perchlorates  
**NT1** zirconium perchlorates  
**RT** perchloric acid

#### PERCHLORIC ACID

**\*BT1** chlorine compounds  
**\*BT1** inorganic acids  
**BT1** oxygen compounds  
**RT** perchlorates

#### PERCUS-YEVICK EQUATION

**BT1** equations  
**RT** many-body problem

#### PERCUSSIVE DRILLS

*INIS: 2000-04-12; ETDE: 1979-09-27*  
**\*BT1** drills  
**RT** drill bits

#### PEREY-BUCK MODEL

**UF** *perey-wilkins model*  
**\*BT1** nuclear models  
**RT** nonlocal potential  
**RT** optical models

#### *perey-wilkins model*

**USE** perey-buck model

#### *perfect flow*

*INIS: 1992-03-21; ETDE: 1992-05-22*  
**SEE** incompressible flow  
**SEE** steady flow

#### *perforated pipe distributors*

*INIS: 2000-04-12; ETDE: 1979-09-06*  
**USE** spargers

#### PERFORATION

*INIS: 1999-01-22; ETDE: 1981-05-18*  
**RT** natural gas wells  
**RT** well completion  
**RT** wells

#### PERFORMANCE

*1997-06-17*  
**UF** *figure of merit*  
**RT** coefficient of performance  
**RT** efficiency  
**RT** errors  
**RT** f-chart  
**RT** feasibility studies

**RT** heat rate  
**RT** performance testing  
**RT** productivity  
**RT** reliability  
**RT** resolution  
**RT** spectral response  
**RT** uses

#### PERFORMANCE TESTING

**BT1** testing  
**RT** bioassay  
**RT** certification  
**RT** federal test procedure  
**RT** inspection  
**RT** performance  
**RT** post-irradiation examination  
**RT** quality control

#### PERFUSED ORGANS

**\*BT1** organs  
**RT** perfused tissues

#### PERFUSED TISSUES

*INIS: 1975-10-29; ETDE: 1975-12-16*  
**\*BT1** animal tissues  
**RT** perfused organs

#### *perhydroxyl radical*

*INIS: 2000-04-12; ETDE: 1982-12-23*  
*Ho{sub 2}*.  
**USE** hydroperoxy radicals

#### PERICARDIUM

*INIS: 1980-09-12; ETDE: 1979-07-18*  
**\*BT1** heart  
**\*BT1** serous membranes

#### PERIDOTITES

*1983-09-01*  
**\*BT1** plutonic rocks  
**NT1** kimberlites  
**RT** hornblende  
**RT** olivine  
**RT** silicate minerals

#### PERINATAL IRRADIATION

*A combination of prenatal and postnatal irradiation.*  
**BT1** irradiation  
**RT** prenatal irradiation

#### *period (reactor)*

**USE** reactor period

#### PERIODATES

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

**\*BT1** iodine compounds  
**BT1** oxygen compounds  
**RT** periodic acid

#### PERIODIC ACID

**\*BT1** inorganic acids  
**\*BT1** iodine compounds  
**BT1** oxygen compounds  
**RT** periodates

#### *periodic functions*

*2002-09-12*  
**USE** functions  
**USE** periodicity

#### *periodic potentials*

*2002-09-12*  
**USE** periodicity  
**USE** potentials

#### PERIODIC SYSTEM

**UF** *mendeleev periodic system*  
**RT** atomic number  
**RT** elements

#### PERIODICITY

**UF** *periodic functions*  
**UF** *periodic potentials*  
**BT1** variations  
**RT** functional analysis  
**RT** group theory  
**RT** measure theory  
**RT** modulation  
**RT** oscillations  
**RT** pulsations  
**RT** set theory  
**RT** topology

#### *periosteum*

**USE** bone tissues

#### PERIPHERAL COLLISIONS

**\*BT1** strong interactions  
**RT** impact parameter

#### PERIPHERAL MODELS

**UF** *exchange models*  
**\*BT1** particle models  
**NT1** baryon-exchange models  
**NT1** boson-exchange models  
**NT2** obe model  
**NT3** ope model  
**NT4** electric born model  
**NT2** sigma model  
**NT1** multiperipheral model  
**NT2** cluster emission model  
**NT3** space-time model

#### *periphyton*

*INIS: 1993-07-12; ETDE: 1977-04-12*  
**USE** aufwuchs

#### PERISCOPES

**BT1** optical systems  
**RT** hot cells  
**RT** hot labs  
**RT** remote handling

#### PERITONEUM

**\*BT1** serous membranes  
**RT** abdomen  
**RT** ascites  
**RT** gastrointestinal tract  
**RT** intraperitoneal injection  
**RT** liver  
**RT** mesentery  
**RT** peritonitis  
**RT** spleen

#### PERITONITIS

**\*BT1** digestive system diseases  
**RT** peritoneum  
**RT** symptoms

#### PERKINS-1 REACTOR

*Duke Power Co., Mocksville, North Carolina, USA. Canceled in 1982 before construction began.*

**\*BT1** pwr type reactors

#### PERKINS-2 REACTOR

*Duke Power Co., Mocksville, North Carolina, USA. Canceled in 1982 before construction began.*

**\*BT1** pwr type reactors

#### PERKINS-3 REACTOR

*Duke Power Co., Mocksville, North Carolina, USA. Canceled in 1982 before construction began.*

**\*BT1** pwr type reactors

#### PERLITE

*INIS: 1999-03-05; ETDE: 1976-05-13*  
*Volcanic glass that has a concentric shelly structure, appears as if composed of concretions, is usually grayish and sometime*

*spherulitic, and when expanded by heat forms a lightweight aggregate used especially in concrete and plaster.*

- \*BT1 volcanic rocks
- RT glass
- RT rhyolites
- RT trachytes

### perlite (iron-carbon alloy)

INIS: 1978-11-24; ETDE: 2001-01-23  
USE pearlite

### PERMAFROST

INIS: 1992-07-21; ETDE: 1976-01-23  
*Permanently frozen ground, occurring wherever the temperature remains below freezing for several years.*

- RT alaska oil pipeline
- RT alaskan north slope
- RT arctic regions
- RT soils

### PERMALLOY

1996-11-13

- UF alloy-ni80fe16mo4
- UF permalloy c
- \*BT1 iron alloys
- \*BT1 nickel alloys

### permalloy c

INIS: 1996-11-13; ETDE: 2002-04-26  
USE nickel base alloys  
USE permalloy

### PERMANENT MAGNETS

- \*BT1 magnets
- RT magnetic properties

### PERMANGANATES

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- UF potassium permanganates
- \*BT1 manganese compounds
- BT1 oxygen compounds
- RT manganese oxides

### PERMEABILITY

- UF collector properties
- UF collector properties (rocks)
- UF tight sands
- BT1 physical properties
- RT dialysis
- RT membranes
- RT osmosis
- RT plugging
- RT porosity

### permeability (magnetic)

USE magnetic susceptibility

### permeability coefficient (fluid mechanics)

INIS: 1993-11-09; ETDE: 1983-07-20  
USE hydraulic conductivity

### permeability damage

INIS: 2000-04-12; ETDE: 1983-01-21  
USE formation damage

### permeability reduction

INIS: 2000-04-12; ETDE: 1983-01-21  
USE formation damage

### PERMENDUR

1993-10-03  
\*BT1 alloy-co50fe50

### PERMIAN BASIN

INIS: 2000-04-12; ETDE: 1984-02-10  
*That portion of western Texas, eastern New Mexico, western Oklahoma, southwestern Kansas, and southeastern Colorado that is underlain by bedded salt deposits of Permian age.*

- NT1 dalhart basin
- NT1 palo duro basin
- RT colorado
- RT kansas
- RT new mexico
- RT oklahoma
- RT radioactive waste disposal
- RT texas

### PERMIAN PERIOD

INIS: 1992-04-14; ETDE: 1977-10-19

- UF rotliegende epoch
- SF appalachian orogeny
- \*BT1 paleozoic era

### permit applications

INIS: 1996-02-12; ETDE: 1980-07-09  
(Prior to February 1996 this was a valid ETDE descriptor.)  
USE license applications

### permits

INIS: 1984-04-04; ETDE: 1979-12-10  
(Prior to February 1996 this was a valid ETDE descriptor.)  
USE licenses

### PERMITTIVITY

- UF dielectric constant
- \*BT1 dielectric properties

### permutit (inorganic)

USE inorganic ion exchangers

### permutit (organic)

USE organic ion exchangers

### pernicious anemia

USE anemias

### PEROVSKITE

CaTiO<sub>3</sub>/sub 3/.

- \*BT1 oxide minerals
- \*BT1 perovskites
- RT calcium oxides
- RT kimberlites
- RT synroc process
- RT titanium oxides

### perovskite crystal structure

INIS: 1984-04-25; ETDE: 1984-05-23  
USE cubic lattices

### PEROVSKITES

INIS: 1994-07-14; ETDE: 1976-09-28  
*Minerals with a close-packed lattice and the general formula ABX/sub 3/ where A and B are metals and X is a nonmetal, usually O.*

- BT1 minerals
- NT1 perovskite
- RT ferrimagnetic materials
- RT oxide minerals
- RT sodium tungsten bronze

### PEROX PROCESS

2000-04-12  
*Method for removal of hydrogen sulfide from waste gases.*

- \*BT1 desulfurization
- RT waste processing

### PEROXIDASES

Code number 1.11.

- \*BT1 oxidoreductases
- NT1 catalase

RT porphyrins

### PEROXIDES

1996-11-13

- UF plutonium peroxide
- BT1 oxygen compounds
- NT1 benzoyl peroxide
- NT1 hydrogen peroxide
- NT1 uranium peroxide
- RT peroxyacetyl nitrate

### PEROXY RADICALS

BT1 radicals

### PEROXYACETYL NITRATE

INIS: 2000-04-12; ETDE: 1976-08-24

- \*BT1 nitrates
- \*BT1 nitric acid esters
- RT peroxides

### PERRHENATES

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- BT1 oxygen compounds
- \*BT1 rhenium compounds
- RT rhenium oxides

### PERRY-1 REACTOR

*FirstEnergy Nuclear Operating Co., North Perry, Ohio, USA.*

- \*BT1 bwr type reactors

### PERRY-2 REACTOR

*Cleveland Electric Illuminating Co., North Perry, Ohio, USA. Canceled in 1994 after construction began (1974).*

- \*BT1 bwr type reactors

### PERRYMAN-1 REACTOR

INIS: 1978-01-16; ETDE: 1977-09-19  
*Baltimore Gas and Electric Co., Perryman, Maryland, USA. Canceled in 1972 before construction began.*

- \*BT1 enriched uranium reactors
- \*BT1 power reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

### PERRYMAN-2 REACTOR

INIS: 1978-01-16; ETDE: 1977-09-19  
*Baltimore Gas and Electric Co., Perryman, Maryland, USA. Canceled in 1972 before construction began.*

- \*BT1 enriched uranium reactors
- \*BT1 power reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

### PERSIAN GULF

1992-06-04

- \*BT1 arabian sea
- NT1 strait of hormuz

### PERSONAL COMPUTERS

INIS: 1994-06-27; ETDE: 1985-04-09  
(Until June 1994 this concept was indexed to MICROCOMPUTERS.)

- \*BT1 microcomputers
- RT data processing

### PERSONNEL

1996-05-14  
*Studies of groups of persons employed in a particular field of endeavor. For studies on individuals in a group see also MAN.*

- UF clerical personnel
- UF employees
- UF workers
- SF labor

*SF* professional personnel  
*SF* senior executive service  
**NT1** architects  
**NT1** astronauts  
**NT1** aviation personnel  
**NT1** builders  
**NT1** consultants  
**NT1** contractor personnel  
**NT1** craftsmen  
**NT1** dial painters  
**NT1** engineers  
**NT1** medical personnel  
**NT2** radiological personnel  
**NT1** military personnel  
**NT1** miners  
**NT2** coal miners  
**NT1** motor vehicle operators  
**NT1** public officials  
**NT2** state officials  
**NT1** reactor operators  
**NT1** scientific personnel  
**NT1** security personnel  
*RT* alternative work schedules  
*RT* human factors  
*RT* human factors engineering  
*RT* human populations  
*RT* industrial medicine  
*RT* labor relations  
*RT* man  
*RT* man-machine systems  
*RT* management  
*RT* manpower  
*RT* medical surveillance  
*RT* occupational safety  
*RT* occupations  
*RT* personnel dosimetry  
*RT* personnel monitoring  
*RT* safety  
*RT* security violations  
*RT* wages  
*RT* work  
*RT* working days

**PERSONNEL DOSIMETRY**

*UF* personnel film dosimetry  
**BT1** dosimetry  
*RT* bubble dosimeters  
*RT* external irradiation  
*RT* occupations  
*RT* personnel  
*RT* personnel monitoring  
*RT* thermoluminescent dosimeters

**personnel film dosimetry**

USE personnel dosimetry

**PERSONNEL MANAGEMENT**

*INIS*: 1992-08-12; *ETDE*: 1983-03-23  
*UF* accountability (personnel)  
*SF* accountability  
*SF* nepotism  
*SF* sick leave  
**BT1** management

**PERSONNEL MONITORING**

To include medical surveillance of early and late radiation effects.

*UF* excretion analysis  
**\*BT1** radiation monitoring  
*RT* albedo-neutron dosimeters  
*RT* medical surveillance  
*RT* personnel  
*RT* personnel dosimetry  
*RT* radiation doses  
*RT* radioactivity  
*RT* radionuclide kinetics  
*RT* whole-body counting

**PERSPEX**

**\*BT1** plastics  
**\*BT1** polyacrylates

**PERSULFATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

**BT1** oxygen compounds  
**BT1** sulfur compounds  
*RT* persulfuric acid

**PERSULFURIC ACID**

**BT1** oxygen compounds  
**BT1** sulfur compounds  
*RT* persulfates  
*RT* sulfuric acid

**PERT METHOD**

Program Evaluation and Review Technique.

*UF* cpm  
*UF* critical path method  
*RT* planning  
*RT* schedules

**PERTECHNETATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

**BT1** oxygen compounds  
**\*BT1** technetium compounds  
*RT* technetium oxides

**PERTURBATION THEORY**

1996-07-08  
(Prior to August 1996 RITCHIE-ELDRIDGE THEORY was a valid ETDE descriptor.)

*UF* reductive perturbation method  
*SF* ritchie-eldridge theory  
**NT1** hsk procedure  
*RT* adjoint flux  
*RT* born approximation  
*RT* brinkman-kramers approximation  
*RT* mathematics  
*RT* neutron importance function  
*RT* neutron transport theory  
*RT* p1-approximation  
*RT* p2-approximation  
*RT* p3-approximation  
*RT* quantum mechanics  
*RT* quasilinear problems  
*RT* rayleigh-schrodinger formula  
*RT* reactor kinetics  
*RT* scattering

**perturbations**

USE disturbances

**PERTURBED ANGULAR CORRELATION**

**\*BT1** angular correlation  
**NT1** differential pac  
**NT1** integral pac  
*RT* nuclear electric moments  
*RT* nuclear magnetic moments

**perturbed angular correlation (differential)**

*INIS*: 1993-11-09; *ETDE*: 2002-04-26  
USE differential pac

**perturbed angular correlation (integral)**

*INIS*: 1993-11-09; *ETDE*: 2002-04-26  
USE integral pac

**perturbed stationary states method**

USE pss method

**PERU**

**BT1** developing countries  
**\*BT1** south america  
*RT* amazon river

*RT* andes

**PERYLENE**

**\*BT1** condensed aromatics

**PEST CONTROL**

1999-05-12

**BT1** control  
**NT1** genetic control  
**NT1** pest eradication  
*RT* agriculture  
*RT* chemical attractants  
*RT* insects  
*RT* mites  
*RT* parasites  
*RT* pesticides  
*RT* phosphines  
*RT* quarantine  
*RT* rodents  
*RT* sterile insect release  
*RT* sterile male technique

**PEST ERADICATION**

*INIS*: 1975-09-01; *ETDE*: 1975-10-01

**\*BT1** pest control  
*RT* insects  
*RT* parasites

**PESTICIDES**

**NT1** fumigants  
**NT1** fungicides  
**NT2** cycloheximide  
**NT1** herbicides  
**NT1** insecticides  
**NT2** aldrin  
**NT2** ddt  
**NT2** dieldrin  
**NT2** kepone  
**NT2** lindane  
**NT2** malathion  
**NT2** parathion  
*RT* agriculture  
*RT* disinfectants  
*RT* disinfestation  
*RT* ecosystems  
*RT* grain disinfestation  
*RT* mutagens  
*RT* parasites  
*RT* pest control  
*RT* phosphines  
*RT* pollutants  
*RT* pollution

**pet scanning**

*INIS*: 1991-09-16; *ETDE*: 2001-01-23  
USE positron computed tomography

**PETALITE**

*INIS*: 2000-04-12; *ETDE*: 1983-01-21  
A lithium aluminium silicate of unit formula occurring in pegmatites.  
**\*BT1** silicate minerals  
*RT* aluminium silicates  
*RT* lithium silicates

**petawatt lasers**

*INIS*: 2003-08-15; *ETDE*: 2002-10-02  
USE lasers  
USE petawatt power range

**PETAWATT POWER RANGE**

*INIS*: 2003-08-15; *ETDE*: 2002-09-17  
From 10 exp 15 to 10 exp 18 W.  
*UF* petawatt lasers  
**BT1** power range  
**NT1** power range 01-10 pw  
**NT1** power range 10-100 pw  
**NT1** power range 100-1000 pw

**PETHIDINE**

*UF* demerol  
*UF* dolantal

- UF *meperidine*
- \*BT1 analgesics
- \*BT1 aromatics
- \*BT1 monocarboxylic acids
- \*BT1 narcotics
- \*BT1 piperidines

**petit process**

2000-04-12  
(Prior to January 1995, this was a valid ETDE descriptor.)

- USE desulfurization

**PETN**

- UF *pentaerythritol tetranitrate*
- \*BT1 chemical explosives
- \*BT1 nitrates
- \*BT1 nitric acid esters

**PETRA STORAGE RING**

INIS: 1976-07-16; ETDE: 1976-09-15  
*Positron-Elektron-Tandem-Ringbeschleuniger Anlage.*  
BT1 storage rings

**petrochemical feedstocks**

INIS: 2000-04-12; ETDE: 1979-03-27  
USE chemical feedstocks  
USE petrochemicals

**PETROCHEMICAL PLANTS**

INIS: 1992-03-17; ETDE: 1977-08-24  
\*BT1 chemical plants  
RT petrochemicals  
RT petroleum refineries

**PETROCHEMICALS**

1999-03-15  
UF *petrochemical feedstocks*  
SF *chemicals*  
SF *coal chemicals*  
BT1 petroleum products  
NT1 plastics  
NT2 aramids  
NT2 bakelite  
NT2 formvar  
NT2 lucite  
NT2 mylar  
NT2 nylon  
NT2 perspex  
NT2 plexiglas  
NT2 polystyrene  
NT2 polyurethanes  
NT3 halthane  
NT2 reinforced plastics  
NT2 tedlar  
NT2 teflon  
NT2 thermoplastics  
NT1 resins  
RT chemical feedstocks  
RT chemical plants  
RT petrochemical plants  
RT synthetic materials

**PETROCHEMISTRY**

- BT1 chemistry
- RT cracking
- RT mineralogy
- RT natural gas
- RT petroleum
- RT petroleum products

**PETROGENESIS**

*A branch of petrology that deals with the origin and formation of rocks, esp. igneous rocks.*  
(From August 1981 till March 1997 PARAGENESIS was a valid ETDE descriptor.)  
SF *paragenesis*  
\*BT1 petrology

- RT diagenesis
- RT origin
- RT orogenesis
- RT rocks
- RT tectonics

**PETROGRAPHY**

INIS: 1993-03-23; ETDE: 1976-12-15  
BT1 geology  
RT petrology

**PETROLEUM**

*Limited to crude oil; see also COAL LIQUIDS, SHALE OIL, etc.*  
UF *crude oil*  
UF *heavy oils*  
SF *mineral oil(s)*  
SF *petroleum marketing practices act*  
\*BT1 fossil fuels  
NT1 petroleum fractions  
NT2 petroleum distillates  
NT3 gas oils  
NT4 diesel fuels  
NT4 fuel oils  
NT5 heating oils  
NT5 residual fuels  
NT4 kerosene  
NT2 petroleum residues  
NT2 refinery gases  
NT1 residual petroleum  
NT1 shale oil  
NT2 shale oil fractions  
NT1 sour crudes  
RT alaska oil pipeline  
RT deregulation  
RT distillation  
RT energy conservation and production act  
RT floating roof tanks  
RT fluidized bed hydrogenation process  
RT gas injection  
RT gas lifts  
RT gas recycle hydrogenation process  
RT hydraulic equipment  
RT hydrocarbons  
RT lightering  
RT maturation  
RT microemulsion flooding  
RT miscible-phase displacement  
RT oapec  
RT oil spills  
RT oil wells  
RT oil yields  
RT oils  
RT opec  
RT pad districts  
RT petrochemistry  
RT petroleum deposits  
RT petroleum industry  
RT petroleum refineries  
RT primary recovery  
RT road oils  
RT shell gasification process  
RT sng processes  
RT strategic petroleum reserve  
RT synthetic petroleum  
RT tanker ships  
RT waterflooding

**petroleum administration for defense districts**

INIS: 2000-04-12; ETDE: 1979-09-27  
USE pad districts

**petroleum coke**

INIS: 1991-10-07; ETDE: 1979-05-03  
USE coke  
USE petroleum products

**petroleum cooperatives**

INIS: 2000-04-12; ETDE: 1993-07-09  
USE cooperatives  
USE petroleum industry

**PETROLEUM DEPOSITS**

1991-08-14  
BT1 geologic deposits  
\*BT1 mineral resources  
NT1 gas condensate fields  
NT1 oil fields  
NT1 us naval petroleum reserves  
RT acidization  
RT anticlines  
RT associated gas  
RT geologic traps  
RT geophysical surveys  
RT petroleum  
RT petroleum geology  
RT powder river basin  
RT reserves  
RT seeps  
RT well logging equipment  
RT western us overthrust belt  
RT williston basin

**PETROLEUM DISTILLATES**

INIS: 1992-04-01; ETDE: 1976-05-19  
*Boiling point range 0-600 degrees c.*  
UF *middle distillates*  
BT1 distillates  
\*BT1 petroleum fractions  
NT1 gas oils  
NT2 diesel fuels  
NT2 fuel oils  
NT3 heating oils  
NT3 residual fuels  
NT2 kerosene  
RT petroleum products  
RT road oils

**petroleum ether**

INIS: 2000-04-12; ETDE: 1975-12-16  
USE ligroin

**PETROLEUM FRACTIONS**

INIS: 1992-04-01; ETDE: 1977-09-19  
*Hydrocarbon mixtures occurring in petroleum that can be characterized by specific physical properties such as boiling range, density and viscosity.*  
\*BT1 petroleum  
NT1 petroleum distillates  
NT2 gas oils  
NT3 diesel fuels  
NT3 fuel oils  
NT4 heating oils  
NT4 residual fuels  
NT3 kerosene  
NT1 petroleum residues  
NT1 refinery gases  
RT petroleum products

**PETROLEUM GEOLOGY**

INIS: 1992-05-04; ETDE: 1979-03-28  
BT1 geology  
RT exploration  
RT natural gas deposits  
RT petroleum deposits

**PETROLEUM INDUSTRY**

1995-04-06  
UF *petroleum cooperatives*  
BT1 industry  
NT1 lpg industry  
RT horizontal divestiture  
RT horizontal integration  
RT mineral industry  
RT petroleum  
RT petroleum products

RT petroleum refineries  
 RT resource exploitation  
 RT vertical divestiture  
 RT vertical integration  
 RT windfall profits tax

**petroleum marketing practices act**

INIS: 2000-04-12; ETDE: 1979-12-10

(Prior to February 1995, this was a valid ETDE descriptor.)

SEE laws  
 SEE marketing  
 SEE petroleum

**PETROLEUM PRODUCTS**

UF finished oils  
 UF petroleum coke  
 NT1 gas oils  
 NT2 diesel fuels  
 NT2 fuel oils  
 NT3 heating oils  
 NT3 residual fuels  
 NT2 kerosene  
 NT1 gasoline  
 NT2 unleaded gasoline  
 NT1 ligroin  
 NT1 liquefied petroleum gases  
 NT1 lubricating oils  
 NT1 petrochemicals  
 NT2 plastics  
 NT3 aramids  
 NT3 bakelite  
 NT3 formvar  
 NT3 lucite  
 NT3 mylar  
 NT3 nylon  
 NT3 perspex  
 NT3 plexiglas  
 NT3 polystyrene  
 NT3 polyurethanes  
 NT4 halthane  
 NT3 reinforced plastics  
 NT3 tedlar  
 NT3 teflon  
 NT3 thermoplastics  
 NT2 resins  
 NT1 refinery gases  
 NT1 unfinished oils  
 RT naphtha  
 RT oils  
 RT petrochemistry  
 RT petroleum distillates  
 RT petroleum fractions  
 RT petroleum industry  
 RT petroleum refineries  
 RT refining  
 RT sng processes

**PETROLEUM REFINERIES**

UF bom refining districts  
 BT1 industrial plants  
 RT activated sludge process  
 RT distillation  
 RT distillation equipment  
 RT entitlements program  
 RT petrochemical plants  
 RT petroleum  
 RT petroleum industry  
 RT petroleum products  
 RT refinery gases  
 RT waste oil refineries

**PETROLEUM RESIDUES**

1992-04-01

Boiling point over 593 degrees c; includes oil residues, residua.

UF liquid asphalt  
 UF oil residues  
 UF resid  
 UF residual oils

\*BT1 petroleum fractions  
 RT residual fuels  
 RT road oils

**petroleum stocks**

INIS: 2000-04-12; ETDE: 1975-12-16

USE inventories

**PETROLEUM SULFONATES**

INIS: 2000-04-12; ETDE: 1976-08-04

Mixtures of many surfactant compounds of the alkylaryl sulfonate type.

\*BT1 sulfonates  
 \*BT1 sulfonic acid esters

**PETROLOGY**

2000-01-21

That branch of geology dealing with the origin, occurrence, structure, and history of rocks, esp. igneous and metamorphic rocks.

BT1 geology  
 NT1 lithology  
 NT1 petrogenesis  
 RT coalification  
 RT lithotypes  
 RT macerals  
 RT petrography  
 RT rocks

**PETROSIX PROCESS**

2000-04-12

Process developed by Petrobras, Brazilian National Oil Company that is capable of handling oil shale fines; similar to gas combustion process except that an outside furnace is used for heating of recycle gas.

RT oil shales

**petrov-galerkin method**

USE galerkin-petrov method

**pett**

INIS: 2000-04-12; ETDE: 1980-06-06

Positron Emission Transaxial Tomography.

USE positron computed tomography

**petten high flux reactor**

USE hfr reactor

**petten low flux reactor**

USE lfr reactor

**petten stek reactor**

USE stek reactor

**PETULA TOKAMAK**

INIS: 1975-11-11; ETDE: 1975-12-16

\*BT1 tokamak devices

**PEV RANGE**

INIS: 1977-01-26; ETDE: 1976-08-24

From 10 exp 15 to 10 exp 18 eV.

BT1 energy range

**PEWEE-1 REACTOR**

LASL, Los Alamos, New Mexico, USA.

\*BT1 hydrogen cooled reactors  
 \*BT1 space propulsion reactors

**PEWEE-2 REACTOR**

LASL, Los Alamos, New Mexico, USA.

\*BT1 hydrogen cooled reactors  
 \*BT1 space propulsion reactors

**PEWEE-3 REACTOR**

LASL, Los Alamos, New Mexico, USA.

\*BT1 hydrogen cooled reactors  
 \*BT1 space propulsion reactors

**PEWEE-4 REACTOR**

LASL, Los Alamos, New Mexico, USA.

\*BT1 hydrogen cooled reactors  
 \*BT1 space propulsion reactors

**PF-1000 DEVICE**

INIS: 1999-07-26; ETDE: 1999-09-03

Plasma Focus Device, Andrzej Soltan Institute for Nuclear Studies, Poland.

\*BT1 plasma focus devices

**PFIRSCH-SCHLUETER REGIME**

INIS: 1981-10-15; ETDE: 1979-01-30

The transport regime in a tokamak plasma characterized by the mean free path shorter than the connection length. In this regime, the diffusion coefficient is  $q/\text{sup } 2/$  times the classical value, where  $q \geq 1$  is the safety factor.

RT collisional plasma  
 RT neoclassical transport theory  
 RT stellarators  
 RT tokamak devices

**PFR REACTOR**

UF downreay prototype fast reactor

UF prototype fast reactor downreay

\*BT1 lmfr type reactors  
 \*BT1 power reactors  
 \*BT1 sodium cooled reactors  
 RT enriched uranium reactors  
 RT plutonium reactors

**PH VALUE**

UF acidity  
 UF neutralization (chemical)  
 RT acid neutralizing capacity  
 RT bases  
 RT buffers  
 RT inorganic acids  
 RT liming  
 RT nucleic acid denaturation  
 RT organic acids  
 RT protein denaturation

**ph'chromosome**

USE philadelphia chromosome

**PHAEDRUS MIRROR DEVICES**

INIS: 1989-02-24; ETDE: 1989-03-20

\*BT1 tandem mirrors

**PHAEDRUS-T TOKAMAK**

INIS: 1995-06-30; ETDE: 1995-07-03

Univ. of Wisconsin, Madison, Wisconsin, USA.

\*BT1 tokamak devices

**phages**

USE bacteriophages

**PHAGOCYTES**

\*BT1 somatic cells  
 NT1 macrophages  
 RT leukocytes  
 RT phagocytosis

**PHAGOCYTOSIS**

RT amoeba  
 RT cell constituents  
 RT excretion  
 RT immune reactions  
 RT intracellular digestion  
 RT macrophages  
 RT phagocytes  
 RT reticuloendothelial system

**PHANEROCHAETE**

INIS: 1991-12-16; ETDE: 1979-03-29

Ligninolytic fungus.

\*BT1 eumycota

**PHANTOMS**

\*BT1 mockup  
 RT biological models  
 RT depth dose distributions  
 RT functional models  
 RT isodose curves

RT radiotherapy  
RT tissue-equivalent materials

**pharmaceuticals**

USE drugs

**PHARMACOLOGY**

RT antiandrogens  
RT drugs

**pharmacotherapy**

USE chemotherapy

**PHARYNX**

UF nasopharynx  
UF throat  
UF tonsils  
BT1 digestive system  
\*BT1 organs  
BT1 respiratory system  
RT neck  
RT oral cavity

**PHASE CHANGE MATERIALS**

INIS: 1992-02-18; ETDE: 1978-07-05

Materials that undergo a phase change, e.g. from solid to liquid, at a temperature desired for heat storage.

BT1 materials  
RT eutectics  
RT fusion heat  
RT latent heat storage  
RT phase transformations  
RT transition heat

**PHASE DIAGRAMS**

UF state diagrams  
\*BT1 diagrams  
RT allotropy  
RT alloy systems  
RT critical temperature  
RT eutectics  
RT eutectoids  
RT gases  
RT glass  
RT liquids  
RT melting points  
RT microstructure  
RT monotectics  
RT monotectoids  
RT phase rule  
RT phase studies  
RT phase transformations  
RT solid solutions  
RT solids  
RT thermal analysis  
RT triple point

**phase factor**

INIS: 2000-06-27; ETDE: 1977-09-19

USE power factor

**PHASE OSCILLATIONS**

\*BT1 beam dynamics  
BT1 oscillations

**PHASE RULE**

RT phase diagrams

**PHASE SHIFT**

RT aharonov-bohm effect  
RT argand diagrams  
RT partial waves  
RT scattering

**PHASE SPACE**

\*BT1 mathematical space  
RT attractors  
RT dalitz plot  
RT ergodic hypothesis  
RT limit cycle  
RT liouville theorem

RT mathematics  
RT prism plot

**PHASE STABILITY**

BT1 stability  
RT beam dynamics

**PHASE STUDIES**

RT phase diagrams  
RT phase transformations  
RT thermochemical diagrams  
RT thermodynamic activity

**PHASE TRANSFORMATIONS**

UF transformations (phase)  
UF transitions (phase)  
NT1 boiling  
NT2 film boiling  
NT2 nucleate boiling  
NT3 departure nucleate boiling  
NT2 pool boiling  
NT2 subcooled boiling  
NT2 transition boiling  
NT1 crystal-phase transformations  
NT1 crystallization  
NT1 evaporation  
NT2 flashing  
NT2 sublimation  
NT2 vacuum evaporation  
NT1 freezing  
NT1 melting  
NT2 electron beam melting  
NT2 vacuum melting  
NT2 zone melting  
NT1 order-disorder transformations  
NT1 solidification  
NT1 thawing  
RT allotropy  
RT bifurcation  
RT critical temperature  
RT dew point  
RT eutectics  
RT eutectoids  
RT glass  
RT guinier-preston zones  
RT habit planes  
RT kosterlitz-thouless theory  
RT microstructure  
RT phase change materials  
RT phase diagrams  
RT phase studies  
RT shape memory effect  
RT supercritical state  
RT thermal analysis  
RT transition heat  
RT transition temperature  
RT triple point  
RT widmanstaetten structure

**PHASE VELOCITY**

BT1 velocity  
RT wave propagation

**PHASEOLUS**

UF bean plant  
\*BT1 leguminosae  
RT beans  
RT mungbeans  
RT phytohemagglutinin

**phasotrons**

USE synchrocyclotrons

**PHEBUS FACILITY**

INIS: 1992-08-18; ETDE: 1987-04-08  
Neodymium glass laser facility at Limeil, France, for laser fusion experiments.  
RT neodymium lasers

**PHEBUS REACTOR**

INIS: 1990-05-17; ETDE: 1990-06-01

Nuclear Protection and Safety Institute, CEA St. Paul lez Durance, France.

\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**phenacetin**

(Prior to April 1981, this concept in ETDE was indexed to ANALGESICS and ANTIPYRETICS.)

USE analgesics  
USE antipyretics

**PHENANTHRENE**

\*BT1 condensed aromatics  
\*BT1 hydrocarbons

**PHENANTHROLINE-ORTHO**

\*BT1 phenanthrolines  
BT1 reagents  
RT feroin

**PHENANTHROLINES**

\*BT1 azaarenes  
NT1 feroin  
NT1 phenanthroline-ortho

**PHENAZINE**

\*BT1 pyrazines

**PHENETHYL RADICALS**

\*BT1 aryl radicals

**PHENIX REACTOR**

Marcoule, Gard, France.

UF marcoule phenix reactor  
\*BT1 enriched uranium reactors  
\*BT1 lmfr type reactors  
\*BT1 plutonium reactors  
\*BT1 power reactors  
\*BT1 sodium cooled reactors

**PHENOBARBITAL**

UF luminal  
\*BT1 anticonvulsants  
\*BT1 barbiturates

**PHENOL**

UF hydroxybenzene  
\*BT1 phenols

**PHENOLATES**

INIS: 1979-12-20; ETDE: 1976-11-17  
RT phenols

**PHENOLOGY**

INIS: 2000-04-12; ETDE: 1980-03-29  
A branch of science dealing with the relations between climate and periodic biological phenomena.  
RT climates

**PHENOLPHTHALEIN**

\*BT1 carboxylic acid esters  
BT1 indicators  
\*BT1 phenols  
RT phthalic acid

**PHENOLS**

1996-07-16

(Prior to June 1996 BAMBP was a valid ETDE descriptor.)

UF amidol  
UF bambp  
UF butyl-alpha-methylbenzylphenol  
\*BT1 aromatics  
\*BT1 hydroxy compounds  
NT1 cresols  
NT1 dinitrophenol  
NT1 eriochrome dyes



**NT1** hydroxypropiofenone  
**NT1** naphthols  
**NT2** 1-nitroso-2-naphthol  
**NT2** nitroso-r salt  
**NT2** pyridylazonaphthol  
**NT2** thorin  
**NT2** trypan blue  
**NT1** nitrophenol  
**NT1** phenol  
**NT1** phenolphthalein  
**NT1** picric acid  
**NT1** polyphenols  
**NT2** arsenazo  
**NT2** bromosulphophthalein  
**NT2** catecholamines  
**NT2** curcumin  
**NT2** dopamine  
**NT2** fluorescein  
**NT3** erythrosine  
**NT2** hematoxylin  
**NT2** morin  
**NT2** pyridylazoresorcinol  
**NT2** pyrocatechol  
**NT2** pyrogallol  
**NT2** quercetin  
**NT2** resorcinol  
**NT2** stilbestrol  
**NT2** tannic acid  
**NT2** tiron  
**NT1** thymol  
**NT1** tyramine  
**NT1** xylenols  
*RT* alkoxides  
*RT* bakelite  
*RT* dephenolization  
*RT* phenolates  
*RT* phenosolvan process

**PHENOSOLVAN PROCESS**

*INIS: 2000-04-12; ETDE: 1983-03-23*

*Proprietary process for extracting phenols from gas liquids by counter current contact with isopropyl ether solvent.*

\*BT1 solvent extraction

*RT* phenols

**PHENOTHIAZINES**

\*BT1 azines

\*BT1 organic sulfur compounds

**NT1** chlorpromazine

**NT1** methylene blue

*RT* thionine

*RT* tranquilizers

**PHENOTYPE**

*RT* genotype

*RT* ontogenesis

**PHENOXY RADICALS**

BT1 radicals

**PHENYL ETHER**

2000-04-12

*UF* dowertherm

\*BT1 ethers

**phenyl methyl ether**

USE anisole

**PHENYL RADICALS**

\*BT1 aryl radicals

**phenylacetylene**

USE tolan

**phenylacrylic acid-beta**

USE cinnamic acid

**PHENYLALANINE**

*UF* aminophenylacetic acid-alpha

\*BT1 amino acids

\*BT1 aromatics

*RT* dopa

*RT* tyrosine

**phenylamine**

USE aniline

**phenylcarbinol**

1982-02-10

USE benzyl alcohol

**PHENYLENE RADICALS**

BT1 radicals

**phenylethylene**

USE styrene

**phenylhydroxylamine**

USE cupferron

**phenylisopropylamine**

USE benzedrine

**PEROMONE**

BT1 chemical attractants

BT1 secretion

*RT* insects

*RT* sex

*RT* yeasts

**phi-1019 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE phi-1020 mesons

**PHI-1020 MESONS**

*INIS: 1987-12-21; ETDE: 1988-01-25*

(Prior to December 1987 this concept was indexed by PHI-1019 RESONANCES.)

*UF* phi-1019 resonances

\*BT1 strangeonium

\*BT1 vector mesons

**PHI-1680 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*

\*BT1 strangeonium

\*BT1 vector mesons

**phi j-1850 mesons**

*INIS: 1995-08-07; ETDE: 1988-02-01*

(Until July 1995 this was a valid term.)

USE phi3-1850 mesons

**PHI3-1850 MESONS**

1995-08-07

(Until July 1995 this concept was indexed by PHI J-1850 MESONS.)

*UF* phi j-1850 mesons

\*BT1 strangeonium

\*BT1 tensor mesons

**PHI4-FIELD THEORY**

*INIS: 1978-02-23; ETDE: 1978-05-01*

\*BT1 quantum field theory

*RT* boundary conditions

*RT* haag theorem

*RT* heisenberg model

*RT* ising model

*RT* locality

*RT* radiative corrections

**PHILADELPHIA CHROMOSOME**

*UF* ph'chromosome

\*BT1 human chromosomes

*RT* myeloid leukemia

**philadelphia electric power reactor-1**

1993-11-09

USE limerick-1 reactor

**philadelphia electric power reactor-2**

1993-11-09

USE limerick-2 reactor

**philco computers**

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor.)

USE computers

**PHILIPPINE ATOMIC ENERGY COMMISSION**

*INIS: 1977-09-06; ETDE: 1977-10-19*

*Philippine Atomic Energy Commission, abolished in 1988 and replaced by the Philippine Nuclear Research Institute.*

*UF* paec

\*BT1 philippine nuclear research institute

**PHILIPPINE ATOMIC RESEARCH CENTER**

*INIS: 1995-02-16; ETDE: 1977-10-19*

\*BT1 philippine nuclear research institute

**philippine nucl res inst**

*INIS: 1990-12-17; ETDE: 2002-04-26*

(From June to December 1990, this was a valid descriptor.)

USE philippine nuclear research institute

**philippine nuclear power plant-1**

*INIS: 1993-11-09; ETDE: 1982-07-08*

USE pnpp-1 reactor

**PHILIPPINE NUCLEAR RESEARCH INSTITUTE**

*INIS: 1990-12-17; ETDE: 1990-10-09*

*Philippine Nuclear Research Institute, created in 1988 and replacing the Philippine Atomic Energy Commission.*

*UF* philippine nucl res inst

\*BT1 philippine organizations

**NT1** philippine atomic energy commission

**NT1** philippine atomic research center

**PHILIPPINE ORGANIZATIONS**

*INIS: 1977-09-06; ETDE: 1977-06-02*

BT1 national organizations

**NT1** philippine nuclear research institute

**NT2** philippine atomic energy commission

**NT2** philippine atomic research center

**philippine research reactor-1**

USE prr-1 reactor

**PHILIPPINES**

1997-06-19

BT1 asia

BT1 developing countries

BT1 islands

*RT* pacific ocean

*RT* palimpinon geothermal field

*RT* tiwi geothermal field

*RT* tongonan geothermal field

**PHILIPPSBURG-1 REACTOR**

*UF* kernkraftwerk philippsburg-1

*UF* kkp-1 philippsburg reactor

\*BT1 bwr type reactors

**PHILIPPSBURG-2 REACTOR**

*UF* kernkraftwerk philippsburg-2

*UF* kkp-2 philippsburg reactor

\*BT1 pwr type reactors

**PHILIPS GAGES**

*UF* penning gages

\*BT1 ionization gages

*RT* sputter-ion pumps

**PHIPPS BEND-1 REACTOR**

*INIS: 1978-01-16; ETDE: 1975-12-16*

*TVA, Surgoinville, Tennessee, USA. Canceled in 1982 before construction began.*

\*BT1 bwr type reactors

RT ge standard reactor

### PHIPPS BEND-2 REACTOR

INIS: 1978-01-16; ETDE: 1975-12-16

TVA, Surgoinsville, Tennessee, USA. Canceled in 1982 before construction began.

\*BT1 bwr type reactors

RT ge standard reactor

### phloredzin

1996-10-23

(Prior to March 1997 PHLORIZIN was used for this concept in ETDE.)

USE glycosides

USE ketones

### phlorhizin

1996-10-23

(Prior to March 1997 PHLORIZIN was used for this concept in ETDE.)

USE glycosides

USE ketones

### phlorizin

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE glycosides

USE ketones

### PHOEBUS-1A REACTOR

LASL, Los Alamos, New Mexico, USA.

UF rocket reactor experiment phoebus-1a

\*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

### PHOEBUS-1B REACTOR

LASL, Los Alamos, New Mexico, USA.

UF rocket reactor experiment phoebus-1b

\*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

### PHOEBUS-2A REACTOR

LASL, Los Alamos, New Mexico, USA.

UF rocket reactor experiment phoebus-2a

\*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

### PHOENIX DEVICES

\*BT1 magnetic mirrors

### PHONONS

BT1 quasi particles

RT acoustic esr

RT acoustic nmr

RT electron-phonon coupling

RT landau liquid helium theory

RT photoacoustic effect

RT quasiparticle-phonon model

RT solitons

RT umklapp processes

### PHORBOL ESTERS

INIS: 1981-12-23; ETDE: 1980-05-06

\*BT1 esters

RT carcinogens

### PHOSAM PROCESS

INIS: 2000-04-12; ETDE: 1983-03-23

Absorber unit for recovering ammonia from the vapor phase with ammonium phosphate solution.

BT1 separation processes

RT ammonia

### PHOSGENE

UF carbon oxychloride

UF carbonyl chloride

\*BT1 carbonic acid derivatives

\*BT1 organic chlorine compounds

### PHOSPHATASES

Code number 3.1.3.

\*BT1 esterases

NT1 acid phosphatase

NT1 alkaline phosphatase

NT1 nucleotidases

### PHOSPHATE GLASS

2000-04-04

Glass with phosphorus pentoxide as a major component.

BT1 glass

RT borophosphate glass

RT rpl dosimeters

### PHOSPHATE MINERALS

INIS: 1996-11-13; ETDE: 1982-05-12

UF dumontite

UF florencite

UF lemontovite

UF parsonsite

UF phosphuranylite

UF steenstrupine

UF uranocircite

BT1 minerals

NT1 apatites

NT1 autunite

NT1 monazites

NT1 ningyoite

NT1 saleeite

NT1 torbernite

NT1 xenotime

RT aluminium phosphates

RT barium phosphates

RT cerium phosphates

RT copper phosphates

RT lead phosphates

RT magnesium phosphates

RT phosphate rocks

RT phosphorites

RT uranium phosphates

RT yttrium phosphates

### phosphate process

INIS: 2000-04-12; ETDE: 1977-04-12

Buffered aqueous absorption process using sodium phosphate solution to absorb sulfur dioxide from flue gas.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

### PHOSPHATE ROCKS

INIS: 1980-05-14; ETDE: 1976-10-13

\*BT1 sedimentary rocks

NT1 phosphorites

RT calcium carbonates

RT calcium phosphates

RT phosphate minerals

### PHOSPHATES

1997-06-17

For salts only; see also PHOSPHORIC ACID ESTERS.

UF acid phosphates

UF berkelium phosphates

UF biphosphates

UF neptunium phosphates

UF promethium phosphates

UF protactinium phosphates

BT1 oxygen compounds

BT1 phosphorus compounds

NT1 aluminium phosphates

NT1 americium phosphates

NT1 ammonium phosphates

NT1 barium phosphates

NT1 beryllium phosphates

NT1 bismuth phosphates

NT1 boron phosphates

NT1 cadmium phosphates

NT1 calcium phosphates

NT1 cerium phosphates

NT1 cesium phosphates

NT1 chromium phosphates

NT1 cobalt phosphates

NT1 copper phosphates

NT1 dysprosium phosphates

NT1 erbium phosphates

NT1 europium phosphates

NT1 gadolinium phosphates

NT1 gallium phosphates

NT1 germanium phosphates

NT1 hafnium phosphates

NT1 holmium phosphates

NT1 indium phosphates

NT1 iron phosphates

NT1 lanthanum phosphates

NT1 lead phosphates

NT1 lithium phosphates

NT1 lutetium phosphates

NT1 magnesium phosphates

NT1 manganese phosphates

NT1 molybdenum phosphates

NT1 neodymium phosphates

NT1 nickel phosphates

NT1 niobium phosphates

NT1 plutonium phosphates

NT1 potassium phosphates

NT1 praseodymium phosphates

NT1 rubidium phosphates

NT1 samarium phosphates

NT1 scandium phosphates

NT1 silicon phosphates

NT1 silver phosphates

NT1 sodium phosphates

NT1 strontium phosphates

NT1 superphosphates

NT1 tantalum phosphates

NT1 technetium phosphates

NT1 terbium phosphates

NT1 thallium phosphates

NT1 thorium phosphates

NT1 thulium phosphates

NT1 tin phosphates

NT1 titanium phosphates

NT1 uranium phosphates

NT1 uranyl phosphates

NT1 vanadium phosphates

NT1 ytterbium phosphates

NT1 yttrium phosphates

NT1 zinc phosphates

NT1 zirconium phosphates

RT molybdophosphates

RT phosphoric acid

RT phosphorites

### phosphatides

USE phospholipids

### phosphatidylcholine

INIS: 2000-04-12; ETDE: 1986-03-04

USE lecithins

### PHOSPHIDES

1997-06-19

UF americium phosphides

UF berkelium phosphides

UF beryllium phosphides

UF curium phosphides

UF sodium phosphides

UF thulium phosphides

BT1 phosphorus compounds

BT1 pnictides

NT1 aluminium phosphides

NT1 boron phosphides

NT1 cadmium phosphides

NT1 cerium phosphides

NT1 cobalt phosphides

NT1 copper phosphides

NT1 dysprosium phosphides

**NT1** erbium phosphides  
**NT1** europium phosphides  
**NT1** gadolinium phosphides  
**NT1** gallium phosphides  
**NT1** germanium phosphides  
**NT1** hafnium phosphides  
**NT1** holmium phosphides  
**NT1** indium phosphides  
**NT1** iron phosphides  
**NT1** lanthanum phosphides  
**NT1** lithium phosphides  
**NT1** manganese phosphides  
**NT1** molybdenum phosphides  
**NT1** neptunium phosphides  
**NT1** nickel phosphides  
**NT1** microbraz 50  
**NT1** niobium phosphides  
**NT1** osmium phosphides  
**NT1** palladium phosphides  
**NT1** platinum phosphides  
**NT1** plutonium phosphides  
**NT1** potassium phosphides  
**NT1** praseodymium phosphides  
**NT1** rhodium phosphides  
**NT1** ruthenium phosphides  
**NT1** samarium phosphides  
**NT1** scandium phosphides  
**NT1** silicon phosphides  
**NT1** tantalum phosphides  
**NT1** terbium phosphides  
**NT1** thorium phosphides  
**NT1** tin phosphides  
**NT1** titanium phosphides  
**NT1** tungsten phosphides  
**NT1** uranium phosphides  
**NT1** vanadium phosphides  
**NT1** ytterbium phosphides  
**NT1** yttrium phosphides  
**NT1** zinc phosphides  
**NT1** zirconium phosphides  
**RT** phosphorus additions

**PHOSPHINE OXIDES**

*INIS: 1992-01-07; ETDE: 1985-09-23*

**BT1** oxygen compounds  
**\*BT1** phosphines  
**NT1** cmpo  
**NT1** tributylphosphine oxide  
**NT1** trioctylphosphine oxide  
**NT1** triphenylphosphine oxide  
**RT** organic phosphorus compounds

**PHOSPHINES**

**BT1** phosphorus compounds  
**NT1** phosphine oxides  
**NT2** cmpo  
**NT2** tributylphosphine oxide  
**NT2** trioctylphosphine oxide  
**NT2** triphenylphosphine oxide  
**RT** organic phosphorus compounds  
**RT** pest control  
**RT** pesticides  
**RT** phosphorus hydrides

**PHOSPHINIC ACID ESTERS**

**\*BT1** esters  
**\*BT1** organic phosphorus compounds  
**RT** phosphinic acids

**PHOSPHINIC ACIDS**

*1992-01-10*

(Before 1992, this information was indexed to ORGANOPHOSPHINIC ACIDS.)

**UF** organophosphinic acids  
**\*BT1** organic acids  
**\*BT1** organic phosphorus compounds  
**RT** phosphinic acid esters

**phosphites**

*Specific phosphites should be indexed by coordination of a descriptor of the form*

*(CATION) COMPOUNDS and PHOSPHOROUS ACID.*

**USE** phosphorous acid

**PHOSPHOCREATINE**

**\*BT1** amino acids  
**\*BT1** organic phosphorus compounds  
**RT** creatine

**PHOSPHODIESTERASES**

*INIS: 1986-12-03; ETDE: 1981-01-12*

*Code number 3.1.4.*

**\*BT1** esterases  
**NT1** nucleases  
**NT2** dna-ase  
**NT3** endonucleases  
**NT2** rna-ase

**PHOSPHOENOLPYRUVATE**

*INIS: 2000-04-12; ETDE: 1984-10-10*

*An intermediate compound in both the C4 photosynthetic pathway and carbohydrate metabolism.*

**UF** pep  
**RT** biosynthesis  
**RT** carbohydrates  
**RT** carbon dioxide  
**RT** chemical reactions  
**RT** metabolism  
**RT** photosynthesis  
**RT** uptake

**PHOSPHOHYDROLASES**

*INIS: 1985-09-09; ETDE: 1981-01-30*

*Code number 3.6.1.*

**\*BT1** acid anhydrases  
**NT1** atp-ase

**PHOSPHOLIPIDS**

*1996-10-22*

**UF** cephalins  
**UF** phosphatides  
**\*BT1** esters  
**\*BT1** lipids  
**\*BT1** organic phosphorus compounds  
**NT1** cardioliipin  
**NT1** lecithins  
**NT1** sphingomyelins

**phosphomolybdic acid**

*1980-05-14*

**USE** molybdophosphoric acid

**PHOSPHONATES**

*1976-02-05*

*For salts only; see also PHOSPHONIC ACID ESTERS.*

**\*BT1** organic phosphorus compounds

**PHOSPHONIC ACID ESTERS**

**SF** dehpa  
**\*BT1** esters  
**\*BT1** organic phosphorus compounds  
**NT1** dampo  
**NT1** dhdecmp

**PHOSPHONIC ACIDS**

*1994-03-15*

**\*BT1** organic acids  
**\*BT1** organic phosphorus compounds

**PHOSPHOPROTEINS**

*INIS: 2000-04-12; ETDE: 1987-04-24*

*Proteins which have phosphoric acid as a prosthetic group.*

**\*BT1** proteins  
**RT** cyclases  
**RT** phosphotransferases  
**RT** post-translation modification

**PHOSPHORESCENCE**

**\*BT1** luminescence  
**RT** afterglow

**RT** phosphors

**PHOSPHORIC ACID**

**UF** hydrogen phosphates  
**\*BT1** inorganic acids  
**BT1** oxygen compounds  
**BT1** phosphorus compounds  
**RT** molybdophosphoric acid  
**RT** phosphates  
**RT** tungstophosphoric acid

**PHOSPHORIC ACID ESTERS**

**UF** t2ehp  
**UF** tri-2-ethylhexyl phosphate  
**\*BT1** esters  
**\*BT1** organic phosphorus compounds  
**NT1** butyl phosphates  
**NT2** dbp  
**NT2** mbp  
**NT2** tbp  
**NT1** hdehp  
**NT1** mdpa  
**NT1** phytic acid  
**NT1** tcp

**PHOSPHORITES**

*Sedimentary rocks composed chiefly of phosphate.*

**\*BT1** phosphate rocks  
**RT** phosphate minerals  
**RT** phosphates

**PHOSPHOROUS ACID**

**UF** phosphites  
**\*BT1** inorganic acids  
**BT1** oxygen compounds  
**BT1** phosphorus compounds

**PHOSPHORS**

**UF** fluors  
**UF** scintillators  
**NT1** glass scintillators  
**NT1** inorganic phosphors  
**NT2** cadmium sulfides  
**NT2** cadmium tungstates  
**NT2** calcium tungstates  
**NT2** cesium iodides  
**NT2** lithium iodides  
**NT2** potassium iodides  
**NT2** sodium iodides  
**NT2** zinc sulfides  
**NT1** liquid scintillators  
**NT1** organic crystal phosphors  
**NT1** plastic scintillators  
**RT** luminescent chambers  
**RT** luminescent concentrators  
**RT** luminescent dosimeters  
**RT** phosphorescence  
**RT** scintillation counters

**PHOSPHORUS**

**\*BT1** nonmetals

**PHOSPHORUS 21**

**\*BT1** light nuclei  
**\*BT1** odd-even nuclei  
**\*BT1** phosphorus isotopes

**PHOSPHORUS 24**

*INIS: 1978-02-23; ETDE: 1978-05-01*

**\*BT1** light nuclei  
**\*BT1** odd-odd nuclei  
**\*BT1** phosphorus isotopes

**PHOSPHORUS 25**

*2002-02-27*

**\*BT1** light nuclei  
**\*BT1** nanoseconds living radioisotopes  
**\*BT1** odd-even nuclei  
**\*BT1** phosphorus isotopes

**PHOSPHORUS 26***INIS: 1983-09-01; ETDE: 1983-04-28*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 27***1986-04-02*

- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 28**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 29**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes
- \*BT1 seconds living radioisotopes

**PHOSPHORUS 30**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 30 TARGET***INIS: 1992-09-23; ETDE: 1984-11-29*

- BT1 targets

**PHOSPHORUS 31**

- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes
- \*BT1 stable isotopes

**PHOSPHORUS 31 BEAMS***1983-09-01*

- \*BT1 ion beams

**PHOSPHORUS 31 REACTIONS***INIS: 1978-04-21; ETDE: 1978-07-06*

- \*BT1 heavy ion reactions

**PHOSPHORUS 31 TARGET***ETDE: 1976-07-09*

- BT1 targets

**PHOSPHORUS 32**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 32 TARGET***ETDE: 1976-07-09*

- BT1 targets

**PHOSPHORUS 33**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 34**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes
- \*BT1 seconds living radioisotopes

**PHOSPHORUS 35**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes
- \*BT1 seconds living radioisotopes

**PHOSPHORUS 36**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes
- \*BT1 seconds living radioisotopes

**PHOSPHORUS 37**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes
- \*BT1 seconds living radioisotopes

**PHOSPHORUS 38**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 39***INIS: 1977-10-17; ETDE: 1977-08-09*

- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 40***INIS: 1979-09-18; ETDE: 1979-10-23*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 light nuclei
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 41***INIS: 1980-07-24; ETDE: 1980-02-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 42***INIS: 1980-07-24; ETDE: 1980-02-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 43***INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 44***INIS: 1989-09-14; ETDE: 1989-10-16*

- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 45***INIS: 1990-04-19; ETDE: 1990-05-16*

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS 46***INIS: 1990-04-19; ETDE: 1990-11-20*

- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 phosphorus isotopes

**PHOSPHORUS ADDITIONS**

- BT1 alloys
- RT phosphides

**PHOSPHORUS BROMIDES**

- \*BT1 bromides
- BT1 phosphorus compounds

**PHOSPHORUS CHLORIDES**

- \*BT1 chlorides
- BT1 phosphorus compounds

**PHOSPHORUS COMPLEXES**

- BT1 complexes

**PHOSPHORUS COMPOUNDS**

- NT1 hypophosphorous acid
- NT1 molybdophosphates
- NT1 molybdophosphoric acid
- NT1 phosphates
  - NT2 aluminium phosphates
  - NT2 americium phosphates
  - NT2 ammonium phosphates
  - NT2 barium phosphates
  - NT2 beryllium phosphates
  - NT2 bismuth phosphates
  - NT2 boron phosphates
  - NT2 cadmium phosphates
  - NT2 calcium phosphates
  - NT2 cerium phosphates
  - NT2 cesium phosphates
  - NT2 chromium phosphates
  - NT2 cobalt phosphates
  - NT2 copper phosphates
  - NT2 dysprosium phosphates
  - NT2 erbium phosphates
  - NT2 europium phosphates
  - NT2 gadolinium phosphates
  - NT2 gallium phosphates
  - NT2 germanium phosphates
  - NT2 hafnium phosphates
  - NT2 holmium phosphates
  - NT2 indium phosphates
  - NT2 iron phosphates
  - NT2 lanthanum phosphates
  - NT2 lead phosphates
  - NT2 lithium phosphates
  - NT2 lutetium phosphates
  - NT2 magnesium phosphates
  - NT2 manganese phosphates
  - NT2 molybdenum phosphates
  - NT2 neodymium phosphates
  - NT2 nickel phosphates
  - NT2 niobium phosphates
  - NT2 plutonium phosphates
  - NT2 potassium phosphates
  - NT2 praseodymium phosphates
  - NT2 rubidium phosphates
  - NT2 samarium phosphates
  - NT2 scandium phosphates
  - NT2 silicon phosphates
  - NT2 silver phosphates
  - NT2 sodium phosphates
  - NT2 strontium phosphates
  - NT2 superphosphates
  - NT2 tantalum phosphates
  - NT2 technetium phosphates
  - NT2 terbium phosphates
  - NT2 thallium phosphates
  - NT2 thorium phosphates
  - NT2 thulium phosphates
  - NT2 tin phosphates
  - NT2 titanium phosphates
  - NT2 uranium phosphates
  - NT2 uranyl phosphates
  - NT2 vanadium phosphates
  - NT2 ytterbium phosphates
  - NT2 yttrium phosphates
  - NT2 zinc phosphates
  - NT2 zirconium phosphates
- NT1 phosphides
  - NT2 aluminium phosphides
  - NT2 boron phosphides
  - NT2 cadmium phosphides

NT2 cerium phosphides  
 NT2 cobalt phosphides  
 NT2 copper phosphides  
 NT2 dysprosium phosphides  
 NT2 erbium phosphides  
 NT2 europium phosphides  
 NT2 gadolinium phosphides  
 NT2 gallium phosphides  
 NT2 germanium phosphides  
 NT2 hafnium phosphides  
 NT2 holmium phosphides  
 NT2 indium phosphides  
 NT2 iron phosphides  
 NT2 lanthanum phosphides  
 NT2 lithium phosphides  
 NT2 manganese phosphides  
 NT2 molybdenum phosphides  
 NT2 neptunium phosphides  
 NT2 nickel phosphides  
 NT2 microbraz 50  
 NT2 niobium phosphides  
 NT2 osmium phosphides  
 NT2 palladium phosphides  
 NT2 platinum phosphides  
 NT2 plutonium phosphides  
 NT2 potassium phosphides  
 NT2 praseodymium phosphides  
 NT2 rhodium phosphides  
 NT2 ruthenium phosphides  
 NT2 samarium phosphides  
 NT2 scandium phosphides  
 NT2 silicon phosphides  
 NT2 tantalum phosphides  
 NT2 terbium phosphides  
 NT2 thorium phosphides  
 NT2 tin phosphides  
 NT2 titanium phosphides  
 NT2 tungsten phosphides  
 NT2 uranium phosphides  
 NT2 vanadium phosphides  
 NT2 ytterbium phosphides  
 NT2 yttrium phosphides  
 NT2 zinc phosphides  
 NT2 zirconium phosphides  
 NT1 phosphines  
 NT2 phosphine oxides  
 NT3 cmpo  
 NT3 tributylphosphine oxide  
 NT3 trioctylphosphine oxide  
 NT3 triphenylphosphine oxide  
 NT1 phosphoric acid  
 NT1 phosphorous acid  
 NT1 phosphorus bromides  
 NT1 phosphorus chlorides  
 NT1 phosphorus fluorides  
 NT1 phosphorus hydrides  
 NT1 phosphorus iodides  
 NT1 phosphorus nitrides  
 NT1 phosphorus oxides  
 NT1 phosphorus sulfides  
 NT1 pyrophosphates  
 NT1 tungstophosphates  
 NT1 tungstophosphoric acid  
 RT organic phosphorus compounds

**PHOSPHORUS FLUORIDES**

\*BT1 fluorides  
 BT1 phosphorus compounds

**PHOSPHORUS-GROUP TRANSFERASES**

INIS: 1986-12-03; ETDE: 1981-01-30  
 Code number 2.7.

\*BT1 transferases  
 NT1 nucleotidyltransferases  
 NT2 polymerases  
 NT3 dna polymerases  
 NT3 rna polymerases  
 NT1 phosphotransferases  
 NT2 hexokinase

**PHOSPHORUS HYDRIDES**

\*BT1 hydrides  
 BT1 phosphorus compounds  
 RT phosphines

**PHOSPHORUS IODIDES**

\*BT1 iodides  
 BT1 phosphorus compounds

**PHOSPHORUS IONS**

\*BT1 ions

**PHOSPHORUS ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 phosphorus 21  
 NT1 phosphorus 24  
 NT1 phosphorus 25  
 NT1 phosphorus 26  
 NT1 phosphorus 27  
 NT1 phosphorus 28  
 NT1 phosphorus 29  
 NT1 phosphorus 30  
 NT1 phosphorus 31  
 NT1 phosphorus 32  
 NT1 phosphorus 33  
 NT1 phosphorus 34  
 NT1 phosphorus 35  
 NT1 phosphorus 36  
 NT1 phosphorus 37  
 NT1 phosphorus 38  
 NT1 phosphorus 39  
 NT1 phosphorus 40  
 NT1 phosphorus 41  
 NT1 phosphorus 42  
 NT1 phosphorus 43  
 NT1 phosphorus 44  
 NT1 phosphorus 45  
 NT1 phosphorus 46

**PHOSPHORUS NITRIDES**

\*BT1 nitrides  
 BT1 phosphorus compounds

**PHOSPHORUS OXIDES**

\*BT1 oxides  
 BT1 phosphorus compounds

**PHOSPHORUS SULFIDES**

BT1 phosphorus compounds  
 \*BT1 sulfides

**phosphorylases**

USE phosphotransferases

**PHOSPHORYLATION**

BT1 chemical reactions

**PHOSPHOTRANSFERASES**

1996-11-13

Code numbers 2.7.1 to 2.7.6 and 2.7.8 to 2.7.9.

UF kinases  
 UF kinases (phosphotransferases)  
 UF phosphorylases  
 UF streptidine kinase  
 \*BT1 phosphorus-group transferases  
 NT1 hexokinase  
 RT phosphoproteins

**phosphotungstic acid**

USE tungstophosphoric acid

**phosphowolframic acid**

USE tungstophosphoric acid

**phosphuranylite**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE phosphate minerals  
 USE uranium minerals

**photo-induced transient spectroscopy**

INIS: 2000-04-12; ETDE: 1983-03-23

A transport technique which detects the transient rise or decay of a photocurrent during chopped illumination.

(Prior to March 1997 this was a valid ETDE descriptor.)

USE spectroscopy

**PHOTOACOUSTIC EFFECT**

INIS: 1980-09-12; ETDE: 1979-08-07

RT acoustics  
 RT phonons  
 RT photoacoustic spectrometers  
 RT photoacoustic spectroscopy  
 RT radiation effects

**PHOTOACOUSTIC SPECTROMETERS**

INIS: 1978-02-23; ETDE: 1978-05-01

UF optoacoustic cells  
 UF spectrophones  
 \*BT1 infrared spectrometers  
 RT absorption spectroscopy  
 RT gas analysis  
 RT photoacoustic effect  
 RT photoacoustic spectroscopy

**PHOTOACOUSTIC SPECTROSCOPY**

INIS: 1986-04-03; ETDE: 1978-07-06

BT1 spectroscopy  
 RT photoacoustic effect  
 RT photoacoustic spectrometers

**PHOTOANODES**

INIS: 1992-02-22; ETDE: 1979-02-23

\*BT1 anodes  
 RT photocathodes

**PHOTOCATALYSIS**

2006-03-31

BT1 catalysis  
 RT catalysts

**PHOTOCATHODES**

INIS: 1980-11-07; ETDE: 1977-06-30

\*BT1 cathodes  
 RT photoanodes  
 RT photocurrents  
 RT photoelectric effect  
 RT photoemission  
 RT quantum efficiency

**photocells**

USE photoelectric cells

**PHOTOCHEMICAL ENERGY STORAGE**

INIS: 2000-04-12; ETDE: 1979-10-23

\*BT1 energy storage  
 RT photochemical reactions  
 RT photochemistry  
 RT photoelectrochemical cells  
 RT photosynthesis  
 RT solar photochemistry

**PHOTOCHEMICAL OXIDANTS**

INIS: 2000-04-12; ETDE: 1976-02-19

RT photochemistry  
 RT smog

**PHOTOCHEMICAL REACTIONS**

INIS: 1992-03-18; ETDE: 1977-06-30

BT1 chemical reactions  
 NT1 photolysis  
 NT2 biophotolysis  
 NT1 photosynthesis  
 RT atmospheric chemistry  
 RT hydrogen transfer  
 RT photochemical energy storage  
 RT photochemistry  
 RT photoelectrochemical cells

RT photosynthetic membranes

## PHOTOCHEMISTRY

BT1 chemistry  
 NT1 solar photochemistry  
 RT atmospheric chemistry  
 RT bioluminescence  
 RT photochemical energy storage  
 RT photochemical oxidants  
 RT photochemical reactions  
 RT photoelectrochemical cells  
 RT photolysis  
 RT photosynthesis  
 RT radiation chemistry  
 RT reaction intermediates

## PHOTOCHROMIC MATERIALS

INIS: 2000-04-12; ETDE: 1976-04-19

Materials that change in color when exposed to visible or near-visible radiant energy.

BT1 materials  
 RT dyes

## PHOTOCONDUCTIVE CELLS

\*BT1 photoelectric cells  
 RT photoconductivity

## PHOTOCONDUCTIVITY

\*BT1 electric conductivity  
 RT photoconductive cells  
 RT photoconductors  
 RT photocurrents  
 RT traps

## PHOTOCONDUCTORS

RT electric conductors  
 RT photoconductivity  
 RT photodetectors  
 RT photoelectric cells  
 RT semiconductor materials

## PHOTOCOPYING

INIS: 2000-04-12; ETDE: 1980-08-12

RT image processing  
 RT photography

## PHOTOCURRENTS

INIS: 1985-03-19; ETDE: 1981-12-14

\*BT1 electric currents  
 RT photocathodes  
 RT photoconductivity  
 RT photoelectric cells  
 RT photoelectric effect  
 RT photoelectrochemical cells  
 RT photovoltaic cells  
 RT scanning light microscopy

## PHOTODETECTORS

RT photoconductors  
 RT photodiodes  
 RT photoelectric cells  
 RT phototransistors

## PHOTODIODES

\*BT1 semiconductor diodes  
 RT photodetectors  
 RT photoelectric cells  
 RT phototransistors

## photodisintegration

USE photonuclear reactions

## PHOTOELASTICITY

\*BT1 elasticity  
 RT homalite  
 RT materials testing  
 RT stress analysis

## PHOTOELECTRIC CELLS

UF photocells  
 BT1 direct energy converters  
 NT1 photoconductive cells  
 NT1 photovoltaic cells

NT2 solar cells

NT3 aluminium arsenide solar cells  
 NT3 back contact solar cells  
 NT3 cadmium arsenide solar cells  
 NT3 cadmium selenide solar cells  
 NT3 cadmium sulfide solar cells  
 NT3 cadmium telluride solar cells  
 NT3 cascade solar cells  
 NT3 concentrator solar cells  
 NT3 copper oxide solar cells  
 NT3 copper selenide solar cells  
 NT3 copper sulfide solar cells  
 NT3 gallium arsenide solar cells  
 NT3 gallium phosphide solar cells  
 NT3 indium phosphide solar cells  
 NT3 indium selenide solar cells  
 NT3 mi solar cells  
 NT3 mis solar cells  
 NT3 mos solar cells  
 NT3 ms solar cells  
 NT3 organic solar cells  
 NT3 pis solar cells  
 NT3 ps solar cells  
 NT3 schottky barrier solar cells  
 NT3 selenium solar cells  
 NT3 silicon arsenide solar cells  
 NT3 silicon solar cells  
 NT4 soc solar cells  
 NT3 zinc phosphide solar cells  
 NT3 zinc sulfide solar cells

RT image tubes  
 RT photoconductors  
 RT photocurrents  
 RT photodetectors  
 RT photodiodes  
 RT photomultipliers  
 RT phototransistors  
 RT phototubes  
 RT semiconductor devices

## PHOTOELECTRIC EFFECT

UF photoelectromagnetic effect  
 UF photomagnetolectric effect  
 NT1 photoelectric emission  
 NT1 photovoltaic effect  
 RT fowler-nordheim theory  
 RT photocathodes  
 RT photocurrents

## PHOTOELECTRIC EMISSION

\*BT1 electron emission  
 BT1 photoelectric effect  
 RT photoelectron counting  
 RT quantum efficiency

## PHOTOELECTROCHEMICAL CELLS

INIS: 1992-02-22; ETDE: 1979-03-05

BT1 electrochemical cells  
 NT1 photogalvanic cells  
 RT electrochemistry  
 RT photochemical energy storage  
 RT photochemical reactions  
 RT photochemistry  
 RT photocurrents  
 RT photovoltaic cells  
 RT solar equipment

## PHOTOELECTROLYSIS

INIS: 2000-04-12; ETDE: 1978-02-14

A room-temperature electrolytic decomposition of water that is powered by radiant energy.

UF photoelectrolytic cells  
 \*BT1 electrolysis  
 RT hydrogen production  
 RT solar energy conversion

## photoelectrolytic cells

INIS: 2000-04-12; ETDE: 1978-02-14

Electrolytic cells with photovoltage generating electrodes for photoelectrolysis of the electrolyte.

(Prior to March 1997 this was a valid ETDE descriptor.)

USE electrolytic cells  
 USE photoelectrolysis

## photoelectromagnetic effect

INIS: 1984-04-04; ETDE: 1981-05-18

(Prior to January 1995, this was a valid ETDE descriptor.)

USE magnetic fields  
 USE photoelectric effect

## PHOTOELECTRON COUNTING

INIS: 1976-08-17; ETDE: 1976-11-01

BT1 counting techniques  
 RT photoelectric emission

## PHOTOELECTRON SPECTROSCOPY

\*BT1 electron spectroscopy  
 NT1 x-ray photoelectron spectroscopy  
 RT electronic structure  
 RT molecular structure

## PHOTOEMISSION

Photon-induced emission.

\*BT1 secondary emission  
 RT photocathodes

## PHOTOFISSION

\*BT1 fission  
 \*BT1 photonuclear reactions

## PHOTO GALVANIC CELLS

INIS: 2000-04-12; ETDE: 1975-09-11

\*BT1 photoelectrochemical cells

## PHOTOGRAPHIC EMULSIONS

1999-07-05

\*BT1 emulsions  
 RT latent images  
 RT photographic film dosimeters

## PHOTOGRAPHIC FILM DETECTORS

UF track detectors (photographic)  
 \*BT1 radiation detectors  
 RT neutron-photon converters  
 RT nuclear emulsions  
 RT photographic film dosimeters  
 RT photographic films

## PHOTOGRAPHIC FILM DOSEMETERS

UF film badges  
 UF film dosimeters  
 \*BT1 dosimeters  
 RT film dosimetry  
 RT nuclear emulsions  
 RT photographic emulsions  
 RT photographic film detectors

## PHOTOGRAPHIC FILMS

RT image scanners  
 RT images  
 RT latent images  
 RT nuclear emulsions  
 RT photographic film detectors

## photographs

USE images

## PHOTOGRAPHY

NT1 cinematography  
 NT1 multispectral photography  
 NT1 photomicrography  
 NT1 schlieren method

**NT1** streak photography  
**NT1** ultrahigh-speed photography  
*RT* cameras  
*RT* developers  
*RT* holography  
*RT* image processing  
*RT* photocopying  
*RT* xerography

**PHOTOIONIZATION**

**BT1** ionization

**PHOTOLUMINESCENCE**

\***BT1** luminescence  
*RT* scanning light microscopy

**PHOTOLYSIS**

\***BT1** decomposition  
\***BT1** photochemical reactions  
**NT1** biophotolysis  
*RT* bioconversion  
*RT* dissociation  
*RT* photochemistry  
*RT* radiolysis  
*RT* traps

**photomagnetic effect**

*INIS: 1982-04-14; ETDE: 1982-05-07*  
 USE magnetic susceptibility  
 USE visible radiation

**photomagnetolectric effect**

*INIS: 1982-04-14; ETDE: 1982-05-07*  
 USE magnetic fields  
 USE photoelectric effect

**PHOTOMETERS**

**BT1** measuring instruments  
**NT1** densitometers  
*RT* photometry  
*RT* pyranometers

**PHOTOMETRY**

**NT1** flame photometry  
*RT* densitometers  
*RT* photometers  
*RT* spectrophotometry  
*RT* spectroscopy

**PHOTOMICROGRAPHY**

**BT1** photography  
*RT* ceramography  
*RT* fractography  
*RT* metallography  
*RT* microscopy

**PHOTOMULTIPLIERS**

**BT1** phototubes  
*RT* electron multipliers  
*RT* photoelectric cells  
*RT* scintillation counters

**PHOTON ACTIVATION ANALYSIS**

*INIS: 1978-11-24; ETDE: 1979-02-27*  
*UF analysis (photon activation)*  
 \***BT1** activation analysis

**PHOTON-ATOM COLLISIONS**

\***BT1** atom collisions  
 \***BT1** photon collisions

**PHOTON-BARYON INTERACTIONS**

\***BT1** photon-hadron interactions  
**NT1** photon-hyperon interactions  
**NT1** photon-nucleon interactions  
**NT2** photon-neutron interactions  
**NT2** photon-proton interactions

**PHOTON BEAMS**

**BT1** beams  
*RT* light sources  
*RT* particle beams  
*RT* photons

*RT* visible radiation

**PHOTON COLLISIONS**

**BT1** collisions  
**NT1** photon-atom collisions  
**NT1** photon-electron collisions  
**NT1** photon-ion collisions  
**NT1** photon-molecule collisions  
**NT1** photon-positron collisions

**PHOTON COMPUTED TOMOGRAPHY**

*INIS: 2000-04-12; ETDE: 1980-05-07*  
 \***BT1** computerized tomography  
*RT* biomedical radiography  
*RT* image scanners

**photon detection (gamma)**

*INIS: 2000-04-12; ETDE: 1979-02-27*  
 USE gamma detection

**photon detection (x-ray)**

*INIS: 2000-04-12; ETDE: 1979-02-27*  
 USE x-ray detection

**photon-deuteron interactions**

(Prior to March 1997 this was a valid ETDE descriptor.)  
 USE photon-neutron interactions  
 USE photon-proton interactions

**PHOTON-ELECTRON COLLISIONS**

*ETDE: 1989-02-10*  
 \***BT1** electron collisions  
 \***BT1** photon collisions

**PHOTON-ELECTRON INTERACTIONS**

\***BT1** photon-lepton interactions

**PHOTON EMISSION**

*Emission of photons.*

**BT1** emission  
**NT1** luminescence  
**NT2** bioluminescence  
**NT2** cathodoluminescence  
**NT2** chemiluminescence  
**NT2** electroluminescence  
**NT2** fluorescence  
**NT3** resonance fluorescence  
**NT2** lyoluminescence  
**NT2** phosphorescence  
**NT2** photoluminescence  
**NT2** radioluminescence  
**NT3** radiothermoluminescence  
**NT2** thermoluminescence  
**NT3** radiothermoluminescence  
**NT1** superradiance  
*RT* multi-photon processes  
*RT* secondary emission

**PHOTON EMISSION SCANNING**

*INIS: 1986-04-03; ETDE: 1979-05-09*  
**BT1** diagnostic techniques  
**NT1** ecat scanning  
*RT* emission computed tomography  
*RT* photons

**PHOTON-HADRON INTERACTIONS**

\***BT1** electromagnetic interactions  
 \***BT1** particle interactions  
**NT1** photon-baryon interactions  
**NT2** photon-hyperon interactions  
**NT2** photon-nucleon interactions  
**NT3** photon-neutron interactions  
**NT3** photon-proton interactions  
**NT1** photon-meson interactions

**PHOTON-HYPERON INTERACTIONS**

\***BT1** photon-baryon interactions

**PHOTON-ION COLLISIONS**

\***BT1** ion collisions  
 \***BT1** photon collisions

**PHOTON-LEPTON INTERACTIONS**

\***BT1** particle interactions  
**NT1** photon-electron interactions  
**NT1** photon-muon interactions  
**NT1** photon-neutrino interactions  
*RT* electromagnetic interactions  
*RT* weak interactions

**PHOTON-MESON INTERACTIONS**

\***BT1** photon-hadron interactions

**PHOTON-MOLECULE COLLISIONS**

\***BT1** molecule collisions  
 \***BT1** photon collisions

**PHOTON-MUON INTERACTIONS**

\***BT1** photon-lepton interactions

**PHOTON-NEUTRINO INTERACTIONS**

\***BT1** photon-lepton interactions

**PHOTON-NEUTRON INTERACTIONS**

*UF photon-deuteron interactions*  
 \***BT1** photon-nucleon interactions

**PHOTON-NUCLEON INTERACTIONS**

\***BT1** photon-baryon interactions  
**NT1** photon-neutron interactions  
**NT1** photon-proton interactions

**photon-photon collisions**

*ETDE: 2002-04-26*  
 USE photon-photon interactions

**PHOTON-PHOTON INTERACTIONS**

*UF photon-photon collisions*  
 \***BT1** electromagnetic interactions  
 \***BT1** particle interactions  
*RT* equivalent-photon approximation

**PHOTON-POSITRON COLLISIONS**

\***BT1** photon collisions  
 \***BT1** positron collisions

**PHOTON-PROTON INTERACTIONS**

*UF photon-deuteron interactions*  
 \***BT1** photon-nucleon interactions

**PHOTON TEMPERATURE**

*UF temperature (photon)*  
*RT* energy  
*RT* photons

**PHOTON TRANSMISSION SCANNING**

*UF gamma transmission scanning*  
*UF x-ray transmission scanning*  
**BT1** diagnostic techniques  
*RT* biomedical radiography  
*RT* single photon emission computed tomography

**PHOTON TRANSPORT**

*UF transport (gamma)*  
*UF transport (photon)*  
 \***BT1** neutral-particle transport  
*RT* gamma transport theory

**PHOTONEUTRONS**

\***BT1** neutrons  
 \***BT1** photonucleons  
*RT* peierls method  
*RT* photonuclear reactions

**PHOTONS**

**BT1** bosons

\*BT1 massless particles  
 NT1 cosmic photons  
 RT delayed gamma radiation  
 RT electromagnetic radiation  
 RT gamma radiation  
 RT photon beams  
 RT photon emission scanning  
 RT photon temperature  
 RT prompt gamma radiation  
 RT tagged photon method  
 RT x radiation

**PHOTONUCLEAR REACTIONS**

UF *gamma reactions*  
 UF *photodisintegration*  
 BT1 nuclear reactions  
 NT1 photofission  
 RT giant resonance  
 RT giant resonance model  
 RT photon neutrons  
 RT photonucleons  
 RT photoproduction  
 RT photoprotons

**PHOTONUCLEONS**

\*BT1 nucleons  
 NT1 photon neutrons  
 NT1 photoprotons  
 RT photonuclear reactions

**PHOTOPERIOD**

INIS: 2000-04-12; ETDE: 1977-08-09  
*The number of daylight hours best suited to the growth and maturation of an organism.*  
 RT daily variations  
 RT visible radiation

**PHOTOPRODUCTION**

\*BT1 electromagnetic interactions  
 \*BT1 particle interactions  
 BT1 particle production  
 NT1 primakoff effect  
 RT drell model  
 RT electric born model  
 RT kroll-ruderman theorem  
 RT levinger-bethe theory  
 RT panofsky ratio  
 RT photonuclear reactions

**PHOTOPROTONS**

\*BT1 photonucleons  
 \*BT1 protons  
 RT photonuclear reactions

**photoreactivating enzyme**

2004-09-16  
 USE enzymes  
 USE photoreactivation

**PHOTOREACTIVATION**

UF *photoreactivating enzyme*  
 UF *pre (photoreactivating enzyme)*  
 \*BT1 biological repair  
 RT microorganisms  
 RT molecular structure  
 RT nucleic acids  
 RT radiation injuries  
 RT ultrastructural changes  
 RT ultraviolet radiation  
 RT visible radiation

**PHOTORESISTORS**

\*BT1 resistors

**PHOTOSENSITIVITY**

BT1 sensitivity

**PHOTOSPHERE**

\*BT1 solar atmosphere  
 RT chromosphere  
 RT faculae  
 RT solar granulation

RT sun  
 RT sunspots

**PHOTOSYNTHESIS**

1997-06-19  
 (From August 1978 till February 1997 BIOMIMETIC PROCESSES was a valid ETDE descriptor.)  
 SF *biomimetic processes*  
 \*BT1 photochemical reactions  
 BT1 synthesis  
 RT biophotolysis  
 RT biosynthesis  
 RT c4 species  
 RT calvin cycle species  
 RT carbon cycle  
 RT carbon dioxide fixation  
 RT chlorophyll  
 RT chloroplasts  
 RT leaves  
 RT phosphoenolpyruvate  
 RT photochemical energy storage  
 RT photochemistry  
 RT photosynthetic bacteria  
 RT photosynthetic membranes  
 RT photosynthetic reaction centers  
 RT phycobilisomes  
 RT plastoquinone  
 RT ribulose diphosphate carboxylase  
 RT thylakoid membrane proteins

**PHOTOSYNTHETIC BACTERIA**

INIS: 1993-07-16; ETDE: 1978-04-06  
 \*BT1 bacteria  
 NT1 rhodospseudomonas  
 NT1 rhodospirillum  
 RT photosynthesis

**PHOTOSYNTHETIC MEMBRANES**

INIS: 1993-08-05; ETDE: 1980-02-11  
 BT1 membranes  
 RT chlorophyll-binding proteins  
 RT photochemical reactions  
 RT photosynthesis  
 RT photosynthetic reaction centers  
 RT phycobiliproteins  
 RT thylakoid membrane proteins

**PHOTOSYNTHETIC REACTION CENTERS**

INIS: 2000-04-12; ETDE: 1982-07-08  
 NT1 chlorophyll-binding proteins  
 RT chlorophyll  
 RT cytochromes  
 RT photosynthesis  
 RT photosynthetic membranes  
 RT phycobilins

**PHOTOTRANSISTORS**

\*BT1 transistors  
 RT photodetectors  
 RT photodiodes  
 RT photoelectric cells

**PHOTOTUBES**

NT1 photomultipliers  
 RT electron tubes  
 RT photoelectric cells

**PHOTOVOLTAIC CELLS**

\*BT1 photoelectric cells  
 NT1 solar cells  
 NT2 aluminium arsenide solar cells  
 NT2 back contact solar cells  
 NT2 cadmium arsenide solar cells  
 NT2 cadmium selenide solar cells  
 NT2 cadmium sulfide solar cells  
 NT2 cadmium telluride solar cells  
 NT2 cascade solar cells  
 NT2 concentrator solar cells  
 NT2 copper oxide solar cells

NT2 copper selenide solar cells  
 NT2 copper sulfide solar cells  
 NT2 gallium arsenide solar cells  
 NT2 gallium phosphide solar cells  
 NT2 indium phosphide solar cells  
 NT2 indium selenide solar cells  
 NT2 mi solar cells  
 NT2 mis solar cells  
 NT2 mos solar cells  
 NT2 ms solar cells  
 NT2 organic solar cells  
 NT2 pis solar cells  
 NT2 ps solar cells  
 NT2 schottky barrier solar cells  
 NT2 selenium solar cells  
 NT2 silicon arsenide solar cells  
 NT2 silicon solar cells  
 NT3 soc solar cells  
 NT2 zinc phosphide solar cells  
 NT2 zinc sulfide solar cells  
 RT combined collectors  
 RT photocurrents  
 RT photoelectrochemical cells  
 RT photovoltaic conversion  
 RT photovoltaic effect  
 RT semiconductor diodes  
 RT solar cell arrays  
 RT thermophotovoltaic converters

**PHOTOVOLTAIC CONVERSION**

1982-12-07  
 \*BT1 direct energy conversion  
 RT organic solar cells  
 RT photovoltaic cells  
 RT thermophotovoltaic conversion

**PHOTOVOLTAIC EFFECT**

UF *riehl-schon model*  
 BT1 photoelectric effect  
 RT energy conversion  
 RT photovoltaic cells

**PHOTOVOLTAIC POWER PLANTS**

INIS: 1992-05-29; ETDE: 1975-09-11  
 \*BT1 solar power plants  
 RT microgeneration  
 RT photovoltaic power supplies  
 RT solar cell arrays

**PHOTOVOLTAIC POWER SUPPLIES**

INIS: 1992-05-29; ETDE: 1979-03-27  
*Solar cells or arrays with associated circuitry for small-scale or dispersed applications.*

\*BT1 power supplies  
 \*BT1 solar equipment  
 RT natural bridges national monument  
 RT photovoltaic power plants  
 RT solar cell arrays  
 RT solar cells

**PHTHALATES**

BT1 carboxylic acid salts  
 RT phthalic acid esters

**PHTHALAZINES**

\*BT1 pyridazines  
 NT1 luminol

**PHTHALIC ACID**

UF *benzenedicarboxylic acid-ortho*  
 UF *naphthalic acid*  
 \*BT1 dicarboxylic acids  
 RT bromosulfophthalein  
 RT eosin  
 RT fluorescein  
 RT phenolphthalein  
 RT rhodamines  
 RT rose bengal

**PHTHALIC ACID ESTERS**

\*BT1 esters  
 RT phthalates



**PHTHALOCYANINES**

- BT1 dyes  
 \*BT1 heterocyclic compounds  
 RT copper complexes

**PHWR TYPE REACTORS**

- UF *pressurized heavy water cooled/moderated reactor*  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 NT1 agesta reactor  
 NT1 atucha-2 reactor  
 NT1 atucha reactor  
 NT1 bruce-1 reactor  
 NT1 bruce-2 reactor  
 NT1 bruce-3 reactor  
 NT1 bruce-4 reactor  
 NT1 bruce-5 reactor  
 NT1 bruce-6 reactor  
 NT1 bruce-7 reactor  
 NT1 bruce-8 reactor  
 NT1 cernavoda-1 reactor  
 NT1 cordoba reactor  
 NT1 cvtr reactor  
 NT1 darlington-1 reactor  
 NT1 darlington-2 reactor  
 NT1 darlington-3 reactor  
 NT1 darlington-4 reactor  
 NT1 douglas point ontario reactor  
 NT1 gentilly-2 reactor  
 NT1 kaiga-1 reactor  
 NT1 kaiga-2 reactor  
 NT1 kaiga-3 reactor  
 NT1 kaiga-4 reactor  
 NT1 kakrapar-1 reactor  
 NT1 kakrapar-2 reactor  
 NT1 kalpakkam-1 reactor  
 NT1 kalpakkam-2 reactor  
 NT1 kanupp reactor  
 NT1 mzfr reactor  
 NT1 narora-1 reactor  
 NT1 narora-2 reactor  
 NT1 npd reactor  
 NT1 pickering-1 reactor  
 NT1 pickering-2 reactor  
 NT1 pickering-3 reactor  
 NT1 pickering-4 reactor  
 NT1 pickering-5 reactor  
 NT1 pickering-6 reactor  
 NT1 pickering-7 reactor  
 NT1 pickering-8 reactor  
 NT1 point lepreau-1 reactor  
 NT1 point lepreau-2 reactor  
 NT1 rajasthan-1 reactor  
 NT1 rajasthan-2 reactor  
 NT1 rajasthan-3 reactor  
 NT1 rajasthan-4 reactor  
 NT1 rajasthan-5 reactor  
 NT1 rajasthan-6 reactor  
 NT1 tarapur-3 reactor  
 NT1 tarapur-4 reactor  
 NT1 wolsung-1 reactor  
 NT1 wolsung-2 reactor  
 NT1 wolsung-3 reactor  
 NT1 wolsung-4 reactor  
 RT power reactors

**PHYCOBILINS**

- INIS: 2000-04-12; ETDE: 1987-04-24  
 BT1 pigments  
 RT photosynthetic reaction centers  
 RT phycobiliproteins

**PHYCOBILIPROTEINS**

- INIS: 1997-06-19; ETDE: 1987-04-10  
 \*BT1 thylakoid membrane proteins  
 NT1 phycocyanin  
 RT photosynthetic membranes  
 RT phycobilins  
 RT phycobilisomes

RT pigments

**PHYCOBILISOMES**

- INIS: 2000-04-12; ETDE: 1982-03-10  
 BT1 cell constituents  
 RT algae  
 RT photosynthesis  
 RT phycobiliproteins  
 RT phycocyanin  
 RT pigments

**PHYCOCYANIN**

- 1997-06-19  
 \*BT1 phycobiliproteins  
 BT1 pigments  
 RT phycobilisomes

**phycomyces**

- 1997-01-28  
 (Until October 1996 this was a valid descriptor.)  
 USE eumycota

**PHYSARUM**

- \*BT1 fungi

**physical and technical research reactor moscow**

- 2000-04-12  
 USE rpt reactor

**PHYSICAL CHEMISTRY**

- 1986-04-04  
 BT1 chemistry  
 RT chemical physics

**physical constants test reactor**

- 2000-04-12  
 USE pctr reactor

**physical effort**

- USE exercise

**PHYSICAL METALLURGY**

- INIS: 1977-07-05; ETDE: 1977-10-19  
 BT1 metallurgy  
 RT crystal structure  
 RT mechanical properties  
 RT mechanics  
 RT physical properties  
 RT thermodynamics

**PHYSICAL PROPERTIES**

- UF *properties (physical)*  
 NT1 absorptivity  
 NT1 density  
 NT2 api gravity  
 NT2 bulk density  
 NT1 electrical properties  
 NT2 capacitance  
 NT2 dielectric properties  
 NT3 kerr effect  
 NT3 permittivity  
 NT2 electric conductivity  
 NT3 ionic conductivity  
 NT3 magnetoresistance  
 NT3 photoconductivity  
 NT3 superconductivity  
 NT2 inductance  
 NT2 polarizability  
 NT2 thermoelectric properties  
 NT1 half-thickness  
 NT1 magnetic properties  
 NT2 magnetic susceptibility  
 NT2 magnetostriction  
 NT1 optical properties  
 NT2 brightness  
 NT2 color  
 NT2 emissivity  
 NT2 luminosity  
 NT2 opacity  
 NT2 optical activity

- NT2 reflectivity  
 NT2 refractive index  
 NT2 spectral reflectance  
 NT1 permeability  
 NT1 specific surface area  
 NT1 thermodynamic properties  
 NT2 critical pressure  
 NT2 enthalpy  
 NT3 absorption heat  
 NT3 adsorption heat  
 NT3 mixing heat  
 NT3 reaction heat  
 NT4 combustion heat  
 NT4 dissociation heat  
 NT4 formation heat  
 NT3 solution heat  
 NT3 transition heat  
 NT4 fusion heat  
 NT4 sublimation heat  
 NT4 vaporization heat  
 NT2 entropy  
 NT2 free energy  
 NT3 formation free energy  
 NT3 surface energy  
 NT2 free enthalpy  
 NT3 formation free enthalpy  
 NT3 oxygen potential  
 NT2 partial pressure  
 NT2 specific heat  
 NT3 electronic specific heat  
 NT3 magnetic specific heat  
 NT3 nuclear specific heat  
 NT2 stored energy  
 NT2 thermal conductivity  
 NT2 thermal diffusivity  
 NT2 transition temperature  
 NT3 boiling points  
 NT3 critical temperature  
 NT3 curie point  
 NT3 dew point  
 NT3 lambda point  
 NT3 melting points  
 NT3 neel temperature  
 NT2 vapor pressure  
 RT physical metallurgy  
 RT surface properties  
 RT thermal degradation

**PHYSICAL PROTECTION**

- INIS: 1976-04-03; ETDE: 1978-03-08  
 RT biointrusion  
 RT cppnm  
 RT entry control systems  
 RT human intrusion  
 RT intrusion detection systems  
 RT sabotage  
 RT safeguards  
 RT secrecy protection  
 RT security  
 RT security personnel

**PHYSICAL PROTECTION DEVICES**

- UF *locks (security)*  
 NT1 fences  
 NT1 security seals  
 RT entry control systems  
 RT identification systems  
 RT motion detection systems  
 RT safeguards  
 RT secrecy protection  
 RT security  
 RT theft

**physical protection of nuclear material, convention**

- INIS: 1993-11-09; ETDE: 2002-04-26  
 USE cppnm

**PHYSICAL RADIATION EFFECTS**

- UF *damage (radiation, physical)*

UF radiation damage (physical)  
 BT1 radiation effects  
 NT1 atomic displacements  
 NT1 interstitial helium generation  
 NT1 interstitial hydrogen generation  
 NT1 radiation hardening  
 RT amoeba effect  
 RT damaging neutron fluence  
 RT equivalent fission fluence  
 RT fuel densification  
 RT metamict state  
 RT neutron sputtering  
 RT neutronic damage functions

**PHYSICAL VAPOR DEPOSITION**

INIS: 1992-02-24; ETDE: 1989-10-11

UF pvd  
 \*BT1 surface coating  
 RT cathode sputtering  
 RT vacuum coating  
 RT vacuum evaporation  
 RT vapor deposited coatings  
 RT vapor plating

**PHYSICS**

INIS: 1979-04-27; ETDE: 1976-09-28

Use only for articles of very broad coverage, such as annual reviews, text books, etc.

NT1 astrophysics  
 NT1 atomic physics  
 NT1 biophysics  
 NT1 chemical physics  
 NT1 geophysics  
 NT1 high energy physics  
 NT1 nuclear physics  
 NT1 reactor physics  
 NT1 solid state physics

**PHYSIOLOGY**

NT1 electrophysiology  
 RT anatomy  
 RT antiandrogens  
 RT behavior  
 RT biological functions  
 RT biological stress  
 RT blood-brain barrier  
 RT blood circulation  
 RT body temperature  
 RT digestion  
 RT excretion  
 RT growth  
 RT homeostasis  
 RT hormones  
 RT metabolism  
 RT molecular biology  
 RT reproduction  
 RT respiration  
 RT ripening  
 RT sleep  
 RT thermoregulation  
 RT transpiration

**physostigmine**

ETDE: 1981-04-20  
 USE eserine

**PHYTIC ACID**

\*BT1 lipotropic factors  
 \*BT1 organic acids  
 \*BT1 phosphoric acid esters  
 RT inositol

**phytochrome**

INIS: 1985-07-19; ETDE: 2002-04-26  
 (Prior to August 1985 this was a valid descriptor.)

USE phytochromes

**PHYTOCHROMES**

1985-07-19

(Prior to August 1985 the singular form was used.)

UF phytochrome  
 BT1 pigments  
 \*BT1 proteins  
 NT1 chlorophyll

**PHYTOHEMAGGLUTININ**

\*BT1 hemagglutinins  
 BT1 mitogens  
 \*BT1 mucoproteins  
 RT cell proliferation  
 RT lymphocytes  
 RT mitosis  
 RT phaseolus

**PHYTOPLANKTON**

INIS: 1993-01-29; ETDE: 1977-01-10

(Until January 1993, this concept was indexed by PLANKTON.)

\*BT1 plankton  
 BT1 plants  
 RT algae  
 RT diatoms

**pi-1016 resonances**

2000-04-12

(Prior to August 1988 this was a valid ETDE descriptor.)

USE mesons

**PI-1300 MESONS**

INIS: 1987-12-21; ETDE: 1988-01-29

\*BT1 pseudoscalar mesons

**pi-1640 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE pi2-1670 mesons

**PI-1770 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

\*BT1 pseudoscalar mesons

**pi condensate**

1978-08-14

INIS: 1978-08-14; ETDE: 2002-04-26

USE pion condensation

**PI-K ATOMS**

INIS: 1985-11-19; ETDE: 1985-12-13

A charged pion and an oppositely charged kaon in a Coulomb bound state.

RT bound state  
 RT kaons  
 RT mesic atoms  
 RT pions

**PI-MU ATOMS**

INIS: 1983-02-04; ETDE: 1982-05-24

A charged pion and an oppositely charged muon in a Coulomb bound state.

RT bound state  
 RT mesic atoms  
 RT muonic atoms  
 RT muons  
 RT pions

**PI2-1670 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by PI-1640 RESONANCES; from then until July 1995 it was indexed by PI2-1680 MESONS.)

UF a3 resonances  
 UF pi-1640 resonances  
 UF pi2-1680 mesons  
 \*BT1 tensor mesons

**pi2-1680 mesons**

1995-08-07

INIS: 1995-08-07; ETDE: 1988-02-01  
 (From December 1987 until July 1995 this was a valid term.)

USE pi2-1670 mesons

**PI2-2100 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

\*BT1 tensor mesons

**piace devices**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

USE linear theta pinch devices

**PICEANCE CREEK**

2000-04-12

\*BT1 rivers  
 RT colorado

**PICEANCE CREEK BASIN**

2000-04-12

BT1 watersheds  
 RT colorado  
 RT green river formation  
 RT oil shale deposits

**PICKERING-1 REACTOR**

Pickering, Ontario, Canada.

UF ontario phwr pickering-1 reactor  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 RT pickering site

**PICKERING-2 REACTOR**

Pickering, Ontario, Canada.

UF ontario phwr pickering-2 reactor  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 RT pickering site

**PICKERING-3 REACTOR**

Pickering, Ontario, Canada.

UF ontario phwr pickering-3 reactor  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 RT pickering site

**PICKERING-4 REACTOR**

Pickering, Ontario, Canada.

UF ontario phwr pickering-4 reactor  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 RT pickering site

**PICKERING-5 REACTOR**

1977-11-21

Pickering, Ontario, Canada.

UF ontario phwr pickering-5 reactor  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 RT pickering site

**PICKERING-6 REACTOR**

1977-11-21

Pickering, Ontario, Canada.

UF ontario phwr pickering-6 reactor  
 \*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 RT pickering site

**PICKERING-7 REACTOR**

1977-11-21

Pickering, Ontario, Canada.

UF ontario phwr pickering-7 reactor

\*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 RT pickering site

**PICKERING-8 REACTOR**

1977-11-21

Pickering, Ontario, Canada.

UF ontario phwr pickering-8 reactor

\*BT1 candu type reactors  
 \*BT1 natural uranium reactors  
 \*BT1 phwr type reactors  
 RT pickering site

**PICKERING SITE**

INIS: 1993-01-14; ETDE: 1993-05-06

Pickering, Ontario, Canada.

BT1 reactor sites  
 RT pickering-1 reactor  
 RT pickering-2 reactor  
 RT pickering-3 reactor  
 RT pickering-4 reactor  
 RT pickering-5 reactor  
 RT pickering-6 reactor  
 RT pickering-7 reactor  
 RT pickering-8 reactor

**picket fence**

USE cusped geometries

**PICKLING**

BT1 surface treatments  
 NT1 corrosion pickling

**PICKUP REACTIONS**

\*BT1 transfer reactions

**PICO AMP BEAM CURRENTS**

From 10 exp -12 to 10 exp -9 amp.

\*BT1 beam currents

**PICOLINES**

UF methyl pyridines  
 \*BT1 pyridines  
 NT1 picolinic acid  
 RT pyridoxal

**PICOLINIC ACID**

UF 2-pyridinecarboxylic acid

\*BT1 heterocyclic acids  
 \*BT1 picolines

**PICRIC ACID**

UF picronic acid

UF tnp

UF trinitrophenol

\*BT1 chemical explosives  
 \*BT1 nitro compounds  
 \*BT1 phenols  
 RT organic acids

**picronic acid**

USE picric acid

**PICRYL RADICALS**

BT1 radicals

**PIERCE ELECTRON GUNS**

BT1 electron guns  
 \*BT1 electron sources

**PIERCE INSTABILITY**

1983-09-06

BT1 instability  
 RT beam-plasma systems  
 RT electron beams

**pierrelatte (cea)**

USE cea pierrelatte

**PIES**

INIS: 2000-04-12; ETDE: 1979-02-23

UF project independence evaluation system

BT1 energy models

**PIEZOELECTRICITY**

BT1 electricity

**PIEZOMETRY**

INIS: 1993-03-09; ETDE: 1975-10-01

BT1 pressure measurement  
 RT hydrology  
 RT pore pressure

**pig discharges**

USE penning discharges

**pig ion sources**

USE penning ion sources

**pige analysis**

INIS: 1981-12-23; ETDE: 1982-02-09

Proton-Induced Gamma Emission analysis.

USE nuclear reaction analysis  
 USE prompt gamma radiation  
 USE proton reactions

**PIGEONS**

\*BT1 birds  
 RT fowl

**pigment cells**

USE animal cells  
 USE pigments

**PIGMENTS**

1997-06-19

(Prior to August 1996 ULTRAMARINE was a valid ETDE descriptor.)

UF biliverdin  
 UF india ink  
 UF pigment cells  
 UF ultramarine  
 UF urobilinogen  
 NT1 bilirubin  
 NT1 carotenoids  
 NT1 cytochromes  
 NT1 hematoporphyrins  
 NT1 heme  
 NT1 hemoglobin  
 NT2 methemoglobin  
 NT1 hemosiderin  
 NT1 melanin  
 NT1 molybdenum blue  
 NT1 myoglobin  
 NT1 phycobilins  
 NT1 phycocyanin  
 NT1 phytochromes  
 NT2 chlorophyll  
 NT1 protoporphyrins  
 NT1 rhodopsin  
 RT paints  
 RT phycobiliproteins  
 RT phycobilisomes  
 RT porphyrins

**pigmi**

INIS: 2000-04-12; ETDE: 1981-05-18

(Prior to October 1982, this was a valid ETDE descriptor.)

USE pigmi facilities

**PIGMI FACILITIES**

INIS: 1982-09-21; ETDE: 1982-10-20

UF pigmi  
 UF pion generator for medical irradiations  
 \*BT1 meson factories  
 RT accelerator facilities  
 RT irradiation devices  
 RT linear accelerators  
 RT quadrupole linacs

**pigs**

USE swine

**PIK PHYSICAL MODEL REACTOR**

INIS: 2000-04-12; ETDE: 1999-09-21

Petersburg Nuclear Physics Institute, St. Petersburg, Russian Federation.

\*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**PIK REACTOR**

INIS: 1999-09-24; ETDE: 1999-11-30

Petersburg Nuclear Physics Institute, St. Petersburg, Russian Federation.

\*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**pikas**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE mammals

**PILE NEUTRONS**

\*BT1 neutrons

**PILE OSCILLATION TECHNIQUES**

UF oscillation techniques (pile)  
 RT reactivity  
 RT reactor oscillators

**PILE REPLACEMENT TECHNIQUES**

UF substitution techniques  
 RT reactivity

**piles**

INIS: 2000-04-12; ETDE: 1977-03-08

USE foundations

**PILGRIM-1 REACTOR**

Entergy Nuclear Generation Co., Plymouth, Massachusetts, USA.

UF pilgrim reactor

UF plymouth pilgrim power reactor

\*BT1 bwr type reactors

**PILGRIM-2 REACTOR**

Boston Edison Co., Plymouth, Massachusetts, USA. Canceled in 1981 before construction began.

\*BT1 pwr type reactors

**PILGRIM-3 REACTOR**

Boston Edison Co., Plymouth, Massachusetts, USA. Canceled in 1974 before construction began.

\*BT1 pwr type reactors

**pilgrim reactor**

1990-12-07

(Prior to December 1990, this was a valid descriptor.)

USE pilgrim-1 reactor

**PILOCARPINE**

\*BT1 alkaloids  
 \*BT1 parasympathomimetics

**PILOT PLANTS**

UF plants (pilot)  
 BT1 functional models  
 NT1 barstow solar pilot plant  
 NT1 wipp  
 RT demonstration plants  
 RT hef  
 RT industrial plants  
 RT mockup  
 RT pamela plant  
 RT process development units

**pimephales promelas**

INIS: 1993-07-14; ETDE: 1984-08-20

USE fathead minnow

**pin stripe event**

2000-04-12

A test made during OPERATION

FLINTLOCK.

(Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions

USE underground explosions

**PINACOL**

UF tetramethylethylene glycol

\*BT1 glycols

**PINCH DEVICES**

UF grom devices

UF test devices

BT1 thermonuclear devices

NT1 field-reversed theta pinch devices

NT1 linear pinch devices

NT2 linear hard core pinch devices

NT2 linear screw pinch devices

NT2 linear theta pinch devices

NT3 isar devices

NT3 scylla devices

NT2 linear z pinch devices

NT1 toroidal pinch devices

NT2 reversed-field pinch devices

NT3 artemis device

NT3 extrap-t2 device

NT3 hbtX devices

NT3 mst device

NT3 rfx device

NT3 tpe-1rm15 device

NT3 tpe-rx device

NT3 zt-40 devices

NT3 zt-p devices

NT2 tlp devices

NT3 zeta devices

NT2 toroidal screw pinch devices

NT3 stp-3m device

NT3 tpe-2 device

NT2 toroidal theta pinch devices

NT3 scyllac devices

RT limiters

RT pinch effect

**PINCH EFFECT**

NT1 hard core pinch

NT1 longitudinal pinch

NT2 belt pinch

NT1 reverse-field pinch

NT1 screw pinch

NT1 theta pinch

RT limiters

RT magnetic compression

RT magnetic field configurations

RT pinch devices

RT plasma

RT plasma filament

RT plasma focus

**PINEAL GLAND**

UF epiphysis (pineal gland)

\*BT1 glands

RT brain

RT endocrine glands

RT melatonin

**PINEAPPLES**

INIS: 1993-07-16; ETDE: 1981-04-17

\*BT1 fruits

**PINELLAS PLANT**

INIS: 1977-09-06; ETDE: 1976-11-17

\*BT1 us doe

\*BT1 us erda

RT florida

**PINES**

\*BT1 conifers

\*BT1 trees

**PINES-BOHM THEORY**

UF bohm-pines theory

RT electron gas

**pinning force**

USE magnetic flux

**PINNIPEDS**

INIS: 1993-05-04; ETDE: 1982-02-08

Fin-footed carnivores.

UF seals (mammals)

BT1 aquatic organisms

\*BT1 mammals

**PINOPHYTA**

INIS: 1992-02-05; ETDE: 1989-01-09

UF gymnosperms

BT1 plants

NT1 conifers

NT2 cedars

NT2 firs

NT2 hemlocks

NT2 larches

NT2 pines

NT2 spruces

**pins (fuel)**

USE fuel pins

**PION BEAMS**

\*BT1 meson beams

**PION CONDENSATION**

INIS: 1978-08-14; ETDE: 1977-06-21

UF pi condensate

RT bose-einstein condensation

RT nuclear matter

RT pions

**PION DETECTION**

\*BT1 radiation detection

RT pion dosimetry

**pion-deuteron interactions**

Use the descriptors below or more specific NTs in their wordblocks.

(Prior to May 1996 this was a valid ETDE descriptor.)

USE pion-neutron interactions

USE pion-proton interactions

**PION DOSIMETRY**

BT1 dosimetry

RT pion detection

**pion-exchange model**

USE ope model

**pion generator for medical irradiations**

INIS: 1993-11-09; ETDE: 1981-05-18

USE pigmi facilities

**PION-HYPERON INTERACTIONS**

\*BT1 meson-hyperon interactions

**PION-KAON INTERACTIONS**

\*BT1 meson-meson interactions

**pion minus-deuteron interactions**

2000-04-12

(From February 1975 till May 1996 PION-DEUTERON INTERACTIONS was used for this concept in ETDE.)

USE pion minus-neutron interactions

USE pion minus-proton interactions

**PION MINUS-NEUTRON INTERACTIONS**

INIS: 1977-01-25; ETDE: 1976-07-09

UF pion minus-deuteron interactions

\*BT1 pion-neutron interactions

**PION MINUS-PROTON INTERACTIONS**

INIS: 1977-01-25; ETDE: 1976-07-09

UF pion minus-deuteron interactions

\*BT1 pion-proton interactions

**PION MINUS REACTIONS**

INIS: 1977-01-25; ETDE: 1976-07-09

\*BT1 pion reactions

**PION-NEUTRON INTERACTIONS**

(From February 1975 till May 1996 PION-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

UF pion-deuteron interactions

\*BT1 pion-nucleon interactions

NT1 pion minus-neutron interactions

NT1 pion plus-neutron interactions

**PION-NUCLEON INTERACTIONS**

\*BT1 meson-nucleon interactions

NT1 pion-neutron interactions

NT2 pion minus-neutron interactions

NT2 pion plus-neutron interactions

NT1 pion-proton interactions

NT2 pion minus-proton interactions

NT2 pion plus-proton interactions

**PION-PION INTERACTIONS**

\*BT1 meson-meson interactions

**pion plus-deuteron interactions**

2000-04-12

(From February 1975 till May 1996 PION-DEUTERON INTERACTIONS was used for this concept in ETDE.)

USE pion plus-neutron interactions

USE pion plus-proton interactions

**PION PLUS-NEUTRON INTERACTIONS**

INIS: 1977-01-25; ETDE: 1976-07-09

UF pion plus-deuteron interactions

\*BT1 pion-neutron interactions

**PION PLUS-PROTON INTERACTIONS**

INIS: 1977-01-25; ETDE: 1976-07-09

UF pion plus-deuteron interactions

\*BT1 pion-proton interactions

**PION PLUS REACTIONS**

INIS: 1977-01-25; ETDE: 1976-07-09

\*BT1 pion reactions

**PION-PROTON INTERACTIONS**

(From February 1975 till May 1996 PION-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

UF pion-deuteron interactions

\*BT1 pion-nucleon interactions

NT1 pion minus-proton interactions

NT1 pion plus-proton interactions

**PION REACTIONS**

\*BT1 meson reactions

NT1 pion minus reactions

NT1 pion plus reactions

**PIONEER SPACE PROBES**

\*BT1 space vehicles

**PIONIC ATOMS**

\*BT1 mesic atoms

RT pionium

**PIONIUM**

1985-11-19

*Bound state of pions plus and pions minus.*

RT bound state  
RT kaonium  
RT muonium  
RT pionic atoms  
RT pions minus  
RT pions plus

**PIONIZATION**

\*BT1 multiple production  
RT cluster emission model

**PIONS**

UF *muon-pion interactions*  
\*BT1 pseudoscalar mesons  
NT1 cosmic pions  
NT1 pions minus  
NT1 pions neutral  
NT1 pions plus  
RT abc effect  
RT goldberger-treiman relation  
RT pi-k atoms  
RT pi-mu atoms  
RT pion condensation

**PIONS MINUS**

\*BT1 pions  
RT pionium

**PIONS NEUTRAL**

\*BT1 pions  
RT primakoff effect

**PIONS PLUS**

\*BT1 pions  
RT pionium

**PIPE FITTINGS**

RT expansion joints  
RT nozzles  
RT orifices  
RT pipelines  
RT pipes  
RT plumbing  
RT pressure vessels  
RT restraints  
RT seals  
RT valves  
RT water faucets

**PIPE JOINTS**

BT1 joints  
RT expansion joints  
RT plumbing

**pipe restraints**

INIS: 1981-02-27; ETDE: 1981-03-16

USE restraints

**PIPE WHIP**

INIS: 1984-01-18; ETDE: 1991-03-08

*Large amplitude mechanical motion of a pipe due to changes in the flow of the fluid in the pipe.*

RT dynamic loads  
RT pipes  
RT steam lines

**pipeline quality gas**

2000-04-12

USE high btu gas

**PIPELINES**

(From April 1978 to February 1997 FREIGHT PIPELINES was a valid ETDE descriptor.)

UF *freight pipelines*  
SF *energy transport*  
SF *transport (energy)*  
NT1 alaska gas pipeline  
NT1 alaska oil pipeline

NT1 arctic gas pipelines

NT1 slurry pipelines

NT1 steam lines

RT gas hydrates

RT hydraulic transport

RT natural gas distribution systems

RT pipe fittings

RT pipes

RT pneumatic transport

RT polar gas project

RT positioning

RT rights-of-way

RT scrapers

RT transport

**PIPERAZINES**

\*BT1 pyrazines  
RT amines

**PIPERIDINES**

UF *hexahydropyridines*  
UF *pentamethyleneimines*  
UF *tmpn*  
\*BT1 amines  
\*BT1 pyridines  
NT1 dipyridamole  
NT1 pethidine  
NT1 triacetoneamine-n-oxyl

**PIPES**

UF *tubes (conduits)*  
BT1 tubes  
NT1 drill pipes  
NT1 marine risers  
NT1 penstocks  
RT borescopes  
RT cylinders  
RT diffusers  
RT ducts  
RT heat pipes  
RT pipe fittings  
RT pipe whip  
RT pipelines  
RT plumbing  
RT restraints  
RT scrapers  
RT well casings

**PIPPARD THEORY**

RT superconductivity

**piqua nuclear power facility**

USE pnpf reactor

**piqua organic moderated reactor**

USE pnpf reactor

**PIRANI GAGES**

\*BT1 hot-wire gages  
\*BT1 vacuum gages

**pircon-peck process**

INIS: 2000-04-12; ETDE: 1980-11-08

*Desulfurization process which uses 'activated' phosphate rock, ammonia, and sulfur dioxide from flue gas to produce ammoniated phosphate fertilizers.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**PIS SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-07-18

UF *polymer-insulator-semiconductor solar cells*

\*BT1 solar cells  
RT organic solar cells

**PISTONS**

INIS: 1993-07-23; ETDE: 1976-01-07

BT1 machine parts  
RT internal combustion engines

**PISUM**UF *pea plant*

\*BT1 leguminosae

RT peas

**pitch (reactor parameters)**

USE reactor lattice parameters

**pitch angle**

USE inclination

**PITCHBLENDE**

\*BT1 uraninites

**PITCHES***The residues from the destructive distillation of tars.*

\*BT1 other organic compounds  
RT tar

**PITOT TUBES**

RT flowmeters

**pits**

INIS: 2000-04-12; ETDE: 1983-03-23

*Photo-induced transient spectroscopy.*

(Prior to March 1997 PHOTO-INDUCED

TRANSIENT SPECTROSCOPY was used for this concept in ETDE.)

USE spectroscopy

**PITTING CORROSION**

\*BT1 corrosion  
RT cathodic protection

**pittsburg-midway solvent refined coal****process**

2000-04-12

USE src process

**PITTSBURGH**

INIS: 1992-07-22; ETDE: 1976-09-14

\*BT1 pennsylvania  
BT1 urban areas

**PITTSBURGH ENERGY TECHNOLOGY CENTER**

INIS: 1995-02-16; ETDE: 1979-03-29

\*BT1 us doe

**pittsburgh oxydesulfurization process**

INIS: 2000-04-12; ETDE: 1978-10-23

*The process, under development at the Pittsburgh Energy Technology Center, removes inorganic and organic sulfur from coal by bubbling air through a pulverized coal and water mixture at high temperature and pressure.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**PITUITARY GLAND**UF *hypophysis*

\*BT1 endocrine glands

RT acromegaly

RT cushing syndrome

RT homeostasis

RT hypophysectomy

RT hypothalamus

RT lactogens

RT pituitary hormones

**PITUITARY HORMONES**

\*BT1 peptide hormones

NT1 acth

NT1 gonadotropins

NT2 fsh

NT2 hcg

NT2 lth

NT2 luteinizing hormone

NT1 liberins

**NT2** lh-rh  
**NT1** oxytocin  
**NT1** sth  
**NT1** tsh  
**NT1** vasopressin  
*RT* hypophysectomy  
*RT* pituitary gland

**PIVALIC ACID**  
*UF* dimethylpropionic acid  
*UF* trimethylacetic acid  
 \*BT1 monocarboxylic acids

**PIXE ANALYSIS**  
*INIS: 1980-09-12; ETDE: 1980-10-07*  
 (Prior to October 1980, this concept in ETDE was indexed to X-RAY EMISSION ANALYSIS.)  
*UF* proton-induced x-ray emission analysis  
 \*BT1 x-ray emission analysis

**PL-1 LANGUAGE**  
 BT1 programming languages

**pl-11 language**  
 1996-07-23  
 (Until July 1996 this was a valid descriptor.)  
 USE programming languages

**PLACENTA**  
 \*BT1 fetal membranes  
*RT* hpl  
*RT* lactogens  
*RT* pregnancy

**PLACERS**  
 BT1 geologic deposits  
*RT* alluvial deposits

**PLACZEC FUNCTION**  
*UF* bethe-placzec model  
 BT1 functions  
*RT* neutron slowing-down theory

**PLAGES**  
 BT1 solar activity  
*RT* chromosphere  
*RT* faculae

**plagioclase**  
*INIS: 2000-04-12; ETDE: 1976-03-31*  
 USE anorthosites

**plagioclasite**  
*INIS: 2000-04-12; ETDE: 1976-03-31*  
 USE anorthosites

**PLAICE**  
 \*BT1 fishes  
*RT* food chains  
*RT* seafood

**plainsboro irl pool type reactor**  
 USE irl reactor

**PLANARIA**  
 \*BT1 turbellaria

**PLANCK LAW**  
*RT* quantum mechanics

**PLANCK RADIATION FORMULA**  
*RT* blackbody radiation  
*RT* thermodynamics

**plane-wave born approximation**  
 USE born approximation

**PLANET-SYSTEM ACCRETION**  
*UF* accretion (planet-system)  
*RT* cosmological models  
*RT* galactic evolution  
*RT* solar system evolution

*RT* star accretion

**PLANETARY ATMOSPHERES**  
*Excludes the concept covered by EARTH ATMOSPHERE.*  
 BT1 atmospheres  
**NT1** planetary ionospheres  
**NT1** planetary magnetospheres

**planetary evolution**  
*INIS: 1976-02-11; ETDE: 1975-11-28*  
*When appropriate, see also PLANETS or descriptors for specific planets.*  
 USE solar system evolution

**PLANETARY IONOSPHERES**  
*INIS: 1978-09-28; ETDE: 1978-10-20*  
*Excludes the Earth's ionosphere for which use IONOSPHERE.*  
 \*BT1 planetary atmospheres

**PLANETARY MAGNETOSPHERES**  
*INIS: 1976-07-30; ETDE: 1976-11-01*  
*Excludes the Earth's magnetosphere.*  
*UF magnetospheres (planetary)*  
 \*BT1 planetary atmospheres  
*RT* earth magnetosphere

**PLANETARY NEBULAE**  
 BT1 nebulae  
*RT* stars

**PLANETS**  
**NT1** earth planet  
**NT2** northern hemisphere  
**NT2** southern hemisphere  
**NT1** jupiter planet  
**NT1** mars planet  
**NT1** mercury planet  
**NT1** neptune planet  
**NT1** pluto planet  
**NT1** saturn planet  
**NT1** uranus planet  
**NT1** venus planet  
*RT* asteroids  
*RT* protoplanets  
*RT* solar system

**PLANKTON**  
*Aquatic organisms that drift or swim weakly.*  
 BT1 aquatic organisms  
**NT1** ichthyoplankton  
**NT1** phytoplankton  
**NT1** zooplankton  
*RT* bacteria  
*RT* biological materials  
*RT* biomass  
*RT* daphnia  
*RT* protozoa  
*RT* surface waters  
*RT* unicellular algae

**planned communities**  
*INIS: 2000-04-12; ETDE: 1977-09-19*  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 SEE communities  
 SEE urban areas

**PLANNING**  
 1996-05-06  
*Projected design of plants or equipment as well as projected human efforts.*  
**NT1** experiment planning  
*RT* advisory committees  
*RT* allocations  
*RT* cancellation  
*RT* computer-aided design  
*RT* construction  
*RT* coordinated research programs  
*RT* decision making  
*RT* decision tree analysis

*RT* delphi method  
*RT* demonstration programs  
*RT* design  
*RT* emergency plans  
*RT* energy policy  
*RT* environmental policy  
*RT* fault tree analysis  
*RT* feasibility studies  
*RT* forecasting  
*RT* government policies  
*RT* implementation  
*RT* optimization  
*RT* organizational models  
*RT* organizing  
*RT* pert method  
*RT* production  
*RT* regional cooperation  
*RT* research programs  
*RT* schedules  
*RT* site selection

**PLANT BREEDING**

*RT* adventitious bud technique  
*RT* disease resistance  
*RT* drought resistance  
*RT* irradiation  
*RT* morphological changes  
*RT* mutagens  
*RT* mutants  
*RT* mutations  
*RT* plant growth  
*RT* productivity  
*RT* progeny  
*RT* radiation induced mutants  
*RT* reproduction  
*RT* silviculture

**PLANT CELLS**

*UF* cell growth (plant)  
*UF* cells (plant)  
*UF* protoplasts  
*RT* cell constituents  
*RT* cell cultures  
*RT* cell flow systems  
*RT* cell wall  
*RT* chloroplasts  
*RT* clone cells  
*RT* cytology  
*RT* delignification  
*RT* in vivo

**PLANT CONDENSATES**

*INIS: 2000-04-12; ETDE: 1979-12-10*  
*Natural gas plant liquids, mostly pentanes and heavier, separated and recovered as liquids at gas inlet separators or scrubbers in natural gas processing plants.*  
 \*BT1 natural gas liquids  
*RT* liquefied petroleum gases

**plant cultivation**

*INIS: 1981-08-31; ETDE: 1981-09-22*  
 USE cultivation techniques

**PLANT DISEASES**

*RT* chlorosis  
*RT* disease incidence  
*RT* disease resistance  
*RT* mildew  
*RT* parasites  
*RT* tobacco mosaic virus

**plant fossils**

*INIS: 1980-09-12; ETDE: 1980-10-07*  
 USE fossils

**PLANT GROWTH**

BT1 growth  
*RT* carbon dioxide fixation  
*RT* drought resistance  
*RT* hydroponic culture

RT kinetin  
 RT nitrogen fixation  
 RT plant breeding  
 RT plants  
 RT sprouting

**PLANT GROWTH REGULATORS**

NT1 abscisic acid  
 NT1 auxins  
 RT kinetin

**PLANT SAP**

INIS: 1993-07-16; ETDE: 1985-06-25

*The fluid that circulates in plants.*

\*BT1 biological materials  
 RT nutrients  
 RT plants  
 RT translocation  
 RT transpiration

**PLANT STEMS**

UF stem (plant)  
 RT bark  
 RT plants  
 RT straw

**PLANT TISSUES**

1996-03-12

SF tissues  
 NT1 bark  
 NT1 endosperm  
 NT1 meristems  
 NT1 mycelium  
 RT animal tissues  
 RT chlorosis

**PLANTS**

1996-04-16

UF vegetation  
 NT1 algae  
 NT2 chlorophycota  
 NT3 acetabularia  
 NT3 chlamydomonas  
 NT3 chlorella  
 NT3 nitella  
 NT3 scenedesmus  
 NT2 chromophycota  
 NT3 diatoms  
 NT3 fucus  
 NT3 laminaria  
 NT2 lichens  
 NT2 rhodophycota  
 NT3 porphyra  
 NT2 ulva  
 NT2 unicellular algae  
 NT3 chlamydomonas  
 NT3 chlorella  
 NT3 euglena  
 NT3 scenedesmus  
 NT1 bryophyta  
 NT2 mosses  
 NT1 c4 species  
 NT1 calvin cycle species  
 NT1 euglenophycota  
 NT2 euglena  
 NT1 ferns  
 NT1 forage  
 NT1 fungi  
 NT2 eumycota  
 NT3 aspergillus  
 NT3 fusarium  
 NT3 lichens  
 NT3 mildew  
 NT3 neurospora  
 NT3 penicillium  
 NT3 phanerochaete  
 NT3 rhizopus  
 NT3 trichoderma  
 NT4 trichoderma viride  
 NT3 ustilago  
 NT3 yeasts

NT4 candida  
 NT4 saccharomyces  
 NT5 saccharomyces cerevisiae  
 NT4 torula  
 NT2 mushrooms  
 NT2 myxomycetes  
 NT2 physarum  
 NT2 polyporus versicolor  
 NT1 herbs  
 NT2 marihuana  
 NT2 meadow foam  
 NT1 magnoliophyta  
 NT2 liliopsida  
 NT3 allium sativum  
 NT3 aloe  
 NT3 banana plants  
 NT3 buckwheat  
 NT3 cattails  
 NT3 coconut palms  
 NT3 gramineae  
 NT4 bamboo  
 NT4 cereals  
 NT5 barley  
 NT5 maize  
 NT5 millet  
 NT5 oats  
 NT5 rice  
 NT5 rye  
 NT5 sorghum  
 NT5 wheat  
 NT4 reeds  
 NT5 sugar cane  
 NT3 lilium  
 NT3 oil palms  
 NT3 onions  
 NT4 allium cepa  
 NT3 tradescantia  
 NT3 water hyacinths  
 NT2 magnoliopsida  
 NT3 arabidopsis  
 NT3 beech trees  
 NT3 beets  
 NT4 sugar beets  
 NT3 birches  
 NT3 brassica  
 NT4 kale  
 NT3 buffalo gourd  
 NT3 cacao trees  
 NT3 cacti  
 NT3 capsicum  
 NT3 carnations  
 NT3 carrots  
 NT3 cassava  
 NT3 chenopodiaceae  
 NT3 chestnut trees  
 NT3 citrus  
 NT3 coffee plants  
 NT3 corchorus  
 NT4 jute  
 NT3 cotton plants  
 NT3 crepis  
 NT3 cucumbers  
 NT3 digitalis  
 NT3 eucalyptuses  
 NT3 euphorbia  
 NT4 castor  
 NT4 milkweed  
 NT4 rubber trees  
 NT5 guayule  
 NT5 hevea  
 NT3 flax plants  
 NT3 jojoba  
 NT3 leguminosae  
 NT4 alfalfa  
 NT4 clover  
 NT4 glycine hispida  
 NT4 locust trees  
 NT4 mesquite  
 NT4 phaseolus

NT4 pisum  
 NT4 vicia  
 NT4 vigna  
 NT3 lettuce  
 NT3 mangroves  
 NT3 maples  
 NT3 marihuana  
 NT3 meadow foam  
 NT3 nicotiana  
 NT3 oaks  
 NT3 olive trees  
 NT3 papaver somniferum  
 NT3 pecan trees  
 NT3 poplars  
 NT4 aspens  
 NT4 cottonwoods  
 NT3 radishes  
 NT3 ranunculaceae  
 NT3 rosaceae  
 NT4 strawberries  
 NT3 sesamum indicum  
 NT3 solanum  
 NT4 solanum tuberosum  
 NT3 spinach  
 NT3 sunflowers  
 NT3 sweet gums  
 NT3 sycamores  
 NT3 tea plants  
 NT3 willows  
 NT3 yams  
 NT1 medicinal plants  
 NT2 aloe  
 NT2 castor  
 NT2 digitalis  
 NT2 papaver somniferum  
 NT1 ornamental plants  
 NT1 phytoplankton  
 NT1 pinophyta  
 NT2 conifers  
 NT3 cedars  
 NT3 firs  
 NT3 hemlocks  
 NT3 larches  
 NT3 pines  
 NT3 spruces  
 NT1 preferred species  
 NT1 seaweeds  
 NT2 fucus  
 NT2 laminaria  
 NT1 shrubs  
 NT2 jojoba  
 NT1 transgenic plants  
 NT1 trees  
 NT2 beech trees  
 NT2 birches  
 NT2 cacao trees  
 NT2 cedars  
 NT2 chestnut trees  
 NT2 coconut palms  
 NT2 deciduous trees  
 NT2 eucalyptuses  
 NT2 firs  
 NT2 fruit trees  
 NT2 locust trees  
 NT2 mangroves  
 NT2 maples  
 NT2 mesquite  
 NT2 oaks  
 NT2 oil palms  
 NT2 olive trees  
 NT2 pecan trees  
 NT2 pines  
 NT2 poplars  
 NT3 aspens  
 NT3 cottonwoods  
 NT2 rubber trees  
 NT3 guayule  
 NT3 hevea  
 NT2 spruces

**NT2** sweet gums  
**NT2** sycamores  
**NT2** willows  
**NT1** vegetables  
**NT2** beans  
**NT3** mungbeans  
**NT2** beets  
**NT3** sugar beets  
**NT2** brassica  
**NT3** kale  
**NT2** carrots  
**NT2** cucumbers  
**NT2** garlic  
**NT2** lettuce  
**NT2** onions  
**NT3** allium cepa  
**NT2** peas  
**NT2** peppers  
**NT2** potatoes  
**NT2** radishes  
**NT2** soybeans  
**NT2** spinach  
**NT2** yams  
**NT1** weeds  
*RT* agriculture  
*RT* alkaloids  
*RT* aquatic organisms  
*RT* biological extinction  
*RT* biological materials  
*RT* biology  
*RT* biomass  
*RT* botany  
*RT* buds  
*RT* bulbs  
*RT* canopies  
*RT* chlorophyll  
*RT* endangered species  
*RT* essential oils  
*RT* fertilizers  
*RT* flowers  
*RT* fruits  
*RT* ground cover  
*RT* interception  
*RT* leaves  
*RT* plant growth  
*RT* plant sap  
*RT* plant stems  
*RT* rangelands  
*RT* renewable energy sources  
*RT* revegetation  
*RT* roots  
*RT* seedlings  
*RT* seeds  
*RT* soils  
*RT* species diversity  
*RT* sprouting  
*RT* stomata  
*RT* symbiosis  
*RT* throughfall  
*RT* translocation  
*RT* transpiration  
*RT* tubers  
*RT* vegetative propagation

**plants (industrial)**

USE industrial plants

**plants (pilot)**

USE pilot plants

**plants (power)**

USE power plants

**PLAQUE FORMATION**

*INIS: 1978-04-21; ETDE: 1978-07-06*

*RT* bacteriophages  
*RT* bioassay  
*RT* clone cells  
*RT* viruses

**PLASMA**

**NT1** ambiplasma  
**NT1** cold plasma  
**NT1** collisional plasma  
**NT1** collisionless plasma  
**NT1** equilibrium plasma  
**NT1** fissioning plasma  
**NT1** high-beta plasma  
**NT1** homogeneous plasma  
**NT1** hot plasma  
**NT1** inhomogeneous plasma  
**NT1** laser-produced plasma  
**NT1** low-beta plasma  
**NT1** medium-beta plasma  
**NT1** non-equilibrium plasma  
**NT1** optically thick plasma  
**NT1** optically thin plasma  
**NT1** quantum plasma  
**NT1** quiescent plasma  
**NT1** relativistic plasma  
**NT1** rotating plasma  
**NT1** solid-state plasma  
**NT2** electron-hole droplets  
*RT* aspect ratio  
*RT* beam-plasma systems  
*RT* bohm criterion  
*RT* boltzmann-vlasov equation  
*RT* bootstrap current  
*RT* breakeven  
*RT* compact torus  
*RT* distribution functions  
*RT* electric arcs  
*RT* gas blankets  
*RT* grad-shafranov equation  
*RT* guiding-center approximation  
*RT* holtmark theory  
*RT* impurities  
*RT* ionic composition  
*RT* ionized gases  
*RT* kinetic equations  
*RT* langmuir frequency  
*RT* loss cone  
*RT* magnetic field configurations  
*RT* magnetic field ripples  
*RT* magnetic islands  
*RT* magnetohydrodynamics  
*RT* mass balance  
*RT* neoclassical transport theory  
*RT* non-inductive current drive  
*RT* pinch effect  
*RT* plasma acceleration  
*RT* plasma confinement  
*RT* plasma density  
*RT* plasma diagnostics  
*RT* plasma diamagnetism  
*RT* plasma drift  
*RT* plasma eaters  
*RT* plasma expansion  
*RT* plasma filament  
*RT* plasma focus  
*RT* plasma heating  
*RT* plasma impurities  
*RT* plasma instability  
*RT* plasma production  
*RT* plasma radial profiles  
*RT* plasma rings  
*RT* plasma scrape-off layer  
*RT* plasma simulation  
*RT* plasma waves  
*RT* plasmoids  
*RT* sawtooth oscillations  
*RT* solar wind  
*RT* spitzer theory  
*RT* voigt effect  
*RT* wall effects

**plasma (blood)**

USE blood plasma

**plasma (quark)**

*INIS: 2000-04-12; ETDE: 1983-09-15*

USE quark matter

**PLASMA ACCELERATION**

**BT1** acceleration  
*RT* plasma  
*RT* plasma guns  
*RT* plasma jets

**plasma accelerators**

USE plasma guns

**PLASMA ARC SPRAYING**

\***BT1** spray coating

**PLASMA ARC WELDING**

\***BT1** arc welding

**PLASMA BEAM INJECTION**

**BT1** beam injection

**PLASMA BETATRONS**

*UF* budker accelerators  
 \***BT1** collective accelerators  
*RT* betatrons

**PLASMA CELLS**

*UF* plasmocytes  
 \***BT1** connective tissue cells  
*RT* bone marrow  
*RT* lymphocytes

**PLASMA CENTRIFUGES**

*INIS: 1985-07-23; ETDE: 1989-09-15*

*UF* vacuum arc centrifuges  
 \***BT1** centrifuges  
*RT* isotope separation

**plasma clearance**

USE blood-plasma clearance

**PLASMA CONFINEMENT**

*1996-04-16*

(Prior to January 1983 this concept was indexed by CONFINEMENT.)

**BT1** confinement  
**NT1** inertial confinement  
**NT1** magnetic confinement  
**NT2** h-mode plasma confinement  
**NT2** l-mode plasma confinement  
*RT* confinement time  
*RT* gas blankets  
*RT* limiters  
*RT* magnetic surfaces  
*RT* marfe  
*RT* mass balance  
*RT* particle losses  
*RT* plasma  
*RT* plasma disruption  
*RT* plateau regime  
*RT* sawtooth oscillations  
*RT* thermal barriers  
*RT* tritium recovery

**PLASMA CORE ASSEMBLY**

*INIS: 1977-04-07; ETDE: 1975-08-19*

*LANL, Los Alamos, New Mexico, USA. Shut down in 1987.*

*UF* lasl cold critical assembly  
*UF* pca-lasl facility  
 \***BT1** gas fueled reactors  
 \***BT1** zero power reactors

**plasma currents**

*ETDE: 2002-04-26*

USE electric currents

**PLASMA DENSITY**

*UF* density (plasma)  
*RT* debye length  
*RT* lawson criterion  
*RT* plasma



RT plasma expansion  
 RT plasma focus  
**PLASMA DIAGNOSTICS**  
 UF *diagnostics (fusion)*  
 RT limiters  
 RT neutral particle analyzers  
 RT plasma  
 RT plasma eaters  
 RT sonic probes

**PLASMA DIAMAGNETISM**  
 \*BT1 diamagnetism  
 RT plasma

**plasma diodes**  
 USE thermionic diodes

**PLASMA DISRUPTION**  
 1983-09-06  
 RT confinement time  
 RT nonlinear problems  
 RT particle losses  
 RT plasma confinement  
 RT plasma macroinstabilities  
 RT sawtooth oscillations  
 RT tearing instability  
 RT tokamak devices

**PLASMA DRIFT**  
 UF *drift (plasma)*  
 RT ambipolar diffusion  
 RT drift instability  
 RT plasma  
 RT plasma expansion  
 RT plasma fluid equations

**PLASMA EATERS**  
 \*BT1 electric probes  
 \*BT1 flowmeters  
 RT electron density  
 RT flow rate  
 RT plasma  
 RT plasma diagnostics

**plasma erosion opening switches**  
 INIS: 1993-11-09; ETDE: 2002-04-26  
 USE plasma switches

**PLASMA EXPANSION**  
 BT1 expansion  
 RT plasma  
 RT plasma density  
 RT plasma drift  
 RT plasma instability

**PLASMA FILAMENT**  
 UF *filament (plasma)*  
 RT pinch effect  
 RT plasma  
 RT plasma focus  
 RT plasma jets

**PLASMA FLUID EQUATIONS**  
 INIS: 1988-11-16; ETDE: 1988-12-05  
 UF *fluid equations (plasma)*  
 \*BT1 boltzmann-vasov equation  
 RT magnetohydrodynamics  
 RT moments method  
 RT plasma drift  
 RT plasma simulation

**PLASMA FOCUS**  
 RT pinch effect  
 RT plasma  
 RT plasma density  
 RT plasma filament  
 RT plasma focus devices  
 RT plasma guns

**PLASMA FOCUS DEVICES**  
 1999-07-26  
 \*BT1 open plasma devices

NT1 pf-1000 device  
 RT plasma focus  
**plasma frequency**  
 USE langmuir frequency

**PLASMA FURNACES**  
 BT1 furnaces  
 RT arc furnaces

**PLASMA GUNS**  
 UF *guns (plasma)*  
 UF *plasma accelerators*  
 RT impact fusion drivers  
 RT plasma acceleration  
 RT plasma focus  
 RT plasma jets  
 RT plasma rings

**PLASMA HEATING**  
 BT1 heating  
 NT1 adiabatic compression heating  
 NT1 beam injection heating  
 NT1 high-frequency heating  
 NT2 ecr heating  
 NT2 icr heating  
 NT2 lower hybrid heating  
 NT2 magnetic-pumping heating  
 NT3 acoustic heating  
 NT3 collisional heating  
 NT3 transit-time magnetic pumping  
 NT1 joule heating  
 NT2 current-drive heating  
 NT1 laser-radiation heating  
 NT1 shock heating  
 NT1 turbulent heating  
 RT bernstein mode  
 RT microwave heating  
 RT mode conversion  
 RT plasma  
 RT plasma potential  
 RT plasma production  
 RT thermonuclear devices

**PLASMA IMPURITIES**  
 INIS: 1995-07-03; ETDE: 1990-05-16  
 BT1 impurities  
 RT divertors  
 RT limiters  
 RT particle influx  
 RT plasma  
 RT plasma scrape-off layer  
 RT wall effects

**PLASMA INSTABILITY**  
 BT1 instability  
 NT1 absolute instabilities  
 NT1 convective instabilities  
 NT1 decay instability  
 NT1 explosive instability  
 NT1 gravitational instability  
 NT1 plasma macroinstabilities  
 NT2 ballooning instability  
 NT2 edge localized modes  
 NT2 fishbone instability  
 NT2 flute instability  
 NT2 helical instability  
 NT2 helmholtz instability  
 NT2 kink instability  
 NT2 parametric instabilities  
 NT2 sausage instability  
 NT2 tearing instability  
 NT2 tilting instability  
 NT2 trapped-particle instability  
 NT2 whistler instability  
 NT1 plasma microinstabilities  
 NT2 bump-in-tail instability  
 NT2 cyclotron instability  
 NT2 drift instability  
 NT2 hose instability  
 NT2 ion wave instability

NT2 loss cone instability  
 NT2 negative mass instability  
 NT2 two-stream instability  
 RT dispersion relations  
 RT instability growth rates  
 RT marfe  
 RT mercier criterion  
 RT mhd equilibrium  
 RT negative mass effect  
 RT nonlinear problems  
 RT plasma  
 RT plasma expansion  
 RT suydam criterion

**PLASMA JETS**  
 RT plasma acceleration  
 RT plasma filament  
 RT plasma guns

**plasma lens**  
 INIS: 1984-04-04; ETDE: 2002-04-26  
 USE electromagnetic lenses

**PLASMA MACROINSTABILITIES**  
 UF *mhd instabilities (plasma)*  
 \*BT1 plasma instability  
 NT1 ballooning instability  
 NT1 edge localized modes  
 NT1 fishbone instability  
 NT1 flute instability  
 NT1 helical instability  
 NT1 helmholtz instability  
 NT1 kink instability  
 NT1 parametric instabilities  
 NT1 sausage instability  
 NT1 tearing instability  
 NT1 tilting instability  
 NT1 trapped-particle instability  
 NT1 whistler instability  
 RT decay instability  
 RT plasma disruption  
 RT rayleigh-taylor instability

**PLASMA MICROINSTABILITIES**  
 \*BT1 plasma instability  
 NT1 bump-in-tail instability  
 NT1 cyclotron instability  
 NT1 drift instability  
 NT1 hose instability  
 NT1 ion wave instability  
 NT1 loss cone instability  
 NT1 negative mass instability  
 NT1 two-stream instability  
 RT decay instability

**plasma opening switches**  
 INIS: 1986-01-21; ETDE: 2002-06-13  
 USE plasma switches

**plasma oscillations**  
 USE plasma waves

**PLASMA POTENTIAL**  
 INIS: 1988-11-16; ETDE: 1988-12-05  
*The electrostatic potential of a plasma along a magnetic field line.*  
 BT1 electric potential  
 RT charge exchange  
 RT magnetic mirror configurations  
 RT magnetic mirrors  
 RT plasma heating

**PLASMA PRESSURE**  
 UF *pressure (plasma)*  
 RT beta ratio

**PLASMA PRODUCTION**  
 UF *production (plasma)*  
 RT high-frequency discharges  
 RT ionization  
 RT laser-produced plasma  
 RT plasma

RT plasma heating  
RT thermonuclear devices

**PLASMA RADIAL PROFILES**

INIS: 1989-09-14; ETDE: 1989-10-16

UF radial profiles (plasma)  
RT magnetic flux coordinates  
RT magnetic surfaces  
RT plasma  
RT spatial distribution  
RT stellarators  
RT tokamak devices

**PLASMA RINGS**

INIS: 1984-02-22; ETDE: 1984-03-06

RT compact torus  
RT plasma  
RT plasma guns

**PLASMA SCRAPE-OFF LAYER**

1983-09-06

\*BT1 boundary layers  
RT plasma  
RT plasma impurities

**PLASMA SEEDING**

1976-10-29

Restricted to MHD.

UF seeding (plasma)  
RT ionization  
RT ionization potential  
RT mhd channels  
RT mhd generators  
RT seed recovery  
RT seed-slag interactions  
RT spent seed

**PLASMA SHEATH**

RT boundary layers  
RT marfe  
RT reentry

**PLASMA SHEET**

1999-04-28

\*BT1 earth magnetosphere  
RT magnetotail

**PLASMA SIMULATION**

UF models (plasma)  
BT1 simulation  
RT functional models  
RT plasma  
RT plasma fluid equations

**plasma substitutes**

INIS: 2000-04-12; ETDE: 1981-04-20

USE blood substitutes

**PLASMA SURFACE WAVES**

2001-01-08

UF surface waves (plasma)  
BT1 plasma waves  
RT boundary layers  
RT hydromagnetic waves  
RT wave propagation

**PLASMA SWITCHES**

INIS: 1986-01-21; ETDE: 1983-04-28

Switches employing a current-conducting plasma for operation.

UF peos  
UF plasma erosion opening switches  
UF plasma opening switches  
UF reflex switches  
\*BT1 switches  
RT pulse generators  
RT pulse techniques

**plasma temperature**

INIS: 1984-04-04; ETDE: 2002-04-26

USE electron temperature  
USE ion temperature

**plasma-wall interactions**

INIS: 1984-04-04; ETDE: 2002-04-26

USE wall effects

**PLASMA WAVES**

UF electrostatic waves  
UF langmuir oscillations  
UF oscillations (plasma)  
UF plasma oscillations  
SF tonks-datner resonance  
NT1 electron plasma waves  
NT1 ion waves  
NT2 ion acoustic waves  
NT2 ion plasma waves  
NT1 plasma surface waves  
RT alfvén waves  
RT beat wave accelerators  
RT decay instability  
RT dispersion relations  
RT frequency mixing  
RT harmonics  
RT hydromagnetic waves  
RT landau damping  
RT normal-mode analysis  
RT oscillation modes  
RT plasma  
RT plasmons  
RT tonks-langmuir theory  
RT wakefield accelerators  
RT whistler instability

**PLASMAPAUSE**

1999-04-28

\*BT1 earth magnetosphere  
RT boundary layers  
RT international magnetospheric study  
RT loss cone  
RT magnetotail  
RT plasmasphere

**PLASMASPHERE**

1999-04-28

\*BT1 earth magnetosphere  
RT international magnetospheric study  
RT magnetotail  
RT plasmopause

**PLASMATRONS**

BT1 electron tubes  
NT1 duoplasmatrons  
NT1 triplasmatrons

**PLASMIDS**

INIS: 1997-06-17; ETDE: 1977-12-22

UF paragenes  
BT1 cell constituents  
RT cytoplasm  
RT genes  
RT genetics  
RT transposons

**plasmin**

INIS: 1993-08-26; ETDE: 1981-01-12

USE fibrinolysin

**PLASMINOGEN**

INIS: 1984-05-24; ETDE: 1981-04-20

\*BT1 blood coagulation factors  
\*BT1 fibrinolytic agents

**plasmocytes**

USE plasma cells

**PLASMODIUM**

\*BT1 sporozoa  
RT malaria

**PLASMOIDS**

RT plasma

**PLASMONS**

BT1 quasi particles

RT plasma waves  
RT solid-state plasma

**plaster of paris**

USE gypsum cements

**PLASTIC FOAMS**

\*BT1 foams  
\*BT1 organic polymers

**plastic properties**

USE plasticity

**plastic scintillation counters**

USE plastic scintillation detectors

**PLASTIC SCINTILLATION DETECTORS**

UF plastic scintillation counters  
\*BT1 solid scintillation detectors  
RT plastic scintillators

**PLASTIC SCINTILLATORS**

BT1 phosphors  
RT anthracene  
RT plastic scintillation detectors  
RT terphenyls

**PLASTIC SURGERY**

\*BT1 surgery  
RT transplants

**PLASTICITY**

UF plastic properties  
BT1 mechanical properties  
RT creep  
RT deformation  
RT ductility  
RT flow stress  
RT thixotropy

**PLASTICIZERS**

A chemical such as castor oil or linseed oil added to rubbers, resins, or other material to impart flexibility, workability, or stretchability.

RT linseed oil  
RT organic polymers  
RT rubbers

**PLASTICS**

1996-08-05

(Until July 1994 this concept was indexed by ORGANIC POLYMERS.)

UF laminac  
\*BT1 organic polymers  
\*BT1 petrochemicals  
\*BT1 synthetic materials  
NT1 aramids  
NT1 bakelite  
NT1 formvar  
NT1 lucite  
NT1 mylar  
NT1 nylon  
NT1 perspex  
NT1 plexiglas  
NT1 polystyrene  
NT1 polyurethanes  
NT2 halthane  
NT1 reinforced plastics  
NT1 tedlar  
NT1 teflon  
NT1 thermoplastics  
RT concrete-plastic composites  
RT plastics industry

**PLASTICS INDUSTRY**

INIS: 2000-04-12; ETDE: 1978-11-14

BT1 industry  
RT plastics

**PLASTOQUINONE**

INIS: 2000-04-12; ETDE: 1981-07-18

- \*BT1 benzoquinones
- RT photosynthesis

**PLATE TECTONICS**

INIS: 2000-04-12; ETDE: 1976-08-04

*Global tectonics based on an earth model characterized by a small number (10-25) of large, broad, thick plates (blocks composed of areas of both continental and oceanic crust and mantle) each of which "floats" on some viscous underlayer in the mantle and moves more or less independently of the others.*

- BT1 tectonics
- RT earth crust
- RT gondwana
- RT paleomagnetism
- RT sea-floor spreading
- RT subduction zones

**PLATEAU REGIME**

INIS: 1982-11-30; ETDE: 1980-04-14

*The collision frequency regime characterized by an effective Coulomb scattering rate equal to or greater than the poloidal transit frequency, but a mean free path less than the connection length. In this regime the transport coefficients are independent of collision frequency.*

- RT neoclassical transport theory
- RT plasma confinement
- RT tokamak devices
- RT trapping

**PLATES**

*Thicker than sheets or foils.*

- RT foils
- RT prismatic configuration
- RT rectangular configuration
- RT shape
- RT sheets
- RT slabs

**plates (fuel)**

- USE fuel plates

**platform mounted nuclear plant**

- USE offshore nuclear power plants

**PLATING**

*For the process only.*

- \*BT1 surface coating
- NT1 electroplating
- NT1 vapor plating
- RT cladding
- RT rolling

**plating solutions**

INIS: 1992-04-02; ETDE: 1986-01-24

- USE process solutions

**PLATINUM**

- \*BT1 platinum metals

**PLATINUM 168**

INIS: 1986-05-12; ETDE: 1986-07-03

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 platinum isotopes

**PLATINUM 169**

INIS: 1986-05-12; ETDE: 1986-07-03

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 170**

INIS: 1986-05-12; ETDE: 1984-05-08

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 171**

INIS: 1986-05-12; ETDE: 1982-03-10

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 172**

INIS: 1985-06-07; ETDE: 1982-03-10

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 173**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 174**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 175**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 platinum isotopes
- \*BT1 seconds living radioisotopes

**PLATINUM 176**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 platinum isotopes
- \*BT1 seconds living radioisotopes

**PLATINUM 177**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 platinum isotopes
- \*BT1 seconds living radioisotopes

**PLATINUM 178**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 platinum isotopes
- \*BT1 seconds living radioisotopes

**PLATINUM 179**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 platinum isotopes
- \*BT1 seconds living radioisotopes

**PLATINUM 180**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 platinum isotopes
- \*BT1 seconds living radioisotopes

**PLATINUM 181**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes
- \*BT1 seconds living radioisotopes

**PLATINUM 182**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 183**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 platinum isotopes
- \*BT1 seconds living radioisotopes

**PLATINUM 184**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 185**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 186**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 187**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 188**

- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM 189**

- \*BT1 beta-plus decay radioisotopes

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 190**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes
- \*BT1 years living radioisotopes

**PLATINUM 190 TARGET**

*INIS: 1979-09-18; ETDE: 1979-10-23*  
BT1 targets

**PLATINUM 191**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM 192**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes
- \*BT1 stable isotopes

**PLATINUM 192 TARGET**

*INIS: 1978-01-13; ETDE: 1977-06-02*  
BT1 targets

**PLATINUM 193**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 platinum isotopes
- \*BT1 years living radioisotopes

**PLATINUM 194**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes
- \*BT1 stable isotopes

**PLATINUM 194 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**PLATINUM 195**

- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 platinum isotopes
- \*BT1 stable isotopes

**PLATINUM 195 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**PLATINUM 196**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes
- \*BT1 stable isotopes

**PLATINUM 196 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**PLATINUM 197**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes

- \*BT1 isomeric transition isotopes
- \*BT1 platinum isotopes

**PLATINUM 198**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes
- \*BT1 stable isotopes

**PLATINUM 198 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**PLATINUM 199**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 platinum isotopes
- \*BT1 seconds living radioisotopes

**PLATINUM 200**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 201**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 platinum isotopes

**PLATINUM 202**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM 203**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM 204**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM 205**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM 206**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM 207**

- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM 208**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 platinum isotopes

**PLATINUM ADDITIONS**

*Alloys containing not more than 1% Pt are listed here.*

RT platinum alloys

**PLATINUM ALLOYS**

*Alloys containing more than 1% Pt.*

- \*BT1 platinum metal alloys
- NT1 platinum base alloys
- RT platinum additions

**PLATINUM ARSENIDES**

*INIS: 2000-04-12; ETDE: 1985-08-09*

- \*BT1 arsenides
- \*BT1 platinum compounds

**PLATINUM BASE ALLOYS**

- \*BT1 platinum alloys

**PLATINUM BROMIDES**

- \*BT1 bromides
- \*BT1 platinum compounds

**PLATINUM CARBIDES**

- \*BT1 carbides
- \*BT1 platinum compounds

**PLATINUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 platinum compounds

**PLATINUM COMPLEXES**

- \*BT1 transition element complexes

**PLATINUM COMPOUNDS**

*1997-06-19*

- BT1 transition element compounds
- NT1 platinum arsenides
- NT1 platinum bromides
- NT1 platinum carbides
- NT1 platinum chlorides
- NT1 platinum fluorides
- NT1 platinum hydrides
- NT1 platinum hydroxides
- NT1 platinum iodides
- NT1 platinum oxides
- NT1 platinum phosphides
- NT1 platinum silicides
- NT1 platinum sulfates
- NT1 platinum sulfides
- NT1 platinum tellurides

**PLATINUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 platinum compounds

**PLATINUM HYDRIDES**

*1979-11-02*

- \*BT1 hydrides
- \*BT1 platinum compounds

**PLATINUM HYDROXIDES**

*INIS: 2000-04-12; ETDE: 1979-07-24*

- \*BT1 hydroxides
- \*BT1 platinum compounds

**PLATINUM IODIDES**

- \*BT1 iodides
- \*BT1 platinum compounds

**PLATINUM IONS**

- \*BT1 ions

**PLATINUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 platinum 168
- NT1 platinum 169
- NT1 platinum 170
- NT1 platinum 171
- NT1 platinum 172
- NT1 platinum 173
- NT1 platinum 174
- NT1 platinum 175
- NT1 platinum 176
- NT1 platinum 177
- NT1 platinum 178
- NT1 platinum 179
- NT1 platinum 180
- NT1 platinum 181
- NT1 platinum 182
- NT1 platinum 183
- NT1 platinum 184
- NT1 platinum 185

NT1 platinum 186  
 NT1 platinum 187  
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 NT1 platinum 190  
 NT1 platinum 191  
 NT1 platinum 192  
 NT1 platinum 193  
 NT1 platinum 194  
 NT1 platinum 195  
 NT1 platinum 196  
 NT1 platinum 197  
 NT1 platinum 198  
 NT1 platinum 199  
 NT1 platinum 200  
 NT1 platinum 201  
 NT1 platinum 202  
 NT1 platinum 203  
 NT1 platinum 204  
 NT1 platinum 205  
 NT1 platinum 206  
 NT1 platinum 207  
 NT1 platinum 208

**PLATINUM METAL ALLOYS**

1995-02-27

\*BT1 transition element alloys  
 NT1 iridium alloys  
 NT2 iridium additions  
 NT2 iridium base alloys  
 NT1 osmium alloys  
 NT2 osmium additions  
 NT2 osmium base alloys  
 NT1 palladium alloys  
 NT2 palau  
 NT2 palladium base alloys  
 NT1 platinum alloys  
 NT2 platinum base alloys  
 NT1 rhodium alloys  
 NT2 rhodium additions  
 NT2 rhodium base alloys  
 NT1 ruthenium alloys  
 NT2 ruthenium additions  
 NT2 ruthenium base alloys

**PLATINUM METALS**

\*BT1 transition elements  
 NT1 iridium  
 NT1 osmium  
 NT1 palladium  
 NT1 platinum  
 NT1 rhodium  
 NT1 ruthenium

**PLATINUM OXIDES**

\*BT1 oxides  
 \*BT1 platinum compounds

**PLATINUM PHOSPHIDES**

INIS: 1991-09-16; ETDE: 1977-03-04

\*BT1 phosphides  
 \*BT1 platinum compounds

**PLATINUM SILICIDES**

INIS: 1978-07-17; ETDE: 1978-08-07

\*BT1 platinum compounds  
 \*BT1 silicides

**PLATINUM SULFATES**

INIS: 2000-04-12; ETDE: 1976-07-07

\*BT1 platinum compounds  
 \*BT1 sulfates

**PLATINUM SULFIDES**

\*BT1 platinum compounds  
 \*BT1 sulfides

**PLATINUM TELLURIDES**

INIS: 1985-12-11; ETDE: 1976-06-07

\*BT1 platinum compounds  
 \*BT1 tellurides

**platr reactor**

USE prr reactor

**PLATYHELMINTHS**

UF cercaria

UF worms (flat)

SF helminths

\*BT1 invertebrates

NT1 cestodes

NT1 trematodes

NT2 fasciola

NT2 schistosoma

NT1 turbellaria

NT2 planaria

**PLBR REACTOR**

INIS: 1978-07-03; ETDE: 1977-08-24

USA. Joint ERDA-EPR design project.

UF prototype large breeder reactor

\*BT1 lmfr type reactors

\*BT1 power reactors

**pleasanton usa ntr reactor**

USE ntr reactor

**PLEIADE DEVICE**

\*BT1 magnetic mirrors

**PLEISTOCENE EPOCH**

INIS: 1992-04-14; ETDE: 1977-10-20

\*BT1 quaternary period

RT geologic history

RT glaciers

**plesiotherapy**

USE radiotherapy

**PLEURA**

\*BT1 serous membranes

RT chest

RT lungs

RT mediastinum

**PLEXIGLAS**

\*BT1 plastics

\*BT1 polyacrylates

RT pmma

**PLIOCENE EPOCH**

INIS: 1992-04-14; ETDE: 1977-10-20

\*BT1 tertiary period

RT geologic history

**PLOIDY**

NT1 aneuploidy

NT1 diploidy

NT1 haploidy

NT1 polyploidy

RT genome mutations

**PLOTTERS**

\*BT1 computer-graphics devices

RT computer graphics

RT display devices

**plows (coal)**

INIS: 2000-04-12; ETDE: 1979-06-06

USE coal plows

**PLOWSHARE PROJECT**

1996-07-23

(The UF terms below that refer to events have been valid ETDE descriptors.)

UF bronco event

UF chariot event

UF hardhat event

UF project plowshare

UF sloop event

NT1 gasbuggy event

NT1 gnome event

NT1 rio blanco event

NT1 sedan event

RT cratering explosions

RT nuclear excavation

RT nuclear explosions

RT surface explosions

RT underground explosions

**PLT DEVICES**

INIS: 1975-10-23; ETDE: 1979-04-11

UF princeton large torus

\*BT1 tokamak devices

**PLUGGING**

INIS: 1992-04-14; ETDE: 1977-01-10

RT cementing

RT grouting

RT oil wells

RT permeability

RT plugging agents

RT reservoir rock

**PLUGGING AGENTS**

INIS: 1992-04-14; ETDE: 1983-03-23

RT cements

RT gels

RT oil wells

RT plugging

RT polymers

RT reservoir rock

**plugs**

USE closures

**plum brook nasa-tr**

USE pbr reactor

**plum brook reactor facility**

USE pbr reactor

**PLUMBATES**

Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.

BT1 lead compounds

BT1 oxygen compounds

RT lead oxides

**PLUMBBOB PROJECT**

UF boltzmann event

UF project plumbbob

\*BT1 nuclear explosions

RT nuclear weapons

**PLUMBING**

INIS: 2000-04-12; ETDE: 1979-11-07

RT pipe fittings

RT pipe joints

RT pipes

RT water faucets

RT water supply

**PLUMES**

SF emissions (industrial)

RT air pollution

RT emissions tax

RT gaseous wastes

RT liquid wastes

RT smokes

RT stack disposal

RT stacks

RT thermal pollution

RT waste heat

RT water pollution

**PLUMS**

\*BT1 fruits

RT rosaceae

**plunger method**

INIS: 1984-01-18; ETDE: 1984-02-10

Method for the determination of lifetimes of nuclear levels.

USE charge plunger method

**plunger pumps**

INIS: 2000-04-12; ETDE: 1984-05-10

USE rod pumps

**PLURONICS**

- \*BT1 detergents
- \*BT1 polyethylene glycols

**plus-minus ratio**

INIS: 2000-04-12; ETDE: 1979-02-05

USE minus-plus ratio

**PLUTO PLANET**

BT1 planets

**PLUTO REACTOR**

UF harwell pluto reactor

- \*BT1 enriched uranium reactors
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 materials testing reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors

**PLUTONIC ROCKS**

INIS: 1985-10-23; ETDE: 1980-08-12

Rocks formed at considerable depth by crystallization of magma or by chemical alteration.

UF alkali gabbros

UF intrusion (rock)

UF intrusive rocks

UF rock intrusion

UF sedimentary intrusive rocks

SF intrusion

\*BT1 igneous rocks

NT1 diorites

NT1 gabbros

NT2 anorthosites

NT1 granites

NT2 aplites

NT2 granodiorites

NT2 quartz monzonite

NT1 pegmatites

NT1 peridotites

NT2 kimberlites

NT1 syenites

RT mineralization

**PLUTONIUM**

1996-01-24

UF dymac system

UF dynamic materials accountability system

- \*BT1 actinides
- \*BT1 transuranium elements

NT1 plutonium-alpha

NT1 plutonium-beta

NT1 plutonium-delta

NT1 plutonium-epsilon

NT1 plutonium-gamma

RT nuclear fuels

RT plutonium recycle

**PLUTONIUM 228**

INIS: 1992-09-23; ETDE: 1979-11-23

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 plutonium isotopes

**PLUTONIUM 229**

1994-04-11

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 plutonium isotopes
- \*BT1 seconds living radioisotopes

**PLUTONIUM 230**

INIS: 1990-12-05; ETDE: 1979-11-23

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 plutonium isotopes

**PLUTONIUM 231**

- \*BT1 actinide nuclei
- \*BT1 even-odd nuclei
- \*BT1 plutonium isotopes

**PLUTONIUM 232**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 plutonium isotopes

**PLUTONIUM 233**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 plutonium isotopes

**PLUTONIUM 234**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 plutonium isotopes

**PLUTONIUM 235**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 plutonium isotopes
- \*BT1 spontaneous fission radioisotopes

**PLUTONIUM 235 TARGET**

ETDE: 1976-08-24

BT1 targets

**PLUTONIUM 236**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 magnesium 28 decay radioisotopes
- \*BT1 plutonium isotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**PLUTONIUM 236 TARGET**

1977-11-02

BT1 targets

**PLUTONIUM 237**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 plutonium isotopes
- \*BT1 spontaneous fission radioisotopes

**PLUTONIUM 237 TARGET**

INIS: 1977-01-25; ETDE: 1977-04-13

BT1 targets

**PLUTONIUM 238**

1997-02-07

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 plutonium isotopes
- \*BT1 silicon 32 decay radioisotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**PLUTONIUM 238 TARGET**

ETDE: 1976-07-09

BT1 targets

**PLUTONIUM 239**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 plutonium isotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**PLUTONIUM 239 TARGET**

ETDE: 1976-07-09

BT1 targets

**PLUTONIUM 240**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 plutonium isotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**PLUTONIUM 240 TARGET**

ETDE: 1976-07-09

BT1 targets

**PLUTONIUM 241**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 plutonium isotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**PLUTONIUM 241 TARGET**

ETDE: 1976-07-09

BT1 targets

**PLUTONIUM 242**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 plutonium isotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**PLUTONIUM 242 TARGET**

ETDE: 1976-07-09

BT1 targets

**PLUTONIUM 243**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 plutonium isotopes
- \*BT1 spontaneous fission radioisotopes

**PLUTONIUM 243 TARGET**

INIS: 1977-11-21; ETDE: 1978-03-08

BT1 targets

**PLUTONIUM 244**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 plutonium isotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 years living radioisotopes

**PLUTONIUM 244 TARGET***INIS: 1976-07-06; ETDE: 1976-08-24*

BT1 targets

**PLUTONIUM 245**

\*BT1 actinide nuclei  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 plutonium isotopes

**PLUTONIUM 246**

\*BT1 actinide nuclei  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 plutonium isotopes

**PLUTONIUM 247***INIS: 1985-03-15; ETDE: 1983-09-15*

\*BT1 actinide nuclei  
 \*BT1 days living radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 plutonium isotopes

**PLUTONIUM 248**

\*BT1 actinide nuclei  
 \*BT1 even-even nuclei  
 \*BT1 plutonium isotopes

**PLUTONIUM 250**

\*BT1 actinide nuclei  
 \*BT1 even-even nuclei  
 \*BT1 plutonium isotopes

**PLUTONIUM ADDITIONS***Alloys containing not more than 1% Pu are listed here.*

RT plutonium alloys

**PLUTONIUM ALLOYS***Alloys containing more than 1% Pu.*

\*BT1 actinide alloys  
 NT1 plutonium base alloys  
 RT plutonium additions

**PLUTONIUM-ALPHA**

\*BT1 plutonium

**PLUTONIUM ARSENIDES***INIS: 1979-02-21; ETDE: 1979-03-28*

\*BT1 arsenides  
 \*BT1 plutonium compounds

**PLUTONIUM BASE ALLOYS**

\*BT1 plutonium alloys

**PLUTONIUM-BETA**

\*BT1 plutonium

**PLUTONIUM BORIDES**

\*BT1 borides  
 \*BT1 plutonium compounds

**plutonium bromides***1997-01-28**(Until October 1996 this was a valid descriptor.)*

USE bromides  
 USE plutonium compounds

**PLUTONIUM CARBIDES**

\*BT1 carbides  
 \*BT1 plutonium compounds  
 RT mixed carbide fuels

**PLUTONIUM CARBONATES**

\*BT1 carbonates  
 \*BT1 plutonium compounds

**PLUTONIUM CHLORIDES**

\*BT1 chlorides  
 \*BT1 plutonium compounds

**PLUTONIUM COMPLEXES**

\*BT1 actinide complexes  
 \*BT1 transuranium complexes  
 NT1 plutonyl complexes

**PLUTONIUM COMPOUNDS***1996-11-13*

UF plutonium bromides  
 UF plutonium perchlorates  
 UF plutonium peroxide  
 UF plutonium silicates  
 BT1 actinide compounds  
 BT1 transuranium compounds  
 NT1 plutonium arsenides  
 NT1 plutonium borides  
 NT1 plutonium carbides  
 NT1 plutonium carbonates  
 NT1 plutonium chlorides  
 NT1 plutonium fluorides  
 NT1 plutonium hydrides  
 NT1 plutonium hydroxides  
 NT1 plutonium iodides  
 NT1 plutonium nitrates  
 NT1 plutonium nitrides  
 NT1 plutonium oxides  
 NT2 plutonium dioxide  
 NT1 plutonium phosphates  
 NT1 plutonium phosphides  
 NT1 plutonium selenides  
 NT1 plutonium sulfates  
 NT1 plutonium sulfides  
 NT1 plutonium tellurides  
 NT1 plutonyl compounds

**PLUTONIUM-DELTA**

\*BT1 plutonium

**PLUTONIUM DIOXIDE**

\*BT1 plutonium oxides

**PLUTONIUM-EPSILON**

\*BT1 plutonium

**PLUTONIUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 plutonium compounds

**PLUTONIUM-GAMMA**

\*BT1 plutonium

**PLUTONIUM HYDRIDES**

\*BT1 hydrides  
 \*BT1 plutonium compounds

**PLUTONIUM HYDROXIDES**

\*BT1 hydroxides  
 \*BT1 plutonium compounds

**PLUTONIUM IODIDES**

\*BT1 iodides  
 \*BT1 plutonium compounds

**PLUTONIUM IONS**

\*BT1 ions

**PLUTONIUM ISOTOPES***1999-07-16*

BT1 isotopes  
 NT1 plutonium 228  
 NT1 plutonium 229  
 NT1 plutonium 230  
 NT1 plutonium 231  
 NT1 plutonium 232  
 NT1 plutonium 233  
 NT1 plutonium 234  
 NT1 plutonium 235  
 NT1 plutonium 236  
 NT1 plutonium 237  
 NT1 plutonium 238  
 NT1 plutonium 239  
 NT1 plutonium 240  
 NT1 plutonium 241

NT1 plutonium 242

NT1 plutonium 243

NT1 plutonium 244

NT1 plutonium 245

NT1 plutonium 246

NT1 plutonium 247

NT1 plutonium 248

NT1 plutonium 250

**PLUTONIUM NITRATES**

\*BT1 nitrates  
 \*BT1 plutonium compounds

**PLUTONIUM NITRIDES**

\*BT1 nitrides  
 \*BT1 plutonium compounds  
 RT mixed nitride fuels

**PLUTONIUM OXIDES**

\*BT1 oxides  
 \*BT1 plutonium compounds  
 NT1 plutonium dioxide

**plutonium perchlorates***1997-01-28**(Until October 1996 this was a valid descriptor.)*

USE perchlorates

USE plutonium compounds

**plutonium peroxide***INIS: 1997-01-28; ETDE: 1980-05-06**(Until October 1996 this was a valid descriptor.)*

USE peroxides

USE plutonium compounds

**PLUTONIUM PHOSPHATES**

\*BT1 phosphates  
 \*BT1 plutonium compounds

**PLUTONIUM PHOSPHIDES**

\*BT1 phosphides  
 \*BT1 plutonium compounds

**PLUTONIUM PRODUCTION REACTORS**

\*BT1 production reactors  
 NT1 calder hall a-1 reactor  
 NT1 calder hall a-2 reactor  
 NT1 calder hall b-3 reactor  
 NT1 calder hall b-4 reactor  
 NT1 chapelcross-1 reactor  
 NT1 chapelcross-2 reactor  
 NT1 chapelcross-3 reactor  
 NT1 chapelcross-4 reactor  
 NT1 g-1 reactor  
 NT1 g-2 reactor  
 NT1 g-3 reactor  
 NT1 hanford production reactors  
 NT1 n-reactor  
 NT1 windscale production reactors

**PLUTONIUM REACTORS**

BT1 reactors  
 NT1 clementine reactor  
 NT1 ebr-1 reactor  
 NT1 hclwr type reactors  
 NT1 jatr reactor  
 NT1 lampre-1 reactor  
 NT1 masurca reactor  
 NT1 phenix reactor  
 NT1 pref reactor  
 NT1 rapsodie reactor  
 NT1 sbr-1 reactor  
 NT1 sbr-2 reactor  
 NT1 sbr-5 reactor  
 NT1 sefor reactor  
 NT1 stacy reactor  
 NT1 super phenix reactor  
 NT1 tracy reactor  
 NT1 zeep reactor

**NT1** zephyr reactor  
*RT* beloyarsk-3 reactor  
*RT* bn-350 reactor  
*RT* clinch river breeder reactor  
*RT* ebr-2 reactor  
*RT* pfr reactor  
*RT* sneak reactor  
*RT* vera reactor  
*RT* zebra reactor  
*RT* zenith reactor

**PLUTONIUM RECYCLE**

*Use of plutonium from reprocessed spent fuels in reload fuels.*

*BT1* fuel cycle  
*RT* civex process  
*RT* fuel cycle centers  
*RT* plutonium

**plutonium recycle critical facility**

*USE* prcf reactor

**plutonium recycle test reactor**

*USE* ptrr reactor

**PLUTONIUM SELENIDES**

*INIS: 1979-02-21; ETDE: 1979-03-28*

\**BT1* plutonium compounds  
 \**BT1* selenides

**plutonium silicates**

*INIS: 1997-01-28; ETDE: 1984-09-05*

(Until October 1996 this was a valid descriptor.)

*USE* plutonium compounds  
*USE* silicates

**PLUTONIUM SULFATES**

\**BT1* plutonium compounds  
 \**BT1* sulfates

**PLUTONIUM SULFIDES**

\**BT1* plutonium compounds  
 \**BT1* sulfides

**PLUTONIUM TELLURIDES**

*INIS: 1976-02-24; ETDE: 1976-04-19*

\**BT1* plutonium compounds  
 \**BT1* tellurides

**PLUTONYL COMPLEXES**

*1983-09-06*

\**BT1* plutonium complexes  
*RT* plutonyl compounds

**PLUTONYL COMPOUNDS**

\**BT1* plutonium compounds  
*RT* plutonyl complexes

**plymouth pilgrim power reactor**

*USE* pilgrim-1 reactor

**PLZT**

*INIS: 1984-04-25; ETDE: 1983-07-07*

*Lead lanthanum zirconate titanate.*

\**BT1* lanthanum compounds  
*BT1* lead compounds  
 \**BT1* titanates  
 \**BT1* zirconates

**PM-2A REACTOR**

*Camp Century, Greenland, Denmark.*

*UF* camp century medium power plant 2a  
*UF* portable medium power plant 2a

\**BT1* process heat reactors  
 \**BT1* pwr type reactors

**PM-3A REACTOR**

*McMurdo Sound, Antarctica.*

*UF* mcmurdo sound medium power plant 3a

*UF* portable medium power plant 3a  
 \**BT1* pwr type reactors

**PMMA**

*INIS: 1981-02-27; ETDE: 1980-03-04*

*UF* polymethylmethacrylates  
 \**BT1* polyacrylates  
*RT* lucite  
*RT* methacrylic acid esters  
*RT* plexiglas

**pmr spectra**

*INIS: 1984-04-04; ETDE: 2002-04-26*

*Proton Magnetic Resonance spectra.*

*USE* nmr spectra  
*USE* protons

**pna**

*INIS: 2000-04-12; ETDE: 1978-07-05*

*Polynuclear aromatics.*

*USE* polycyclic aromatic hydrocarbons

**PNC**

*ETDE: 1975-09-11*

*The Power Reactor and Nuclear Fuel Development Corporation (PNC) was reorganized and renamed as the Japan Nuclear Cycle Development Institute (JNC) in October 1998.*

*UF* power reactor and nuclear fuel development corporation

\**BT1* japanese organizations

**PNEUMATIC CONTROLLERS**

\**BT1* control equipment

**PNEUMATIC MOTORS**

*INIS: 2000-04-12; ETDE: 1980-10-27*

\**BT1* motors

**PNEUMATIC TRANSPORT**

*1976-09-06*

*BT1* transport  
*RT* pipelines  
*RT* pneumatics  
*RT* reaction product transport systems

**PNEUMATICS**

*Pertaining to or operated by air or other gas.*

\**BT1* fluid mechanics  
*RT* hydraulics  
*RT* pneumatic transport

**PNEUMOCOCCUS**

*UF* diplococcus pneumoniae

\**BT1* bacteria  
*RT* pneumonia

**PNEUMOCONIOSES**

*UF* black lung disease

*UF* silicosis

\**BT1* respiratory system diseases

*NT1* berylliosis  
*RT* dusts  
*RT* lungs  
*RT* occupational diseases

**PNEUMONIA**

\**BT1* respiratory system diseases

*NT1* bronchopneumonia  
*RT* lungs  
*RT* pneumococcus

**PNEUMONITIS**

*RT* inflammation

*RT* lungs

**PNICTIDES**

*INIS: 1989-11-24; ETDE: 1976-09-14*

*NT1* antimonides

*NT2* gallium antimonides

*NT2* indium antimonides

*NT1* arsenides

*NT2* aluminium arsenides

*NT2* boron arsenides

*NT2* cadmium arsenides

*NT2* cerium arsenides

*NT2* cobalt arsenides

*NT2* copper arsenides

*NT2* europium arsenides

*NT2* gadolinium arsenides

*NT2* gallium arsenides

*NT2* germanium arsenides

*NT2* hafnium arsenides

*NT2* indium arsenides

*NT2* iron arsenides

*NT2* lithium arsenides

*NT2* magnesium arsenides

*NT2* manganese arsenides

*NT2* molybdenum arsenides

*NT2* neptunium arsenides

*NT2* nickel arsenides

*NT2* niobium arsenides

*NT2* palladium arsenides

*NT2* platinum arsenides

*NT2* plutonium arsenides

*NT2* praseodymium arsenides

*NT2* ruthenium arsenides

*NT2* samarium arsenides

*NT2* silicon arsenides

*NT2* silver arsenides

*NT2* tellurium arsenides

*NT2* thorium arsenides

*NT2* tin arsenides

*NT2* uranium arsenides

*NT2* zinc arsenides

**NT1 nitrides**

*NT2* aluminium nitrides

*NT2* americium nitrides

*NT2* argon nitrides

*NT2* barium nitrides

*NT2* beryllium nitrides

*NT2* boron nitrides

*NT2* calcium nitrides

*NT2* carbon nitrides

*NT2* cerium nitrides

*NT2* chromium nitrides

*NT2* copper nitrides

*NT2* dysprosium nitrides

*NT2* erbium nitrides

*NT2* europium nitrides

*NT2* gadolinium nitrides

*NT2* gallium nitrides

*NT2* germanium nitrides

*NT2* hafnium nitrides

*NT2* holmium nitrides

*NT2* indium nitrides

*NT2* iron nitrides

*NT2* lanthanum nitrides

*NT2* lithium nitrides

*NT2* magnesium nitrides

*NT2* manganese nitrides

*NT2* molybdenum nitrides

*NT2* neodymium nitrides

*NT2* neptunium nitrides

*NT2* nickel nitrides

*NT2* niobium nitrides

*NT2* phosphorus nitrides

*NT2* plutonium nitrides

*NT2* potassium nitrides

*NT2* praseodymium nitrides

*NT2* radium nitrides

*NT2* rhenium nitrides

*NT2* ruthenium nitrides

*NT2* samarium nitrides

*NT2* scandium nitrides

*NT2* silicon nitrides

*NT2* silver nitrides

*NT2* sodium nitrides

*NT2* sulfur nitrides

*NT2* tantalum nitrides

*NT2* terbium nitrides

*NT2* thorium nitrides

*NT2* thulium nitrides



**NT2** tin nitrides  
**NT2** titanium nitrides  
**NT2** tungsten nitrides  
**NT2** uranium nitrides  
**NT2** vanadium nitrides  
**NT2** ytterbium nitrides  
**NT2** yttrium nitrides  
**NT2** zinc nitrides  
**NT2** zirconium nitrides  
**NT1** phosphides  
**NT2** aluminium phosphides  
**NT2** boron phosphides  
**NT2** cadmium phosphides  
**NT2** cerium phosphides  
**NT2** cobalt phosphides  
**NT2** copper phosphides  
**NT2** dysprosium phosphides  
**NT2** erbium phosphides  
**NT2** europium phosphides  
**NT2** gadolinium phosphides  
**NT2** gallium phosphides  
**NT2** germanium phosphides  
**NT2** hafnium phosphides  
**NT2** holmium phosphides  
**NT2** indium phosphides  
**NT2** iron phosphides  
**NT2** lanthanum phosphides  
**NT2** lithium phosphides  
**NT2** manganese phosphides  
**NT2** molybdenum phosphides  
**NT2** neptunium phosphides  
**NT2** nickel phosphides  
**NT2** microbraz 50  
**NT2** niobium phosphides  
**NT2** osmium phosphides  
**NT2** palladium phosphides  
**NT2** platinum phosphides  
**NT2** plutonium phosphides  
**NT2** potassium phosphides  
**NT2** praseodymium phosphides  
**NT2** rhodium phosphides  
**NT2** ruthenium phosphides  
**NT2** samarium phosphides  
**NT2** scandium phosphides  
**NT2** silicon phosphides  
**NT2** tantalum phosphides  
**NT2** terbium phosphides  
**NT2** thorium phosphides  
**NT2** tin phosphides  
**NT2** titanium phosphides  
**NT2** tungsten phosphides  
**NT2** uranium phosphides  
**NT2** vanadium phosphides  
**NT2** ytterbium phosphides  
**NT2** yttrium phosphides  
**NT2** zinc phosphides  
**NT2** zirconium phosphides

### **pnl**

*INIS: 2000-04-12; ETDE: 1982-09-10*  
USE battelle pacific northwest laboratories

### **pnl-cml reactor**

USE cml reactor

### **pnl-prcf reactor**

USE prcf reactor

### **PNPF REACTOR**

*US AEC, Piqua, Ohio, USA. Shut down in 1966.*

UF organic moderated reactor piqua  
UF piqua nuclear power facility  
UF piqua organic moderated reactor

\*BT1 enriched uranium reactors  
\*BT1 omr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

### **PNPP-1 REACTOR**

*INIS: 1982-06-09; ETDE: 1982-07-08*  
UF bataan philippine power plant  
UF philippine nuclear power plant-1  
\*BT1 pwr type reactors

### **PO RIVER**

*INIS: 1975-12-17; ETDE: 1976-08-24*  
\*BT1 rivers  
RT italy

### **POCKELS CELL**

*INIS: 2000-04-12; ETDE: 1978-02-14*  
*An electronically controllable light modulator or optical switch.*  
RT liquid crystals

### **pocket calculators**

*INIS: 1985-12-10; ETDE: 1978-11-14*  
USE calculators

### **pocket chambers**

USE condenser ionization chambers

### **PODBIELNIAK CONTACTORS**

\*BT1 extraction apparatuses  
RT centrifugation  
RT solvent extraction

### **podophyllic acid**

*1996-10-23*  
(Until October 1996 this was a valid descriptor.)  
USE hydroxy acids

### **POHANG LIGHT SOURCE**

*2003-05-08*  
\*BT1 synchrotron radiation sources  
RT accelerator facilities  
RT light sources

### **POINCARÉ-BERTRAND FORMULA**

*1992-03-11*  
RT integral calculus  
RT transport theory

### **POINCARÉ GROUPS**

\*BT1 lie groups  
NT1 lorentz groups  
RT lorentz transformations

### **POINT BEACH-1 REACTOR**

*Nuclear Management Co., LLC, Two Creeks, Wisconsin, USA.*  
UF wisconsin point beach-1 reactor  
\*BT1 pwr type reactors

### **POINT BEACH-2 REACTOR**

*Nuclear Management Co., LLC, Two Creeks, Wisconsin, USA.*  
UF wisconsin point beach-2 reactor  
\*BT1 pwr type reactors

### **POINT CHARGE**

BT1 electric charges

### **point contacts**

USE electric contacts

### **POINT DEFECTS**

\*BT1 crystal defects  
NT1 interstitials  
**NT2** i centers  
NT1 vacancies  
**NT2** color centers  
**NT3** a centers  
**NT3** e centers  
**NT3** f centers  
**NT3** h centers  
**NT3** i centers  
**NT3** m centers  
**NT3** r centers  
**NT3** s centers

**NT3** u centers

**NT3** v centers

**NT3** x centers

**NT3** z centers

**NT2** frenkel defects

**NT2** schottky defects

RT charge carriers

RT holes

### **POINT KERNELS**

*INIS: 1977-11-21; ETDE: 1978-03-08*

BT1 kernels

RT absorption

RT integral equations

RT radiation flux

RT shielding

### **POINT LEPREAU-1 REACTOR**

*INIS: 1977-02-08; ETDE: 1977-04-13*  
*St. John, New Brunswick, Canada.*

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

### **POINT LEPREAU-2 REACTOR**

*INIS: 1986-08-19; ETDE: 1986-09-05*  
*St. John, New Brunswick, Canada.*

\*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

### **point mutations**

USE gene mutations

### **POINT POLLUTANT SOURCES**

*INIS: 1992-03-09; ETDE: 1977-11-28*  
*Use for general articles when sources are not named.*

BT1 pollution sources

RT air pollution

RT mobile pollutant sources

RT pollution

RT water pollution

### **POINT SOURCES**

BT1 radiation sources

### **poiseuille flow**

USE laminar flow

### **POISONING**

*Reduction of the reactivity by materials produced in a reactor, e.g., xenon, and samarium, or materials such as boron introduced into the reactor.*

UF xenon effect

NT1 samarium oscillations

NT1 xenon oscillations

RT burnable poisons

RT fluid poison control

RT nuclear poisons

RT reactivity

RT reactor kinetics

### **poisons (chemical)**

*1983-03-15*

USE hazardous materials

### **poisons (nuclear)**

USE nuclear poisons

### **POISSON EQUATION**

\*BT1 partial differential equations

RT laplace equation

### **POISSON RATIO**

BT1 dimensionless numbers

BT1 mechanical properties

RT elasticity

RT hooke law

RT strains

**pokhran event**

INIS: 1994-10-14; ETDE: 1976-01-26  
 (Prior to September 1994, this was a valid ETDE descriptor.)  
 USE contained explosions  
 USE nuclear explosions

**POLAND**

1997-03-07  
 BT1 developing countries  
 \*BT1 eastern europe  
 RT oecd

**polar blackout**

USE polar-cap absorption

**POLAR-CAP ABSORPTION**

UF pca  
 UF polar blackout  
 \*BT1 absorption  
 RT polar regions  
 RT radiowave radiation  
 RT solar particles

**POLAR-CAP AURORAE**

BT1 aurorae  
 RT antarctic regions  
 RT arctic regions  
 RT auroral oval  
 RT auroral zones  
 RT ionosphere

**POLAR COMPOUNDS**

INIS: 2000-04-12; ETDE: 1980-12-08  
*Compounds that exhibit polarity, or local differences in electrical properties, and have a dipole moment associated with one or more of their interatomic valence bonds.*  
 RT dipoles  
 RT electric charges  
 RT organic compounds

**POLAR CUSP**

INIS: 1975-12-09; ETDE: 1978-03-08  
 RT auroral oval  
 RT earth magnetosphere  
 RT electron precipitation  
 RT ionosphere  
 RT proton precipitation

**POLAR GAS PROJECT**

INIS: 2000-04-12; ETDE: 1976-11-17  
 RT canada  
 RT natural gas  
 RT pipelines

**POLAR REGIONS**

BT1 cryosphere  
 NT1 antarctic regions  
 NT2 antarctica  
 NT1 arctic regions  
 RT boreal regions  
 RT polar-cap absorption

**polar solvents**

INIS: 1990-12-07; ETDE: 2002-04-26  
 (Prior to December 1990, this was a valid descriptor.)  
 USE solvents

**polar substorms**

USE magnetic bays

**POLARIMETERS**

NT1 ellipsometers  
 RT polarimetry  
 RT polarization  
 RT radiation detectors

**POLARIMETRY**

INIS: 1994-09-08; ETDE: 1986-02-21  
 RT chemical analysis

RT polarimeters  
 RT polarization

**polaritons**

INIS: 1984-04-04; ETDE: 2002-04-26  
 USE polarons

**POLARIZABILITY**

*Induced dipole moment to external electric field ratio.*  
 \*BT1 electrical properties  
 RT electric dipole moments  
 RT polarization

**POLARIZATION**

*For the process and condition in classical physics only; see also SPIN ORIENTATION.*  
 UF pyroelectricity  
 RT depolarization  
 RT electrets  
 RT faraday effect  
 RT kerr effect  
 RT optical activity  
 RT oriented nuclei  
 RT overhauser effect  
 RT polarimeters  
 RT polarimetry  
 RT polarizability  
 RT stokes parameters  
 RT tagged photon method  
 RT voigt effect  
 RT wave forms  
 RT wave propagation

**POLARIZATION-ASYMMETRY RATIO**

UF analyzing power  
 BT1 dimensionless numbers  
 RT scattering  
 RT spin orientation  
 RT targets

**POLARIZED BEAMS**

BT1 beams  
 RT spin orientation

**polarized nuclei**

(Prior to December 1984 this was a valid ETDE descriptor.)  
 USE oriented nuclei

**POLARIZED PRODUCTS**

*Use only for indexing the products of nuclear reactions or particle interactions.*  
 RT nuclear reactions  
 RT particle interactions

**POLARIZED TARGETS**

BT1 targets  
 RT spin orientation

**POLAROGRAPHY**

RT electrolysis  
 RT quantitative chemical analysis

**POLARONS**

UF polaritons  
 BT1 quasi particles

**policy**

INIS: 2000-04-12; ETDE: 1980-03-29  
 SEE energy policy  
 SEE environmental policy  
 SEE foreign policy  
 SEE government policies

**POLIO VIRUS**

\*BT1 viruses  
 RT poliomyelitis

**POLIOMYELITIS**

\*BT1 myelitis  
 \*BT1 viral diseases

RT nervous system  
 RT polio virus

**polish government maryla reactor**

1993-11-09  
 USE maryla reactor

**POLISH ORGANIZATIONS**

INIS: 1988-11-16; ETDE: 1981-08-04  
 BT1 national organizations  
 NT1 panstwowa agencja atomistyki

**POLISHING**

BT1 surface finishing  
 NT1 chemical polishing  
 NT1 electropolishing  
 NT1 mechanical polishing  
 RT metallography  
 RT surface cleaning

**POLITICAL ASPECTS**

INIS: 1998-01-28; ETDE: 1979-05-09  
*Features of an enterprise or undertaking affected by or affecting political establishments.*  
 BT1 institutional factors  
 RT ethical aspects  
 RT government policies  
 RT legal aspects  
 RT public officials  
 RT public opinion  
 RT public policy  
 RT socio-economic factors

**POLLEN**

\*BT1 gametes  
 RT flowers  
 RT microspores  
 RT palynology  
 RT reproduction

**POLLUCITE**

INIS: 1983-06-02; ETDE: 1982-11-08  
 \*BT1 silicate minerals  
 RT aluminium silicates  
 RT cesium silicates  
 RT sodium silicates

**POLLUTANTS**

INIS: 1981-02-27; ETDE: 1981-03-13  
*Not for radioactive contaminants for which use RADIOACTIVE WASTES or other related terminology.*  
 RT biological wastes  
 RT chemical effluents  
 RT contamination  
 RT industrial wastes  
 RT long-range transport  
 RT municipal wastes  
 RT pesticides  
 RT pollution  
 RT pollution abatement  
 RT pollution sources

**POLLUTION**

*For nonradioactive pollution only; for radioactive pollution use CONTAMINATION.*  
 NT1 air pollution  
 NT2 indoor air pollution  
 NT1 land pollution  
 NT1 noise pollution  
 NT1 thermal pollution  
 NT1 transfrontier pollution  
 NT1 water pollution  
 RT aesthetics  
 RT body burden  
 RT emissions tax  
 RT emissions trading  
 RT environment  
 RT gas spills  
 RT global aspects  
 RT hazardous materials spills

RT heavy metals  
RT lcpmpdpw  
RT liming  
RT long-range transport  
RT mobile pollutant sources  
RT pesticides  
RT point pollutant sources  
RT pollutants  
RT pollution abatement  
RT pollution control equipment  
RT pollution regulations  
RT stationary pollutant sources  
RT wastes

### ***pollution, prevention of marine, 1972 london convention on***

*INIS: 1984-06-21; ETDE: 2002-06-13*  
USE lcpmpdpw

### ***pollution (thermal)***

2000-04-12  
USE thermal pollution

### **POLLUTION ABATEMENT**

*INIS: 1983-06-30; ETDE: 1978-02-14*  
*For the prevention of pollutants at the source.*  
NT1 air pollution abatement  
NT1 land pollution abatement  
NT1 noise pollution abatement  
NT1 water pollution abatement  
RT chemical effluents  
RT heavy metals  
RT mitigation  
RT pollutants  
RT pollution  
RT pollution control  
RT pollution regulations

### **POLLUTION CONTROL**

*INIS: 1986-04-04; ETDE: 1977-03-04*  
*For management or removal of pollutants after they are formed by a source.*  
BT1 control  
NT1 air pollution control  
NT2 carbon sequestration  
NT1 land pollution control  
NT1 noise pollution control  
NT1 oil pollution containment  
NT1 water pollution control  
RT liming  
RT pollution abatement  
RT pollution control equipment  
RT pollution regulations  
RT us clean coal technology program

### **POLLUTION CONTROL AGENCIES**

*INIS: 1993-01-27; ETDE: 1976-11-01*  
NT1 us epa  
RT enforcement  
RT pollution laws  
RT pollution regulations

### **POLLUTION CONTROL EQUIPMENT**

*INIS: 1976-06-23; ETDE: 1975-11-11*  
BT1 equipment  
NT1 acoustic agglomerators  
NT1 afterburners  
NT1 air filters  
NT1 baghouses  
NT1 catalytic converters  
NT1 electrostatic precipitators  
NT1 exhaust recirculation systems  
NT1 oil retention booms  
NT1 pcv systems  
NT1 rotating disk removal systems  
NT1 scrubbers  
NT2 dry scrubbers  
NT1 skimmers  
NT1 weir oil recovery systems

RT air cleaning  
RT air cleaning systems  
RT air pollution control  
RT catalytic combustors  
RT environmental engineering  
RT fabric filters  
RT fluidized-bed combustors  
RT granular bed filters  
RT inertial separators  
RT noise pollution control  
RT off-gas systems  
RT pollution  
RT pollution control  
RT scrubbing  
RT stack disposal  
RT sulfur meters

### **POLLUTION LAWS**

1990-12-15  
(Prior to December 1990, this descriptor was spelled POLLUTION LAW.)

BT1 laws  
NT1 clean air acts  
NT1 clean water acts  
NT1 us superfund  
RT kyoto protocol  
RT pollution control agencies  
RT pollution regulations  
RT transfrontier pollution

### **POLLUTION REGULATIONS**

*Regulations for nonradioactive pollution only; see also CONTAMINATION REGULATIONS.*

\*BT1 regulations  
RT clean air acts  
RT clean water acts  
RT contamination regulations  
RT enforcement  
RT federal test procedure  
RT pollution  
RT pollution abatement  
RT pollution control  
RT pollution control agencies  
RT pollution laws  
RT transfrontier pollution

### **POLLUTION SOURCES**

*INIS: 1992-03-09; ETDE: 1979-12-10*  
UF area pollution sources  
NT1 mobile pollutant sources  
NT1 point pollutant sources  
NT1 stationary pollutant sources  
RT carbon sources  
RT pollutants

### ***poloidal divertor experiment***

*INIS: 1978-07-03; ETDE: 1977-11-28*  
USE pdx devices

### ***poloidal divertors***

*INIS: 2000-04-12; ETDE: 1979-09-26*  
(Prior to July 1985, this was a valid ETDE descriptor.)  
USE poloidal field divertors

### **POLOIDAL FIELD DIVERTORS**

*INIS: 1981-07-06; ETDE: 1981-08-04*  
*Divertors that displace the poloidal field lines to form a separatrix in the poloidal field.*  
UF poloidal divertors  
BT1 divertors  
RT pbx devices  
RT pdx devices

### **POLONIUM**

\*BT1 metals  
RT natural radioactivity

### **POLONIUM 188**

2002-08-13  
\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 microseconds living radioisotopes  
\*BT1 polonium isotopes

### **POLONIUM 190**

*INIS: 2000-06-15; ETDE: 2002-03-28*  
\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 polonium isotopes

### **POLONIUM 192**

\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 polonium isotopes

### **POLONIUM 193**

\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 polonium isotopes

### **POLONIUM 194**

\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 polonium isotopes

### **POLONIUM 195**

\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 polonium isotopes  
\*BT1 seconds living radioisotopes

### **POLONIUM 196**

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 polonium isotopes  
\*BT1 seconds living radioisotopes

### **POLONIUM 197**

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 polonium isotopes  
\*BT1 seconds living radioisotopes

### **POLONIUM 198**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 polonium isotopes

### **POLONIUM 199**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 polonium isotopes

### **POLONIUM 200**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei







**NT1** agar  
**NT1** alginic acid  
**NT1** cellophane  
**NT1** cellulose  
**NT1** dextran  
**NT1** dextrin  
**NT1** glycogen  
**NT1** gum acacia  
**NT1** hemicellulose  
**NT2** xylans  
**NT1** inulin  
**NT1** lignin  
**NT1** lipopolysaccharides  
**NT1** mucopolysaccharides  
**NT2** chitin  
**NT2** chondroitin  
**NT2** heparin  
**NT2** hyaluronic acid  
**NT1** mucoproteins  
**NT2** haptoglobins  
**NT2** intrinsic factor  
**NT2** phytohemagglutinin  
**NT1** nitrocellulose  
**NT1** pectins  
**NT1** rayon  
**NT1** starch  
**NT1** viscose  
**NT1** xanthan gum  
*RT* endotoxins  
*RT* lysozyme  
*RT* pyrogens  
*RT* zymosan

**POLYSTYRENE**

*UF* styrene polymers  
**\*BT1** plastics  
**\*BT1** polyolefins  
**\*BT1** polyvinyls  
*RT* styrene

**POLYSTYRENE-DVB**

*UF* styrene-divinylbenzene copolymer  
**\*BT1** organic ion exchangers  
**\*BT1** polyolefins

**polysulfides**

USE sulfides

**POLYTETRAFLUOROETHYLENE**

*INIS: 2000-04-12; ETDE: 1978-05-03*  
*UF* ptfe  
**\*BT1** fluorinated aliphatic hydrocarbons  
**\*BT1** polyethylenes  
**NT1** teflon

**polytetraoxane**

*INIS: 2000-04-12; ETDE: 1980-12-08*  
 USE heterocyclic oxygen compounds  
 USE organic polymers

**polythene**

USE polyethylenes

**polythionates**

USE oxygen compounds  
 USE sulfur compounds

**polythionic acids**

USE inorganic acids  
 USE oxygen compounds  
 USE sulfur compounds

**POLYURETHANES**

**\*BT1** plastics  
**\*BT1** polyamides  
**NT1** halthane  
*RT* urethane

**POLYVINYLACETATE**

2005-02-22  
**\*BT1** acetic acid esters  
**\*BT1** polyvinyls

**polyvinyl alcohol**

USE pva

**polyvinyl chloride**

USE pvc

**polyvinylpyrrolidone**

USE pvp

**POLYVINYL**

*UF* poly(vinylidene fluoride)  
*UF* vinoflex  
**\*BT1** organic polymers  
**NT1** polyacrylates  
**NT2** lucite  
**NT2** perspex  
**NT2** plexiglas  
**NT2** pmma  
**NT1** polystyrene  
**NT1** polyvinyl acetate  
**NT1** pva  
**NT1** pvc  
**NT1** pvp  
**NT1** tedlar  
*RT* glazing materials

**POMERANCHUK PARTICLES**

*UF* pomeron  
**BT1** quasi particles  
*RT* morrison rule  
*RT* regge poles

**POMERANCHUK POLES**

*RT* regge poles

**POMERANCHUK THEOREM**

*RT* antiparticle beams  
*RT* interactions  
*RT* particle beams  
*RT* total cross sections

**pomeron**

USE pomeranchuk particles

**ponderomotive effect**

*INIS: 1989-04-20; ETDE: 2002-04-26*  
 USE ponderomotive force

**PONDEROMOTIVE FORCE**

*INIS: 1989-04-20; ETDE: 1989-05-11*  
*UF* ponderomotive effect  
*RT* charged particles  
*RT* coulomb field  
*RT* electromagnetic fields  
*RT* lorentz force

**PONDS**

1992-04-07  
*UF* pools  
**BT1** surface waters  
**NT1** cooling ponds  
**NT1** settling ponds  
**NT1** solar ponds  
**NT2** roof ponds  
*RT* lakes

**ponds (cooling)**

1992-06-05  
 USE cooling ponds

**POOL BOILING**

**\*BT1** boiling

**pool critical assembly orn1**

USE orn1-pca reactor

**pool event**

*INIS: 2000-04-12; ETDE: 1977-06-21*  
 USE anvil project

**pool test reactor chalk river**

1993-11-09  
 USE ptr reactor

**POOL TYPE REACTORS**

*UF* swimming pool reactors  
**\*BT1** water cooled reactors  
**\*BT1** water moderated reactors  
**NT1** agata reactor  
**NT1** apsara reactor  
**NT1** armf-1 reactor  
**NT1** astra reactor  
**NT1** atrc reactor  
**NT1** avogadro rs-1 reactor  
**NT1** barn reactor  
**NT1** bawtr reactor  
**NT1** ber-2 reactor  
**NT1** brr reactor  
**NT1** bsr-1 reactor  
**NT1** bsr-2 reactor  
**NT1** cabri reactor  
**NT1** consort-2 reactor  
**NT1** cp-6 reactor  
**NT1** crocus reactor  
**NT1** democritus reactor  
**NT1** dr-2 reactor  
**NT1** etrc reactor  
**NT1** etrr-2 reactor  
**NT1** fmrh reactor  
**NT1** fir reactor  
**NT1** frg-1 reactor  
**NT1** frg-2 reactor  
**NT1** frj-1 reactor  
**NT1** frm-ii reactor  
**NT1** frm reactor  
**NT1** frn reactor  
**NT1** ga siwabassy reactor  
**NT1** gtr reactor  
**NT1** gulf triga-mk-3 reactor  
**NT1** hanaro reactor  
**NT1** herald reactor  
**NT1** hor reactor  
**NT1** horace reactor  
**NT1** htr reactor  
**NT1** ian-r1 reactor  
**NT1** iear-1 reactor  
**NT1** ir-100 reactor  
**NT1** irl reactor  
**NT1** irr-1 reactor  
**NT1** irt-2000 djakarta reactor  
**NT1** irt-2000 moscow reactor  
**NT1** irt-c reactor  
**NT1** irt-f reactor  
**NT1** irt reactor  
**NT1** irt-sofia reactor  
**NT1** isis reactor  
**NT1** ivv-2m reactor  
**NT1** ivv-7 reactor  
**NT1** jen-1 reactor  
**NT1** jen-2 reactor  
**NT1** jen reactor  
**NT1** jrr-3m reactor  
**NT1** jrr-4 reactor  
**NT1** jules horowitz reactor  
**NT1** kur reactor  
**NT1** la reina rech-1 reactor  
**NT1** lido reactor  
**NT1** lo aguirre rech-2 reactor  
**NT1** lpr reactor  
**NT1** lptr reactor  
**NT1** lr-0 reactor  
**NT1** ltir reactor  
**NT1** maria reactor  
**NT1** maryla reactor  
**NT1** melusine-1 reactor  
**NT1** merlin reactor  
**NT1** minerve reactor  
**NT1** mnr reactor  
**NT1** nscr reactor  
**NT1** nur reactor  
**NT1** opal reactor  
**NT1** osur reactor  
**NT1** parr-1 reactor





**PORTABLE EQUIPMENT**

INIS: 1983-06-30; ETDE: 1983-07-20

To be used only if portability is unusual or is the significant aspect of the equipment.

- BT1 equipment
- RT laboratory equipment
- RT portable sources

**portable medium power plant 2a**

USE pm-2a reactor

**portable medium power plant 3a**

USE pm-3a reactor

**PORTABLE SOURCES**

- BT1 radiation sources
- RT portable equipment

**PORTAL SYSTEM**

- \*BT1 veins
- RT intestinal absorption
- RT intestines
- RT liver

**PORTER-THOMAS DISTRIBUTION**

- RT compound nuclei
- RT level widths

**portevin-le chatelier effect**

2000-04-12

The continually repeating non-smooth deformation of a specimen when subjected to a uniformly increasing stress.

(Prior to May 1996 this was a valid ETDE descriptor.)

USE deformation

**PORTLAND CEMENT**

1992-05-08

- \*BT1 cements
- RT cement industry
- RT lime-soda sinter process
- RT spent shales

**portmanteau event**

INIS: 2000-04-12; ETDE: 1975-12-16

A test made during PROJECT BEDROCK.

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE nuclear explosions
- USE underground explosions

**ports**

2000-04-12

USE harbors

**PORTSMOUTH CENTRIFUGE ENRICHMENT PLANT**

INIS: 1982-08-27; ETDE: 1981-05-18

Portsmouth centrifuge enrichment plant.

- UF gcep
- SF portsmouth plant
- \*BT1 centrifuge enrichment plants
- \*BT1 us doe
- RT enriched uranium
- RT isotope separation
- RT ohio

**PORTSMOUTH GASEOUS DIFFUSION PLANT**

INIS: 1975-10-09; ETDE: 1975-12-16

- SF portsmouth plant
- \*BT1 gaseous diffusion plants
- \*BT1 us doe
- \*BT1 us erda
- RT ohio

**portsmouth plant**

INIS: 1992-06-04; ETDE: 1976-05-19

- SEE portsmouth centrifuge enrichment plant
- SEE portsmouth gaseous diffusion plant

**PORTUGAL**

1995-04-03

- BT1 developing countries
- \*BT1 western europe
- NT1 azores islands
- RT oecd

**portuguese jen research reactor**

USE jen reactor

**PORTUGUESE ORGANIZATIONS**

2004-03-31

- BT1 national organizations

**position (optical)**

USE coordinates

**position (radio)**

USE coordinates

**position dependence**

INIS: 2000-04-12; ETDE: 1979-08-07

USE space dependence

**position indicators**

USE displacement gages

**POSITION OPERATORS**

- \*BT1 quantum operators
- RT coordinates

**POSITION SENSITIVE DETECTORS**

- \*BT1 radiation detectors
- RT counting techniques
- RT superconducting colloid detectors

**POSITIONING**

INIS: 1982-12-07; ETDE: 1977-03-08

Not for SITE SELECTION.

- UF emplacement
- RT alignment
- RT fuel elements
- RT global positioning system
- RT in core instruments
- RT offshore platforms
- RT pipelines
- RT ships
- RT stowage
- RT targets
- RT thrusters

**POSITIVE COLUMN**

RT electric discharges

**positive crankcase ventilation systems**

INIS: 2000-04-12; ETDE: 1979-03-05

USE pcv systems

**positive excess**

1996-07-08

(Until June 1996 this was a valid descriptor.)

- SEE cosmic radiation
- SEE electric charges

**positive ions**

USE cations

**POSITRON-ATOM COLLISIONS**

- \*BT1 atom collisions
- \*BT1 positron collisions

**POSITRON BEAMS**

- UF beta beams (positrons)
- \*BT1 lepton beams
- RT positrons

**POSITRON CAMERAS**

Coincidence gamma cameras for positron annihilation imaging.

- \*BT1 gamma cameras
- RT coincidence methods
- RT emission computed tomography
- RT nuclear medicine

- RT positron computed tomography
- RT positron detection
- RT radioisotope scanners

**POSITRON CHANNELING**

BT1 channeling

**POSITRON COLLISIONS**

- BT1 collisions
- NT1 electron-positron collisions
- NT1 photon-positron collisions
- NT1 positron-atom collisions
- NT1 positron-ion collisions
- NT1 positron-molecule collisions
- NT1 positron-positron collisions

**POSITRON COMPUTED TOMOGRAPHY**

INIS: 1980-04-02; ETDE: 1980-05-07

UF pet scanning

UF pett

- \*BT1 emission computed tomography
- RT positron cameras
- RT radioisotope scanning

**positron decay**

USE beta-plus decay

**POSITRON DETECTION**

INIS: 1986-04-04; ETDE: 1979-04-11

(Prior to April 1986 this concept was expressed by co-ordination of ELECTRON DETECTION and POSITRONS.)

- \*BT1 charged particle detection
- RT beta detection
- RT electron detection
- RT positron cameras

**positron-electron-proton storage ring**

1993-11-09

USE pep storage rings

**POSITRON-ION COLLISIONS**

- \*BT1 ion collisions
- \*BT1 positron collisions

**POSITRON-MOLECULE COLLISIONS**

- \*BT1 molecule collisions
- \*BT1 positron collisions

**POSITRON-POSITRON COLLISIONS**

ETDE: 1989-09-15

\*BT1 positron collisions

**POSITRON-POSITRON INTERACTIONS**

INIS: 1986-05-23; ETDE: 1980-05-06

\*BT1 lepton-lepton interactions

**POSITRON REACTIONS**

INIS: 1977-09-15; ETDE: 1977-11-10

\*BT1 lepton reactions

**POSITRON SOURCES**

INIS: 1975-09-16; ETDE: 1975-10-28

- \*BT1 particle sources
- RT positrons

**POSITRONIUM**

(From December 1975 till May 1996 POSITRONIUM CHEMISTRY was a valid ETDE descriptor.)

- SF positronium chemistry
- RT atoms
- RT electrons
- RT muonium
- RT positronium compounds
- RT positrons
- RT protonium

**positronium chemistry**

INIS: 2000-04-12; ETDE: 1975-12-16

Use CHEMISTRY, CHEMICAL

PROPERTIES, or CHEMICAL REACTIONS

(or an NT) in addition to one of the descriptors below.

(Prior to May 1996 this was a valid ETDE descriptor.)

SEE positronium

SEE positronium compounds

**POSITRONIUM COMPOUNDS**

INIS: 1985-09-09; ETDE: 1977-05-07

Atom-positronium systems of the type (X;Ps) or (X<sup>-</sup>;e<sup>+</sup>).

SF positronium chemistry

RT positronium

**POSITRONS**

\*BT1 antileptons

NT1 cosmic positrons

RT beta particles

RT electron pairs

RT electrons

RT positron beams

RT positron sources

RT positronium

**possession (nuclear materials)**

INIS: 1976-12-08; ETDE: 2002-04-26

USE nuclear materials possession

**POST-IRRADIATION****EXAMINATION**

1981-04-03

RT ceramography

RT chemical analysis

RT destructive testing

RT electron microprobe analysis

RT fuel elements

RT inspection

RT performance testing

RT spectroscopy

**POST-IRRADIATION THERAPY**

\*BT1 therapy

RT biological recovery

RT blood substitutes

**POST-TRANSLATION****MODIFICATION**

INIS: 1991-07-02; ETDE: 1987-04-24

Chemical modification of proteins after translation of the messenger RNA but prior to their becoming biologically active.

\*BT1 biosynthesis

RT cell constituents

RT glucoproteins

RT glycoproteins

RT golgi complexes

RT messenger-rna

RT phosphoproteins

RT protein structure

RT proteins

RT proteolysis

RT transcription

**POSTAL SERVICES**

INIS: 2000-04-12; ETDE: 1980-08-12

RT delivery

RT vehicles

**POSTULATED PARTICLES**

1995-09-08

BT1 elementary particles

NT1 dyons

NT1 goldstone bosons

NT2 axions

NT1 gravitons

NT1 heavy neutral muons

NT1 higgs bosons

NT1 magnetic monopoles

NT1 preons

NT1 sparticles

NT1 spurions

NT1 tachyons

NT1 top particles

NT2 t quarks

**postum**

1995-11-06

USE polonium 210

**potable water**

INIS: 2000-04-12; ETDE: 1980-02-11

USE drinking water

**POTASSIUM**

\*BT1 alkali metals

**POTASSIUM 35**

1976-07-30

\*BT1 beta-plus decay radioisotopes

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 potassium isotopes

**POTASSIUM 36**

\*BT1 beta-plus decay radioisotopes

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 potassium isotopes

**POTASSIUM 37**

\*BT1 beta-plus decay radioisotopes

\*BT1 light nuclei

\*BT1 odd-even nuclei

\*BT1 potassium isotopes

\*BT1 seconds living radioisotopes

**POTASSIUM 38**

\*BT1 beta-plus decay radioisotopes

\*BT1 light nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 potassium isotopes

\*BT1 seconds living radioisotopes

**POTASSIUM 39**

\*BT1 light nuclei

\*BT1 odd-even nuclei

\*BT1 potassium isotopes

\*BT1 stable isotopes

**POTASSIUM 39 BEAMS**

INIS: 1976-07-06; ETDE: 1976-09-15

\*BT1 ion beams

**POTASSIUM 39 REACTIONS**

INIS: 1991-09-25; ETDE: 1994-08-10

\*BT1 heavy ion reactions

**POTASSIUM 39 TARGET**

ETDE: 1976-07-09

BT1 targets

**POTASSIUM 40**

\*BT1 beta-minus decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 light nuclei

\*BT1 nanoseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 potassium isotopes

\*BT1 years living radioisotopes

RT natural radioactivity

**POTASSIUM 40 TARGET**

ETDE: 1976-07-09

BT1 targets

**POTASSIUM 41**

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 potassium isotopes

\*BT1 stable isotopes

RT potassium 41 beams

**POTASSIUM 41 BEAMS**

INIS: 1976-07-06; ETDE: 1976-08-24

\*BT1 ion beams

RT potassium 41

**POTASSIUM 41 TARGET**

ETDE: 1976-07-09

BT1 targets

**POTASSIUM 42**

\*BT1 beta-minus decay radioisotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 potassium isotopes

**POTASSIUM 43**

\*BT1 beta-minus decay radioisotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 potassium isotopes

**POTASSIUM 44**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 potassium isotopes

**POTASSIUM 45**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 potassium isotopes

**POTASSIUM 46**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 potassium isotopes

**POTASSIUM 47**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 potassium isotopes

\*BT1 seconds living radioisotopes

**POTASSIUM 48**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 potassium isotopes

\*BT1 seconds living radioisotopes

**POTASSIUM 49**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 potassium isotopes

\*BT1 seconds living radioisotopes

**POTASSIUM 50**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 potassium isotopes

**POTASSIUM 51**

INIS: 1984-06-21; ETDE: 1981-01-27

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 potassium isotopes

**POTASSIUM 52**

*INIS: 1984-06-21; ETDE: 1982-05-12*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 potassium isotopes

**POTASSIUM 53**

*INIS: 1984-06-21; ETDE: 1984-02-10*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 potassium isotopes

**POTASSIUM 54**

*INIS: 1984-06-21; ETDE: 1984-02-10*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 potassium isotopes

**POTASSIUM ADDITIONS**

*Alloys containing not more than 1% K are listed here.*

- RT* potassium alloys

**POTASSIUM ALLOYS**

*Alloys containing more than 1% K.*

- UF* *nak*
- BT1 alloys
- NT1 potassium base alloys
- RT* potassium additions

**POTASSIUM BASE ALLOYS**

- \*BT1 potassium alloys

**POTASSIUM BORIDES**

- \*BT1 borides
- \*BT1 potassium compounds

**POTASSIUM BROMIDES**

- \*BT1 bromides
- \*BT1 potassium compounds

**POTASSIUM CARBIDES**

- \*BT1 carbides
- \*BT1 potassium compounds

**POTASSIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 potassium compounds

**POTASSIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 potassium compounds
- RT* carnallite
- RT* halide minerals

**POTASSIUM COMPLEXES**

- \*BT1 alkali metal complexes

**POTASSIUM COMPOUNDS**

*1996-07-23*

- UF* *potassium permanganates*
- UF* *potassium silicides*
- UF* *prussian blue*
- BT1 alkali metal compounds
- NT1 potassium borides
- NT1 potassium bromides
- NT1 potassium carbides
- NT1 potassium carbonates
- NT1 potassium chlorides
- NT1 potassium fluorides
- NT1 potassium hydrides
- NT1 potassium hydroxides
- NT1 potassium iodides

- NT1 potassium nitrates
- NT1 potassium nitrides
- NT1 potassium oxides
- NT1 potassium perchlorates
- NT1 potassium phosphates
- NT1 potassium phosphides
- NT1 potassium selenides
- NT1 potassium silicates
- NT1 potassium sulfates
- NT1 potassium sulfides
- NT1 potassium tellurides
- NT1 potassium tungstates
- NT1 potassium uranates
- NT1 potassium vanadates
- NT1 rochelle salt

**POTASSIUM COOLED REACTORS**

- \*BT1 liquid metal cooled reactors
- NT1 ebr-1 reactor
- NT1 ser reactor
- NT1 snap 10 reactor
- NT2 s10fs-1 reactor
- NT2 s10fs-3 reactor
- NT2 s10fs-4 reactor
- NT1 snap-tsf reactor
- NT1 snaptran reactors
- RT* nak cooled reactors

**POTASSIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 potassium compounds

**POTASSIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 potassium compounds

**POTASSIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 potassium compounds

**POTASSIUM IODIDES**

- \*BT1 inorganic phosphors
- \*BT1 iodides
- \*BT1 potassium compounds
- RT* lugol

**POTASSIUM IONS**

- \*BT1 ions

**POTASSIUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 potassium 35
- NT1 potassium 36
- NT1 potassium 37
- NT1 potassium 38
- NT1 potassium 39
- NT1 potassium 40
- NT1 potassium 41
- NT1 potassium 42
- NT1 potassium 43
- NT1 potassium 44
- NT1 potassium 45
- NT1 potassium 46
- NT1 potassium 47
- NT1 potassium 48
- NT1 potassium 49
- NT1 potassium 50
- NT1 potassium 51
- NT1 potassium 52
- NT1 potassium 53
- NT1 potassium 54

**POTASSIUM NITRATES**

- \*BT1 nitrates
- \*BT1 potassium compounds

**POTASSIUM NITRIDES**

- \*BT1 nitrides
- \*BT1 potassium compounds

**POTASSIUM OXIDES**

- \*BT1 oxides
- \*BT1 potassium compounds
- RT* clarkeite
- RT* oxide minerals

**POTASSIUM PERCHLORATES**

- \*BT1 perchlorates
- \*BT1 potassium compounds

***potassium permanganates***

*INIS: 2000-04-12; ETDE: 1975-09-11*

(Prior to April 1997 this was a valid ETDE descriptor.)

- USE permanganates
- USE potassium compounds

**POTASSIUM PHOSPHATES**

- \*BT1 phosphates
- \*BT1 potassium compounds

**POTASSIUM PHOSPHIDES**

*INIS: 1991-09-16; ETDE: 1984-12-26*

- \*BT1 phosphides
- \*BT1 potassium compounds

**POTASSIUM SELENIDES**

*INIS: 1991-09-16; ETDE: 1978-04-06*

- \*BT1 potassium compounds
- \*BT1 selenides

**POTASSIUM SILICATES**

*1996-11-13*

- \*BT1 potassium compounds
- \*BT1 silicates
- RT* silicate minerals

***potassium silicides***

*INIS: 1996-07-23; ETDE: 1977-01-10*

(Until July 1996 this was a valid descriptor.)

- USE potassium compounds
- USE silicides

**POTASSIUM SULFATES**

- \*BT1 potassium compounds
- \*BT1 sulfates
- RT* polyhalite
- RT* sulfate minerals

**POTASSIUM SULFIDES**

- \*BT1 potassium compounds
- \*BT1 sulfides

**POTASSIUM TELLURIDES**

*INIS: 1979-09-18; ETDE: 1978-01-23*

- \*BT1 potassium compounds
- \*BT1 tellurides

**POTASSIUM TUNGSTATES**

*INIS: 1978-05-19; ETDE: 1976-01-23*

- \*BT1 potassium compounds
- \*BT1 tungstates

**POTASSIUM URANATES**

*INIS: 1975-11-27; ETDE: 1975-08-19*

- \*BT1 potassium compounds
- \*BT1 uranates

**POTASSIUM VANADATES**

*INIS: 1991-09-16; ETDE: 1981-06-13*

- \*BT1 potassium compounds
- \*BT1 vanadates

***potato plant***

- USE *solanum tuberosum*

***potato tubers***

- USE *potatoes*

**POTATOES**

- UF* *potato tubers*
- BT1 tubers
- \*BT1 vegetables
- RT* *solanum tuberosum*

RT sprout inhibition

### **potential (electric)**

INIS: 1981-10-15; ETDE: 1979-03-27

USE electric potential

### **potential barriers**

INIS: 2000-04-12; ETDE: 1979-04-11

USE potentials

### **POTENTIAL ENERGY**

BT1 energy

NT1 fission barrier

RT kinetic energy

RT lagrangian function

RT landau-zener formula

RT potentials

### **POTENTIAL FLOW**

BT1 fluid flow

### **POTENTIAL SCATTERING**

\*BT1 elastic scattering

RT coulomb scattering

RT potentials

### **POTENTIALS**

INIS: 1996-06-28; ETDE: 1979-04-11

For the mathematical construct from which forces are derived by differentiation; not for ELECTRIC POTENTIAL.

UF levy-klein potential

UF levy potential

UF periodic potentials

UF potential barriers

NT1 buckingham potential

NT1 central potential

NT1 kihara potential

NT1 lennard-jones potential

NT1 morse potential

NT1 muffin-tin potential

NT1 nonlocal potential

NT1 nuclear potential

NT2 fission barrier

NT2 hard-core potential

NT2 harmonic potential

NT2 hulthen potential

NT2 soft-core potential

NT2 square-well potential

NT2 woods-saxon potential

NT2 yukawa potential

NT1 nucleon-nucleon potential

NT2 gauss potential

NT2 hamada-johnston potential

NT2 reid potential

NT2 schiffer potential

NT2 skyrme potential

NT2 surface delta potential

NT2 yamaguchi potential

NT1 ope potential

NT2 gammel-thaler potential

NT1 roche equipotentials

NT1 surface potential

NT1 tabakin potential

RT basic interactions

RT electromagnetic fields

RT gravitational fields

RT interatomic forces

RT intermolecular forces

RT noncentral forces

RT nuclear forces

RT potential energy

RT potential scattering

RT rosenfeld force

RT tensor forces

### **POTENTIOMETERS**

1983-02-04

\*BT1 electric measuring instruments

RT potentiostats

RT resistors

### **potentiometers (variable resistors)**

INIS: 1993-11-09; ETDE: 2002-04-26

USE resistors

### **POTENTIOMETRY**

1996-10-23

\*BT1 titration

RT redox potential

### **POTENTIOSTATS**

INIS: 2000-04-12; ETDE: 1979-03-28

Automatic instruments that control the potential of working electrodes during coulometric titrations.

BT1 measuring instruments

RT potentiometers

RT titration

RT voltametry

### **POTHEADS**

INIS: 2000-04-12; ETDE: 1977-03-08

Hermetically sealed terminations for electric cables.

\*BT1 electrical equipment

RT connectors

### **POTOMAC RIVER**

1977-09-06

\*BT1 rivers

RT maryland

RT potomac river basin

RT virginia

RT west virginia

### **POTOMAC RIVER BASIN**

INIS: 1992-01-14; ETDE: 1980-11-08

BT1 watersheds

RT maryland

RT pennsylvania

RT potomac river

RT virginia

RT washington dc

RT west virginia

### **potorous**

USE marsupials

### **pott-broche process**

2000-04-12

Direct conversion of coal to synthetic crude oil by hydrogenation after solvent extraction. (Prior to March 1994, this was a valid ETDE descriptor.)

USE coal liquefaction

### **POTTING**

INIS: 1986-04-04; ETDE: 1979-04-12

Encapsulation with a shock-absorbing dielectric material.

RT dielectric materials

RT electrical equipment

RT electronic equipment

RT encapsulation

RT impact shock

RT potting materials

### **POTTING MATERIALS**

INIS: 1986-04-04; ETDE: 1979-03-29

Shock-absorbing dielectric materials used for encapsulation.

BT1 materials

RT dielectric materials

RT electrical equipment

RT electronic equipment

RT encapsulation

RT epoxides

RT potting

### **poultry**

USE fowl

### **POUR POINT**

2000-04-12

The lowest temperature at which a substance flows under specified conditions.

RT fluids

RT liquids

### **POWDER METALLURGY**

BT1 metallurgy

RT compacting

RT powders

RT sintered materials

RT sintering

### **POWDER RIVER BASIN**

INIS: 1992-06-04; ETDE: 1985-08-22

\*BT1 montana

BT1 watersheds

\*BT1 wyoming

RT coal deposits

RT natural gas deposits

RT petroleum deposits

RT sedimentary basins

### **POWDERS**

RT compacts

RT debye-scherrer method

RT dusts

RT elutriation

RT granular materials

RT particle size

RT particles

RT powder metallurgy

RT pulverized fuels

RT sintered materials

RT specific surface area

### **POWER**

NT1 electric power

NT2 hydroelectric power

NT2 off-peak power

NT2 surplus power

NT1 nuclear power

NT2 residual power

NT1 wave power

NT1 wind power

RT energy consumption

RT power generation

RT power input

RT power range

RT thermonuclear reactors

### **POWER AMPLIFIERS**

\*BT1 amplifiers

### **power beaming**

INIS: 1992-08-11; ETDE: 2002-04-26

USE laser power transmission

### **power burst facility usaec**

2000-04-12

USE pbf reactor

### **POWER COEFFICIENT**

BT1 reactivity coefficients

### **POWER CONDITIONING CIRCUITS**

1999-07-05

(Prior to December 1990, this concept was indexed by POWERCONDITIONING SYSTEMS and ELECTRONIC CIRCUITS.)

UF power conditioning systems

BT1 electronic circuits

RT control systems

RT dc to dc converters

RT inverters

RT power supplies

**power conditioning systems**

INIS: 1990-12-15; ETDE: 1975-12-16  
(Prior to December 1990, this was a valid descriptor.)

USE power conditioning circuits

**POWER-COOLING-MISMATCH****ACCIDENTS**

UF pcm accidents

\*BT1 reactor accidents

**POWER DEMAND**

UF loads (power demand)

BT1 demand

RT demand factors

RT electric power

RT energy demand

RT fill factors

RT off-peak power

RT peak load

**POWER DENSITY**

UF density (power)

NT1 wall loading

RT neutron density

RT power distribution

RT reactor cores

RT reactor lattices

**POWER DISTRIBUTION**

INIS: 1999-10-12; ETDE: 1975-07-29

The spatial distribution of power level throughout a reactor core or fuel element. Not to be confused with the movement of power from one point to another, for which see POWER TRANSMISSION.

RT power density

RT reactor cores

**POWER DISTRIBUTION SYSTEMS**

INIS: 1992-04-02; ETDE: 1981-03-17

Systems for distributing electric power from convenient points on the transmission or bulk power system to the consumers.

RT gas-insulated substations

RT power substations

RT power systems

RT power transmission

**power excursions**

USE excursions

**POWER FACTOR**

INIS: 2000-06-27; ETDE: 1977-09-19

The ratio of the average or active power to the apparent power.

UF phase factor

BT1 dimensionless numbers

RT interconnected power systems

RT power generation

RT power systems

RT power transmission

RT var control systems

**POWER GENERATION**

UF power production

NT1 cogeneration

NT1 microgeneration

NT1 on-site power generation

RT capacity

RT dispersed storage and generation

RT dual-purpose power plants

RT electric power

RT fill factors

RT flood control

RT gas turbine power plants

RT interconnected power systems

RT nuclear power

RT power

RT power factor

RT power plants

RT power pooling

RT power substations

RT power systems

RT refuse-fueled power plants

**POWER INPUT**

INIS: 1985-01-18; ETDE: 1977-09-19

Power required to operate machinery, appliance, or other device.

UF wattage

RT power

**POWER LOSSES**

INIS: 1999-07-06; ETDE: 1979-01-30

UF line losses

\*BT1 energy losses

RT electric power

RT outages

RT power transmission

**POWER METERS**

INIS: 1992-07-22; ETDE: 1978-01-23

UF watt-hour meters

\*BT1 electric measuring instruments

\*BT1 meters

RT electric power

RT energy consumption

RT master metering

RT metering

RT peak-load pricing

**power plant and industrial fuel use****act**

INIS: 2000-04-12; ETDE: 1980-05-06

(Prior to February 1992 this was a valid ETDE descriptor.)

USE us power plant and industrial fuel use act

**POWER PLANTS**

UF douglas power site

UF plants (power)

NT1 dual-purpose power plants

NT1 fuel cell power plants

NT1 gas turbine power plants

NT1 hydroelectric power plants

NT2 high-head hydroelectric power plants

NT2 low-head hydroelectric power plants

NT2 medium-head hydroelectric power plants

NT2 micro-scale hydroelectric power plants

NT2 pumped storage power plants

NT2 small-scale hydroelectric power plants

NT1 mhd power plants

NT2 mhd generator etf

NT1 peaking power plants

NT2 compressed air storage power plants

NT2 pumped storage power plants

NT1 solar power plants

NT2 ocean thermal power plants

NT2 orbital solar power plants

NT2 photovoltaic power plants

NT2 salinity gradient power plants

NT2 solar thermal power plants

NT3 distributed collector power plants

NT3 tower focus power plants

NT4 barstow solar pilot plant

NT1 thermal power plants

NT2 combined-cycle power plants

NT3 mhd generator etf

NT2 fossil-fuel power plants

NT3 kingston steam plant

NT3 paradise steam plant

NT3 shawnee steam plant

NT3 widows creek steam plant

NT2 geothermal power plants

NT2 nuclear power plants

NT3 bopssar standard plant

NT3 ebasco standard plant

NT3 gibbsar standard plant

NT3 offshore nuclear power plants

NT3 swessar standard plant

NT3 underground nuclear stations

NT2 ocean thermal power plants

NT2 refuse-fueled power plants

NT2 solar thermal power plants

NT3 distributed collector power plants

NT3 tower focus power plants

NT4 barstow solar pilot plant

NT2 thermonuclear power plants

NT2 wood-fuel power plants

NT1 tidal power plants

NT2 kislogubsk power plant

NT2 passamaquoddy power plant

NT2 rance power plant

NT1 wind power plants

NT2 efd wind generators

RT combined cycles

RT electric power

RT off-peak power

RT on-site power generation

RT outages

RT power generation

RT power substations

RT power systems

**power-plutonium production reactor richland**

INIS: 1993-11-09; ETDE: 2002-04-26

USE n-reactor

**POWER POOLING**

INIS: 1999-07-07; ETDE: 1982-02-23

Coordination among electric utilities through formal agreements to share the planning and operation of power generation and transmission facilities.

RT electric utilities

RT interconnected power systems

RT power generation

RT power transmission

**power pools**

INIS: 2000-04-12; ETDE: 1980-03-04

USE interconnected power systems

**POWER POTENTIAL**

2000-04-12

RT electric power

**power production**

ETDE: 2002-04-26

USE power generation

**POWER RANGE**

INIS: 1988-04-15; ETDE: 1989-08-10

NT1 exawatt power range

NT2 power range 01-10 ew

NT2 power range 10-100 ew

NT2 power range 100-1000 ew

NT1 gigawatt power range

NT2 power range 01-10 gw

NT2 power range 10-100 gw

NT2 power range 100-1000 gw

NT1 kilowatt power range

NT2 power range 01-10 kw

NT2 power range 10-100 kw

NT2 power range 100-1000 kw

NT1 megawatt power range

NT2 power range 01-10 mw

NT2 power range 10-100 mw

NT2 power range 100-1000 mw

NT1 milliwatt power range

NT2 power range 01-10 milli w

NT2 power range 10-100 milli w

NT2 power range 100-1000 milli w  
 NT1 petawatt power range  
 NT2 power range 01-10 pw  
 NT2 power range 10-100 pw  
 NT2 power range 100-1000 pw  
 NT1 terawatt power range  
 NT2 power range 01-10 tw  
 NT2 power range 10-100 tw  
 NT2 power range 100-1000 tw  
 NT1 watt power range  
 NT2 power range 01-10 w  
 NT2 power range 10-100 w  
 NT2 power range 100-1000 w  
 RT power

**POWER RANGE 01-10 EW**

INIS: 2003-08-15; ETDE: 2002-09-17

\*BT1 exawatt power range

**POWER RANGE 01-10 GW**

1988-04-15

(Prior to November 1989, this descriptor was POWER RANGE 1-10 GW.)

\*BT1 gigawatt power range

**POWER RANGE 01-10 KW**

1988-04-15

(Prior to November 1989, this descriptor was POWER RANGE 1-10 KW.)

\*BT1 kilowatt power range

**POWER RANGE 01-10 MILLI W**

2003-08-18

\*BT1 milliwatt power range

**POWER RANGE 01-10 MW**

1988-04-15

(Prior to November 1989, this descriptor was POWER RANGE 1-10 MW.)

\*BT1 megawatt power range

**POWER RANGE 01-10 PW**

INIS: 2003-08-15; ETDE: 2002-09-17

\*BT1 petawatt power range

**POWER RANGE 01-10 TW**

INIS: 2000-04-12; ETDE: 1982-05-24

(Prior to November 1989, this descriptor was POWER RANGE 1-10 TW.)

\*BT1 terawatt power range

**POWER RANGE 01-10 W**

1988-04-15

(Prior to November 1989, this descriptor was POWER RANGE 1-10 W.)

\*BT1 watt power range

**POWER RANGE 10-100 EW**

INIS: 2003-08-15; ETDE: 2002-09-17

\*BT1 exawatt power range

**POWER RANGE 10-100 GW**

INIS: 1988-04-15; ETDE: 1975-09-11

\*BT1 gigawatt power range

**POWER RANGE 10-100 KW**

1988-04-15

\*BT1 kilowatt power range

**POWER RANGE 10-100 MILLI W**

2003-08-18

\*BT1 milliwatt power range

**POWER RANGE 10-100 MW**

1988-04-15

\*BT1 megawatt power range

**POWER RANGE 10-100 PW**

INIS: 2003-08-15; ETDE: 2002-09-17

\*BT1 petawatt power range

**POWER RANGE 10-100 TW**

INIS: 2003-08-15; ETDE: 2002-09-17

\*BT1 terawatt power range

**POWER RANGE 10-100 W**

1988-04-15

\*BT1 watt power range

**POWER RANGE 100-1000 EW**

INIS: 2003-08-15; ETDE: 2002-09-17

\*BT1 exawatt power range

**POWER RANGE 100-1000 GW**

INIS: 1988-04-15; ETDE: 1975-09-11

\*BT1 gigawatt power range

**POWER RANGE 100-1000 KW**

1988-04-15

\*BT1 kilowatt power range

**POWER RANGE 100-1000 MILLI W**

2003-08-18

\*BT1 milliwatt power range

**POWER RANGE 100-1000 MW**

1988-04-15

\*BT1 megawatt power range

**POWER RANGE 100-1000 PW**

INIS: 2003-08-15; ETDE: 2002-09-17

\*BT1 petawatt power range

**POWER RANGE 100-1000 TW**

INIS: 2003-08-15; ETDE: 2002-09-17

\*BT1 terawatt power range

**POWER RANGE 100-1000 W**

1988-04-15

\*BT1 watt power range

**power range milli w**

2000-04-12

USE milliwatt power range

**power reactor and nuclear fuel development corporation**

1993-11-09

The Power Reactor and Nuclear Fuel Development Corporation (PNC) was reorganized and renamed as the Japan Nuclear Cycle Development Institute (JNC) in October 1998.

USE pnc

**POWER REACTORS**

1996-02-09

BT1 reactors

NT1 agesta reactor

NT1 aipfr reactor

NT1 ao-phai-1 reactor

NT1 aps reactor

NT1 arbus reactor

NT1 avr reactor

NT1 beloyarsk-1 reactor

NT1 beloyarsk-2 reactor

NT1 beloyarsk-3 reactor

NT1 beloyarsk-4 reactor

NT1 bilibin reactor

NT1 bn-1600 reactor

NT1 bn-350 reactor

NT1 bn-800 reactor

NT1 bohunice a-1 reactor

NT1 bohunice a-2 reactor

NT1 bor-60 reactor

NT1 borax-3 reactor

NT1 borax-4 reactor

NT1 borax-5 reactor

NT1 bugey-1 reactor

NT1 bwr type reactors

NT2 allens creek-1 reactor

NT2 allens creek-2 reactor

NT2 bailly-1 reactor

NT2 barsebaeck-1 reactor

NT2 barsebaeck-2 reactor

NT2 barton-1 reactor

NT2 barton-2 reactor

NT2 barton-3 reactor

NT2 barton-4 reactor

NT2 bell reactor

NT2 big rock point reactor

NT2 black fox-1 reactor

NT2 black fox-2 reactor

NT2 bolsa chica-1 reactor

NT2 bolsa chica-2 reactor

NT2 bonus reactor

NT2 browns ferry-1 reactor

NT2 browns ferry-2 reactor

NT2 browns ferry-3 reactor

NT2 brunsbuettel reactor

NT2 brunswick-1 reactor

NT2 brunswick-2 reactor

NT2 chinshan-1 reactor

NT2 chinshan-2 reactor

NT2 clinton-1 reactor

NT2 clinton-2 reactor

NT2 cofrentes reactor

NT2 cooper reactor

NT2 dodewaard reactor

NT2 douglas point-1 reactor

NT2 douglas point-2 reactor

NT2 dresden-1 reactor

NT2 dresden-2 reactor

NT2 dresden-3 reactor

NT2 duane arnold-1 reactor

NT2 ebwr reactor

NT2 enel-4 reactor

NT2 enrico fermi-2 reactor

NT2 err reactor

NT2 fitzpatrick reactor

NT2 forsmark-1 reactor

NT2 forsmark-2 reactor

NT2 forsmark-3 reactor

NT2 fukushima-1 reactor

NT2 fukushima-2 reactor

NT2 fukushima-3 reactor

NT2 fukushima-4 reactor

NT2 fukushima-5 reactor

NT2 fukushima-6 reactor

NT2 fukushima-ii-1 reactor

NT2 fukushima-ii-2 reactor

NT2 fukushima-ii-3 reactor

NT2 fukushima-ii-4 reactor

NT2 garigliano reactor

NT2 garona reactor

NT2 ge standard reactor

NT2 graben-1 reactor

NT2 graben-2 reactor

NT2 grand gulf-1 reactor

NT2 grand gulf-2 reactor

NT2 gundremmingen-2 reactor

NT2 gundremmingen-3 reactor

NT2 hamaoka-1 reactor

NT2 hamaoka-2 reactor

NT2 hamaoka-3 reactor

NT2 hamaoka-4 reactor

NT2 hamaoka-5 reactor

NT2 hartsville-1 reactor

NT2 hartsville-2 reactor

NT2 hartsville-3 reactor

NT2 hartsville-4 reactor

NT2 hatch-1 reactor

NT2 hatch-2 reactor

NT2 hdr reactor

NT2 hope creek-1 reactor

NT3 newbold island-1 reactor

NT2 hope creek-2 reactor

NT3 newbold island-2 reactor

NT2 humboldt bay reactor

NT2 isar reactor

NT2 jpdr-2 reactor

NT2 jpdr reactor

NT2 kaiseraugst reactor

NT2 kashiwazaki-kariwa-1 reactor

NT2 kashiwazaki-kariwa-2 reactor

NT2 kashiwazaki-kariwa-3 reactor

NT2	kashiwazaki-kariwa-4 reactor	NT1	chernobylsk-4 reactor	NT1	package reactors
NT2	kashiwazaki-kariwa-5 reactor	NT1	chinon-1 reactor	NT1	peach bottom-1 reactor
NT2	kashiwazaki-kariwa-6 reactor	NT1	chinon-2 reactor	NT1	pec brasimone reactor
NT2	kashiwazaki-kariwa-7 reactor	NT1	chinon-3 reactor	NT1	perryman-1 reactor
NT2	krummel reactor	NT1	clinch river breeder reactor	NT1	perryman-2 reactor
NT2	kuosheng-1 reactor	NT1	connah quay-b reactor	NT1	pfr reactor
NT2	kuosheng-2 reactor	NT1	dfr reactor	NT1	phenix reactor
NT2	la salle county-1 reactor	NT1	dragon reactor	NT1	plbr reactor
NT2	la salle county-2 reactor	NT1	dungeness-b reactor	NT1	pnpf reactor
NT2	lacbwr reactor	NT1	ebor reactor	NT1	pressure tube reactors
NT2	laguna verde-1 reactor	NT1	ebr-1 reactor	NT2	atucha-2 reactor
NT2	laguna verde-2 reactor	NT1	ebr-2 reactor	NT2	atucha reactor
NT2	leibstadt reactor	NT1	egcr reactor	NT2	candu type reactors
NT2	limerick-1 reactor	NT1	enrico fermi-1 reactor	NT3	bruce-1 reactor
NT2	limerick-2 reactor	NT1	epec reactor	NT3	bruce-2 reactor
NT2	lingen reactor	NT1	escom reactor	NT3	bruce-3 reactor
NT2	mendocino-1 reactor	NT1	evsr reactor	NT3	bruce-4 reactor
NT2	mendocino-2 reactor	NT1	fessenheim-2 reactor	NT3	bruce-5 reactor
NT2	millstone-1 reactor	NT1	fulton-1 reactor	NT3	bruce-6 reactor
NT2	montague-1 reactor	NT1	fulton-2 reactor	NT3	bruce-7 reactor
NT2	montague-2 reactor	NT1	ga standard reactor	NT3	bruce-8 reactor
NT2	montalto di castro-1 reactor	NT1	gcre reactor	NT3	cernavoda-1 reactor
NT2	montalto di castro-2 reactor	NT1	ginna-2 reactor	NT3	cordoba reactor
NT2	monticello reactor	NT1	hartlepool reactor	NT3	darlington-1 reactor
NT2	muehleberg reactor	NT1	hbwr reactor	NT3	darlington-2 reactor
NT2	nine mile point-1 reactor	NT1	heysham-a reactor	NT3	darlington-3 reactor
NT2	nine mile point-2 reactor	NT1	heysham-b reactor	NT3	darlington-4 reactor
NT2	okg-1 reactor	NT1	hinkley point-b reactor	NT3	douglas point ontario reactor
NT2	okg-2 reactor	NT1	hnpf reactor	NT3	embalse reactor
NT2	okg-3 reactor	NT1	hokuriku-1 reactor	NT3	gentilly-2 reactor
NT2	olkiluoto-1 reactor	NT1	hre-2 reactor	NT3	gentilly reactor
NT2	olkiluoto-2 reactor	NT1	hunterston-b reactor	NT3	kaiga-1 reactor
NT2	onagawa-1 reactor	NT1	ignalina-1 reactor	NT3	kaiga-2 reactor
NT2	onagawa-2 reactor	NT1	ignalina-2 reactor	NT3	kakrapar-1 reactor
NT2	onagawa-3 reactor	NT1	jervis bay reactor	NT3	kakrapar-2 reactor
NT2	oyster creek-1 reactor	NT1	joyo reactor	NT3	kanupp reactor
NT2	pathfinder reactor	NT1	kaiga-3 reactor	NT3	npd reactor
NT2	peach bottom-2 reactor	NT1	kaiga-4 reactor	NT3	pickering-1 reactor
NT2	peach bottom-3 reactor	NT1	knk-2 reactor	NT3	pickering-2 reactor
NT2	perry-1 reactor	NT1	knk reactor	NT3	pickering-3 reactor
NT2	perry-2 reactor	NT1	kursk-1 reactor	NT3	pickering-4 reactor
NT2	philippsburg-1 reactor	NT1	kursk-2 reactor	NT3	pickering-5 reactor
NT2	phipps bend-1 reactor	NT1	kursk-3 reactor	NT3	pickering-6 reactor
NT2	phipps bend-2 reactor	NT1	kursk-4 reactor	NT3	pickering-7 reactor
NT2	pilgrim-1 reactor	NT1	lampre-1 reactor	NT3	pickering-8 reactor
NT2	quad cities-1 reactor	NT1	leningrad-1 reactor	NT3	point lepreau-1 reactor
NT2	quad cities-2 reactor	NT1	leningrad-2 reactor	NT3	point lepreau-2 reactor
NT2	ringhals-1 reactor	NT1	leningrad-3 reactor	NT3	qinshan-3-1 reactor
NT2	river bend-1 reactor	NT1	leningrad-4 reactor	NT3	qinshan-3-2 reactor
NT2	river bend-2 reactor	NT1	leningrad-4 reactor	NT3	rajasthan-1 reactor
NT2	rwe-bayernwerk reactor	NT1	magnox type reactors	NT3	rajasthan-2 reactor
NT2	shika-1 reactor	NT2	berkeley reactor	NT3	rajasthan-3 reactor
NT2	shimane-1 reactor	NT2	bradwell reactor	NT3	rajasthan-4 reactor
NT2	shimane-2 reactor	NT2	calder hall a-1 reactor	NT3	wolsung-1 reactor
NT2	shoreham reactor	NT2	calder hall a-2 reactor	NT3	wolsung-2 reactor
NT2	skagit-1 reactor	NT2	calder hall b-3 reactor	NT3	wolsung-3 reactor
NT2	skagit-2 reactor	NT2	calder hall b-4 reactor	NT3	wolsung-4 reactor
NT2	sl-1 reactor	NT2	chapelcross-1 reactor	NT2	cirene reactor
NT2	susquehanna-1 reactor	NT2	chapelcross-2 reactor	NT2	cvtr reactor
NT2	susquehanna-2 reactor	NT2	chapelcross-3 reactor	NT2	el-4 reactor
NT2	tarapur-1 reactor	NT2	chapelcross-4 reactor	NT2	jatr reactor
NT2	tarapur-2 reactor	NT2	dungeness-a reactor	NT2	kalpakkam-1 reactor
NT2	tokai-2 reactor	NT2	hinkley point-a reactor	NT2	kalpakkam-2 reactor
NT2	tsuruga reactor	NT2	hunterston-a reactor	NT2	lucens reactor
NT2	tullnerfeld reactor	NT2	latina reactor	NT2	niederaichbach reactor
NT2	vak reactor	NT2	oldbury-a reactor	NT2	prtr reactor
NT2	vbwr reactor	NT2	sizewell-a reactor	NT2	sghwr reactor
NT2	vermont yankee reactor	NT2	tokai-mura reactor	NT1	propulsion reactors
NT2	verplanck-1 reactor	NT2	trawsfynydd reactor	NT2	aircraft propulsion reactors
NT2	verplanck-2 reactor	NT2	wylfa reactor	NT3	xma-1 reactor
NT2	vk-50 reactor	NT1	marviken reactor	NT2	ship propulsion reactors
NT2	wnp-2 reactor	NT1	ml-1 reactor	NT3	efdr-50 reactor
NT2	wuergassen reactor	NT1	monju reactor	NT3	lenin reactor
NT2	zimmer-1 reactor	NT1	msre reactor	NT3	leonid brezhnev reactor
NT2	zimmer-2 reactor	NT1	mzfr reactor	NT3	mutsu reactor
NT1	cdfr reactor	NT1	n-reactor	NT3	otto hahn reactor
NT1	chernobylsk-1 reactor	NT1	narora-1 reactor	NT3	savannah reactor
NT1	chernobylsk-2 reactor	NT1	narora-2 reactor	NT3	sibir reactor
NT1	chernobylsk-3 reactor	NT1	okg-4 reactor	NT2	space propulsion reactors
		NT1	oldbury-b reactor		

NT3	kiwi reactors	NT2	cattenom-4 reactor	NT2	isar-2 reactor
NT4	kiwi-tnt reactor	NT2	ce standard reactor	NT2	jamesport-1 reactor
NT3	nerva reactor	NT2	cherokee-1 reactor	NT2	jamesport-2 reactor
NT3	nrx-a1 reactor	NT2	cherokee-2 reactor	NT2	kewaunee reactor
NT3	nrx-a2 reactor	NT2	cherokee-3 reactor	NT2	koeberg-1 reactor
NT3	nrx-a3 reactor	NT2	chinon-b1 reactor	NT2	koeberg-2 reactor
NT3	nrx-a4-est reactor	NT2	civaux-1 reactor	NT2	kori-1 reactor
NT3	nrx-a5 reactor	NT2	civaux-2 reactor	NT2	kori-2 reactor
NT3	nrx-a6 reactor	NT2	comanche peak-1 reactor	NT2	kori-3 reactor
NT3	nrx-a7 reactor	NT2	comanche peak-2 reactor	NT2	kori-4 reactor
NT3	pewee-1 reactor	NT2	connecticut yankee reactor	NT2	krsko reactor
NT3	pewee-2 reactor	NT2	cook-1 reactor	NT2	lemoniz-1 reactor
NT3	pewee-3 reactor	NT2	cook-2 reactor	NT2	lemoniz-2 reactor
NT3	pewee-4 reactor	NT2	cruas-2 reactor	NT2	lenin reactor
NT3	phoebus-1a reactor	NT2	cruas-3 reactor	NT2	leonid brezhnev reactor
NT3	phoebus-1b reactor	NT2	cruas-4 reactor	NT2	lingao-1 reactor
NT3	phoebus-2a reactor	NT2	crystal river-3 reactor	NT2	lingao-2 reactor
NT3	rover reactors	NT2	crystal river-4 reactor	NT2	loft reactor
NT3	twmr reactor	NT2	dampierre-1 reactor	NT2	lucie-1 reactor
NT3	xe-2 reactor	NT2	dampierre-2 reactor	NT2	lucie-2 reactor
NT2	tory-2a reactor	NT2	dampierre-3 reactor	NT2	maanshan-1 reactor
NT2	tory-2c reactor	NT2	dampierre-4 reactor	NT2	maine yankee reactor
NT2	xe-prime reactor	NT2	davis besse-1 reactor	NT2	malibu-1 reactor
NT1	pwr type reactors	NT2	davis besse-2 reactor	NT2	marble hill-1 reactor
NT2	aguirre reactor	NT2	davis besse-3 reactor	NT2	marble hill-2 reactor
NT2	almaraz-1 reactor	NT2	daya bay-1 reactor	NT2	mc guire-1 reactor
NT2	almaraz-2 reactor	NT2	daya bay-2 reactor	NT2	mc guire-2 reactor
NT2	angra-1 reactor	NT2	diablo canyon-1 reactor	NT2	mh-1a reactor
NT2	angra-2 reactor	NT2	diablo canyon-2 reactor	NT2	midland-1 reactor
NT2	angra-3 reactor	NT2	doel-1 reactor	NT2	midland-2 reactor
NT2	ardennes b-1 reactor	NT2	doel-2 reactor	NT2	mihama-1 reactor
NT2	ardennes b-2 reactor	NT2	doel-3 reactor	NT2	mihama-2 reactor
NT2	ardennes reactor	NT2	doel-4 reactor	NT2	mihama-3 reactor
NT2	arkansas-1 reactor	NT2	edfr-50 reactor	NT2	millstone-2 reactor
NT2	arkansas-2 reactor	NT2	emsland reactor	NT2	millstone-3 reactor
NT2	asco-1 reactor	NT2	erie-1 reactor	NT2	muelheim-kaerlich reactor
NT2	asco-2 reactor	NT2	erie-2 reactor	NT2	mutsu reactor
NT2	atlantic-1 reactor	NT2	farley-1 reactor	NT2	neckar-1 reactor
NT2	atlantic-2 reactor	NT2	farley-2 reactor	NT2	neckar-2 reactor
NT2	basf-1 reactor	NT2	fessenheim-1 reactor	NT2	nep-1 reactor
NT2	basf-2 reactor	NT2	flamanville-1 reactor	NT2	nep-2 reactor
NT2	beaver valley-1 reactor	NT2	flamanville-2 reactor	NT2	neupotz-1 reactor
NT2	beaver valley-2 reactor	NT2	forked river-1 reactor	NT2	neupotz-2 reactor
NT2	bellefonte-1 reactor	NT2	genkai-1 reactor	NT2	nogent sur seine-1 reactor
NT2	bellefonte-2 reactor	NT2	genkai-2 reactor	NT2	nogent sur seine-2 reactor
NT2	belleville sur loire-1 reactor	NT2	genkai-3 reactor	NT2	north anna-1 reactor
NT2	belleville sur loire-2 reactor	NT2	genkai-4 reactor	NT2	north anna-2 reactor
NT2	beznau-1 reactor	NT2	ginna-1 reactor	NT2	north anna-3 reactor
NT2	beznau-2 reactor	NT2	goesgen reactor	NT2	north anna-4 reactor
NT2	biblis-1 reactor	NT2	golfech-1 reactor	NT2	north coast-1 reactor
NT2	biblis-2 reactor	NT2	golfech-2 reactor	NT2	obrigheim reactor
NT2	biblis-3 reactor	NT2	grafenhainfeld reactor	NT2	oconee-1 reactor
NT2	biblis-4 reactor	NT2	gravelines-1 reactor	NT2	oconee-2 reactor
NT2	blayais-1 reactor	NT2	gravelines-2 reactor	NT2	oconee-3 reactor
NT2	blue hills-1 reactor	NT2	gravelines-3 reactor	NT2	oi-1 reactor
NT2	blue hills-2 reactor	NT2	gravelines-4 reactor	NT2	oi-2 reactor
NT2	borsselle reactor	NT2	gravelines-5 reactor	NT2	oi-3 reactor
NT2	br-3 reactor	NT2	gravelines-6 reactor	NT2	oi-4 reactor
NT2	braidwood-1 reactor	NT2	greene county reactor	NT2	oktemberyan-2 reactor
NT2	braidwood-2 reactor	NT2	greenwood-2 reactor	NT2	olkiluoto-3 reactor
NT2	brokdorf reactor	NT2	greenwood-3 reactor	NT2	otto hahn reactor
NT2	bugey-2 reactor	NT2	grohnde reactor	NT2	palisades-1 reactor
NT2	bugey-3 reactor	NT2	hamm-uentrop reactor	NT2	palo verde-1 reactor
NT2	bugey-4 reactor	NT2	harris-1 reactor	NT2	palo verde-2 reactor
NT2	bugey-5 reactor	NT2	harris-2 reactor	NT2	palo verde-3 reactor
NT2	bw standard reactor	NT2	harris-3 reactor	NT2	palo verde-4 reactor
NT2	byron-1 reactor	NT2	harris-4 reactor	NT2	palo verde-5 reactor
NT2	byron-2 reactor	NT2	haven-1 reactor	NT2	paluel-1 reactor
NT2	calhoun-1 reactor	NT3	koshkonong-1 reactor	NT2	paluel-2 reactor
NT2	calhoun-2 reactor	NT2	haven-2 reactor	NT2	paluel-3 reactor
NT2	callaway-1 reactor	NT3	koshkonong-2 reactor	NT2	paluel-4 reactor
NT2	callaway-2 reactor	NT2	ikata-2 reactor	NT2	pat reactor
NT2	calvert cliffs-1 reactor	NT2	ikata-3 reactor	NT2	pebble springs-1 reactor
NT2	calvert cliffs-2 reactor	NT2	ikata reactor	NT2	pebble springs-2 reactor
NT2	catawba-1 reactor	NT2	indian point-1 reactor	NT2	penly-1 reactor
NT2	catawba-2 reactor	NT2	indian point-2 reactor	NT2	perkins-1 reactor
NT2	cattenom-1 reactor	NT2	indian point-3 reactor	NT2	perkins-2 reactor
NT2	cattenom-2 reactor	NT2	iran-1 reactor	NT2	perkins-3 reactor
NT2	cattenom-3 reactor	NT2	iran-2 reactor	NT2	philippsburg-2 reactor



NT2	pilgrim-2 reactor	NT2	ulchin-1 reactor	NT3	rovno-4 reactor
NT2	pilgrim-3 reactor	NT2	ulchin-2 reactor	NT3	rovno-5 reactor
NT2	pm-2a reactor	NT2	ulchin-3 reactor	NT3	south ukrainian-1 reactor
NT2	pm-3a reactor	NT2	ulchin-4 reactor	NT3	south ukrainian-2 reactor
NT2	pnpp-1 reactor	NT2	unterweser reactor	NT3	south ukrainian-3 reactor
NT2	point beach-1 reactor	NT2	vahnum-1 reactor	NT3	stendal-1 reactor
NT2	point beach-2 reactor	NT2	vahnum-2 reactor	NT3	tatarian reactor
NT2	prairie island-1 reactor	NT2	vandellos-2 reactor	NT3	temelin-1 reactor
NT2	prairie island-2 reactor	NT2	vogtle-1 reactor	NT3	temelin-2 reactor
NT2	qinshan-1 reactor	NT2	vogtle-2 reactor	NT3	tianwan-1 reactor
NT2	qinshan-2-1 reactor	NT2	vogtle-3 reactor	NT3	zaporozhe-1 reactor
NT2	qinshan-2-2 reactor	NT2	vogtle-4 reactor	NT3	zaporozhe-2 reactor
NT2	quanicassee-1 reactor	NT2	waterford-3 reactor	NT3	zaporozhe-3 reactor
NT2	quanicassee-2 reactor	NT2	waterford-4 reactor	NT3	zaporozhe-4 reactor
NT2	rancho seco-1 reactor	NT2	watts bar-1 reactor	NT3	zaporozhe-5 reactor
NT2	remerschen reactor	NT2	watts bar-2 reactor	NT3	zaporozhe-6 reactor
NT2	rheinsberg akw1 reactor	NT2	westinghouse standard reactor	NT2	wyhl-1 reactor
NT2	ringhals-2 reactor	NT2	wnp-1 reactor	NT2	wyhl-2 reactor
NT2	ringhals-3 reactor	NT2	wnp-3 reactor	NT2	yellow creek-1 reactor
NT2	ringhals-4 reactor	NT2	wnp-4 reactor	NT2	yellow creek-2 reactor
NT2	robinson-2 reactor	NT2	wnp-5 reactor	NT2	yonggwang-1 reactor
NT2	rooppur reactor	NT2	wolf creek-1 reactor	NT2	yonggwang-2 reactor
NT2	rowe yankee reactor	NT2	wup-3 reactor	NT2	yonggwang-3 reactor
NT2	s1c prototype reactor	NT2	wup-4 reactor	NT2	yonggwang-4 reactor
NT2	saint alban-1 reactor	NT2	wup-5 reactor	NT2	zion-1 reactor
NT2	saint alban-2 reactor	NT2	wup-6 reactor	NT2	zion-2 reactor
NT2	saint laurent-b1 reactor	NT2	wwer type reactors	NT2	zorita-1 reactor
NT2	salem-1 reactor	NT3	armenian-1 reactor	NT1	rajasthan-5 reactor
NT2	salem-2 reactor	NT3	armenian-2 reactor	NT1	rajasthan-6 reactor
NT2	san onofre-1 reactor	NT3	balakovo-1 reactor	NT1	rancho seco-2 reactor
NT2	san onofre-2 reactor	NT3	balakovo-2 reactor	NT1	saint laurent-1 reactor
NT2	san onofre-3 reactor	NT3	balakovo-3 reactor	NT1	saint laurent-2 reactor
NT2	savannah reactor	NT3	balakovo-4 reactor	NT1	schmehausen-2 reactor
NT2	saxton reactor	NT3	blahutovice-1 reactor	NT1	sefor reactor
NT2	seabrook-1 reactor	NT3	bohunice v-1 reactor	NT1	smolensk-1 reactor
NT2	seabrook-2 reactor	NT3	bohunice v-2 reactor	NT1	smolensk-2 reactor
NT2	selni reactor	NT3	dukovany-1 reactor	NT1	smolensk-3 reactor
NT2	sendai-1 reactor	NT3	dukovany-2 reactor	NT1	snr-2 reactor
NT2	sendai-2 reactor	NT3	dukovany-3 reactor	NT1	snr reactor
NT2	sequoyah-1 reactor	NT3	dukovany-4 reactor	NT1	space power reactors
NT2	sequoyah-2 reactor	NT3	greifswald-1 reactor	NT2	snap reactors
NT2	shippingport reactor	NT3	greifswald-2 reactor	NT3	snap 10 reactor
NT2	sizewell-b reactor	NT3	greifswald-3 reactor	NT4	s10fs-1 reactor
NT2	sm-1 reactor	NT3	greifswald-4 reactor	NT4	s10fs-3 reactor
NT2	sm-1a reactor	NT3	greifswald-5 reactor	NT4	s10fs-4 reactor
NT2	south texas project-1 reactor	NT3	greifswald-6 reactor	NT3	snap 2 reactor
NT2	south texas project-2 reactor	NT3	juragua-1 reactor	NT4	s2ds reactor
NT2	stade reactor	NT3	kalinin-1 reactor	NT3	snap 50 reactor
NT2	sterling-1 reactor	NT3	kalinin-3 reactor	NT3	snap 8 reactor
NT2	sterling-2 reactor	NT3	kecerovce-1 reactor	NT4	s8dr reactor
NT2	summer-1 reactor	NT3	khmelnitskij-1 reactor	NT4	s8er reactor
NT2	sundesert-1 reactor	NT3	kola-1 reactor	NT2	space propulsion reactors
NT2	sundesert-2 reactor	NT3	kola-2 reactor	NT3	kiwi reactors
NT2	surry-1 reactor	NT3	kola-3 reactor	NT4	kiwi-tnt reactor
NT2	surry-2 reactor	NT3	kola-4 reactor	NT3	nerva reactor
NT2	surry-3 reactor	NT3	kozloduy-1 reactor	NT3	nrx-a1 reactor
NT2	surry-4 reactor	NT3	kozloduy-2 reactor	NT3	nrx-a2 reactor
NT2	takahama-1 reactor	NT3	kozloduy-3 reactor	NT3	nrx-a3 reactor
NT2	takahama-2 reactor	NT3	kozloduy-4 reactor	NT3	nrx-a4-est reactor
NT2	takahama-3 reactor	NT3	kozloduy-5 reactor	NT3	nrx-a5 reactor
NT2	takahama-4 reactor	NT3	kozloduy-6 reactor	NT3	nrx-a6 reactor
NT2	three mile island-1 reactor	NT3	kudankulam-1 reactor	NT3	nrx-a7 reactor
NT2	three mile island-2 reactor	NT3	kudankulam-2 reactor	NT3	pewee-1 reactor
NT2	tihange-2 reactor	NT3	loviisa-1 reactor	NT3	pewee-2 reactor
NT2	tihange-3 reactor	NT3	loviisa-2 reactor	NT3	pewee-3 reactor
NT2	tihange reactor	NT3	mochovce-1 reactor	NT3	pewee-4 reactor
NT2	tomari-1 reactor	NT3	mochovce-2 reactor	NT3	phoebus-1a reactor
NT2	tomari-2 reactor	NT3	novovoronezh-1 reactor	NT3	phoebus-1b reactor
NT2	tricastin-1 reactor	NT3	novovoronezh-2 reactor	NT3	phoebus-2a reactor
NT2	tricastin-4 reactor	NT3	novovoronezh-3 reactor	NT3	rover reactors
NT2	trillo-1 reactor	NT3	novovoronezh-4 reactor	NT3	twmr reactor
NT2	trojan reactor	NT3	novovoronezh-5 reactor	NT3	xe-2 reactor
NT2	tsuruga-2 reactor	NT3	paks-1 reactor	NT1	sre reactor
NT2	turkey point-3 reactor	NT3	paks-2 reactor	NT1	summit-1 reactor
NT2	turkey point-4 reactor	NT3	paks-3 reactor	NT1	summit-2 reactor
NT2	tva-1 reactor	NT3	paks-4 reactor	NT1	tarapur-3 reactor
NT2	tva-2 reactor	NT3	rovno-1 reactor	NT1	tarapur-4 reactor
NT2	tyrone-1 reactor	NT3	rovno-2 reactor	NT1	thermionic reactors
NT2	tyrone-2 reactor	NT3	rovno-3 reactor	NT1	thermoelectric reactors

**NT1** thtr-300 reactor  
**NT1** topaz reactor  
**NT1** torness reactor  
**NT1** vandellos reactor  
**NT1** vg-400 reactor  
**NT1** vgr-50 reactor  
**NT1** vhr reactor  
**NT1** vidal-1 reactor  
**NT1** vidal-2 reactor  
**NT1** vrain reactor  
**NT1** wagr reactor  
*RT* agr type reactors  
*RT* bhwr type reactors  
*RT* desalination reactors  
*RT* fbr type reactors  
*RT* gcr type reactors  
*RT* htgr type reactors  
*RT* hwgr type reactors  
*RT* hwlwr type reactors  
*RT* lwgr type reactors  
*RT* lwor type reactors  
*RT* nuclear power plants  
*RT* omr type reactors  
*RT* phwr type reactors  
*RT* present worth method  
*RT* process heat reactors  
*RT* sgr type reactors  
*RT* szr type reactors  
*RT* underground nuclear stations

#### POWER RELAY SATELLITES

2000-04-12

**BT1** satellites  
*RT* power transmission

#### POWER SERIES

**BT1** series expansion  
*RT* mathematics

#### POWER SUBSTATIONS

INIS: 1992-10-06; ETDE: 1976-07-07

*Term is used for an assembly of equipment in an electric power system for the transmission, transformation, or switching of electric energy.*

*UF* electric power substations  
**NT1** gas-insulated substations  
*RT* power distribution systems  
*RT* power generation  
*RT* power plants  
*RT* power systems  
*RT* power transmission  
*RT* power transmission lines

#### POWER SUPPLIES

\***BT1** electronic equipment  
**NT1** marx generators  
**NT1** photovoltaic power supplies  
**NT1** radio equipment power supplies  
**NT1** spacecraft power supplies  
**NT1** uninterruptible power supplies  
*RT* capacitors  
*RT* dc to dc converters  
*RT* direct energy converters  
*RT* electric power  
*RT* electrical equipment  
*RT* gyrocons  
*RT* inverters  
*RT* klystrons  
*RT* lasertrons  
*RT* microwave power transmission  
*RT* outages  
*RT* power conditioning circuits  
*RT* rf systems

#### POWER SYSTEMS

INIS: 1982-12-07; ETDE: 1976-02-19

*Includes electric power networks with associated generating and transmission facilities.*

*UF* electric power systems

**BT1** energy systems  
**NT1** ac systems  
**NT2** ehv ac systems  
**NT2** hvac systems  
**NT2** uhv ac systems  
**NT1** brayton cycle power systems  
**NT1** dc systems  
**NT2** ehv dc systems  
**NT2** hvdc systems  
**NT2** uhv dc systems  
**NT1** interconnected power systems  
**NT1** rankine cycle power systems  
**NT1** solar-assisted power systems  
*RT* dispersed storage and generation  
*RT* electric power industry  
*RT* electrical transients  
*RT* gas-insulated transformers  
*RT* laser power transmission  
*RT* microwave power transmission  
*RT* outages  
*RT* power distribution systems  
*RT* power factor  
*RT* power generation  
*RT* power plants  
*RT* power substations  
*RT* power transmission  
*RT* power transmission lines  
*RT* underground power transmission  
*RT* var control systems

#### POWER TRANSMISSION

*The act or process of transporting electrical energy in bulk from a source or sources of supply to other principal parts of the system or to other utility systems.*

*SF* energy transmission  
*SF* energy transport  
*SF* transmission (energy)  
*SF* transport (energy)  
**NT1** laser power transmission  
**NT1** microwave power transmission  
**NT1** overhead power transmission  
**NT1** underground power transmission  
*RT* electric power  
*RT* gas-insulated cables  
*RT* gas-insulated transformers  
*RT* hybrid systems  
*RT* interconnected power systems  
*RT* oil-filled cables  
*RT* outages  
*RT* power distribution systems  
*RT* power factor  
*RT* power losses  
*RT* power pooling  
*RT* power relay satellites  
*RT* power substations  
*RT* power systems  
*RT* power transmission lines  
*RT* shunt reactors  
*RT* var control systems

#### POWER TRANSMISSION LINES

1997-06-17

*UF* line losses  
*UF* transmission lines  
*RT* current limiters  
*RT* electric cables  
*RT* electric power  
*RT* gas-insulated cables  
*RT* oil-filled cables  
*RT* power substations  
*RT* power systems  
*RT* power transmission  
*RT* rights-of-way  
*RT* shunt reactors

#### POWER TRANSMISSION TOWERS

INIS: 1993-03-26; ETDE: 1976-08-04

*UF* transmission towers  
*SF* towers

**BT1** mechanical structures  
*RT* overhead power transmission

#### POWERED SUPPORTS

INIS: 2000-04-12; ETDE: 1977-06-24

\***BT1** supports  
**NT1** shield supports

#### POYNTING THEOREM

*UF* poynting vector  
*RT* flux density  
*RT* maxwell equations  
*RT* radiation flux  
*RT* vectors

#### poynting vector

USE poynting theorem

#### pp chain

INIS: 1978-11-24; ETDE: 1980-07-23

USE hydrogen burning

#### pp-factor

USE nicotinamide

#### pr-10 aeg pruefreaktor

USE aeg-pr-10 reactor

#### pr-6 device

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE magnetic mirrors

#### pr-7 device

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor; from March 1996 till March 1997 PR DEVICES was used for this concept.)

USE magnetic mirrors

#### pr devices

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE magnetic mirrors

#### PR SPRINGS DEPOSIT

INIS: 2000-04-12; ETDE: 1976-11-17

\***BT1** oil sand deposits  
*RT* oil sands  
*RT* utah

#### PRAETORIAN PROJECT

INIS: 2000-04-12; ETDE: 1983-11-09

\***BT1** nuclear explosions  
*RT* contained explosions  
*RT* underground explosions

#### prague wwr-s reactor

INIS: 1998-09-23; ETDE: 2002-03-27

USE lvr-15 reactor

#### PRAIRIE DOGS

INIS: 2000-04-12; ETDE: 1977-12-22

\***BT1** rodents

#### PRAIRIE ISLAND-1 REACTOR

*Nuclear Management Co., LLC, Red Wing, Minnesota, USA.*

*UF* red wing prairie island-1 reactor  
 \***BT1** pwr type reactors

#### PRAIRIE ISLAND-2 REACTOR

*Nuclear Management Co., LLC, Red Wing, Minnesota, USA.*

*UF* red wing prairie island-2 reactor  
 \***BT1** pwr type reactors

#### PRANDTL NUMBER

**BT1** dimensionless numbers  
*RT* boundary layers  
*RT* diffusion  
*RT* heat transfer  
*RT* thermal diffusivity

*RT* thermodynamic properties  
*RT* viscous flow

**PRASEODYMIUM**

\*BT1 rare earths

**PRASEODYMIUM 121**

*INIS: 1992-09-23; ETDE: 1979-07-24*

\*BT1 odd-even nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei

**PRASEODYMIUM 124**

*INIS: 1987-02-25; ETDE: 1987-05-01*

\*BT1 odd-odd nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**PRASEODYMIUM 125**

*2004-12-15*

\*BT1 electron capture radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**PRASEODYMIUM 126**

*INIS: 1984-10-19; ETDE: 1984-11-06*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**PRASEODYMIUM 127**

*1998-09-23*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**PRASEODYMIUM 128**

*INIS: 1985-07-22; ETDE: 1985-08-08*

\*BT1 electron capture radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**PRASEODYMIUM 129**

*INIS: 1977-06-14; ETDE: 1977-10-20*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**PRASEODYMIUM 130**

*INIS: 1977-06-14; ETDE: 1977-10-20*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**PRASEODYMIUM 131**

*INIS: 1977-06-14; ETDE: 1977-10-20*

\*BT1 beta-plus decay radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei

**PRASEODYMIUM 132**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei

\*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei

**PRASEODYMIUM 133**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei

**PRASEODYMIUM 134**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei

**PRASEODYMIUM 135**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei

**PRASEODYMIUM 136**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei

**PRASEODYMIUM 137**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei

**PRASEODYMIUM 138**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei

**PRASEODYMIUM 139**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei

**PRASEODYMIUM 140**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei

**PRASEODYMIUM 141**

\*BT1 odd-even nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 stable isotopes

**PRASEODYMIUM 141 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**PRASEODYMIUM 142**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 internal conversion radioisotopes

\*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei

**PRASEODYMIUM 143**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei

**PRASEODYMIUM 144**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei

**PRASEODYMIUM 145**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei

**PRASEODYMIUM 146**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei

**PRASEODYMIUM 147**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei

**PRASEODYMIUM 148**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei

**PRASEODYMIUM 149**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei

**PRASEODYMIUM 150**

\*BT1 beta-minus decay radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**PRASEODYMIUM 151**

*1977-01-26*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**PRASEODYMIUM 152**

*INIS: 1984-06-21; ETDE: 1984-07-10*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 praseodymium isotopes  
 \*BT1 rare earth nuclei  
 \*BT1 seconds living radioisotopes

**PRASEODYMIUM 153**

*INIS: 1987-08-27; ETDE: 1987-09-18*

\*BT1 beta-minus decay radioisotopes  
 \*BT1 odd-even nuclei

- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**PRASEODYMIUM 154**

1988-10-10

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 praseodymium isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes

**PRASEODYMIUM ADDITIONS**

*Alloys containing not more than 1% Pr are listed here.*

- \*BT1 rare earth additions
- RT praseodymium alloys

**PRASEODYMIUM ALLOYS**

*Alloys containing more than 1% Pr.*

- \*BT1 rare earth alloys
- NT1 praseodymium base alloys
- RT praseodymium additions

**PRASEODYMIUM ARSENIDES**

INIS: 1976-02-05; ETDE: 1975-10-28

- \*BT1 arsenides
- \*BT1 praseodymium compounds

**PRASEODYMIUM BASE ALLOYS**

- \*BT1 praseodymium alloys

**PRASEODYMIUM BORIDES**

- \*BT1 borides
- \*BT1 praseodymium compounds

**PRASEODYMIUM BROMIDES**

- \*BT1 bromides
- \*BT1 praseodymium compounds

**PRASEODYMIUM CARBIDES**

- \*BT1 carbides
- \*BT1 praseodymium compounds

**PRASEODYMIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 praseodymium compounds

**PRASEODYMIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 praseodymium compounds

**PRASEODYMIUM COMPLEXES**

- \*BT1 rare earth complexes

**PRASEODYMIUM COMPOUNDS**

- BT1 rare earth compounds
- NT1 praseodymium arsenides
- NT1 praseodymium borides
- NT1 praseodymium bromides
- NT1 praseodymium carbides
- NT1 praseodymium carbonates
- NT1 praseodymium chlorides
- NT1 praseodymium fluorides
- NT1 praseodymium hydrides
- NT1 praseodymium hydroxides
- NT1 praseodymium iodides
- NT1 praseodymium nitrates
- NT1 praseodymium nitrides
- NT1 praseodymium oxides
- NT1 praseodymium perchlorates
- NT1 praseodymium phosphates
- NT1 praseodymium phosphides
- NT1 praseodymium selenides
- NT1 praseodymium silicates
- NT1 praseodymium silicides
- NT1 praseodymium sulfates
- NT1 praseodymium sulfides
- NT1 praseodymium tellurides
- NT1 praseodymium tungstates

**PRASEODYMIUM FLUORIDES**

- \*BT1 fluorides

- \*BT1 praseodymium compounds

**PRASEODYMIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 praseodymium compounds

**PRASEODYMIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 praseodymium compounds

**PRASEODYMIUM IODIDES**

- \*BT1 iodides
- \*BT1 praseodymium compounds

**PRASEODYMIUM IONS**

- \*BT1 ions

**PRASEODYMIUM ISOTOPES**

- BT1 isotopes
- NT1 praseodymium 121
- NT1 praseodymium 124
- NT1 praseodymium 125
- NT1 praseodymium 126
- NT1 praseodymium 127
- NT1 praseodymium 128
- NT1 praseodymium 129
- NT1 praseodymium 130
- NT1 praseodymium 131
- NT1 praseodymium 132
- NT1 praseodymium 133
- NT1 praseodymium 134
- NT1 praseodymium 135
- NT1 praseodymium 136
- NT1 praseodymium 137
- NT1 praseodymium 138
- NT1 praseodymium 139
- NT1 praseodymium 140
- NT1 praseodymium 141
- NT1 praseodymium 142
- NT1 praseodymium 143
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- NT1 praseodymium 145
- NT1 praseodymium 146
- NT1 praseodymium 147
- NT1 praseodymium 148
- NT1 praseodymium 149
- NT1 praseodymium 150
- NT1 praseodymium 151
- NT1 praseodymium 152
- NT1 praseodymium 153
- NT1 praseodymium 154

**PRASEODYMIUM NITRATES**

- \*BT1 nitrates
- \*BT1 praseodymium compounds

**PRASEODYMIUM NITRIDES**

- \*BT1 nitrides
- \*BT1 praseodymium compounds

**PRASEODYMIUM OXIDES**

- \*BT1 oxides
- \*BT1 praseodymium compounds

**PRASEODYMIUM PERCHLORATES**

- \*BT1 perchlorates
- \*BT1 praseodymium compounds

**PRASEODYMIUM PHOSPHATES**

1975-10-23

- \*BT1 phosphates
- \*BT1 praseodymium compounds

**PRASEODYMIUM PHOSPHIDES**

INIS: 1977-07-05; ETDE: 1975-11-28

- \*BT1 phosphides
- \*BT1 praseodymium compounds

**PRASEODYMIUM SELENIDES**

- \*BT1 praseodymium compounds
- \*BT1 selenides

**PRASEODYMIUM SILICATES**

1988-10-10

- \*BT1 praseodymium compounds
- \*BT1 silicates

**PRASEODYMIUM SILICIDES**

INIS: 1975-10-29; ETDE: 1975-12-16

- \*BT1 praseodymium compounds
- \*BT1 silicides

**PRASEODYMIUM SULFATES**

- \*BT1 praseodymium compounds
- \*BT1 sulfates

**PRASEODYMIUM SULFIDES**

- \*BT1 praseodymium compounds
- \*BT1 sulfides

**PRASEODYMIUM TELLURIDES**

- \*BT1 praseodymium compounds
- \*BT1 tellurides

**PRASEODYMIUM TUNGSTATES**

INIS: 1991-09-16; ETDE: 1977-06-02

- \*BT1 praseodymium compounds
- \*BT1 tungstates

**PRAWNS**

INIS: 1977-04-07; ETDE: 1977-06-03

- \*BT1 decapods
- RT lobsters
- RT seafood
- RT shrimp

**PRCF REACTOR**

PNL, Richland, Washington, USA.

- UF plutonium recycle critical facility
- UF pnl-pref reactor
- \*BT1 plutonium reactors
- \*BT1 tank type reactors
- \*BT1 zero power reactors

**pre (photoreactivating enzyme)**

INIS: 1984-04-04; ETDE: 2002-04-26

- USE enzymes
- USE photoreactivation

**PREAMPLIFIERS**

- \*BT1 amplifiers

**PRECAMBRIAN ERA**

INIS: 1992-04-14; ETDE: 1977-10-19

- BT1 geologic ages

**PRECESSION**

- NT1 larmor precession
- RT gyroscopes
- RT migma devices
- RT orbits
- RT rotation

**precetron storage ring**

1996-07-08

(Until June 1996 this was a valid descriptor.)

- USE storage rings

**PRECIPITATION**

*In chemical processes only; see also ATMOSPHERIC PRECIPITATIONS, ELECTRON PRECIPITATION, PROTON PRECIPITATION, and PRECIPITATION HARDENING.*

- BT1 separation processes
- NT1 coprecipitation
- NT1 flocculation
- RT agglomeration
- RT crystallization
- RT deposition
- RT hydrometallurgy
- RT salting-out agents
- RT scaling
- RT sedimentation
- RT solubility

RT supersaturation  
RT waste processing

**PRECIPITATION HARDENING**

BT1 hardening  
RT age hardening

**PRECIPITATION SCAVENGING**

BT1 separation processes  
RT washout

**precipitations (atmospheric)**

USE atmospheric precipitations

**PRECIPITINS**

BT1 antibodies

**precision**

INIS: 1975-12-09; ETDE: 2002-04-26  
USE accuracy

**PRECOMPOUND-NUCLEUS****EMISSION**

*Emission of a few high-energy nucleons resulting from direct processes before establishment of the statistical equilibrium of the compound nucleus.*

UF preequilibrium nuclear processes  
BT1 nuclear reactions  
RT deep inelastic heavy ion reactions  
RT evaporation model  
RT incomplete fusion reactions  
RT quasi-fission

**PRECURSOR**

RT biosynthesis  
RT earthquakes  
RT metabolism  
RT nucleic acids  
RT rock bursts

**precursors (delayed neutron)**

INIS: 2000-04-12; ETDE: 1976-12-16  
USE delayed neutron precursors

**precursors (delayed neutrons)**

USE delayed neutron precursors

**precursors (delayed proton)**

INIS: 2000-04-12; ETDE: 1976-12-16  
USE delayed proton precursors

**precursors (delayed protons)**

INIS: 1976-10-29; ETDE: 2002-04-26  
USE delayed proton precursors

**PREDATOR-PREY INTERACTIONS**

INIS: 1992-05-04; ETDE: 1979-03-28  
RT behavior  
RT ecology  
RT ecosystems  
RT food chains  
RT population dynamics  
RT symbiosis

**prediction**

USE forecasting

**PREDICTION EQUATIONS**

BT1 equations

**PREDISSOCIATION**

BT1 dissociation

**PREDNISOLONE**

\*BT1 glucocorticoids

**PREDNISONE**

\*BT1 glucocorticoids

**preequilibrium nuclear processes**

INIS: 2000-04-12; ETDE: 1976-11-01  
USE precompound-nucleus emission

**PREFABRICATED BUILDINGS**

INIS: 2000-04-12; ETDE: 1982-01-07  
UF manufactured buildings  
UF metal buildings  
BT1 buildings  
RT mobile homes

**preferred orientation**

USE grain orientation

**PREFERRED SPECIES**

INIS: 1986-07-09; ETDE: 1976-04-19  
*Species particularly suited for revegetation of reclaimed land.*

BT1 plants  
RT gramineae  
RT land reclamation  
RT revegetation  
RT shrubs  
RT trees

**PREGNANCY**

RT abortion  
RT embryos  
RT fetuses  
RT gynecology  
RT hpl  
RT life cycle  
RT parturition  
RT placenta  
RT prenatal exposure  
RT prenatal irradiation  
RT progesterone  
RT reproduction  
RT reproductive disorders  
RT uterus

**pregnanediol**

INIS: 1996-10-23; ETDE: 1980-11-25  
(Until October 1996 this was a valid descriptor.)  
USE hydroxy compounds  
USE pregnanes

**PREGNANES**

1996-10-23  
UF pregnanediol  
UF pregnanetriol  
\*BT1 steroids  
NT1 corticosteroids  
NT2 glucocorticoids  
NT3 corticosterone  
NT3 cortisone  
NT3 dexamethasone  
NT3 hydrocortisone  
NT3 prednisolone  
NT3 prednisone  
NT2 mineralocorticoids  
NT3 aldosterone  
NT1 hydroxypregnenone  
NT1 progesterone

**pregnanetriol**

INIS: 1996-07-08; ETDE: 1980-11-25  
(Until June 1996 this was a valid descriptor.)  
USE hydroxy compounds  
USE pregnanes

**pregnenolone**

USE hydroxypregnenone

**preheating**

INIS: 2000-04-12; ETDE: 1979-06-06  
USE heat treatments

**PRENATAL EXPOSURE**

INIS: 1986-04-04; ETDE: 1980-05-06  
*For prenatal exposure to radiation use PRENATAL IRRADIATION.*  
NT1 prenatal irradiation  
RT biological effects

RT biological stress  
RT fetuses  
RT pregnancy  
RT toxicity

**PRENATAL IRRADIATION**

UF in utero irradiation  
BT1 irradiation  
BT1 prenatal exposure  
RT embryos  
RT fetuses  
RT perinatal irradiation  
RT pregnancy

**PRENFLO PROCESS**

INIS: 2000-04-12; ETDE: 1989-05-31  
*Pressurized entrained flow gasification process derived from Koppers-Totzek atmospheric pressure process.*  
\*BT1 coal gasification

**PREONS**

INIS: 1984-07-20; ETDE: 1984-08-20  
*Postulated particles which are constituents of both quarks and leptons.*  
\*BT1 postulated particles  
RT color model  
RT composite models  
RT leptons  
RT quarks

**preparation (chemical)**

USE chemical preparation

**preparation (sample)**

USE sample preparation

**PRESENT WORTH METHOD**

RT cost  
RT fuel cycle  
RT power reactors

**PRESERVATION**

NT1 radiopreservation  
NT2 radurization  
RT bacterial spores  
RT cultural objects  
RT disinfection  
RT food  
RT food processing  
RT fumigants  
RT grain disinfestation  
RT ifip  
RT inactivation  
RT organoleptic properties  
RT pasteurization  
RT preservatives  
RT sterilization  
RT wholesomeness

**PRESERVATIVES**

INIS: 1999-05-03; ETDE: 1975-12-16  
RT additives  
RT creosote  
RT dioxin  
RT preservation

**PRESSES**

RT extrusion  
RT forging  
RT machine tools  
RT pressing  
RT tools

**PRESSING**

\*BT1 materials working  
NT1 cold pressing  
NT1 hot pressing  
RT compacting  
RT dies  
RT extrusion  
RT forging

RT presses

**pressure (1-10 atm)**

2003-11-19

USE pressure range kilo pa

**pressure (1-10 bar)**

2003-11-19

USE pressure range kilo pa

**pressure (1-10 milli bar)**

2003-11-19

USE pressure range pa

**pressure (10-100 atm)**

2003-11-19

USE pressure range mega pa 01-10

**pressure (10-100 bar)**

2003-11-19

USE pressure range mega pa 01-10

**pressure (10-1000 milli bar)**

2003-11-19

USE pressure range kilo pa

**pressure (100-1000 atm)**

USE pressure range mega pa 10-100

**pressure (1000-10000 atm)**

2003-11-19

USE pressure range mega pa 100-1000

**pressure (10000 atm and above)**

2003-11-19

USE pressure range giga pa

**pressure (7.5 - 7.5x10(3) torr)**

2003-11-19

USE pressure range kilo pa

**pressure (7.5x10(-3) - 7.5 torr)**

2003-11-19

USE pressure range pa

**pressure (critical)**

USE critical pressure

**pressure (plasma)**

USE plasma pressure

**pressure (radiation)**

USE radiation pressure

**pressure (vapor)**

USE vapor pressure

**PRESSURE COEFFICIENT**

BT1 reactivity coefficients

**PRESSURE CONTROL**

1986-04-04

BT1 control

RT pressure measurement

RT pressure regulators

RT pressure release

RT pressure suppression

RT pressure vessels

**PRESSURE DEPENDENCE**

Combine with the relevant descriptor from the PRESSURE RANGE word block.

UF pressure effects

RT pressure drop

RT pressure range

**PRESSURE DROP**

RT flow rate

RT fluid flow

RT pressure dependence

RT pressure gradients

**pressure effects**

INIS: 1992-04-29; ETDE: 1984-03-19

(Prior to June 1993, this was a valid ETDE descriptor.)

USE pressure dependence

**PRESSURE GAGES**

UF gages (pressure)

UF manometers

BT1 measuring instruments

NT1 barometers

NT1 hot-wire gages

NT2 pirani gages

NT1 vacuum gages

NT2 ionization gages

NT3 bayard-alpert gages

NT3 philips gages

NT3 radioactive ionization gages

NT2 knudsen gages

NT2 pirani gages

RT bellows

RT pressure measurement

**PRESSURE GRADIENTS**

RT onsager relations

RT pressure drop

RT pressure measurement

RT pressurization

**pressure groups**

INIS: 1982-12-03; ETDE: 1980-12-08

USE interest groups

**pressure maintenance**

INIS: 1984-12-04; ETDE: 1976-07-07

USE pressurization

**PRESSURE MEASUREMENT**

NT1 piezometry

RT atmospheric pressure

RT geobarometry

RT pressure control

RT pressure gages

RT pressure gradients

**PRESSURE RANGE**

2003-11-19

NT1 pressure range below 1 nano pa

NT1 pressure range giga pa

NT1 pressure range kilo pa

NT1 pressure range mega pa

NT2 pressure range mega pa 01-10

NT2 pressure range mega pa 10-100

NT2 pressure range mega pa 100-1000

NT1 pressure range micro pa

NT1 pressure range milli pa

NT1 pressure range nano pa

NT1 pressure range pa

RT pressure dependence

RT vacuum pumps

**PRESSURE RANGE BELOW 1 NANO PA**

2003-11-19

From 0 to 10 exp -9 pascal.

(Prior to November 2003 ULTRAHIGH

VACUUM was used for this pressure range.)

UF vacuum (below 1 nano pa)

UF vacuum (below 7.5x10(-12) torr)

SF ultrahigh vacuum

BT1 pressure range

**PRESSURE RANGE GIGA PA**

2003-11-19

From 10 exp 9 to 10 exp 12 pascal.

(Prior to November 2003 VERY HIGH

PRESSURE was used for this pressure range.)

UF pressure (10000 atm and above)

SF very high pressure

BT1 pressure range

**PRESSURE RANGE KILO PA**

2003-11-19

From 10 exp 3 to 10 exp 6 pascal.

(Prior to November 2003 MEDIUM

PRESSURE or LOW PRESSURE was used for this pressure range.)

UF pressure (1-10 atm)

UF pressure (1-10 bar)

UF pressure (10-1000 milli bar)

UF pressure (7.5 - 7.5x10(3) torr)

UF vacuum (7.5 - 7.5x10(3) torr)

SF low pressure

SF medium pressure

SF rough vacuum

SF vacuum (rough)

BT1 pressure range

**PRESSURE RANGE MEGA PA**

2003-11-19

From 10 exp 6 to 10 exp 9 pascal.

BT1 pressure range

NT1 pressure range mega pa 01-10

NT1 pressure range mega pa 10-100

NT1 pressure range mega pa 100-1000

**PRESSURE RANGE MEGA PA 01-10**

2003-11-19

(Prior to November 2003 MEDIUM

PRESSURE was used for this pressure range.)

UF pressure (10-100 atm)

UF pressure (10-100 bar)

SF medium pressure

\*BT1 pressure range mega pa

**PRESSURE RANGE MEGA PA 10-100**

2003-11-19

(Prior to November 2003 HIGH PRESSURE was used for this pressure range.)

UF high pressure

UF pressure (100-1000 atm)

\*BT1 pressure range mega pa

**PRESSURE RANGE MEGA PA 100-1000**

2003-11-19

(Prior to November 2003 VERY HIGH

PRESSURE was used for this pressure range.)

UF pressure (1000-10000 atm)

SF very high pressure

\*BT1 pressure range mega pa

**PRESSURE RANGE MICRO PA**

2003-11-19

From 10 exp -6 to 10 exp -3 pascal.

(Prior to November 2003 HIGH VACUUM was used for this pressure range.)

UF vacuum (1-1000 micro pa)

UF vacuum (7.5x10(-9) - 7.5x10(-6) torr)

SF high vacuum

SF ultrahigh vacuum

BT1 pressure range

**PRESSURE RANGE MILLI PA**

2003-11-19

From 10 exp -3 to 1 pascal.

(Prior to November 2003 MEDIUM

VACUUM or HIGH VACUUM was used for this pressure range.)

UF vacuum (1-1000 milli pa)

UF vacuum (7.5x10(-6) - 7.5x10(-3) torr)

SF high vacuum

SF medium vacuum

SF very low pressure

BT1 pressure range

**PRESSURE RANGE NANO PA**

2003-11-19

From 10 exp -9 to 10 exp -6 pascal.

(Prior to November 2003 ULTRAHIGH

VACUUM was used for this pressure range.)

UF vacuum (1-1000 nano pa)

UF vacuum (7.5x10(-12) - 7.5x10(-9) torr)  
 SF ultrahigh vacuum  
 BT1 pressure range

**PRESSURE RANGE PA**

2003-11-19

From 1 to 1000 pascal.

(Prior to November 2003 LOW PRESSURE or MEDIUM VACUUM was used for this pressure range.)

UF pressure (1-10 milli bar)  
 UF pressure (7.5x10(-3) - 7.5 torr)  
 UF vacuum (1-1000 pa)  
 UF vacuum (7.5x10(-3) - 7.5 torr)  
 UF vacuum insulation panels  
 SF low pressure  
 SF medium vacuum  
 SF rough vacuum  
 SF vacuum (rough)  
 SF very low pressure  
 BT1 pressure range

**PRESSURE REGULATORS**

\*BT1 control equipment  
 RT pressure control

**PRESSURE RELEASE**

RT hazards  
 RT pressure control  
 RT reactor safety  
 RT safety engineering

**PRESSURE SUPPRESSION**

The suppression of pressure within a containment by some technique such as a water spray.

RT condensation chambers  
 RT containment spray systems  
 RT pressure control  
 RT pressure vessels  
 RT reactor accidents  
 RT reactor safety

**PRESSURE TUBE REACTORS**

1999-09-07

\*BT1 power reactors  
 NT1 atucha-2 reactor  
 NT1 atucha reactor  
 NT1 candu type reactors  
 NT2 bruce-1 reactor  
 NT2 bruce-2 reactor  
 NT2 bruce-3 reactor  
 NT2 bruce-4 reactor  
 NT2 bruce-5 reactor  
 NT2 bruce-6 reactor  
 NT2 bruce-7 reactor  
 NT2 bruce-8 reactor  
 NT2 cernavoda-1 reactor  
 NT2 cordoba reactor  
 NT2 darlington-1 reactor  
 NT2 darlington-2 reactor  
 NT2 darlington-3 reactor  
 NT2 darlington-4 reactor  
 NT2 douglas point ontario reactor  
 NT2 embalse reactor  
 NT2 gentilly-2 reactor  
 NT2 gentilly reactor  
 NT2 kaiga-1 reactor  
 NT2 kaiga-2 reactor  
 NT2 kakrapar-1 reactor  
 NT2 kakrapar-2 reactor  
 NT2 kanupp reactor  
 NT2 npd reactor  
 NT2 pickering-1 reactor  
 NT2 pickering-2 reactor  
 NT2 pickering-3 reactor  
 NT2 pickering-4 reactor  
 NT2 pickering-5 reactor  
 NT2 pickering-6 reactor  
 NT2 pickering-7 reactor

NT2 pickering-8 reactor  
 NT2 point lepreau-1 reactor  
 NT2 point lepreau-2 reactor  
 NT2 qinshan-3-1 reactor  
 NT2 qinshan-3-2 reactor  
 NT2 rajasthan-1 reactor  
 NT2 rajasthan-2 reactor  
 NT2 rajasthan-3 reactor  
 NT2 rajasthan-4 reactor  
 NT2 wolsung-1 reactor  
 NT2 wolsung-2 reactor  
 NT2 wolsung-3 reactor  
 NT2 wolsung-4 reactor  
 NT1 cirene reactor  
 NT1 cvtr reactor  
 NT1 el-4 reactor  
 NT1 jatr reactor  
 NT1 kalpakkam-1 reactor  
 NT1 kalpakkam-2 reactor  
 NT1 lucens reactor  
 NT1 niederaichbach reactor  
 NT1 prtr reactor  
 NT1 sghwr reactor

**PRESSURE TUBES**

BT1 tubes  
 RT borescopes  
 RT calandrias  
 RT reactor cooling systems

**PRESSURE VESSELS**

UF vessels (pressure)  
 BT1 containers  
 RT autoclaves  
 RT depressurization  
 RT depressurization systems  
 RT pipe fittings  
 RT pressure control  
 RT pressure suppression

**PRESSURIZATION**

INIS: 1984-12-04; ETDE: 1976-07-07  
 (Prior to November 1990 this material was indexed to PRESSURIZING in ETDE.)

UF pressure maintenance  
 UF pressurizing  
 UF repressuring  
 RT compression  
 RT depressurization  
 RT fluid injection  
 RT pressure gradients  
 RT pressurizers  
 RT transients

**pressurized heavy water cooled/moderated reactor**

1993-11-09

USE phwr type reactors

**pressurized subcritical experiment savannah**

1993-11-09

USE pse reactor

**pressurized water cooled moderated reactor**

1993-11-09

USE pwr type reactors

**pressurized water reactors**

USE pwr type reactors

**PRESSURIZERS**

RT compressors  
 RT pressurization  
 RT reactor cooling systems

**pressurizing**

INIS: 1984-12-04; ETDE: 1976-07-07  
 (Prior to November 1990 this was a valid ETDE descriptor.)

USE pressurization

**PRESTRESSED CONCRETE**

\*BT1 composite materials  
 \*BT1 concretes

**prevention of marine pollution, 1972 london convention on**

INIS: 2002-03-02; ETDE: 2002-04-26  
 USE lcpmpdpw

**prevention of significant deterioration**

INIS: 2000-04-12; ETDE: 1979-07-24  
 US pollution regulation resulting from the Clean Air and Clean Water Acts of 1976 and 1980, respectively. Use the appropriate descriptor(s) for POLLUTION ABATEMENT below and OPTIMIZATION, if appropriate. (Prior to March 1997 this was a valid ETDE descriptor.)

SEE air pollution abatement  
 SEE land pollution abatement  
 SEE water pollution abatement

**PREVENTIVE MEDICINE**

UF prophylaxis  
 BT1 medicine  
 RT accidents  
 RT environment  
 RT epidemiology  
 RT health hazards  
 RT immunity  
 RT inspection  
 RT medical examinations  
 RT medical surveillance  
 RT public health  
 RT radiation protection

**PRICE-ANDERSON ACT**

INIS: 1978-04-21; ETDE: 1976-10-13

BT1 laws  
 RT civil liability  
 RT legal aspects  
 RT nuclear insurance  
 RT nuclear liability

**PRICES**

1992-02-21

(Prior to June 1979 CHARGES was used for this concept in ETDE. From April 1978 till March 1997 RATE STRUCTURE was a valid descriptor.)

UF rate structure  
 NT1 incremental-cost pricing  
 NT1 marginal-cost pricing  
 NT1 peak-load pricing  
 NT1 retail prices  
 NT1 rolled-in pricing  
 NT1 time-of-use pricing  
 NT1 wellhead prices  
 NT1 wholesale prices  
 RT charges  
 RT cost  
 RT economic elasticity  
 RT energy expenses  
 RT entitlements program  
 RT fuel adjustment mechanisms  
 RT income  
 RT pricing regulations  
 RT retailers  
 RT spot market

**PRICING REGULATIONS**

INIS: 1992-02-23; ETDE: 1979-11-23

\*BT1 regulations

- RT deregulation  
 RT economic policy  
 RT prices  
 RT us natural gas policy act

**prigogine-balescu theory**

- USE prigogine theorem

**PRIGOGINE THEOREM**

- UF balescu theory  
 UF prigogine-balescu theory  
 UF van hove-prigogine theory  
 RT irreversible processes

**PRIMAKOFF EFFECT**

- \*BT1 photoproduction  
 RT pions neutral

**PRIMAKOFF THEORY**

- RT fermi interactions

**PRIMARY BATTERIES**

- INIS: 2000-04-12; ETDE: 1976-05-17  
 RT electric batteries  
 RT electrochemical cells

**PRIMARY COOLANT CIRCUITS**

- \*BT1 reactor cooling systems  
 NT1 coolant cleanup systems  
 RT electromagnetic filters

**PRIMARY COSMIC RADIATION**

- \*BT1 cosmic radiation  
 NT1 cosmic alpha particles  
 NT1 cosmic gamma bursts  
 NT1 cosmic nuclei  
 NT1 cosmic x-ray bursts  
 RT cosmic gamma sources  
 RT cosmic ray sources

**PRIMARY RECOVERY**

- INIS: 2000-04-12; ETDE: 1979-02-23  
 UF natural depletion  
 SF recovery  
 RT natural gas  
 RT petroleum

**PRIMARY-SECONDARY HYBRID BATTERIES**

- 2000-04-12  
 Hybrid systems consisting of a primary battery and a rechargeable battery.  
 \*BT1 electric batteries

**PRIMATES**

- \*BT1 mammals  
 NT1 apes  
 NT1 man  
 NT2 children  
 NT3 infants  
 NT2 elderly people  
 NT2 men  
 NT2 women  
 NT1 monkeys  
 NT2 baboons  
 NT2 macacus

**PRIMENE**

- \*BT1 amines

**PRINCE EDWARD ISLAND**

- INIS: 1979-02-21; ETDE: 1980-07-23  
 \*BT1 canada  
 BT1 islands  
 RT atlantic ocean

**princeton beta experiment**

- INIS: 1988-11-16; ETDE: 2001-01-23  
 USE pbx devices

**PRINCETON CYCLOTRON**

- \*BT1 isochronous cyclotrons

**princeton large torus**

- INIS: 1975-10-23; ETDE: 1975-08-19  
 USE plt devices

**PRINCETON SYNCHROTRON**

- \*BT1 synchrotrons

**PRINTED CIRCUITS**

- BT1 electronic circuits  
 RT microelectronic circuits

**PRINTING AND PUBLISHING INDUSTRY**

- INIS: 1999-05-26; ETDE: 1979-12-10  
 BT1 industry  
 RT paper industry  
 RT wood products industry

**PRIPET RIVER**

- INIS: 1992-05-13; ETDE: 1992-09-21  
 UF pripyat river  
 \*BT1 rivers  
 RT chernobylsk-4 reactor  
 RT dneiper river  
 RT ukraine

**pripyat river**

- INIS: 1992-05-13; ETDE: 1992-09-21  
 USE pripet river

**PRISM PLOT**

- INIS: 1977-07-05; ETDE: 1977-10-19  
 Phase-space plot of a three-particle final state.  
 \*BT1 scatterplots  
 RT linear momentum  
 RT phase space  
 RT resonance particles

**PRISMATIC CONFIGURATION**

- BT1 configuration  
 RT plates  
 RT slabs

**PRISMS**

- INIS: 2000-01-21; ETDE: 1976-02-19  
 RT geometry  
 RT shape

**PRIVACY ACT**

- INIS: 2000-04-12; ETDE: 1976-10-13  
 The U.S. Privacy Act of 1974.  
 BT1 laws  
 RT documentation  
 RT information

**private law**

- INIS: 1990-12-15; ETDE: 2002-04-26  
 (Prior to December 1990, this was a valid descriptor.)  
 USE laws

**PRIVATE VEHICLES**

- 2006-05-24  
 Transportation means not available for general public use, for such vehicles see MASS TRANSIT SYSTEMS. Use also a more specific term from the word block of VEHICLES if appropriate.  
 BT1 transportation systems

**PRNC-L-77 REACTOR**

- Univ. of Puerto Rico, College Station, Mayaguez, Puerto Rico, USA. Shut down in 1979.  
 UF l-77 puerto rico reactor  
 UF mayaguez puerto rico l-77 reactor  
 UF puerto rico nuclear center l-77 reactor  
 \*BT1 aqueous homogeneous reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 research reactors

- \*BT1 training reactors

**PROBABILISTIC ESTIMATION**

- INIS: 1986-04-04; ETDE: 1983-01-21  
 Analytical technique for calculation of unknown quantities and the uncertainty associated with the probabilistic estimates of those quantities.

- UF probabilistic safety assessment  
 BT1 calculation methods  
 RT deterministic estimation  
 RT fault tree analysis  
 RT forecasting  
 RT probability  
 RT resource assessment  
 RT risk assessment  
 RT safety analysis  
 RT statistics

**probabilistic safety assessment**

- 2003-12-17  
 USE probabilistic estimation  
 USE risk assessment

**PROBABILITY**

- RT chaos theory  
 RT ergodic hypothesis  
 RT expectation value  
 RT fuzzy logic  
 RT game theory  
 RT maximum-likelihood fit  
 RT monte carlo method  
 RT probabilistic estimation  
 RT risk assessment  
 RT statistics

**PROBES**

- UF sondes  
 NT1 deuteron probes  
 NT1 electric probes  
 NT2 langmuir probe  
 NT2 plasma eaters  
 NT1 electron probes  
 NT1 electrostatic probes  
 NT1 ion probes  
 NT1 magnetic probes  
 NT1 muon probes  
 NT1 neutron probes  
 NT1 proton probes  
 NT1 sonic probes  
 RT measuring instruments  
 RT well logging equipment

**PROCA EQUATIONS**

- \*BT1 partial differential equations  
 RT quantum mechanics

**PROCAINE**

- UF novocaine  
 \*BT1 anesthetics

**PROCEEDINGS**

- 1996-05-14  
 Use only for items about proceedings, not for items which are proceedings.  
 BT1 document types  
 RT meetings

**PROCESS COMPUTERS**

- INIS: 1976-07-16; ETDE: 1979-05-25  
 Computers - usually digital - used for the control of technical processes.  
 BT1 computers  
 RT on-line control systems  
 RT reactor control systems  
 RT real time systems

**PROCESS CONTROL**

- INIS: 1992-02-04; ETDE: 1975-12-16  
 BT1 control  
 RT ore processing  
 RT processing



RT reprocessing  
RT waste processing

**process development pile**

USE pdp reactor

**PROCESS DEVELOPMENT UNITS**

INIS: 1984-04-04; ETDE: 1977-01-10

UF pdu  
BT1 functional models  
RT bench-scale experiments  
RT demonstration plants  
RT field tests  
RT pilot plants

**PROCESS HEAT**

INIS: 2000-05-17; ETDE: 1975-09-12

Heat for industrial processes.

UF heat (process)  
\*BT1 heat  
NT1 geothermal process heat  
NT1 solar process heat  
RT dual-purpose power plants  
RT process heat reactors  
RT retorting

**PROCESS HEAT REACTORS**

BT1 reactors  
NT1 agesta reactor  
NT1 midland-1 reactor  
NT1 midland-2 reactor  
NT1 nhr-5 reactor  
NT1 pm-2a reactor  
NT1 ser reactor  
NT1 sl-1 reactor  
NT1 slowpoke-wnre reactor  
NT1 sm-1a reactor  
NT1 snap 10 reactor  
NT2 s10fs-1 reactor  
NT2 s10fs-3 reactor  
NT2 s10fs-4 reactor  
NT1 snap-tsrf reactor  
NT1 thermos reactor  
RT power reactors  
RT process heat

**PROCESS SOLUTIONS**

INIS: 1992-04-02; ETDE: 1978-04-27

UF plating solutions  
\*BT1 solutions

**processes (adiabatic)**

USE adiabatic processes

**processes (isentropic)**

USE isentropic processes

**processes (isothermal)**

USE isothermal processes

**PROCESSING**

2000-02-01

Use of one of the more specific terms listed below is recommended.

NT1 coprocessing  
NT1 data processing  
NT2 distributed data processing  
NT2 memory management  
NT2 spectra unfolding  
NT2 task scheduling  
NT1 food processing  
NT2 pasteurization  
NT3 radacidation  
NT2 radappertization  
NT2 radurization  
NT1 image processing  
NT1 in-situ processing  
NT2 in-situ combustion  
NT2 in-situ gasification  
NT2 in-situ liquefaction  
NT2 in-situ retorting

NT2 solution mining  
NT1 odorization  
NT1 ore processing  
NT2 ore enrichment  
NT2 retorting  
NT3 in-situ retorting  
NT1 refining  
NT2 electrorefining  
NT2 gulf hds process  
NT2 zone refining  
NT1 waste processing  
NT2 activated sludge process  
NT2 composting  
NT2 fluidized bed refuse gasification  
NT2 landgard pyrolysis system  
NT2 lime-soda sinter process  
NT2 materials recovery  
NT2 molten salt waste gasification process  
NT2 occidental flash pyrolysis process  
NT2 purox pyrolysis process  
NT2 radioactive waste processing  
NT3 harvest process  
NT2 slagging pyrolysis process  
NT2 steam stripping  
NT2 syngas process  
NT2 unisulf process  
NT2 wet oxidation processes  
RT process control

**processing (data)**

USE data processing

**processing (food)**

INIS: 1997-06-05; ETDE: 2002-04-26

USE food processing

**processing (images)**

INIS: 1997-06-05; ETDE: 2002-04-26

USE image processing

**processing (ores)**

USE ore processing

**processing (wastes)**

USE waste processing

**PROCTITIS**

\*BT1 digestive system diseases  
RT rectum

**PROCUREMENT**

INIS: 1992-05-26; ETDE: 1976-04-19

BT1 business  
RT accounting  
RT cost  
RT cost overruns  
RT debt collection  
RT goods and services  
RT proposals  
RT time delay

**PRODUCER GAS**

2000-04-12

Gas manufactured by the action of air and steam on coke or coal. 130 to 140 btu per cubic foot.

\*BT1 low btu gas

**producer price index**

INIS: 2000-04-12; ETDE: 1981-10-24

(Prior to March 1996 WHOLESAL PRICE INDEX was used for this concept in ETDE.)  
USE wholesale prices

**PRODUCT LABELING**

INIS: 2000-04-12; ETDE: 1979-03-27

RT advertising  
RT consumer protection

**PRODUCTION**

Limited to industrial production; see also PARTICLE PRODUCTION.

UF output  
RT availability  
RT capacity  
RT computer-aided manufacturing  
RT fabrication  
RT gross domestic product  
RT gross national product  
RT isotope production  
RT manufacturing  
RT planning  
RT productivity

**production (beam)**

USE beam production

**production (hydrogen)**

INIS: 1994-10-13; ETDE: 1980-11-08

USE hydrogen production

**production (isotope)**

INIS: 2000-04-12; ETDE: 1980-07-09

USE isotope production

**production (pair)**

INIS: 2000-04-12; ETDE: 1980-11-08

USE pair production

**production (particle)**

INIS: 2000-04-12; ETDE: 1980-07-09

USE particle production

**production (plasma)**

INIS: 2000-04-12; ETDE: 1980-11-08

USE plasma production

**production capacity**

INIS: 1982-12-03; ETDE: 1977-06-02

USE capacity

**PRODUCTION LOGGING**

INIS: 2000-04-12; ETDE: 1977-01-10

Logging run inside tubing to measure production rate of oil or natural gas wells. Instrumentation may be flowmeters, gradiomanometer, densitometer, watercutmeter, thermometer, radioactive tracer tool, caliper, casing-collar locator, or fluid sampler.

BT1 well logging

**production mechanisms (particle)**

INIS: 1993-11-09; ETDE: 2002-04-26

Production of elementary particles; when appropriate, more specific descriptors listed under PARTICLE PRODUCTION should be used instead.

USE particle production

**PRODUCTION REACTORS**

For the production of fissile materials only; see also IRRADIATION REACTORS.

BT1 reactors  
NT1 plutonium production reactors  
NT2 calder hall a-1 reactor  
NT2 calder hall a-2 reactor  
NT2 calder hall b-3 reactor  
NT2 calder hall b-4 reactor  
NT2 chapelcross-1 reactor  
NT2 chapelcross-2 reactor  
NT2 chapelcross-3 reactor  
NT2 chapelcross-4 reactor  
NT2 g-1 reactor  
NT2 g-2 reactor  
NT2 g-3 reactor  
NT2 hanford production reactors  
NT2 n-reactor  
NT2 windscale production reactors  
NT1 rtr reactor

- NT1** special production reactors  
**NT2** c reactor  
**NT2** k reactor  
**NT2** l reactor  
**NT2** p reactor  
**NT2** r reactor  
**NT1** sr-305 reactor

**production risers**

*INIS: 2000-04-12; ETDE: 1977-04-12*  
 USE marine risers

**production tax**

*INIS: 2000-04-12; ETDE: 1981-03-17*  
 USE severance tax

**PRODUCTIVITY**

- UF* yield (biological)  
*RT* efficiency  
*RT* feasibility studies  
*RT* gas yields  
*RT* oil yields  
*RT* performance  
*RT* plant breeding  
*RT* production  
*RT* yields

**productivity factor**

*INIS: 2000-04-12; ETDE: 1983-01-21*  
 USE formation damage

**professional personnel**

*INIS: 2000-04-12; ETDE: 1979-03-28*  
 SEE architects  
 SEE engineers  
 SEE personnel  
 SEE scientific personnel

**professions**

USE occupations

**PROFITS**

*1992-04-09*  
*UF* margins  
*RT* economics  
*RT* income  
*RT* royalties  
*RT* windfall profits tax

**PROFLAVINE**

\*BT1 flavines  
 BT1 mutagens  
*RT* acriflavine

**PROGENY**

*UF* offsprings  
*RT* animal breeding  
*RT* children  
*RT* fertility  
*RT* litter size  
*RT* parturition  
*RT* plant breeding  
*RT* reproduction  
*RT* sex ratio

**PROGESTERONE**

*1996-10-23*  
*UF* progesterin  
 \*BT1 ketones  
 \*BT1 pregnanes  
 \*BT1 steroid hormones  
*RT* hydroxypregnenone  
*RT* lth  
*RT* ovaries  
*RT* pregnancy

**progesterin**

*INIS: 2000-04-12; ETDE: 1978-10-23*  
 USE progesterone

**PROGNOZ SATELLITES**

BT1 satellites

**PROGRAM MANAGEMENT**

*1992-05-21*

(From February to May 1992, this concept was indexed to USDOE PROGRAM MANAGEMENT in ETDE.)

- UF* financial management  
*UF* project management  
*UF* us doe program management  
 BT1 management  
 NT1 contract management  
 RT demonstration programs  
 RT property management  
 RT research programs

**PROGRAMMING**

Limited to computer programming. See also PLANNING.

- UF* computer programming  
 NT1 data-flow processing  
 NT1 parallel processing  
 NT1 vector processing  
 RT artificial intelligence  
 RT computer codes  
 RT computer program documentation  
 RT computers  
 RT executive codes  
 RT expert systems  
 RT fault tolerant computers  
 RT knowledge base  
 RT memory management  
 RT programming languages  
 RT translators

**PROGRAMMING LANGUAGES**

*1996-07-23*

(Natural language as well as specific languages listed below as UF terms have been valid ETDE descriptors.)

- UF* computer languages  
*UF* forth  
*UF* languages (programming)  
*UF* mimic  
*UF* natural language  
*UF* pl-11 language  
*UF* speakeasy  
 NT1 ada  
 NT1 algol  
 NT1 basic  
 NT1 cobol  
 NT1 fortran  
 NT1 java  
 NT1 lisp  
 NT1 pascal  
 NT1 pl-1 language  
 NT1 prolog  
 RT computer codes  
 RT computer program documentation  
 RT programming  
 RT translators

**PROGRESS REPORT**

*INIS: 1987-09-22; ETDE: 1987-10-23*  
 Use only in conjunction with the literary indicator Y for indexing progress reports.  
 BT1 document types

**prohibition of nuclear weapons (latin american treaty)**

*INIS: 1993-11-09; ETDE: 2002-04-26*  
 USE tlattelolco treaty

**PROHIBITION ORDERS**

*INIS: 2000-04-12; ETDE: 1980-08-12*  
 BT1 administrative procedures

**project anvil**

*INIS: 1978-04-21; ETDE: 2002-06-13*  
 USE anvil project

**project apollo**

USE apollo project

**project bedrock**

*INIS: 1976-11-08; ETDE: 2002-06-13*  
 USE bedrock project

**project buffalo**

*1996-06-26*  
 (Prior to June 1996 BUFFALO PROJECT was a valid ETDE descriptor.)  
 USE nuclear explosions

**project castle**

*1976-11-17*  
 USE castle project

**project crossroads**

*1976-11-17*  
 USE crossroads project

**project dominic**

*1976-11-17*  
 USE dominic project

**project greenhouse**

*1976-11-17*  
 USE greenhouse project

**project hardtack**

*1976-11-17*  
 USE hardtack project

**PROJECT INDEPENDENCE**

*2000-04-12*  
 \*BT1 energy policy

**project independence evaluation system**

*INIS: 2000-04-12; ETDE: 1979-02-23*  
 USE pies

**project ivy**

*2002-06-07*  
 (Prior to March 1996 IVY PROJECT was a valid ETDE descriptor.)  
 USE nuclear explosions

**project jangle**

*2002-06-07*  
 (Prior to March 1996 JANGLE PROJECT was a valid ETDE descriptor.)  
 USE nuclear explosions

**project management**

*INIS: 2000-04-12; ETDE: 1980-09-05*  
 USE program management

**project plowshare**

USE plowshare project

**project plumbbob**

*1976-11-17*  
 USE plumbbob project

**project redwing**

*INIS: 1985-01-17; ETDE: 2002-06-13*  
 USE redwing project

**project salt vault**

*INIS: 2000-04-12; ETDE: 1980-12-08*  
 USE salt vault project

**project sunshine**

*INIS: 2000-04-12; ETDE: 1976-05-17*  
 USE sunshine project

**project thunderbird**

*INIS: 1983-09-05; ETDE: 1975-11-26*  
 USE thunderbird project

**project upshot**

1976-11-17

USE upshot project

**project vela**

1976-11-17

USE vela project

**PROJECTILES**

RT armor

RT earth penetrators

RT guns

RT nuclear weapons

RT rockets

**PROJECTION OPERATORS**

*A mathematical operator for projecting a quantity, e.g., angular momentum, on a given coordinate.*

BT1 mathematical operators

RT aligned coupling scheme

RT quantum mechanics

RT wave functions

**PROJECTION SERIES**

INIS: 1994-07-01; ETDE: 1980-08-12

BT1 energy models

BT1 forecasting

RT mathematical models

**PROJECTION SPARK CHAMBERS**

*Charged-particle detectors that provide particle identification through ionization loss sampling as well as three-dimensional particle trajectory measurement.*

\*BT1 spark chambers

RT drift chambers

RT fermilab collider detector

RT multiwire proportional chambers

RT time projection chambers

**projection welding**

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE resistance welding

**projectors (scanning)**

USE scanning measuring projectors

**prolactin**

USE lth

**PROLIFERATION**

INIS: 1978-02-23; ETDE: 1977-08-09

(From May 1987 till March 1997

TERRORISM was a valid ETDE descriptor.)

UF non-proliferation

UF nonproliferation

UF nuclear weapons proliferation

SF terrorism

RT denatured fuel

RT fuel cycle

RT non-proliferation policy

RT non-proliferation treaty

RT nuclear deterrence

RT nuclear materials possession

RT nuclear weapons dismantlement

RT safeguards

**proliferation (cell)**

INIS: 1978-04-21; ETDE: 2002-04-26

USE cell proliferation

**proliferation resistant molten****salt/metal extraction**

INIS: 2000-04-12; ETDE: 1979-09-26

USE reprocessing

**PROLINE**

UF 2-pyrrolidinecarboxylic acid

\*BT1 amino acids

\*BT1 heterocyclic acids

\*BT1 pyrrolidines

RT collagen

RT hydroxyproline

**PROLOG**

INIS: 1989-04-20; ETDE: 1985-12-11

BT1 programming languages

**promazine**

USE tranquilizers

**promethazine**

ETDE: 1981-04-20

(Prior to April 1994, this was a valid ETDE descriptor.)

USE antihistaminics

**PROMETHIUM**

UF illinium

\*BT1 rare earths

**PROMETHIUM 129**

2006-01-18

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 130**

INIS: 1985-07-22; ETDE: 1985-08-08

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 131**

INIS: 1998-10-20; ETDE: 1998-11-04

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 132**

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 133**

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 134**

INIS: 1977-04-07; ETDE: 1977-06-03

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 135**

INIS: 1976-01-28; ETDE: 1976-03-12

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 136**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 137**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 138**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 139**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 140**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 141**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 142**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 seconds living radioisotopes

**PROMETHIUM 143**

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

**PROMETHIUM 144**

\*BT1 electron capture radioisotopes

\*BT1 odd-odd nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 years living radioisotopes

**PROMETHIUM 145**

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 internal conversion radioisotopes

\*BT1 odd-even nuclei

\*BT1 promethium isotopes

\*BT1 rare earth nuclei

\*BT1 years living radioisotopes

**PROMETHIUM 145 TARGET**

INIS: 1992-09-23; ETDE: 1986-04-29

BT1 targets

**PROMETHIUM 146**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**PROMETHIUM 147**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei
- \*BT1 years living radioisotopes

**PROMETHIUM 147 TARGET**

*INIS: 1984-05-24; ETDE: 1980-01-15*  
BT1 targets

**PROMETHIUM 148**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 149**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 149 TARGET**

*INIS: 1976-03-17; ETDE: 1976-07-12*  
BT1 targets

**PROMETHIUM 150**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 151**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 152**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 153**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 154**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 promethium isotopes
- \*BT1 rare earth nuclei

**PROMETHIUM 155**

*INIS: 1982-04-14; ETDE: 1981-09-08*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**PROMETHIUM 156**

*INIS: 1986-10-29; ETDE: 1986-11-20*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**PROMETHIUM 157**

*INIS: 1987-08-27; ETDE: 1987-10-02*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**PROMETHIUM 158**

*INIS: 1987-08-27; ETDE: 1987-10-02*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 promethium isotopes  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

**PROMETHIUM ADDITIONS**

1996-07-23  
*Alloys containing not more than 1% Pm are listed here.*  
\*BT1 rare earth additions

**promethium alloys**

1996-07-23  
*See also PROMETHIUM ADDITIONS.*  
(Until July 1996 this was a valid descriptor.)  
USE rare earth alloys

**promethium bromides**

1996-07-23  
(Until July 1996 this was a valid descriptor.)  
USE bromides  
USE promethium compounds

**PROMETHIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 promethium compounds

**PROMETHIUM COMPLEXES**

- \*BT1 rare earth complexes

**PROMETHIUM COMPOUNDS**

1997-06-19  
*UF promethium bromides*  
*UF promethium iodides*  
*UF promethium phosphates*  
BT1 rare earth compounds  
NT1 promethium chlorides  
NT1 promethium fluorides  
NT1 promethium hydroxides  
NT1 promethium nitrates  
NT1 promethium oxides

**PROMETHIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 promethium compounds

**PROMETHIUM HYDROXIDES**

2000-04-12  
\*BT1 hydroxides  
\*BT1 promethium compounds

**promethium iodides**

1996-07-23  
(Until July 1996 this was a valid descriptor.)  
USE iodides  
USE promethium compounds

**PROMETHIUM IONS**

- \*BT1 ions

**PROMETHIUM ISOTOPES**

- BT1 isotopes
- NT1 promethium 129
- NT1 promethium 130

NT1 promethium 131  
NT1 promethium 132  
NT1 promethium 133  
NT1 promethium 134  
NT1 promethium 135  
NT1 promethium 136  
NT1 promethium 137  
NT1 promethium 138  
NT1 promethium 139  
NT1 promethium 140  
NT1 promethium 141  
NT1 promethium 142  
NT1 promethium 143  
NT1 promethium 144  
NT1 promethium 145  
NT1 promethium 146  
NT1 promethium 147  
NT1 promethium 148  
NT1 promethium 149  
NT1 promethium 150  
NT1 promethium 151  
NT1 promethium 152  
NT1 promethium 153  
NT1 promethium 154  
NT1 promethium 155  
NT1 promethium 156  
NT1 promethium 157  
NT1 promethium 158

**PROMETHIUM NITRATES**

- \*BT1 nitrates
- \*BT1 promethium compounds

**PROMETHIUM OXIDES**

- \*BT1 oxides
- \*BT1 promethium compounds

**promethium phosphates**

2000-04-12  
(Prior to March 1997 this was a valid ETDE descriptor.)  
USE phosphates  
USE promethium compounds

**promex process**

*INIS: 2000-04-12; ETDE: 1979-09-26*  
*Method for reprocessing ceramic oxide or carbide fuels using extraction by molten salts followed by liquid metal extraction.*  
(Prior to January 1995, this was a valid ETDE descriptor.)  
USE reprocessing

**prominences (solar)**

- USE solar prominences

**PROMOTERS**

- NT1 tumor promoters
- RT catalysts

**PROMPT ELECTRONS**

- \*BT1 electrons

**PROMPT GAMMA RADIATION**

*UF pige analysis*  
\*BT1 gamma radiation  
RT nuclear reactions  
RT photons

**PROMPT NEUTRONS**

- \*BT1 fission neutrons
- RT fission spectra
- RT watt fission spectrum

**PROMPT PROTONS**

- \*BT1 protons

**prongs**

- USE particle tracks

**PRONY METHOD**

INIS: 2000-04-12; ETDE: 1979-10-03

Means of obtaining parametric characterization of experimental data by fitting with sum of complex exponentials.

- BT1 mathematics
- BT1 parametric analysis
- RT data analysis
- RT data processing
- RT least square fit
- RT numerical analysis

**proof test facility united nuclear corporation**

1993-11-09

- USE ptf-unc reactor

**propadiene**

- USE allene

**propagation (wave)**

- USE wave propagation

**PROPAGATOR**

- RT feynman path integral
- RT quantum field theory

**PROPANE**

- \*BT1 alkanes

**propanol (1-)**

ETDE: 2002-04-26

- USE propanols

**PROPANOLS**

- UF 1-propanol
- UF 2-propanol
- UF propanol (1-)
- UF propyl alcohols
- \*BT1 alcohols

**propanone**

- USE acetone

**PROPARGYL RADICALS**

- \*BT1 alkyl radicals

**propellants**

2000-04-12

(Prior to March 1997 this was a valid ETDE descriptor.)

- SEE explosives
- SEE fuels

**propenal**

- USE acrolein

**propene**

- USE propylene

**PROPER MOTION**

Motion of a star with relation to the celestial sphere.

- BT1 motion
- RT stars

**properdin**

2000-04-12

One component of a complement.

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE complement
- USE serine proteinases

**properties (chemical)**

INIS: 2000-04-12; ETDE: 1978-04-28

- USE chemical properties

**properties (mechanical)**

INIS: 2000-04-12; ETDE: 1978-04-28

- USE mechanical properties

**properties (physical)**

INIS: 2000-04-12; ETDE: 1978-04-28

- USE physical properties

**property insurance**

INIS: 1990-12-15; ETDE: 2002-04-26

(Prior to December 1990, this was a valid descriptor.)

- USE insurance

**PROPERTY MANAGEMENT**

INIS: 1992-07-22; ETDE: 1983-03-24

- BT1 management
- RT program management
- RT resource management

**PROPERTY RIGHTS**

INIS: 1986-07-09; ETDE: 1978-12-11

- RT legal aspects
- RT licenses
- RT ownership
- RT site approvals
- RT water rights

**property tax exemption**

INIS: 1982-12-03; ETDE: 1980-04-14

- USE financial incentives

**PROPERTY VALUES**

INIS: 1993-02-18; ETDE: 1978-02-14

- RT economics
- RT investment
- RT socio-economic factors

**prophase**

- USE mitosis

**prophylaxis**

- USE preventive medicine

**propine**

- USE propyne

**PROPIOLONITRILE**

2000-04-12

- UF cyanoacetylene

- \*BT1 nitriles

**PROPIONIC ACID**

- \*BT1 monocarboxylic acids

**PROPORTIONAL COUNTERS**

- \*BT1 radiation detectors
- NT1 bf3 counters
- NT1 boron lined counters
- NT1 he-3 counters
- NT1 liquid proportional counters
- NT1 multiwire proportional chambers
  - NT2 drift chambers
  - NT3 time projection chambers
- NT1 needle chambers
- RT avalanche quenching
- RT corona counters
- RT flow counters
- RT gas scintillation detectors
- RT proton recoil detectors
- RT wall effects
- RT wall-less counters

**PROPOSALS**

INIS: 1999-03-15; ETDE: 1983-05-21

(From June 1978 until March 1996 BIDS was a valid ETDE descriptor.)

- UF bids
- UF unsolicited proposals
- RT contracts
- RT procurement

**PROPOSED REMEDIAL ORDERS**

INIS: 2000-04-12; ETDE: 1979-12-10

- BT1 administrative procedures

**PROPPING AGENTS**

INIS: 2000-04-12; ETDE: 1977-01-10

Materials, generally sand or other rock material, used to prop the artificial crevices formed when underground formations are fractured.

- RT borehole linking
- RT natural gas wells
- RT well completion

**PROPRIETARY INFORMATION**

INIS: 2000-04-12; ETDE: 1983-03-24

- BT1 information
- RT information dissemination

**PROPULSION**

- NT1 ion propulsion
- NT1 solar electric propulsion
- RT ion thrusters
- RT propulsion reactors
- RT propulsion systems
- RT thrusters
- RT transport

**PROPULSION REACTORS**

- SF 710 reactor
- \*BT1 power reactors
- NT1 aircraft propulsion reactors
  - NT2 xma-1 reactor
- NT1 ship propulsion reactors
  - NT2 efd-50 reactor
  - NT2 lenin reactor
  - NT2 leonid brezhnev reactor
  - NT2 mutsu reactor
  - NT2 otto hahn reactor
  - NT2 savannah reactor
  - NT2 sibir reactor
- NT1 space propulsion reactors
  - NT2 kiwi reactors
    - NT3 kiwi-tnt reactor
  - NT2 nerva reactor
  - NT2 nrx-a1 reactor
  - NT2 nrx-a2 reactor
  - NT2 nrx-a3 reactor
  - NT2 nrx-a4-est reactor
  - NT2 nrx-a5 reactor
  - NT2 nrx-a6 reactor
  - NT2 nrx-a7 reactor
  - NT2 pewee-1 reactor
  - NT2 pewee-2 reactor
  - NT2 pewee-3 reactor
  - NT2 pewee-4 reactor
  - NT2 phoebus-1a reactor
  - NT2 phoebus-1b reactor
  - NT2 phoebus-2a reactor
  - NT2 rover reactors
  - NT2 twmr reactor
  - NT2 xe-2 reactor
- NT1 tory-2a reactor
- NT1 tory-2c reactor
- NT1 xe-prime reactor
- RT propulsion
- RT propulsion systems
- RT zpr-9 reactor

**PROPULSION SYSTEMS**

INIS: 1986-01-21; ETDE: 1981-10-24

- RT aircraft
- RT ion thrusters
- RT missiles
- RT propulsion
- RT propulsion reactors
- RT rockets
- RT thrusters
- RT vehicles

**propyl alcohols**

- USE propanols

**PROPYL RADICALS**

- \*BT1 alkyl radicals

**PROPYLENE**

- UF* propene  
 \*BT1 alkenes  
*RT* polypropylene

**propylene carbonate**

- INIS*: 2000-04-12; *ETDE*: 1980-12-08  
 USE carbonic acid esters

**PROPYNE**

- UF* methylacetylene  
*UF* propine  
 \*BT1 alkynes

**PROSPECTING**

- NT1** aerial prospecting  
*RT* exploration  
*RT* geochemical surveys  
*RT* geologic surveys  
*RT* geophysical surveys

**PROSTAGLANDINS**

- RT* hormones  
*RT* prostate

**PROSTATE**

- \*BT1 glands  
 \*BT1 male genitals  
*RT* prostaglandins

**PROSTHESES**

- 1995-11-15  
 BT1 medical supplies  
**NT1** mechanical heart  
*RT* artificial organs  
*RT* cardiac pacemakers  
*RT* surgical materials

**PROTACTINIUM**

- \*BT1 actinides

**PROTACTINIUM 212**

- INIS*: 2000-04-12; *ETDE*: 1997-10-10  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 213**

- INIS*: 1995-05-22; *ETDE*: 1995-06-08  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 214**

- INIS*: 1995-05-22; *ETDE*: 1995-06-08  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 215**

- INIS*: 1979-09-18; *ETDE*: 1979-10-23  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 216**

- \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 217**

- 1977-09-15  
 \*BT1 actinide nuclei

- \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 218**

- INIS*: 1977-09-15; *ETDE*: 1977-11-10  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 219**

- INIS*: 1986-12-09; *ETDE*: 1987-02-24  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 220**

- 1984-11-30  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 221**

- 1984-11-30  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 microseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 222**

- INIS*: 1977-03-01; *ETDE*: 1976-12-15  
 \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 223**

- \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 224**

- \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 225**

- \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes  
 \*BT1 seconds living radioisotopes

**PROTACTINIUM 226**

- \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 227**

- \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 228**

- \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 229**

- \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 230**

- \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 231**

- \*BT1 actinide nuclei  
 \*BT1 alpha decay radioisotopes  
 \*BT1 neon 24 decay radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes  
 \*BT1 years living radioisotopes

**PROTACTINIUM 231 TARGET**

- ETDE*: 1976-07-09  
 BT1 targets

**PROTACTINIUM 232**

- \*BT1 actinide nuclei  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 232 TARGET**

- 1979-11-02  
 BT1 targets

**PROTACTINIUM 233**

- \*BT1 actinide nuclei  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 233 TARGET**

- INIS*: 1980-07-24; *ETDE*: 1980-08-12  
 BT1 targets

**PROTACTINIUM 234**

- \*BT1 actinide nuclei  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 235**

- \*BT1 actinide nuclei  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 236**

- \*BT1 actinide nuclei  
 \*BT1 beta-minus decay radioisotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 protactinium isotopes

**PROTACTINIUM 237**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 protactinium isotopes

**PROTACTINIUM 238**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 protactinium isotopes

**PROTACTINIUM 239**

1996-01-11

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 protactinium isotopes

**protactinium additions**

2000-03-28

(Until July 1996 this was a valid descriptor.)

- USE protactinium alloys

**PROTACTINIUM ALLOYS**

1996-07-23

*Alloys containing more than 1% Pa.**UF protactinium additions*

- \*BT1 actinide alloys

**PROTACTINIUM BROMIDES**

- \*BT1 bromides
- \*BT1 protactinium compounds

**protactinium carbides**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE carbides
- USE protactinium compounds

**PROTACTINIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 protactinium compounds

**PROTACTINIUM COMPLEXES**

- \*BT1 actinide complexes

**PROTACTINIUM COMPOUNDS**

1996-11-13

- UF protactinium carbides*
- UF protactinium hydrides*
- UF protactinium hydroxides*
- UF protactinium iodides*
- UF protactinium nitrates*
- UF protactinium phosphates*
- UF protactinium sulfates*

- BT1 actinide compounds
- NT1 protactinium bromides
- NT1 protactinium chlorides
- NT1 protactinium fluorides
- NT1 protactinium oxides

**PROTACTINIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 protactinium compounds

**protactinium hydrides***INIS: 1997-01-28; ETDE: 1984-08-06*

(Until October 1996 this was a valid descriptor.)

- USE hydrides
- USE protactinium compounds

**protactinium hydroxides**

1996-07-23

(Until July 1996 this was a valid descriptor.)

- USE hydroxides
- USE protactinium compounds

**protactinium iodides**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE iodides
- USE protactinium compounds

**PROTACTINIUM IONS**

- \*BT1 ions

**PROTACTINIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 protactinium 212
- NT1 protactinium 213
- NT1 protactinium 214
- NT1 protactinium 215
- NT1 protactinium 216
- NT1 protactinium 217
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- NT1 protactinium 237
- NT1 protactinium 238
- NT1 protactinium 239

**protactinium nitrates**

1996-07-23

(Until July 1996 this was a valid descriptor.)

- USE nitrates
- USE protactinium compounds

**PROTACTINIUM OXIDES**

- \*BT1 oxides
- \*BT1 protactinium compounds

**protactinium phosphates***INIS: 2000-04-12; ETDE: 1976-09-15*

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE phosphates
- USE protactinium compounds

**protactinium sulfates**

1996-07-23

(Until July 1996 this was a valid descriptor.)

- USE protactinium compounds
- USE sulfates

**PROTAMINES**

1996-07-08

(Prior to August 1996 SALMIN was a valid ETDE descriptor.)

- UF salmin*
- \*BT1 coagulants
- \*BT1 proteins
- RT nucleoproteins

**protection**

2000-04-12

- USE safety

**protection (corrosion)**

- USE corrosion protection

**protection (radiation)**

- USE radiation protection

**protection (safety)***INIS: 1976-03-02; ETDE: 2002-04-26*

- USE safety

**protective chemicals***INIS: 2000-04-12; ETDE: 1977-04-12*

- USE response modifying factors

**PROTECTIVE CLOTHING**

- BT1 clothing
- NT1 gloves
- RT life support systems
- RT radiation protection
- RT respirators
- RT skin absorption

**PROTECTIVE COATINGS**

- BT1 coatings
- RT decontamination
- RT latex
- RT waterproofing

**protein-bound iodine**

- USE pbi

**PROTEIN DENATURATION**

- UF denaturation (protein)*
- RT heat treatments
- RT molecular structure
- RT ph value
- RT protein structure
- RT proteins

**PROTEIN ENGINEERING***INIS: 1994-09-08; ETDE: 1988-04-15**Alteration of the primary structure of a protein to enhance a desired property.*

- RT amino acid sequence
- RT biochemical reaction kinetics
- RT biotechnology
- RT genetic engineering
- RT polymerase chain reaction
- RT structure-activity relationships

**protein sequencing***INIS: 2000-04-12; ETDE: 1984-02-10*

- USE amino acid sequence

**PROTEIN STRUCTURE**

1984-12-04

- RT amino acid sequence
- RT amino acids
- RT molecular structure
- RT post-translation modification
- RT protein denaturation
- RT proteins
- RT structure-activity relationships

**PROTEINS**

1996-07-23

- BT1 organic compounds
- NT1 actin
- NT1 albumins
- NT2 luciferin
- NT1 blood coagulation factors
- NT2 fibrin
- NT2 fibrinogen
- NT2 kallikrein
- NT2 plasminogen
- NT2 prothrombin
- NT2 thrombin
- NT2 thromboplastin
- NT2 urokinase
- NT1 calmodulin
- NT1 casein
- NT1 chlorophyll-binding proteins
- NT1 complement
- NT1 cytochromes

- NT1** enzymes  
**NT2** dna helicases  
**NT2** gene recombination proteins  
**NT2** hydrolases  
   **NT3** acid anhydrases  
   **NT4** gtp-ases  
   **NT4** phosphohydrolases  
   **NT5** atp-ase  
**NT3** esterases  
   **NT4** carboxylesterases  
   **NT5** cholinesterase  
   **NT5** lipases  
**NT4** phosphatases  
   **NT5** acid phosphatase  
   **NT5** alkaline phosphatase  
   **NT5** nucleotidases  
**NT4** phosphodiesterases  
   **NT5** nucleases  
   **NT6** dna-ase  
   **NT7** endonucleases  
   **NT6** rna-ase  
**NT3** glycosyl hydrolases  
   **NT4** o-glycosyl hydrolases  
   **NT5** amylase  
   **NT5** cellulase  
   **NT5** galactosidase  
   **NT5** glucosidase  
   **NT5** glucuronidase  
   **NT5** hyaluronidase  
   **NT5** lysozyme  
   **NT5** xylanase  
**NT3** non-peptide c-n hydrolases  
**NT4** amidases  
   **NT5** arginase  
   **NT5** urease  
**NT4** amidinases  
**NT3** peptide hydrolases  
**NT4** acid proteinases  
   **NT5** pepsin  
**NT4** aminopeptidases  
**NT4** carboxypeptidases  
**NT4** nonspecific peptidases  
   **NT5** renin  
   **NT5** urokinase  
**NT4** serine proteinases  
   **NT5** chymotrypsin  
   **NT5** fibrinolysin  
   **NT5** kallikrein  
   **NT5** thrombin  
   **NT5** trypsin  
**NT4** sh-proteinases  
   **NT5** cathepsins  
   **NT5** papain  
   **NT5** streptococcal proteinase  
**NT2** isomerases  
**NT2** ligases  
**NT2** lyases  
   **NT3** carbon-carbon lyases  
   **NT4** aldehyde-lyases  
   **NT4** aldolases  
   **NT4** carboxy-lyases  
     **NT5** carboxylase  
     **NT5** decarboxylases  
     **NT5** ribulose diphosphate carboxylase  
**NT3** carbon-oxygen lyases  
**NT4** hyaluronidase  
**NT4** hydro-lyases  
   **NT5** carbonic anhydrase  
**NT3** cyclases  
**NT3** dna methylases  
**NT2** oxidoreductases  
**NT3** amine oxidases  
**NT3** aryl 4-monooxygenase  
**NT3** diaphorase  
**NT3** hemiacetal dehydrogenases  
   **NT4** alcohol dehydrogenase  
   **NT4** lactate dehydrogenase  
**NT3** hydrogenases  
**NT3** hydroxylases  
**NT4** tyrosinase  
**NT3** nitro-group dehydrogenases  
**NT4** nitrogenase  
**NT3** oxidases  
   **NT4** cytochrome oxidase  
   **NT4** luciferase  
**NT3** oxygenases  
   **NT4** mixed-function oxidases  
**NT3** peroxidases  
   **NT4** catalase  
**NT3** superoxide dismutase  
**NT2** transferases  
**NT3** carbon-group transferases  
   **NT4** methyl transferases  
**NT3** glycosyl transferases  
   **NT4** hexosyl transferases  
   **NT4** pentosyl transferases  
   **NT5** hypoxanthine phosphoribosyltransferase  
**NT3** nitrogen transferases  
**NT4** aminotransferases  
**NT3** phosphorus-group transferases  
   **NT4** nucleotidyltransferases  
   **NT5** polymerases  
     **NT6** dna polymerases  
     **NT6** rna polymerases  
   **NT4** phosphotransferases  
   **NT5** hexokinase  
**NT1** gelatin  
**NT1** globins  
   **NT2** hemoglobin  
   **NT3** methemoglobin  
**NT2** myoglobin  
**NT1** globulins  
**NT2** angiotensin  
**NT2** fibrinogen  
**NT2** globulins-alpha  
   **NT3** ceruloplasmin  
   **NT3** haptoglobins  
**NT2** globulins-beta  
**NT3** transferrin  
**NT2** globulins-gamma  
**NT2** immunoglobulins  
**NT2** lactoferrin  
**NT2** myosin  
**NT2** thyroglobulin  
**NT1** glycoproteins  
**NT2** avidin  
**NT2** glucoproteins  
   **NT3** lactoferrin  
   **NT3** ovalbumin  
**NT2** luteinizing hormone  
**NT1** growth factors  
**NT2** lymphokines  
   **NT3** interferon  
**NT1** heat-shock proteins  
**NT1** histones  
**NT1** lipoproteins  
   **NT2** apolipoproteins  
   **NT2** myelin  
**NT1** membrane proteins  
   **NT2** porins  
   **NT2** receptors  
   **NT2** thylakoid membrane proteins  
   **NT3** phycobiliproteins  
   **NT4** phycocyanin  
**NT1** metalloproteins  
**NT2** ceruloplasmin  
**NT2** ferredoxin  
**NT2** ferritin  
**NT2** hemocyanin  
**NT2** hemosiderin  
**NT2** lactoferrin  
**NT2** metallothionein  
**NT2** rubredoxin  
**NT2** transferrin  
**NT1** mucoproteins  
**NT2** haptoglobins  
**NT2** intrinsic factor  
**NT2** phytohemagglutinin  
**NT1** nucleoproteins  
**NT1** pbi  
**NT1** peptide hormones  
**NT2** calcitonin  
**NT2** erythropoietin  
**NT2** gastrin  
**NT2** glucagon  
**NT2** insulin  
**NT2** leptin  
**NT2** parathormone  
**NT2** pituitary hormones  
   **NT3** acth  
   **NT3** gonadotropins  
   **NT4** fsh  
   **NT4** hcg  
   **NT4** lth  
   **NT4** luteinizing hormone  
**NT3** liberins  
   **NT4** lh-rh  
**NT3** oxytocin  
**NT3** sth  
**NT3** tsh  
**NT3** vasopressin  
**NT2** secretin  
**NT2** thyroid hormones  
   **NT3** diiodothyronine  
   **NT3** thyrocalcitonin  
   **NT3** thyroxine  
   **NT3** triiodothyronine  
**NT2** thyronine  
**NT2** trh  
**NT1** peptides  
**NT2** cyclosporine  
**NT2** glycylglycine  
**NT2** polypeptides  
   **NT3** calcitonin  
   **NT3** endorphins  
   **NT4** enkephalins  
   **NT3** endothelins  
   **NT3** gastrin  
   **NT3** glucagon  
   **NT3** glutathione  
   **NT3** kinins  
   **NT4** bradykinin  
**NT3** leptin  
**NT1** peptone  
**NT1** phosphoproteins  
**NT1** phytochromes  
   **NT2** chlorophyll  
**NT1** protamines  
**NT1** rhodopsin  
**NT1** scleroproteins  
   **NT2** collagen  
   **NT2** fibrin  
   **NT2** glutin  
   **NT2** keratin  
**NT1** transcription factors  
**NT1** tropomyosin  
**NT1** zein  
**RT** amino acid sequence  
**RT** amino acids  
**RT** blood plasma  
**RT** cpb  
**RT** dialysis  
**RT** food  
**RT** microtubules  
**RT** peanuts  
**RT** polyamides  
**RT** post-translation modification  
**RT** protein denaturation  
**RT** protein structure  
**RT** proteolysis  
**RT** single cell protein  
**proteolipids**  
**USE** lipoproteins



**PROTEOLYSIS**

- \*BT1 decomposition
- NT1 fibrinolysis
- RT catabolism
- RT clostridium
- RT peptide hydrolases
- RT post-translation modification
- RT proteins

**PROTEUS**

- \*BT1 bacteria
- RT feces
- RT soils

**PROTEUS REACTOR**

*Eidgenoessiches Institut fuer Reaktorforschung, Wuerlingen, Argovie, Switzerland.*

- UF *wuerenlingen proteus reactor*
- \*BT1 enriched uranium reactors
- \*BT1 graphite moderated reactors
- \*BT1 research reactors
- \*BT1 test reactors

**PROTHROMBIN**

- \*BT1 blood coagulation factors

**protium**

*INIS: 1975-09-01; ETDE: 2002-04-26*  
USE hydrogen 1

**PROTO-CLEO STELLARATORS**

- \*BT1 stellarators
- RT cleo stellarator

**PROTON-ANTINEUTRON INTERACTIONS**

(Prior to February 1995 ANTINEUTRON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)

- UF *antineutron-deuteron interactions*
- \*BT1 nucleon-antinucleon interactions

**PROTON-ANTIPROTON INTERACTIONS**

(From January 1975 till May 1996 antiproton-deuteron interactions was a valid ETDE descriptor.)

- UF *antiproton-deuteron interactions*
- UF *antiproton-proton interactions*
- \*BT1 nucleon-antinucleon interactions

**proton-atom collisions**

*INIS: 1984-04-04; ETDE: 2002-04-26*  
USE hydrogen ions 1 plus  
USE ion-atom collisions

**PROTON BEAMS**

- \*BT1 nucleon beams
- RT electron cooling
- RT proton channeling
- RT proton probes
- RT protons

**proton blocking**

- USE proton channeling

**PROTON CHANNELING**

- UF *proton blocking*
- BT1 channeling
- RT proton beams

**PROTON COMPUTED TOMOGRAPHY**

*INIS: 1980-04-02; ETDE: 1981-04-17*  
UF *proton scanners (tomography)*  
\*BT1 computerized tomography  
RT biomedical radiography  
RT image scanners  
RT proton radiography

**proton decay (nuclear decay)**

*INIS: 1985-03-19; ETDE: 2002-04-26*  
*Emission of protons from ground states of nuclei.*  
USE proton-emission decay

**proton decay (particle decay)**

*INIS: 1985-03-19; ETDE: 2002-04-26*  
*Decay of the proton. Coordinate the descriptor below with a descriptor for the decay, e.g. SEMILEPTONIC DECAY.*  
USE protons

**PROTON DECAY RADIOISOTOPES**

*INIS: 1995-02-27; ETDE: 1984-12-27*

- \*BT1 radioisotopes
- NT1 arsenic 64
- NT1 cesium 113
- NT1 cobalt 52
- NT1 cobalt 53
- NT1 europium 130
- NT1 europium 131
- NT1 fluorine 14
- NT1 germanium 62
- NT1 gold 170
- NT1 gold 171
- NT1 holmium 141
- NT1 iodine 109
- NT1 iron 45
- NT1 lutetium 151
- NT1 scandium 39
- NT1 selenium 66
- NT1 thulium 144
- NT1 thulium 145
- NT1 thulium 146
- NT1 thulium 147
- RT proton-emission decay

**PROTON DENSITY**

- UF *density (proton)*
- RT protons

**PROTON DETECTION**

- \*BT1 charged particle detection
- RT proton dosimetry
- RT recoils

**proton-deuteron interactions**

(Prior to May 1996 this was a valid ETDE descriptor.)  
USE proton-neutron interactions  
USE proton-proton interactions

**PROTON DOSIMETRY**

- BT1 dosimetry
- RT proton detection

**PROTON-EMISSION DECAY**

*INIS: 1985-03-19; ETDE: 1984-12-27*  
*Emission of protons from ground states of nuclei.*  
UF *proton decay (nuclear decay)*  
\*BT1 nuclear decay  
RT proton decay radioisotopes  
RT protons

**PROTON EXCHANGE MEMBRANE FUEL CELLS**

*INIS: 2000-04-12; ETDE: 1999-09-09*  
UF *polymer electrolyte fuel cells*  
\*BT1 solid electrolyte fuel cells  
RT direct methanol fuel cells  
RT regenerative fuel cells

**proton halos**

*1995-07-03*  
USE nuclear halos

**proton-induced x-ray emission analysis**

*INIS: 1993-11-09; ETDE: 1980-10-07*  
USE pixe analysis

**proton magnetic resonance spectra**

*INIS: 1993-11-09; ETDE: 2002-04-26*  
USE nmr spectra  
USE protons

**PROTON MICROPROBE ANALYSIS**

*INIS: 1979-04-27; ETDE: 1978-09-11*  
BT1 microanalysis  
\*BT1 nondestructive analysis  
RT proton probes

**proton-molecule collisions**

*INIS: 1984-04-04; ETDE: 2002-04-26*  
USE hydrogen ions 1 plus  
USE ion-molecule collisions

**PROTON-NEUTRON INTERACTIONS**

(From February 1975 till May 1996 NEUTRON-DEUTERON INTERACTIONS and PROTON-DEUTERON INTERACTIONS were valid descriptors.)  
UF *neutron-deuteron interactions*  
UF *proton-deuteron interactions*  
\*BT1 proton-nucleon interactions

**PROTON-NUCLEON INTERACTIONS**

*1986-04-04*  
(Prior to April 1986 the coordination of PROTON-NEUTRON INTERACTIONS and PROTON-PROTON INTERACTIONS was used for this concept.)  
\*BT1 nucleon-nucleon interactions  
NT1 proton-neutron interactions  
NT1 proton-proton interactions

**PROTON PRECESSION MAGNETOMETERS**

- \*BT1 magnetometers

**PROTON PRECIPITATION**

- BT1 charged-particle precipitation
- RT aurorae
- RT auroral oval
- RT midday aurorae
- RT polar cusp
- RT radiation belts
- RT trapped protons

**PROTON PROBES**

*INIS: 1978-04-21; ETDE: 1976-09-28*  
BT1 probes  
RT ion probes  
RT proton beams  
RT proton microprobe analysis

**proton-proton cycle**

*INIS: 1978-11-24; ETDE: 1980-07-23*  
USE hydrogen burning

**PROTON-PROTON INTERACTIONS**

(From February 1975 till May 1996 PROTON-DEUTERON INTERACTIONS was a valid ETDE descriptor.)  
UF *proton-deuteron interactions*  
\*BT1 proton-nucleon interactions

**PROTON RADIOGRAPHY**

*INIS: 1976-08-17; ETDE: 1975-07-29*  
\*BT1 industrial radiography  
RT biomedical radiography  
RT proton computed tomography

**PROTON REACTIONS**

- UF *pige analysis*
- \*BT1 charged-particle reactions

\*BT1 nucleon reactions

## PROTON RECOIL DETECTORS

\*BT1 neutron detectors  
*RT* proportional counters  
*RT* radiator counters  
*RT* recoils  
*RT* scintillation counters

## PROTON SATELLITES

BT1 satellites  
*RT* interkosmos satellites  
*RT* kosmos satellites

## proton scanners (tomography)

*INIS*: 1984-04-04; *ETDE*: 2002-04-26  
 USE proton computed tomography

## PROTON SOURCES

\*BT1 particle sources  
*RT* protons

## PROTON SPECTRA

BT1 spectra  
*RT* protons

## PROTON SPECTROMETERS

\*BT1 spectrometers

## PROTON TEMPERATURE

*UF* temperature (proton)  
*RT* energy  
*RT* protons

## PROTON TRANSPORT

*UF* transport (proton)  
 \*BT1 charged-particle transport

## PROTONIUM

2000-04-10  
 \*BT1 hadronic atoms  
*RT* antiprotons  
*RT* baryonium  
*RT* muonium  
*RT* positronium  
*RT* protons

## PROTONS

*UF* pmr spectra  
*UF* proton decay (particle decay)  
*UF* proton magnetic resonance spectra  
 \*BT1 nucleons  
 NT1 antiprotons  
 NT1 cosmic protons  
 NT1 delayed protons  
 NT1 diprotons  
 NT1 photoprotons  
 NT1 prompt protons  
 NT1 solar protons  
 NT1 trapped protons  
*RT* hydrogen ions 1 plus  
*RT* proton beams  
*RT* proton density  
*RT* proton-emission decay  
*RT* proton sources  
*RT* proton spectra  
*RT* proton temperature  
*RT* protonium

## PROTOPLANETS

*RT* cosmological models  
*RT* planets  
*RT* solar nebula  
*RT* solar system evolution

## protoplasts

USE plant cells

## PROTOPORPHYRINS

BT1 pigments  
 \*BT1 porphyrins  
*RT* hemoglobin

## PROTOSTARS

*RT* cosmological models  
*RT* origin  
*RT* star accretion  
*RT* stars

## prototype a terre

2000-04-12  
 USE pat reactor

## prototype fast reactor downreay

2000-04-12  
 USE pfr reactor

## prototype fast reactor japan

USE monju reactor

## prototype large breeder reactor

*INIS*: 1993-11-09; *ETDE*: 1977-08-24  
 USE plbr reactor

## PROTOZOA

\*BT1 invertebrates  
 BT1 microorganisms  
 NT1 ciliata  
 NT2 paramecium  
 NT2 tetrahymena  
 NT1 mastigophora  
 NT2 dinoflagellate  
 NT2 euglena  
 NT2 trypanosoma  
 NT1 sarcodina  
 NT2 amoeba  
 NT2 foraminifera  
 NT1 sporozoa  
 NT2 babesidae  
 NT2 plasmodium  
*RT* parasites  
*RT* plankton  
*RT* zooplankton

## protracted irradiation

USE chronic irradiation

## provincial government

*INIS*: 1980-11-07; *ETDE*: 2002-04-26  
 USE state government

## PROXIMITY EFFECT

*RT* superconductivity

## PROXIMITY SCATTERING

1986-04-04  
*Mutual scatterings of two outgoing particles from sequential nuclear reactions.*  
 BT1 scattering  
*RT* final-state interactions  
*RT* nuclear reactions

## PRPR REACTOR

*Univ. of Puerto Rico, College Station, Mayaguez, Puerto Rico, USA. Shut down in 1976.*  
*UF* mayaguez puerto rico pool reactor  
*UF* puerto rico pool type reactor  
 \*BT1 pool type reactors  
 \*BT1 triga type reactors

## PRR-1 REACTOR

*Quezon City, Philippines.*  
*UF* philippine research reactor-1  
*UF* quezon philippine reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors

## PRR REACTOR

*United Nuclear Corp., Pawling, New York, USA. Shut down in 1971.*  
*UF* nda remote experiment station  
*UF* pawling research reactor  
*UF* platr reactor  
 \*BT1 enriched uranium reactors

\*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

## PRTR REACTOR

*Richland, Washington, USA.*  
*UF* plutonium recycle test reactor  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 pressure tube reactors  
 \*BT1 research reactors

## PRUDHOE BAY

*INIS*: 1992-01-09; *ETDE*: 1977-06-02  
 \*BT1 bays  
 \*BT1 beaufort sea  
*RT* alaska

## prussian blue

*ETDE*: 2002-04-26  
 USE ferrocyanides  
 USE potassium compounds

## PS SOLAR CELLS

*INIS*: 2000-04-12; *ETDE*: 1981-07-18  
*UF* polymer-semiconductor solar cells  
 \*BT1 solar cells  
*RT* organic solar cells

## psd

*INIS*: 2000-04-12; *ETDE*: 1979-07-24  
*Prevention of Significant Deterioration. US pollution regulation.*  
 (Prior to March 1997 PREVENTION OF SIGNIFICANT DETERIORATION was used for this concept in *ETDE*.)  
 SEE air pollution abatement  
 SEE land pollution abatement  
 SEE water pollution abatement

## PSE REACTOR

*Savannah River Plant, Aiken, South Carolina, USA.*  
*UF* pressurized subcritical experiment savannah  
*UF* savannah pressurized subcritical experiment  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 natural uranium reactors  
 \*BT1 subcritical assemblies  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

## PSEUDOMONAS

\*BT1 bacteria

## pseudoparticles

*INIS*: 2000-04-12; *ETDE*: 1977-11-29  
 USE instantons

## PSEUDOSCALAR ANTIMESONS

1999-03-05  
 \*BT1 antimessons  
 \*BT1 pseudoscalar mesons  
 NT1 anti-b neutral mesons  
 NT1 anti-d neutral mesons

## PSEUDOSCALAR MESONS

1995-08-07  
*Mesons with spin and parity 0-.*  
 \*BT1 mesons  
 NT1 b c mesons  
 NT1 b mesons  
 NT2 b minus mesons  
 NT2 b neutral mesons  
 NT3 anti-b neutral mesons  
 NT2 b plus mesons  
 NT1 b s mesons  
 NT1 d mesons  
 NT2 d minus mesons

**NT2** d neutral mesons  
**NT3** anti-d neutral mesons  
**NT2** d plus mesons  
**NT1** d s mesons  
**NT1** eta-1295 mesons  
**NT1** eta-1440 mesons  
**NT1** eta c-2980 mesons  
**NT1** eta mesons  
**NT1** eta prime-958 mesons  
**NT1** k-1460 mesons  
**NT1** k-1830 mesons  
**NT1** kaons  
**NT2** antikaons  
**NT3** antikaons neutral  
**NT2** cosmic kaons  
**NT2** kaons minus  
**NT2** kaons neutral  
**NT3** antikaons neutral  
**NT3** kaons neutral long-lived  
**NT3** kaons neutral short-lived  
**NT2** kaons plus  
**NT1** pi-1300 mesons  
**NT1** pi-1770 mesons  
**NT1** pions  
**NT2** cosmic pions  
**NT2** pions minus  
**NT2** pions neutral  
**NT2** pions plus  
**NT1** pseudoscalar antimesons  
**NT2** anti-b neutral mesons  
**NT2** anti-d neutral mesons  
**RT** meson nonets  
**RT** sigma model

**PSEUDOSCALARS**

**RT** scalars

**PSEUDOVECTOR COUPLING**

**BT1** coupling  
**RT** nucleons

**pseudovector mesons**

*INIS: 1987-12-21; ETDE: 1988-01-25*  
**USE** axial vector mesons

**psi-3105 resonances**

*1987-12-21*  
 (Prior to December 1987 this was a valid descriptor.)  
**USE** j psi-3097 mesons

**PSI-3685 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*  
 (Prior to December 1987 this concept was indexed by PSI-3695 RESONANCES.)  
**UF** psi-3695 resonances  
**\*BT1** charmonium  
**\*BT1** vector mesons

**psi-3695 resonances**

*1987-12-21*  
 (Prior to December 1987 this was a valid descriptor.)  
**USE** psi-3685 mesons

**PSI-3770 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*  
 (Prior to December 1987 this concept was indexed by PSI-3772 RESONANCES.)  
**UF** psi-3772 resonances  
**\*BT1** charmonium  
**\*BT1** vector mesons

**psi-3772 resonances**

*INIS: 1987-12-21; ETDE: 1978-04-06*  
 (Prior to December 1987 this was a valid descriptor.)  
**USE** psi-3770 mesons

**psi-4028 resonances**

*INIS: 1987-12-21; ETDE: 1978-07-06*  
 (Prior to December 1987 this was a valid descriptor.)  
**USE** psi-4040 mesons

**psi-4030 mesons**

*INIS: 1995-08-07; ETDE: 1988-02-01*  
 (From December 1987 until July 1995 this was a valid term.)  
**USE** psi-4040 mesons

**PSI-4040 MESONS**

*1995-08-07*  
 (Until December 1987 this concept was indexed by PSI-4028 RESONANCES; from then until July 1995 it was indexed by PSI-4030 MESONS.)  
**UF** psi-4028 resonances  
**UF** psi-4030 mesons  
**\*BT1** charmonium  
**\*BT1** vector mesons

**psi-4100 resonances**

*INIS: 1987-12-21; ETDE: 1975-10-28*  
 (Prior to December 1987 this was a valid descriptor.)  
**USE** psi-4160 mesons

**PSI-4160 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*  
 (Prior to December 1987 this concept was indexed by PSI-4100 RESONANCES.)  
**UF** psi-4100 resonances  
**\*BT1** charmonium  
**\*BT1** vector mesons

**psi-4300 resonances**

*INIS: 1988-03-08; ETDE: 1975-12-16*  
 (Prior to December 1987 this was a valid descriptor.)  
**USE** mesons

**psi-4414 resonances**

*INIS: 1987-12-21; ETDE: 1978-07-06*  
 (Prior to December 1987 this was a valid descriptor.)  
**USE** psi-4415 mesons

**PSI-4415 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*  
 (Prior to December 1987 this concept was indexed by PSI-4414 RESONANCES.)  
**UF** psi-4414 resonances  
**\*BT1** charmonium  
**\*BT1** vector mesons

**psi resonances**

*INIS: 1988-03-08; ETDE: 1976-11-02*  
 (Prior to December 1987 this was a valid descriptor.)  
**USE** mesons

**PSORALEN**

**\*BT1** anticoagulants  
**\*BT1** heterocyclic compounds  
**\*BT1** organic oxygen compounds  
**RT** benzofurans  
**RT** coumarin

**PSORIASIS**

**\*BT1** skin diseases  
**RT** skin

**psr reactor**

**USE** pstr reactor

**PSS METHOD**

*Perturbed stationary states method.*  
**UF** perturbed stationary states method  
**RT** collisions

**PSTR REACTOR**

*Pennsylvania State Univ., University Park, Pennsylvania, USA.*

**UF** pennsylvania state triga reactor  
**UF** pennsylvania state university research reactor  
**UF** psr reactor  
**UF** triga-pennsylvania reactor  
**\*BT1** pool type reactors  
**\*BT1** research reactors  
**\*BT1** thermal reactors  
**\*BT1** training reactors  
**\*BT1** triga type reactors

**psychoactive agents**

*INIS: 2000-04-12; ETDE: 1981-04-20*  
**USE** psychotropic drugs

**psychology**

*INIS: 2000-03-28; ETDE: 1980-03-04*  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
**SEE** behavior  
**SEE** human factors

**psychoses**

**USE** mental disorders

**PSYCHOTROPIC DRUGS**

**UF** psychoactive agents  
**\*BT1** central nervous system agents  
**NT1** antidepressants  
**NT2** cocaine  
**NT2** imipramine  
**NT1** hallucinogens  
**NT2** bufotenine  
**NT1** tranquilizers  
**NT2** chlorpromazine  
**NT2** reserpine  
**RT** analeptics  
**RT** mental disorders

**psychrometry**

*INIS: 2000-04-12; ETDE: 1981-11-24*  
*The science and techniques associated with measurements of the water vapor content of air or other gases. See also HUMIDITY and/or MOISTURE.*  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
**USE** hygrometry

**PTERIDINES**

**UF** pterins  
**\*BT1** azaarenes  
**NT1** aminopterin  
**NT1** folic acid  
**RT** pyrazines  
**RT** pyrimidines

**pterins**

**USE** pteridines

**pteroylglutamic acid**

**USE** folic acid

**PTF-UNC REACTOR**

*United Nuclear Corp., Elmsford, New York, USA.*

**UF** proof test facility united nuclear corporation  
**UF** united nuclear corporation proof test reactor  
**\*BT1** zero power reactors

**ptfe**

*2000-04-12*  
**USE** polytetrafluoroethylene

**PTR REACTOR**

*AECL, Chalk River, Ontario, Canada.*  
**UF** chalk river pool test reactor

- UF pool test reactor chalk river  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors

**PUBLIC ANXIETY**

INIS: 1991-12-11; ETDE: 1992-01-24

- RT accidents  
 RT attitudes  
 RT behavior  
 RT nuclear facilities  
 RT sociology

**public attitudes**

INIS: 1978-01-13; ETDE: 1977-07-23

- USE public opinion

**PUBLIC BUILDINGS**

INIS: 1992-05-18; ETDE: 1978-10-23

Government-owned buildings.

- UF county buildings  
 UF court buildings  
 UF fire stations  
 UF jails  
 UF municipal buildings  
 UF senior centers  
 UF state buildings  
 UF visitor centers  
 BT1 buildings  
 RT government buildings  
 RT hospitals  
 RT libraries  
 RT office buildings  
 RT school buildings  
 RT skating rinks

**public corporations**

INIS: 2000-04-12; ETDE: 1979-07-24

- USE public enterprises

**PUBLIC ENTERPRISES**

INIS: 1992-04-02; ETDE: 1979-07-24

Government-owned enterprises.

- UF national enterprises  
 UF public corporations  
 UF state enterprises  
 SF public transport  
 SF public transportation systems  
 RT government policies  
 RT ownership

**PUBLIC HEALTH**

1982-12-03

- UF health (public)  
 RT health hazards  
 RT human populations  
 RT medical establishments  
 RT preventive medicine  
 RT quarantine  
 RT radiation protection  
 RT water reclamation

**PUBLIC INFORMATION**

INIS: 1994-04-12; ETDE: 1979-12-17

(Until April 1994 this concept was indexed to PUBLIC RELATIONS.)

- BT1 information  
 RT declassification  
 RT information dissemination  
 RT public relations

**PUBLIC LANDS**

1986-07-09

Lands not owned by private persons, corporations, etc.

- SF parks  
 NT1 everglades national park  
 NT1 natural bridges national monument  
 NT1 yellowstone national park  
 RT land resources  
 RT recreational areas

**PUBLIC LAW**

INIS: 1999-02-18; ETDE: 1992-01-08  
 Body of rules governing state action and relationship with citizens.

- BT1 laws

**PUBLIC OFFICIALS**

INIS: 1985-09-09; ETDE: 1979-11-23

- BT1 personnel  
 NT1 state officials  
 RT government policies  
 RT local government  
 RT national government  
 RT political aspects  
 RT state government

**PUBLIC OPINION**

INIS: 1978-01-13; ETDE: 1977-07-23

- UF attitudes of the public  
 UF nuclear controversy  
 UF public attitudes  
 SF surveys  
 NT1 environmental awareness  
 RT aesthetics  
 RT attitudes  
 RT ethical aspects  
 RT political aspects  
 RT public relations

**PUBLIC POLICY**

INIS: 1998-01-28; ETDE: 1979-05-25

Body of rules governing State action and relationship with citizens.  
 (Until March 1992, this concept was indexed by PUBLIC LAW.)

- RT government policies  
 RT institutional factors  
 RT laws  
 RT legal aspects  
 RT legislation  
 RT political aspects  
 RT regulations

**PUBLIC RELATIONS**

- UF nuclear contestation  
 RT advertising  
 RT aesthetics  
 RT consumer protection  
 RT hazards  
 RT management  
 RT public information  
 RT public opinion  
 RT safety analysis  
 RT sociology

**public service newbold island-1 reactor**

ETDE: 2002-04-26

- USE newbold island-1 reactor

**public service newbold island-2 reactor**

ETDE: 2002-04-26

- USE newbold island-2 reactor

**public transport**

2004-08-26

- SEE public enterprises  
 SEE transport

**public transportation systems**

INIS: 1992-09-09; ETDE: 1992-06-12

- SEE mass transit systems  
 SEE public enterprises

**PUBLIC UTILITIES**

1976-01-28

A business organization performing some public service and subject to special government regulation.

- SF utilities

- NT1 electric utilities  
 NT1 gas utilities  
 NT1 water utilities  
 RT afudc  
 RT cwip  
 RT electric power  
 RT fuel adjustment mechanisms  
 RT fuel gas  
 RT integrated energy utility systems  
 RT marginal-cost pricing  
 RT modular integrated utility systems  
 RT natural gas  
 RT off-peak power  
 RT peak-load pricing  
 RT sellback  
 RT telephones  
 RT us public utility regulatory policies act  
 RT water supply

**public utility regulatory policies act**

INIS: 2000-04-12; ETDE: 1980-03-29

(Prior to February 1992 this was a valid ETDE descriptor.)

- USE us public utility regulatory policies act

**PUERTO RICO**

- \*BT1 greater antilles  
 BT1 latin america  
 \*BT1 usa

**puerto rico bonus reactor**

- USE bonus reactor

**puerto rico nuclear center I-77 reactor**

1993-11-09

- USE prnc-I-77 reactor

**puerto rico pool type reactor**

- USE prpr reactor

**PUGET SOUND**

INIS: 1992-06-04; ETDE: 1976-04-19

- \*BT1 pacific ocean  
 RT washington

**puget sound naval shipyard**

INIS: 2000-04-12; ETDE: 1977-07-23

(Prior to February 1995, this was a valid ETDE descriptor.)

- USE maintenance facilities  
 USE ships

**pullman washington state university reactor**

1993-11-09

- USE wsur reactor

**pulmonary cancer**

Use LUNGS and/or BRONCHI, as appropriate, in coordination with the descriptors below.

- USE carcinomas

**pulmonary lavage**

- USE lavage  
 USE lungs

**pulps**

- USE slurries

**pulsar concept**

INIS: 2000-04-12; ETDE: 1979-09-26

Pulsar is a system which produces pulsed power by magnetic flux compression with metallic or plasma armatures.

(Prior to February 1995, this was a valid ETDE descriptor.)

- USE magnetic compression

USE pulse generators

## PULSARS

BT1 cosmic radio sources  
 RT crab nebula  
 RT magnetic stars  
 RT neutron stars  
 RT starquakes  
 RT supernova remnants

## PULSATING VARIABLE STARS

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 variable stars  
 NT1 cepheids

## PULSATIONS

UF micropulsations  
 UF pearl pulsations  
 RT disturbances  
 RT oscillations  
 RT periodicity  
 RT pulses  
 RT variations

## PULSATOR DEVICES

2000-04-12

\*BT1 tokamak devices

## pulsator stellarator

1994-08-22

(Until August 1994 this was a valid descriptor.)

USE stellarators

## PULSE AMPLIFIERS

\*BT1 amplifiers  
 RT cathode followers  
 RT pulse circuits  
 RT pulse techniques

## PULSE ANALYZERS

UF analyzers (pulse)  
 UF kicksorters  
 \*BT1 electronic equipment  
 NT1 multi-channel analyzers  
 RT pulse circuits  
 RT pulse discriminators  
 RT pulse techniques  
 RT spectrometers

## PULSE CIRCUITS

BT1 electronic circuits  
 NT1 multivibrators  
 NT2 flip-flop circuits  
 NT1 pulse discriminators  
 NT1 signal conditioners  
 NT2 digitizers  
 NT3 cathode ray tube digitizers  
 NT3 flying spot digitizers  
 NT3 scanning measuring projectors  
 NT3 spiral reader digitizers  
 NT2 pulse shapers  
 NT1 trigger circuits  
 NT2 transistor trigger circuits  
 RT coincidence circuits  
 RT counting circuits  
 RT pulse amplifiers  
 RT pulse analyzers  
 RT pulse generators  
 RT pulse techniques  
 RT transistor oscillators

## pulse columns

USE extraction columns

## PULSE COMBUSTION

INIS: 1997-06-19; ETDE: 1980-08-12

\*BT1 combustion  
 RT burners  
 RT combustion chambers  
 RT combustion control  
 RT pulse combustors

## PULSE COMBUSTORS

INIS: 2000-04-12; ETDE: 1980-08-12

BT1 combustors  
 RT burners  
 RT combustion chambers  
 RT combustion control  
 RT pulse combustion

## PULSE CONVERTERS

UF converters (pulse)  
 \*BT1 electronic equipment  
 NT1 current-to-frequency converters  
 NT1 time-to-amplitude converters  
 RT pulse techniques

## PULSE DISCRIMINATORS

\*BT1 discriminators  
 \*BT1 pulse circuits  
 RT pulse analyzers

## PULSE GENERATORS

UF generators (pulse)  
 UF pulsar concept  
 \*BT1 function generators  
 NT1 high-voltage pulse generators  
 NT2 marx generators  
 RT blocking oscillators  
 RT frequency converters  
 RT multivibrators  
 RT plasma switches  
 RT pulse circuits  
 RT pulse shapers  
 RT pulse techniques

## PULSE INTEGRATORS

UF integrators (pulse)  
 \*BT1 electronic equipment  
 RT counting ratemeters  
 RT pulse techniques

## PULSE PILEUP

RT time resolution  
 RT timing properties

## PULSE RISE TIME

UF rise time  
 BT1 timing properties  
 RT peaks  
 RT pulses  
 RT time measurement

## PULSE SHAPERS

UF clipping circuits  
 UF pulse stretchers  
 \*BT1 signal conditioners  
 RT pulse generators  
 RT signal conditioning

## pulse stretchers

USE pulse shapers

## PULSE TECHNIQUES

RT counting circuits  
 RT counting ratemeters  
 RT counting techniques  
 RT counting tubes  
 RT delay circuits  
 RT electronic equipment  
 RT oscillators  
 RT plasma switches  
 RT pulse amplifiers  
 RT pulse analyzers  
 RT pulse circuits  
 RT pulse converters  
 RT pulse generators  
 RT pulse integrators  
 RT pulses  
 RT radiation detection  
 RT radiation detectors  
 RT resonators  
 RT scalars

## pulsed beam deflectors

2000-04-12

USE beam pulsers

## PULSED D-T REACTORS

\*BT1 d-t reactors  
 \*BT1 pulsed fusion reactors  
 NT1 reference theta pinch reactor

## PULSED FUSION REACTORS

BT1 thermonuclear reactors  
 NT1 pulsed d-t reactors  
 NT2 reference theta pinch reactor  
 RT direct drive laser implosion  
 RT indirect drive laser implosion  
 RT laser implosions

## pulsed graphite reactor

INIS: 1993-11-26; ETDE: 2003-12-03

Kurchatov city, East Kazakhstan.

USE igr reactor

## PULSED IRRADIATION

BT1 irradiation  
 RT beam pulsers  
 RT dose rates  
 RT temporal dose distributions

## PULSED MAGNET COILS

\*BT1 magnet coils

## PULSED MHD GENERATORS

INIS: 1993-04-27; ETDE: 1977-05-07

MHD generators driven by explosives, shock tubes, plasma jets, etc.

UF explosively-driven mhd generators

\*BT1 mhd generators

## PULSED NEUTRON TECHNIQUES

RT neutron beams  
 RT neutron guides  
 RT pulses

## PULSED REACTORS

UF burst reactors  
 BT1 reactors  
 NT1 acpr reactor  
 NT1 aprf reactor  
 NT1 atrp reactor  
 NT1 bigr reactor  
 NT1 bir reactor  
 NT1 bfrf reactor  
 NT1 fir-1 reactor  
 NT1 gidra reactor  
 NT1 hector reactor  
 NT1 hprf reactor  
 NT1 ibr-2 reactor  
 NT1 ibr-30 reactor  
 NT1 igr reactor  
 NT1 kalpakkam pfr reactor  
 NT1 nsrr reactor  
 NT1 ostr reactor  
 NT1 pbf reactor  
 NT1 sora reactor  
 NT1 spr-2 reactor  
 NT1 spr-3 reactor  
 NT1 spr-4 reactor  
 NT1 super kukla reactor  
 NT1 tibr reactor  
 NT1 triga-1-california reactor  
 NT1 triga-1-michigan reactor  
 NT1 triga-2-bangladesh reactor  
 NT1 triga-2-illinois reactor  
 NT1 triga-2-kansas reactor  
 NT1 triga-2-mainz reactor  
 NT1 triga-2-pavia reactor  
 NT1 triga-2-pitesti reactor  
 NT1 triga-3-munich reactor  
 NT1 triga-texas reactor  
 NT1 ucbrf reactor  
 NT1 viper reactor

**NT1** wsur reactor  
**NT1** xapr reactor  
**RT** reactivity insertions

**PULSES**

1999-07-01

*Not for edible seeds of leguminous crops.*

**UF** electric pulses  
**UF** impulse  
**UF** impulse (pulses)  
**NT1** electromagnetic pulses  
**NT2** internal electromagnetic pulses  
**RT** beam pulsers  
**RT** electrocardiograms  
**RT** pulsations  
**RT** pulse rise time  
**RT** pulse techniques  
**RT** pulsed neutron techniques  
**RT** signals  
**RT** surges

**PULSTAR-BUFFALO REACTOR**

*State Univ. of New York, Buffalo, New York, USA.*

**UF** buffalo pulstar reactor  
**UF** buspr reactor  
**UF** western new york nuclear research reactor  
**\*BT1** enriched uranium reactors  
**\*BT1** isotope production reactors  
**\*BT1** pool type reactors  
**\*BT1** research reactors

**PULSTAR-RALEIGH REACTOR**

*North Carolina State Univ., Raleigh, North Carolina, USA.*

**UF** ncuspr reactor  
**UF** north carolina pulstar reactor  
**UF** raleigh pulstar reactor  
**\*BT1** pool type reactors  
**\*BT1** research reactors

**pulverization**

*INIS: 1992-02-18; ETDE: 1978-04-27*  
**USE** comminution

**pulverized fuel ash**

*INIS: 2000-04-12; ETDE: 1977-06-24*  
**USE** fly ash

**PULVERIZED FUELS**

*INIS: 1999-07-09; ETDE: 1985-04-09*  
**RT** coal fines  
**RT** powders  
**RT** solid fuels

**PULVERIZERS**

*INIS: 1992-04-03; ETDE: 1978-08-07*  
**\*BT1** machinery  
**RT** comminution  
**RT** crushing  
**RT** fuel feeding systems

**pumice**

2000-04-12

*A light-colored, vesicular, glassy rock commonly having the composition of a rhyolite.*

(Prior to March 1997 this was a valid ETDE descriptor.)

**SEE** abrasives  
**SEE** rhyolites

**PUMP TURBINES**

*INIS: 1992-02-19; ETDE: 1980-01-24*

*Reversible hydraulic turbines.*

**UF** reversible turbines  
**UF** turbine pumps  
**\*BT1** hydraulic turbines  
**RT** pumped storage  
**RT** pumped storage power plants

**PUMPED LIMITERS**

*INIS: 1986-07-09; ETDE: 1985-10-25*

**BT1** limiters  
**RT** helium ash

**PUMPED STORAGE**

1982-12-07

**\*BT1** energy storage  
**RT** hydroelectric power plants  
**RT** off-peak energy storage  
**RT** pump turbines  
**RT** pumped storage power plants  
**RT** pumping

**PUMPED STORAGE POWER PLANTS**

*INIS: 1992-10-01; ETDE: 1976-05-13*

**\*BT1** hydroelectric power plants  
**\*BT1** peaking power plants  
**RT** hydroelectric power  
**RT** pump turbines  
**RT** pumped storage  
**RT** water reservoirs

**pumpherton retort**

*INIS: 2000-04-12; ETDE: 1975-11-11*

(Prior to January 1995, this was a valid ETDE descriptor.)

**USE** retorts**PUMPING**

1999-08-26

**SF** laser pumping  
**NT1** electrical pumping  
**NT2** electron beam pumping  
**NT1** nuclear pumping  
**NT1** optical pumping  
**RT** circulating systems  
**RT** drawdown  
**RT** materials handling  
**RT** pumped storage  
**RT** pumps  
**RT** self-pumping systems

**pumping (electrical)**

*INIS: 1995-04-10; ETDE: 2002-04-26*

**USE** electrical pumping**pumping (laser)**

*INIS: 1975-11-07; ETDE: 2002-04-26*

**USE** optical pumping**pumping (nuclear)**

*INIS: 1975-11-07; ETDE: 2002-04-26*

**USE** nuclear pumping**PUMPS**

**UF** hydraulic rams  
**BT1** equipment  
**NT1** centrifugal pumps  
**NT1** electromagnetic pumps  
**NT1** rod pumps  
**NT1** vacuum pumps  
**NT2** cryopumps  
**NT2** sputter-ion pumps  
**NT2** turbomolecular pumps  
**NT1** water pumps  
**NT2** solar water pumps  
**NT1** wind-powered pumps  
**RT** automotive accessories  
**RT** bellows  
**RT** blowers  
**RT** circulating systems  
**RT** compressors  
**RT** heat pumps  
**RT** pumping  
**RT** reactor components  
**RT** reactor cooling systems  
**RT** self-pumping systems  
**RT** turbomachinery

**punched cards**

1994-08-22

(Until August 1994 this was a valid descriptor.)

**USE** memory devices**PUNCHED TAPES****RT** memory devices**PUPAE**

**RT** age groups  
**RT** insects  
**RT** life cycle  
**RT** metamorphosis

**PUR-1 REACTOR**

2005-01-19

*Purdue Univ., West Lafayette, Indiana, USA.*

**\*BT1** enriched uranium reactors  
**\*BT1** pool type reactors  
**\*BT1** thermal reactors  
**\*BT1** training reactors

**purasiv s process**

*INIS: 2000-04-12; ETDE: 1977-12-22*

*Fixed-bed sulfur dioxide adsorption process using molecular sieve.*

(Prior to March 1994, this was a valid ETDE descriptor.)

**USE** desulfurization**PUREX PROCESS**

1996-07-08

(Prior to 1996 HALEX PROCESS and SALTEX PROCESS were valid ETDE descriptors.)

**UF** halex process  
**UF** saltex process  
**\*BT1** reprocessing  
**RT** solvent extraction

**PURIFICATION**

**NT1** hot gas cleanup  
**RT** cleaning  
**RT** coolant cleanup systems  
**RT** crystallization  
**RT** deashing  
**RT** decontamination  
**RT** enrichment  
**RT** impurities  
**RT** refining  
**RT** scrubbing  
**RT** separation processes

**PURINES**

**\*BT1** azaarenes  
**NT1** adenines  
**NT2** kinetin  
**NT1** guanine  
**NT1** guanosine  
**NT1** hypoxanthine  
**NT1** inosine  
**NT1** mercaptopurine  
**NT1** xanthines  
**NT2** caffeine  
**NT2** theobromine  
**NT2** theophylline  
**NT2** uric acid  
**RT** nucleosides

**PURISOL PROCESS**

2000-04-12

*Process for removal of acid gases from syngas and natural gas streams using physical absorption in n-methylpyrrolidone (nmp).*

**\*BT1** desulfurization**purity****USE** impurities

**purnima-1 reactor**

INIS: 1981-11-27; ETDE: 1982-01-07  
USE purnima reactor

**PURNIMA-2 REACTOR**

INIS: 1981-10-15; ETDE: 1981-11-10  
\*BT1 fast reactors  
\*BT1 zero power reactors

**PURNIMA-3 REACTOR**

INIS: 1993-03-11; ETDE: 1993-04-16  
Bhabha Atomic Research Center, Bombay, India.  
\*BT1 research and test reactors  
\*BT1 tank type reactors  
\*BT1 thermal reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**PURNIMA REACTOR**

UF purnima-1 reactor  
\*BT1 fast reactors  
\*BT1 zero power reactors

**PUROMYCIN**

\*BT1 antibiotics  
\*BT1 antineoplastic drugs

**PUROX PYROLYSIS PROCESS**

INIS: 2000-04-12; ETDE: 1975-11-26  
Union carbide process for pyrolysis of solid wastes using pure oxygen to supply high temperature zone for production of low btu gas that can be upgraded to high btu gas.  
UF union carbide waste processing system  
\*BT1 waste processing  
RT pyrolysis  
RT solid wastes  
RT waste processing plants

**purpa**

INIS: 2000-04-12; ETDE: 1980-03-29  
USE us public utility regulatory policies act

**PURPURA**

\*BT1 hemic diseases

**purpuric acid**

1996-07-18  
Also known as murexide.  
USE dyes  
USE organic oxygen compounds  
USE pyrimidines

**pusan kori-1 reactor**

USE kori-1 reactor

**pusan kori-2 reactor**

INIS: 1986-09-26; ETDE: 1977-04-14  
USE kori-2 reactor

**pusan kori-3 reactor**

INIS: 1997-01-28; ETDE: 2002-04-26  
USE kori-3 reactor

**pusan kori-4 reactor**

INIS: 1997-01-28; ETDE: 2002-04-26  
USE kori-4 reactor

**PUSPATI**

1984-12-04  
UF tun ismail atomic research center  
UF unit tenaga nuklear (malaysia)  
\*BT1 malaysian organizations

**puspati triga reactor**

1984-12-04  
USE rtp reactor

**PUTRESCINE**

UF 1,4-diaminobutane

UF tetramethylenediamine  
\*BT1 amines

**PVA**

UF polyvinyl alcohol  
\*BT1 alcohols  
\*BT1 polyvinyls

**PVC**

UF polyvinyl chloride  
\*BT1 chlorinated aliphatic hydrocarbons  
\*BT1 polyvinyls

**pvd**

INIS: 2000-04-12; ETDE: 1989-10-11  
USE physical vapor deposition

**PVP**

UF polyvinylpyrrolidone  
\*BT1 blood substitutes  
\*BT1 polyvinyls  
\*BT1 pyrrolidones

**pwba**

USE born approximation

**pwr/241 type reactors**

2000-04-12  
(Prior to 1975, PWR/241 TYPE REACTORS was used.)  
USE bw standard reactor

**pwr/41 type reactors**

2000-04-12  
USE westinghouse standard reactor

**pwr/80 type reactors**

2000-04-12  
USE ce standard reactor

**PWR TYPE REACTORS**

1997-10-03  
UF pressurized water cooled moderated reactor  
UF pressurized water reactors  
SF enrico fermi reactor  
\*BT1 enriched uranium reactors  
\*BT1 power reactors  
\*BT1 thermal reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors  
NT1 aguirre reactor  
NT1 almaraz-1 reactor  
NT1 almaraz-2 reactor  
NT1 angra-1 reactor  
NT1 angra-2 reactor  
NT1 angra-3 reactor  
NT1 ardennes b-1 reactor  
NT1 ardennes b-2 reactor  
NT1 ardennes reactor  
NT1 arkansas-1 reactor  
NT1 arkansas-2 reactor  
NT1 asco-1 reactor  
NT1 asco-2 reactor  
NT1 atlantic-1 reactor  
NT1 atlantic-2 reactor  
NT1 basf-1 reactor  
NT1 basf-2 reactor  
NT1 beaver valley-1 reactor  
NT1 beaver valley-2 reactor  
NT1 bellefonte-1 reactor  
NT1 bellefonte-2 reactor  
NT1 belleville sur loire-1 reactor  
NT1 belleville sur loire-2 reactor  
NT1 beznau-1 reactor  
NT1 beznau-2 reactor  
NT1 biblis-1 reactor  
NT1 biblis-2 reactor  
NT1 biblis-3 reactor  
NT1 biblis-4 reactor  
NT1 blayais-1 reactor

NT1 blue hills-1 reactor  
NT1 blue hills-2 reactor  
NT1 borssele reactor  
NT1 br-3 reactor  
NT1 braidwood-1 reactor  
NT1 braidwood-2 reactor  
NT1 brokdorf reactor  
NT1 bugey-2 reactor  
NT1 bugey-3 reactor  
NT1 bugey-4 reactor  
NT1 bugey-5 reactor  
NT1 bw standard reactor  
NT1 byron-1 reactor  
NT1 byron-2 reactor  
NT1 calhoun-1 reactor  
NT1 calhoun-2 reactor  
NT1 callaway-1 reactor  
NT1 callaway-2 reactor  
NT1 calvert cliffs-1 reactor  
NT1 calvert cliffs-2 reactor  
NT1 catawba-1 reactor  
NT1 catawba-2 reactor  
NT1 cattenom-1 reactor  
NT1 cattenom-2 reactor  
NT1 cattenom-3 reactor  
NT1 cattenom-4 reactor  
NT1 ce standard reactor  
NT1 cherokee-1 reactor  
NT1 cherokee-2 reactor  
NT1 cherokee-3 reactor  
NT1 chinon-b1 reactor  
NT1 civaux-1 reactor  
NT1 civaux-2 reactor  
NT1 comanche peak-1 reactor  
NT1 comanche peak-2 reactor  
NT1 connecticut yankee reactor  
NT1 cook-1 reactor  
NT1 cook-2 reactor  
NT1 cruas-2 reactor  
NT1 cruas-3 reactor  
NT1 cruas-4 reactor  
NT1 crystal river-3 reactor  
NT1 crystal river-4 reactor  
NT1 dampierre-1 reactor  
NT1 dampierre-2 reactor  
NT1 dampierre-3 reactor  
NT1 dampierre-4 reactor  
NT1 davis besse-1 reactor  
NT1 davis besse-2 reactor  
NT1 davis besse-3 reactor  
NT1 daya bay-1 reactor  
NT1 daya bay-2 reactor  
NT1 diablo canyon-1 reactor  
NT1 diablo canyon-2 reactor  
NT1 doel-1 reactor  
NT1 doel-2 reactor  
NT1 doel-3 reactor  
NT1 doel-4 reactor  
NT1 efd-50 reactor  
NT1 emsland reactor  
NT1 erie-1 reactor  
NT1 erie-2 reactor  
NT1 farley-1 reactor  
NT1 farley-2 reactor  
NT1 fessenheim-1 reactor  
NT1 flamanville-1 reactor  
NT1 flamanville-2 reactor  
NT1 forked river-1 reactor  
NT1 genkai-1 reactor  
NT1 genkai-2 reactor  
NT1 genkai-3 reactor  
NT1 genkai-4 reactor  
NT1 ginna-1 reactor  
NT1 goesgen reactor  
NT1 golfech-1 reactor  
NT1 golfech-2 reactor  
NT1 grafenrheinfeld reactor  
NT1 gravelines-1 reactor  
NT1 gravelines-2 reactor

NT1	gravelines-3 reactor	NT1	oi-1 reactor	NT1	surry-2 reactor
NT1	gravelines-4 reactor	NT1	oi-2 reactor	NT1	surry-3 reactor
NT1	gravelines-5 reactor	NT1	oi-3 reactor	NT1	surry-4 reactor
NT1	gravelines-6 reactor	NT1	oi-4 reactor	NT1	takahama-1 reactor
NT1	greene county reactor	NT1	oktembryan-2 reactor	NT1	takahama-2 reactor
NT1	greenwood-2 reactor	NT1	olkiluoto-3 reactor	NT1	takahama-3 reactor
NT1	greenwood-3 reactor	NT1	otto hahn reactor	NT1	takahama-4 reactor
NT1	grohnde reactor	NT1	palisades-1 reactor	NT1	three mile island-1 reactor
NT1	hamm-uentrop reactor	NT1	palo verde-1 reactor	NT1	three mile island-2 reactor
NT1	harris-1 reactor	NT1	palo verde-2 reactor	NT1	tihange-2 reactor
NT1	harris-2 reactor	NT1	palo verde-3 reactor	NT1	tihange-3 reactor
NT1	harris-3 reactor	NT1	palo verde-4 reactor	NT1	tihange reactor
NT1	harris-4 reactor	NT1	palo verde-5 reactor	NT1	tomari-1 reactor
NT1	haven-1 reactor	NT1	paluel-1 reactor	NT1	tomari-2 reactor
NT2	koshkonong-1 reactor	NT1	paluel-2 reactor	NT1	tricastin-1 reactor
NT1	haven-2 reactor	NT1	paluel-3 reactor	NT1	tricastin-4 reactor
NT2	koshkonong-2 reactor	NT1	paluel-4 reactor	NT1	trillo-1 reactor
NT1	ikata-2 reactor	NT1	pat reactor	NT1	trojan reactor
NT1	ikata-3 reactor	NT1	pebble springs-1 reactor	NT1	tsuruga-2 reactor
NT1	ikata reactor	NT1	pebble springs-2 reactor	NT1	turkey point-3 reactor
NT1	indian point-1 reactor	NT1	penly-1 reactor	NT1	turkey point-4 reactor
NT1	indian point-2 reactor	NT1	perkins-1 reactor	NT1	tva-1 reactor
NT1	indian point-3 reactor	NT1	perkins-2 reactor	NT1	tva-2 reactor
NT1	iran-1 reactor	NT1	perkins-3 reactor	NT1	tyrone-1 reactor
NT1	iran-2 reactor	NT1	philippsburg-2 reactor	NT1	tyrone-2 reactor
NT1	isar-2 reactor	NT1	pilgrim-2 reactor	NT1	ulchin-1 reactor
NT1	jamesport-1 reactor	NT1	pilgrim-3 reactor	NT1	ulchin-2 reactor
NT1	jamesport-2 reactor	NT1	pm-2a reactor	NT1	ulchin-3 reactor
NT1	kewaunee reactor	NT1	pm-3a reactor	NT1	ulchin-4 reactor
NT1	koeberg-1 reactor	NT1	pnp-1 reactor	NT1	unterweser reactor
NT1	koeberg-2 reactor	NT1	point beach-1 reactor	NT1	vahnum-1 reactor
NT1	kori-1 reactor	NT1	point beach-2 reactor	NT1	vahnum-2 reactor
NT1	kori-2 reactor	NT1	prairie island-1 reactor	NT1	vandellos-2 reactor
NT1	kori-3 reactor	NT1	prairie island-2 reactor	NT1	vogtle-1 reactor
NT1	kori-4 reactor	NT1	qinshan-1 reactor	NT1	vogtle-2 reactor
NT1	krsko reactor	NT1	qinshan-2-1 reactor	NT1	vogtle-3 reactor
NT1	lemoniz-1 reactor	NT1	qinshan-2-2 reactor	NT1	vogtle-4 reactor
NT1	lemoniz-2 reactor	NT1	quanicassee-1 reactor	NT1	waterford-3 reactor
NT1	lenin reactor	NT1	quanicassee-2 reactor	NT1	waterford-4 reactor
NT1	leonid brezhnev reactor	NT1	rancho seco-1 reactor	NT1	watts bar-1 reactor
NT1	lingao-1 reactor	NT1	remerschen reactor	NT1	watts bar-2 reactor
NT1	lingao-2 reactor	NT1	rheinsberg akwl reactor	NT1	westinghouse standard reactor
NT1	loft reactor	NT1	ringhals-2 reactor	NT1	wnp-1 reactor
NT1	lucie-1 reactor	NT1	ringhals-3 reactor	NT1	wnp-3 reactor
NT1	lucie-2 reactor	NT1	ringhals-4 reactor	NT1	wnp-4 reactor
NT1	maanshan-1 reactor	NT1	robinson-2 reactor	NT1	wnp-5 reactor
NT1	maine yankee reactor	NT1	rooppur reactor	NT1	wolf creek-1 reactor
NT1	malibu-1 reactor	NT1	rowe yankee reactor	NT1	wup-3 reactor
NT1	marble hill-1 reactor	NT1	s1c prototype reactor	NT1	wup-4 reactor
NT1	marble hill-2 reactor	NT1	saint alban-1 reactor	NT1	wup-5 reactor
NT1	mc guire-1 reactor	NT1	saint alban-2 reactor	NT1	wup-6 reactor
NT1	mc guire-2 reactor	NT1	saint laurent-b1 reactor	NT1	wwer type reactors
NT1	mh-1a reactor	NT1	saalem-1 reactor	NT2	armenian-1 reactor
NT1	midland-1 reactor	NT1	saalem-2 reactor	NT2	armenian-2 reactor
NT1	midland-2 reactor	NT1	san onofre-1 reactor	NT2	balakovo-1 reactor
NT1	mihama-1 reactor	NT1	san onofre-2 reactor	NT2	balakovo-2 reactor
NT1	mihama-2 reactor	NT1	san onofre-3 reactor	NT2	balakovo-3 reactor
NT1	mihama-3 reactor	NT1	savannah reactor	NT2	balakovo-4 reactor
NT1	millstone-2 reactor	NT1	saxton reactor	NT2	blahutovice-1 reactor
NT1	millstone-3 reactor	NT1	seabrook-1 reactor	NT2	bohunice v-1 reactor
NT1	muelheim-kaerlich reactor	NT1	seabrook-2 reactor	NT2	bohunice v-2 reactor
NT1	mutsu reactor	NT1	selni reactor	NT2	dukovany-1 reactor
NT1	neckar-1 reactor	NT1	sendai-1 reactor	NT2	dukovany-2 reactor
NT1	neckar-2 reactor	NT1	sendai-2 reactor	NT2	dukovany-3 reactor
NT1	nep-1 reactor	NT1	sequoyah-1 reactor	NT2	dukovany-4 reactor
NT1	nep-2 reactor	NT1	sequoyah-2 reactor	NT2	greifswald-1 reactor
NT1	neupotz-1 reactor	NT1	shippingport reactor	NT2	greifswald-2 reactor
NT1	neupotz-2 reactor	NT1	sizewell-b reactor	NT2	greifswald-3 reactor
NT1	nogent sur seine-1 reactor	NT1	sm-1 reactor	NT2	greifswald-4 reactor
NT1	nogent sur seine-2 reactor	NT1	sm-1a reactor	NT2	greifswald-5 reactor
NT1	north anna-1 reactor	NT1	south texas project-1 reactor	NT2	greifswald-6 reactor
NT1	north anna-2 reactor	NT1	south texas project-2 reactor	NT2	juragua-1 reactor
NT1	north anna-3 reactor	NT1	stade reactor	NT2	kalinin-1 reactor
NT1	north anna-4 reactor	NT1	sterling-1 reactor	NT2	kalinin-3 reactor
NT1	north coast-1 reactor	NT1	sterling-2 reactor	NT2	kecerovce-1 reactor
NT1	obrigheim reactor	NT1	summer-1 reactor	NT2	khmelnitskij-1 reactor
NT1	oconee-1 reactor	NT1	sundesert-1 reactor	NT2	kola-1 reactor
NT1	oconee-2 reactor	NT1	sundesert-2 reactor	NT2	kola-2 reactor
NT1	oconee-3 reactor	NT1	surry-1 reactor	NT2	kola-3 reactor



NT2 kola-4 reactor  
 NT2 kozloduy-1 reactor  
 NT2 kozloduy-2 reactor  
 NT2 kozloduy-3 reactor  
 NT2 kozloduy-4 reactor  
 NT2 kozloduy-5 reactor  
 NT2 kozloduy-6 reactor  
 NT2 kudankulam-1 reactor  
 NT2 kudankulam-2 reactor  
 NT2 loviisa-1 reactor  
 NT2 loviisa-2 reactor  
 NT2 mochovce-1 reactor  
 NT2 mochovce-2 reactor  
 NT2 novovoronezh-1 reactor  
 NT2 novovoronezh-2 reactor  
 NT2 novovoronezh-3 reactor  
 NT2 novovoronezh-4 reactor  
 NT2 novovoronezh-5 reactor  
 NT2 paks-1 reactor  
 NT2 paks-2 reactor  
 NT2 paks-3 reactor  
 NT2 paks-4 reactor  
 NT2 rovno-1 reactor  
 NT2 rovno-2 reactor  
 NT2 rovno-3 reactor  
 NT2 rovno-4 reactor  
 NT2 rovno-5 reactor  
 NT2 south ukrainian-1 reactor  
 NT2 south ukrainian-2 reactor  
 NT2 south ukrainian-3 reactor  
 NT2 stendal-1 reactor  
 NT2 tatarian reactor  
 NT2 temelin-1 reactor  
 NT2 temelin-2 reactor  
 NT2 tianwan-1 reactor  
 NT2 zaporozhe-1 reactor  
 NT2 zaporozhe-2 reactor  
 NT2 zaporozhe-3 reactor  
 NT2 zaporozhe-4 reactor  
 NT2 zaporozhe-5 reactor  
 NT2 zaporozhe-6 reactor  
 NT1 wyhl-1 reactor  
 NT1 wyhl-2 reactor  
 NT1 yellow creek-1 reactor  
 NT1 yellow creek-2 reactor  
 NT1 yonggwang-1 reactor  
 NT1 yonggwang-2 reactor  
 NT1 yonggwang-3 reactor  
 NT1 yonggwang-4 reactor  
 NT1 zion-1 reactor  
 NT1 zion-2 reactor  
 NT1 zorita-1 reactor

**PYCNOMETERS**

\*BT1 densimeters

**PYRANOMETERS**

2000-04-12

BT1 measuring instruments  
 \*BT1 solar equipment  
 RT photometers  
 RT radiometers  
 RT solar radiation

**PYRANS**

1996-06-28

*Compounds that contain a six-membered heterocyclic ring containing one oxygen atom.*

\*BT1 heterocyclic oxygen compounds  
 NT1 coumarin  
 NT1 hematoxylin  
 NT1 pyrones  
 NT1 quercetin  
 NT1 tetrahydropyran

**PYRAZINES**

1996-10-23

*Compounds that contain a six-membered heterocyclic ring containing nitrogen atoms in the 1 and 4 positions.*

UF 1,4-diazines  
 UF neutral red  
 UF toluylene red  
 \*BT1 azines  
 NT1 phenazine  
 NT1 piperazines  
 RT pteridines

**PYRAZOLES**

*Compounds that contain a five-membered heterocyclic ring containing nitrogen atoms in the 1 and 2 positions.*

\*BT1 azoles  
 NT1 indazoles  
 NT1 pyrazolines  
 NT2 antipyrine

**PYRAZOLINES**

UF aminopyrine  
 UF dam  
 UF diantipyrylmethane  
 \*BT1 pyrazoles  
 NT1 antipyrine

**PYRENE**

\*BT1 condensed aromatics  
 \*BT1 hydrocarbons

**PYREX**

\*BT1 borosilicate glass

**PYRHELIOMETERS**

2000-04-12

BT1 measuring instruments  
 \*BT1 solar equipment  
 BT1 telescopes  
 RT solar flux

**PYRIDAZINES**

*Compounds that contain a six-membered heterocyclic ring containing nitrogen atoms in the 1 and 2 positions.*

\*BT1 azines  
 NT1 phthalazines  
 NT2 luminol

**PYRIDINE**

INIS: 1992-09-18; ETDE: 1992-10-13

(Prior to April 1992 this was a valid ETDE descriptor. From April to October 1992 PYRIDINES was used for this concept in ETDE.)

\*BT1 pyridines

**pyridineazohydroxynaphthalene**

USE pyridylazonaphthol

**PYRIDINES**

1996-07-18

*Compounds that contain a six-membered heterocyclic ring containing one nitrogen atom.*

UF diodrast  
 UF iodopyracet  
 \*BT1 azines  
 NT1 acridines  
 NT2 acridine orange  
 NT2 flavines  
 NT3 acriflavine  
 NT3 proflavine  
 NT1 bipyridines  
 NT1 nicotinamide  
 NT1 nicotine  
 NT1 nicotinic acid  
 NT1 picolines  
 NT2 picolinic acid  
 NT1 piperidines

NT2 dipyrindamole  
 NT2 pethidine  
 NT2 triacetoneamine-n-oxyl  
 NT1 pyridine  
 NT1 pyridinium compounds  
 NT1 pyridoxal  
 NT1 pyridoxine  
 NT1 pyridoxylideneglutamate  
 NT1 pyridylazonaphthol  
 NT1 pyridylazoresorcinol  
 NT1 quinolines  
 NT2 ferron  
 NT2 oxine  
 NT2 quinaldine  
 RT isoniazid  
 RT nad

**PYRIDINIUM COMPOUNDS**

\*BT1 pyridines  
 \*BT1 quaternary compounds

**PYRIDOXAL**

\*BT1 aldehydes  
 \*BT1 organic oxygen compounds  
 \*BT1 pyridines  
 RT coenzymes  
 RT picolines  
 RT vitamin b group

**PYRIDOXINE**

UF vitamin b-6  
 \*BT1 hydroxy compounds  
 \*BT1 pyridines  
 \*BT1 vitamin b group

**PYRIDOXYLIDENEGLUTAMATE**

INIS: 1977-11-21; ETDE: 1978-03-08

\*BT1 glutamic acid  
 \*BT1 pyridines

**PYRIDYL RADICALS**

BT1 radicals

**PYRIDYLAZONAPHTHOL**

ETDE: 2005-02-01

(Prior to January 2005 PAN was used for this concept.)

UF pan (pyridylazonaphthol)  
 UF pyridineazohydroxynaphthalene  
 \*BT1 diazo compounds  
 \*BT1 naphthols  
 \*BT1 pyridines

**PYRIDYLAZORESORCINOL**

\*BT1 diazo compounds  
 \*BT1 polyphenols  
 \*BT1 pyridines  
 BT1 reagents

**PYRIMIDINE DIMERS**

INIS: 1986-03-04; ETDE: 1984-06-29

*The product of the chemical fusion of two neighboring pyrimidine nucleotides which results from radiation exposure of the cell.*

BT1 dimers  
 RT dna repair  
 RT mutations  
 RT pyrimidines  
 RT strand breaks

**PYRIMIDINES**

1996-10-23

*Compounds that contain a six-membered heterocyclic ring containing nitrogen atoms in the 1 and 3 positions.*

UF 1,3-diazines  
 UF murexide  
 UF purpuric acid  
 UF sulfadiazine  
 \*BT1 azines  
 NT1 alloxan  
 NT1 barbiturates

**NT2** nembatal  
**NT2** phenobarbital  
**NT1** cytidine  
**NT1** cytosine  
**NT1** deoxycytidine  
**NT1** thiamine  
**NT1** thymidine  
**NT1** uracils  
**NT2** bromouracils  
**NT3** budr  
**NT2** chlorouracils  
**NT2** deoxyuridine  
**NT2** fluorouracils  
**NT3** fudr  
**NT2** iodouracils  
**NT3** iododeoxyuridine  
**NT2** orotic acid  
**NT2** thiouracil  
**NT2** thymine  
**NT2** uridine  
*RT* nucleosides  
*RT* pteridines  
*RT* pyrimidine dimers

**PYRITE**

1978-07-03  
*UF* pyrites  
 \*BT1 sulfide minerals  
*RT* iron ores  
*RT* iron sulfides  
*RT* ledgemont process  
*RT* marcasite

**pyrites**

INIS: 2000-04-12; ETDE: 1976-04-19  
 (Prior to May 1982 this was a valid ETDE descriptor.)  
 USE pyrite

**pyrocarbon**

2000-04-12  
 USE pyrolytic carbon

**pyrocatechin**

USE pyrocatechol

**PYROCATECHOL**

*UF* 1,2-dihydroxybenzene  
*UF* catechol  
*UF* dihydroxybenzene-ortho  
*UF* pyrocatechin  
 BT1 developers  
 \*BT1 polyphenols  
*RT* catecholamines  
*RT* dopamine  
*RT* pyrocatechol violet

**PYROCATECHOL VIOLET**

BT1 dyes  
 BT1 indicators  
*RT* pyrocatechol

**PYROCHEMICAL REPROCESSING**

INIS: 1980-07-24; ETDE: 1979-12-10  
*Processes that are carried out at elevated temperatures to effect the chemical reactions and transformations require d to purify and recover spent reactor fuels. Molten metals or salts rather than aqueous or organic liquids are used to effect the purification.*  
*UF* melt refining process  
*UF* salt transport process  
*UF* zinc distillation process  
 \*BT1 reprocessing

**PYROCHLORE**

INIS: 1998-10-23; ETDE: 1982-02-11  
*UF* pyrrhite  
 BT1 minerals

**PYROELECTRIC DETECTORS**

INIS: 1978-11-24; ETDE: 1979-05-25  
 \*BT1 radiation detectors

**PYROELECTRIC EFFECT**

2000-04-12  
*Electric polarity produced in certain crystals by a change in temperature.*  
*RT* electric charges  
*RT* electric potential

**pyroelectricity**

INIS: 1984-04-04; ETDE: 2002-04-26  
*Property of certain crystals to produce a state of electrical polarity by a change of temperature.*  
 USE electric charges  
 USE polarization  
 USE temperature dependence

**pyrogallic acid**

USE pyrogallol

**PYROGALLOL**

*UF* 1,2,3-trihydroxybenzene  
*UF* pyrogallic acid  
 BT1 developers  
 \*BT1 polyphenols

**PYROGENS**

*RT* fever  
*RT* peptides  
*RT* polysaccharides

**PYROLYSIS**

1998-01-28  
*UF* thermal decomposition  
 \*BT1 decomposition  
 BT1 thermochemical processes  
**NT1** calcination  
**NT1** cracking  
**NT2** catalytic cracking  
**NT2** hydrocracking  
**NT2** thermal cracking  
**NT1** flash hydrolysis process  
*RT* destructive distillation  
*RT* dissociation  
*RT* landgard pyrolysis system  
*RT* occidental flash pyrolysis process  
*RT* purox pyrolysis process  
*RT* pyrolysis products  
*RT* retorting  
*RT* rope process  
*RT* slagging pyrolysis process  
*RT* syngas process  
*RT* thermal degradation

**PYROLYSIS PRODUCTS**

INIS: 1983-02-03; ETDE: 1979-07-24  
*Products from the pyrolysis or thermochemical reactions of carbonaceous materials.*  
**NT1** chars  
**NT1** coal gas  
**NT1** pyrolytic gases  
**NT1** pyrolytic oils  
*RT* by-products  
*RT* combustion products  
*RT* pyrolysis  
*RT* synthetic fuels  
*RT* volatile matter  
*RT* wastes

**PYROLYTIC CARBON**

*UF* pyrocarbon  
 \*BT1 carbon

**PYROLYTIC GASES**

INIS: 1992-07-17; ETDE: 1979-07-24  
*Gaseous products from pyrolysis or thermochemical reactions of carbonaceous materials.*  
 \*BT1 gases  
 BT1 pyrolysis products  
*RT* chemical feedstocks  
*RT* pyrolytic oils  
*RT* synthetic fuels  
*RT* volatile matter

**PYROLYTIC OILS**

INIS: 1992-07-17; ETDE: 1978-10-23  
*Oils produced from organic materials by pyrolysis or thermochemical reactions.*  
 \*BT1 oils  
 BT1 pyrolysis products  
 \*BT1 synthetic fuels  
*RT* coal liquids  
*RT* pyrolytic gases  
*RT* shale oil  
*RT* volatile matter

**PYROMETALLURGY**

\*BT1 extractive metallurgy  
**NT1** chloride volatility process  
**NT1** fluoride volatility process  
*RT* calcination  
*RT* reduction  
*RT* roasting  
*RT* smelters  
*RT* smelting

**PYROMETERS**

*Instruments that measure high temperature, e.g. of molten lavas, by electrical or optical means.*  
 BT1 measuring instruments  
**NT1** optical pyrometers  
*RT* temperature measurement

**PYRONES**

INIS: 2000-04-12; ETDE: 1979-10-23  
*Oxopyran.*  
*UF* chromone  
 \*BT1 pyrans

**PYROPHOSPHATES**

BT1 oxygen compounds  
 BT1 phosphorus compounds

**PYROPHYLLITE**

2000-04-12  
*A white, greenish, gray, or brown mineral.*  
 \*BT1 silicate minerals  
*RT* aluminium silicates

**PYROSOL PROCESS**

INIS: 2000-04-12; ETDE: 1985-09-24  
*A two-step coal hydrogenation process, including partial hydrogenation at 455 to 465 degrees C and a pressure of 200 bar and coking of the hydrogenation residue in the presence of hydrogen at about 500 degrees C.*  
 \*BT1 coal liquefaction

**pyrotechnic devices**

2000-04-12  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE chemical explosives

**pyrotek process**

INIS: 2000-04-12; ETDE: 1977-04-12  
*Shredded refuse is heated on a vibrating conveyor in less than stoichiometric air to produce low btu gas in this process developed by Foster Wheeler Corp.*  
 USE low btu gas  
 USE waste processing

**pyroxenes**

1976-05-07

*A group of dark, rock-forming silicate minerals.*

(Prior to March 1997 this was a valid ETDE descriptor.)

USE silicate minerals

**pyroxylin**

USE nitrocellulose

**pyrrhite**

INIS: 1998-10-23; ETDE: 1984-02-10

USE pyrochlore

**PYRRHOTITE**

ETDE: 1976-03-31

\*BT1 sulfide minerals

NT1 troilite

RT iron sulfides

**pyrrolase (tryptophan)**

1996-11-13

(Prior to March 1997 TRYPTOPHAN OXYGENASE was used for this concept in ETDE.)

USE oxygenases

**PYRROLES**

1996-10-22

*Compounds that contain a five-membered heterocyclic ring containing one nitrogen atom.*

UF biliverdin

UF urobilinogen

\*BT1 azoles

NT1 bilirubin

NT1 indoles

NT2 indigo

NT2 indocyanine green

NT2 lysergic acid

NT2 reserpine

NT2 strychnine

NT2 tryptamines

NT3 melatonin

NT3 serotonin

NT4 bufotenine

NT2 tryptophan

NT2 vinblastine

NT1 pyrrolidines

NT2 hydroxyproline

NT2 nicotine

NT2 proline

NT1 pyrrolidones

NT2 pvp

RT carbazoles

**PYRROLIDINES**

UF tetrahydropyrroles

\*BT1 amines

\*BT1 pyrroles

NT1 hydroxyproline

NT1 nicotine

NT1 proline

**pyrrolidinones**

1996-04-29

USE pyrrolidones

**PYRROLIDONES**

UF butyrolactam

UF pyrrolidinones

\*BT1 lactams

\*BT1 pyrroles

NT1 pvp

**PYRUVIC ACID**

UF ketopropionic acid-alpha

\*BT1 keto acids

**PZT**

INIS: 1986-09-26; ETDE: 1982-12-23

*Lead zirconate titanate.*

UF lead zirconate titanate

BT1 lead compounds

\*BT1 titanates

\*BT1 zirconates

RT ceramics

**q centers**

INIS: 1996-07-23; ETDE: 1977-11-10

(Until July 1996 this was a valid descriptor.)

USE color centers

**Q CODES**

BT1 computer codes

**Q DEVICES**

\*BT1 open plasma devices

NT1 helios devices

NT1 qp devices

RT magnetic mirrors

**q enhancement**

2000-04-12

SEE k1-1270 mesons

SEE k1-1400 mesons

**q resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

SEE k1-1270 mesons

SEE k1-1400 mesons

**Q-SHIFT**

INIS: 1976-03-25; ETDE: 1976-08-26

RT betatron oscillations

RT particle beams

**Q-SWITCHING**

RT lasers

RT switches

**Q-VALUE**

BT1 energy

RT nuclear reaction kinetics

**QATAR**

INIS: 1991-11-06; ETDE: 1976-10-13

BT1 arab countries

BT1 asia

BT1 developing countries

BT1 middle east

RT oapec

RT opec

**qbts**

2005-09-30

USE qubits

**qcd**

INIS: 2000-04-12; ETDE: 1995-01-09

USE quantum chromodynamics

**qf (radiation)**

USE quality factor

**QINSHAN-1 REACTOR**

1997-04-29

*Near Shanghai, China.*

(Until April 1997 this descriptor was spelled

QINSHAN REACTOR.)

UF qinshan reactor

\*BT1 pwr type reactors

**QINSHAN-2-1 REACTOR**

2003-01-22

*Near Shanghai, China.*

(Prior to January 2003 QINSHAN-2 REACTOR was used.)

UF qinshan-2 reactor

\*BT1 pwr type reactors

**QINSHAN-2-2 REACTOR**

2003-01-22

*Near Shanghai, China.*

\*BT1 pwr type reactors

**qinshan-2 reactor**

1997-04-29

*Near Shanghai, China.*

(Prior to January 2003 this was a valid descriptor.)

USE qinshan-2-1 reactor

**QINSHAN-3-1 REACTOR**

2003-01-22

*Near Shanghai, China.*

(Prior to January 2003 QINSHAN-3 REACTOR was used.)

UF qinshan-3 reactor

\*BT1 candu type reactors

**QINSHAN-3-2 REACTOR**

2003-01-22

*Near Shanghai, China.*

\*BT1 candu type reactors

**qinshan-3 reactor**

1999-03-23

*Near Shanghai, China.*

(Prior to January 2003 this was a valid descriptor.)

USE qinshan-3-1 reactor

**qinshan reactor**

INIS: 1997-04-29; ETDE: 1986-09-05

(Until April 1997 this was a valid descriptor.)

USE qinshan-1 reactor

**QP DEVICES**

\*BT1 q devices

**QUAD CITIES-1 REACTOR***Exelon Generation Co., LLC, Cordova, Illinois, USA.*

UF cordova quad cities-1 reactor

\*BT1 bwr type reactors

**QUAD CITIES-2 REACTOR***Exelon Generation Co., LLC, Cordova, Illinois, USA.*

UF cordova quad cities-2 reactor

\*BT1 bwr type reactors

**QUADRATURES**

UF gauss quadratures

RT integrals

**QUADRICYCLENE**

INIS: 2000-04-12; ETDE: 1977-12-22

\*BT1 cycloalkenes

**QUADRUPOLE****CONFIGURATIONS**

\*BT1 multipolar configurations

**QUADRUPOLE LINACS**

INIS: 1983-02-03; ETDE: 1981-01-09

*Linear accelerator having four longitudinal vanes in its resonating cavity, which are shaped to create rf electric fields that simultaneously accelerate, bunch, and focus the charged particle beam.*

UF radio frequency quadrupoles

UF rfq (accelerators)

\*BT1 linear accelerators

RT fmit linac

RT pigmi facilities

**QUADRUPOLE MOMENTS**

RT electric moments

RT magnetic moments

RT nuclear electric moments

RT nuclear magnetic moments

RT nuclear quadrupole resonance

RT quadrupoles

## QUADRUPOLES

BT1 multipoles  
RT beam focusing magnets  
RT quadrupole moments

## QUALITATIVE CHEMICAL ANALYSIS

UF analysis (qualitative chemical)  
UF assaying (qualitative)  
UF urinalysis  
BT1 chemical analysis  
RT activation analysis  
RT blood chemistry  
RT chemistry  
RT emission spectroscopy  
RT microanalysis  
RT radioassay

## QUALITY ASSURANCE

*The planned and systematic actions necessary to provide adequate confidence that a structure, system, or component will perform satisfactorily in service.*

RT audits  
RT certification  
RT evaluation  
RT licensing  
RT quality control  
RT reliability  
RT safety  
RT safety culture  
RT standardization

## QUALITY CONTROL

*An aggregate of functions designed to insure adequate quality in manufactured products by initial critical study of engineering design, materials, processes, equipment, and workmanship followed by periodic inspection and analysis.*

BT1 control  
RT errors  
RT inspection  
RT materials testing  
RT nondestructive testing  
RT performance testing  
RT quality assurance  
RT reliability  
RT safety  
RT sampling  
RT specifications  
RT standardization  
RT tolerance

## QUALITY FACTOR

UF *qf* (radiation)  
BT1 dimensionless numbers  
RT dose equivalents  
RT let  
RT oxygen enhancement ratio  
RT radiation quality  
RT rbe

## quality of life

INIS: 2000-04-12; ETDE: 1978-11-14  
(Prior to March 1997 this was a valid ETDE descriptor.)  
USE standard of living

## QUANICASSEE-1 REACTOR

*Consumers Power Co., Quanicasssee, Michigan, USA. Canceled in 1974 before construction began.*  
\*BT1 pwr type reactors

## QUANICASSEE-2 REACTOR

*Consumers Power Co., Quanicasssee, Michigan, USA. Canceled in 1974 before construction began.*  
\*BT1 pwr type reactors

## QUANTITATIVE CHEMICAL ANALYSIS

1995-11-22  
UF analysis (quantitative chemical)  
UF assaying (quantitative)  
BT1 chemical analysis  
NT1 gravimetric analysis  
NT2 thermal gravimetric analysis  
NT1 radio-release analysis  
NT1 radiochemical analysis  
NT1 radiometric analysis  
NT1 volumetric analysis  
NT2 titration  
NT3 amperometry  
NT3 iodometry  
NT3 potentiometry  
NT3 thermometric titration  
RT activation analysis  
RT blood chemistry  
RT body composition  
RT chemical composition  
RT chemistry  
RT concentration ratio  
RT emission spectroscopy  
RT fluorescence spectroscopy  
RT gas analysis  
RT isotope dilution  
RT kjeldahl method  
RT microanalysis  
RT polarography  
RT radioenzymatic assay  
RT raman spectroscopy  
RT substoichiometry  
RT voltametry  
RT x-ray emission analysis  
RT x-ray fluorescence analysis

## quantity ratio

INIS: 1993-07-12; ETDE: 1993-01-28  
(Prior to July 1991 this was a valid ETDE descriptor.)  
USE concentration ratio

## QUANTIZATION

1983-03-15  
*Transition from a description of a system of particles or fields in the classical approximation to a description in which canonically conjugate variables are treated as noncommuting operators.*  
NT1 second quantization  
RT quantum field theory  
RT quantum mechanics  
RT quantum operators

## quantum bits

2005-09-30  
USE qubits

## QUANTUM CHROMODYNAMICS

INIS: 1978-02-23; ETDE: 1977-11-28  
*Renormalizable quantum field theory, in which colored quark fields are coupled to gluon fields.*  
UF chromodynamics  
UF *qcd*  
\*BT1 quantum field theory  
RT bag model  
RT cim model  
RT color model  
RT flavor model  
RT gauge invariance  
RT gluon-gluon interactions  
RT gluon model

RT gluons  
RT grand unified theory  
RT instantons  
RT quantum electrodynamics  
RT quantum flavordynamics  
RT quark-gluon interactions  
RT standard model  
RT string models  
RT su-3 groups  
RT vector fields  
RT wilson loop  
RT yang-mills theory

## QUANTUM COMPUTERS

2005-09-30  
*Devices for computation that make direct use of distinctively quantum mechanical phenomena, such as superposition and entanglement, to perform operations on data.*  
UF quantum computing  
BT1 computers  
RT quantum electronics  
RT quantum entanglement  
RT quantum information  
RT quantum mechanics

## quantum computing

2005-09-30  
USE quantum computers

## QUANTUM CRYPTOGRAPHY

INIS: 2005-11-01; ETDE: 2005-10-31  
*Approach to making communications secure based on phenomena of quantum mechanics.*  
BT1 cryptography  
RT memory devices  
RT quantum mechanics  
RT qubits

## quantum crystals

2000-04-12  
*Crystals with large zero-point motions caused by light mass and a weak interaction of the lattice particles.*  
(Prior to March 1997 this was a valid ETDE descriptor.)  
USE crystals

## QUANTUM DECOHERENCE

INIS: 2005-11-01; ETDE: 2005-10-31  
RT quantum entanglement  
RT quantum mechanics

## QUANTUM DOTS

2003-11-03  
BT1 nanostructures

## QUANTUM EFFICIENCY

INIS: 1982-06-10; ETDE: 1979-09-06  
*Average number of electrons emitted per incident photon.*  
BT1 efficiency  
RT photocathodes  
RT photoelectric emission

## QUANTUM ELECTRODYNAMICS

BT1 electrodynamics  
\*BT1 quantum field theory  
NT1 schwinger-tomonaga formalism  
RT bhabha scattering  
RT dirac equation  
RT dirac operators  
RT equivalent-photon approximation  
RT infrared divergences  
RT joos-weinberg equation  
RT moeller scattering  
RT quantum chromodynamics  
RT quantum flavordynamics  
RT self-energy  
RT standard model  
RT ultraviolet divergences

RT vacuum polarization  
RT ward identity

**QUANTUM ELECTRONICS**

INIS: 1981-05-11; ETDE: 1976-08-04

*Unites the classical areas of electronics with those of optics, spectroscopy and quantum mechanics and is based upon the quantum nature of waves and atomic and molecular systems.*

UF electronics (quantum)  
RT lasers  
RT masers  
RT optics  
RT quantum computers  
RT quantum mechanics  
RT spectroscopy

**QUANTUM ENTANGLEMENT**

2005-09-30

*Quantum mechanical phenomenon in which the quantum states of two or more objects have to be described with reference to each other, even though the individual objects may be spatially separated.*

RT quantum computers  
RT quantum decoherence  
RT quantum mechanics  
RT quantum numbers  
RT quantum teleportation  
RT wave functions

**QUANTUM FIELD THEORY**

UF non-linear field theory  
UF nonlinear field theory

BT1 field theories  
NT1 axiomatic field theory  
NT2 algebraic field theory  
NT2 lsz theory  
NT2 wightman field theory  
NT1 constructive field theory  
NT2 lattice field theory  
NT1 lagrangian field theory  
NT1 phi4-field theory  
NT1 quantum chromodynamics  
NT1 quantum electrodynamics  
NT2 schwinger-tomonaga formalism  
NT1 quantum flavordynamics  
NT1 quantum gravity  
NT1 unified gauge models  
NT2 grand unified theory  
NT3 standard model  
NT2 weinberg-salam gauge model  
NT1 yukawa nonlocal theory  
RT anyons  
RT bethe-salpeter equation  
RT current algebra  
RT dispersion relations  
RT dyson representation  
RT feynman diagram  
RT field algebra  
RT field operators  
RT fock representation  
RT gauge invariance  
RT goldberger-treiman relation  
RT haag theorem  
RT heisenberg picture  
RT higgs model  
RT ladder approximation  
RT lehmann-kaellen representation  
RT locality  
RT mass formulae  
RT massless particles  
RT melosh transformation  
RT propagator  
RT quantization  
RT quantum groups  
RT quantum mechanics  
RT quasipotential equation  
RT radiative corrections

RT regge poles  
RT renormalization  
RT s matrix  
RT scalar fields  
RT scale dimension  
RT schroedinger picture  
RT schwinger functional equations  
RT schwinger source theory  
RT second quantization  
RT sine-gordon equation  
RT spinor fields  
RT sugawara theory  
RT supergravity  
RT supersymmetry  
RT tensor fields  
RT thirring model  
RT vector fields  
RT vertex functions  
RT wick theorem  
RT yang-feldman formalism  
RT yang-mills theory  
RT zachariasen model

**QUANTUM FLAVORDYNAMICS**

INIS: 1995-08-10; ETDE: 1979-05-25

UF flavordynamics  
\*BT1 quantum field theory  
RT flavor model  
RT quantum chromodynamics  
RT quantum electrodynamics  
RT weinberg-salam gauge model

**QUANTUM FLUIDS**

INIS: 1983-02-03; ETDE: 1979-05-02

BT1 fluids  
NT1 helium ii  
RT helium 3  
RT helium 4  
RT quantum plasma

**QUANTUM GRAVITY**

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 quantum field theory  
RT general relativity theory  
RT gravitation  
RT gravitational fields  
RT gravitons  
RT supergravity  
RT unified-field theories

**QUANTUM GROUPS**

1997-08-20

*Algebraic structures with applications in solvable models in quantum field theory and statistical physics.*

BT1 symmetry groups  
RT algebra  
RT group theory  
RT quantum field theory

**QUANTUM INFORMATION**

2005-09-30

*Physical information that is held in the state of a quantum system.*

BT1 information  
NT1 qubits  
RT entropy  
RT information theory  
RT quantum computers  
RT quantum mechanics  
RT quantum teleportation

**QUANTUM MECHANICS**

BT1 mechanics  
RT adiabatic approximation  
RT adiabatic invariance  
RT aharonov-bohm effect  
RT angular momentum  
RT bell theorem  
RT bloch theory  
RT born approximation

RT boson expansion  
RT canonical transformations  
RT causality  
RT chirality  
RT commutation relations  
RT d waves  
RT de broglie wavelength  
RT density matrix  
RT diabatic approximation  
RT dirac approximation  
RT eigenfunctions  
RT eigenstates  
RT eigenvalues  
RT energy density  
RT expectation value  
RT f waves  
RT feynman path integral  
RT fierz-pauli theory  
RT generator-coordinate method  
RT heisenberg picture  
RT hidden variables  
RT hsk procedure  
RT hylleraas coordinates  
RT klein-gordon equation  
RT kramers theorem  
RT levinson theorem  
RT lippmann-schwinger equation  
RT mathematical operators  
RT occupation number  
RT p waves  
RT partial waves  
RT pauli principle  
RT perturbation theory  
RT planck law  
RT proca equations  
RT projection operators  
RT quantization  
RT quantum computers  
RT quantum cryptography  
RT quantum decoherence  
RT quantum electronics  
RT quantum entanglement  
RT quantum field theory  
RT quantum information  
RT quantum numbers  
RT quantum teleportation  
RT racah coefficients  
RT rarita-schwinger theory  
RT s waves  
RT schroedinger equation  
RT schroedinger picture  
RT schwinger variational method  
RT second quantization  
RT selection rules  
RT semiclassical approximation  
RT seniority number  
RT sommerfeld-watson theory  
RT sudden approximation  
RT sum rules  
RT superselection rules  
RT tamm-dancoff method  
RT twistor theory  
RT uncertainty principle  
RT wigner coefficients  
RT wigner theory  
RT zitterbewegung

**QUANTUM NUMBERS**

NT1 seniority number  
RT flavor model  
RT gell-mann theory  
RT multiplicity  
RT parity  
RT particle properties  
RT quantum entanglement  
RT quantum mechanics  
RT quantum teleportation  
RT spin

**QUANTUM OPERATORS**

- UF operators (quantum field theory)
- UF operators (quantum mechanical)
- BT1 mathematical operators
- NT1 angular momentum operators
  - NT2 orbital momentum operators
  - NT2 pauli spin operators
- NT1 annihilation operators
- NT1 commutators
  - NT2 current commutators
  - NT3 sigma terms
- NT1 creation operators
- NT1 dirac operators
- NT1 field operators
- NT1 hamiltonians
- NT1 linear momentum operators
- NT1 moshinsky transformation
- NT1 position operators
- RT boson expansion
- RT gluon condensation
- RT operator product expansion
- RT quantization
- RT quark condensation

**QUANTUM PLASMA**

- BT1 plasma
- RT quantum fluids

**QUANTUM TELEPORTATION**

2005-09-30

*Technique of quantum information science in which a quantum state is transferred to an arbitrarily distant location by using an entangled state and the transmission of some classical information.*

- RT data transmission
- RT quantum entanglement
- RT quantum information
- RT quantum mechanics
- RT quantum numbers

**QUANTUM WELLS**

2003-11-03

- BT1 nanostructures
- RT heterojunctions
- RT wave functions

**QUANTUM WIRES**

2003-11-03

- BT1 nanostructures

**QUARANTINE**

- RT diseases
- RT health hazards
- RT incubation
- RT latency period
- RT pest control
- RT public health
- RT time dependence

**QUARK-ANTIQUARK INTERACTIONS**

INIS: 1979-01-18; ETDE: 1979-02-23

- \*BT1 particle interactions

**QUARK CONDENSATION**

INIS: 1989-04-20; ETDE: 1989-05-11

- RT quantum operators
- RT quarks
- RT vacuum states

**quark confinement**

INIS: 1976-08-17; ETDE: 1976-11-01

- USE bag model

**QUARK-GLUON INTERACTIONS**

INIS: 1983-02-04; ETDE: 1983-03-07

- \*BT1 particle interactions
- RT gluons
- RT quantum chromodynamics
- RT quark matter

- RT quarks
- RT strong interactions

**quark-gluon plasma**

INIS: 1984-01-18; ETDE: 1983-09-15

- USE quark matter

**QUARK-HADRON INTERACTIONS**

INIS: 1978-11-24; ETDE: 1978-12-20

- \*BT1 particle interactions
- RT cim model
- RT exchange interactions
- RT quark model

**quark material**

INIS: 2000-04-12; ETDE: 1983-09-15

- USE quark matter

**QUARK MATTER**

INIS: 1984-01-18; ETDE: 1983-09-15

*A plasma of non-interacting quarks and gluons formed from hadronic matter at high energy densities.*

- UF plasma (quark)
- UF quark-gluon plasma
- UF quark material
- UF quark plasma
- UF quark sea
- BT1 matter
- RT gluons
- RT nuclear matter
- RT quark-gluon interactions
- RT quark model
- RT quarks

**QUARK MODEL**

- SF parton model
- \*BT1 composite models
- NT1 bag model
- NT1 color model
- NT1 flavor model
- NT1 string models
  - NT2 superstring models
- RT beauty particles
- RT charm particles
- RT landau quasi particles
- RT merons
- RT quark-hadron interactions
- RT quark matter
- RT quarkonium
- RT quarks

**quark plasma**

INIS: 1984-01-18; ETDE: 1983-09-15

- USE quark matter

**QUARK-QUARK INTERACTIONS**

INIS: 1979-09-18; ETDE: 1979-02-23

- \*BT1 particle interactions

**quark sea**

INIS: 2000-04-12; ETDE: 1983-09-15

- USE quark matter

**QUARKONIUM**

INIS: 1995-09-08; ETDE: 1980-05-23

*A bound state of a quark and an antiquark.*

- NT1 bottomonium
  - NT2 chi b0-10235 mesons
  - NT2 chi b0-9860 mesons
  - NT2 chi b1-10255 mesons
  - NT2 chi b1-9890 mesons
  - NT2 chi b2-10270 mesons
  - NT2 chi b2-9915 mesons
  - NT2 upsilon-10023 mesons
  - NT2 upsilon-10355 mesons
  - NT2 upsilon-10580 mesons
  - NT2 upsilon-10860 mesons
  - NT2 upsilon-11020 mesons
  - NT2 upsilon-9460 mesons
- NT1 charmonium

- NT2 chi0-3415 mesons
- NT2 chi1-3510 mesons
- NT2 chi2-3555 mesons
- NT2 eta c-2980 mesons
- NT2 eta c-3590 mesons
- NT2 j psi-3097 mesons
- NT2 psi-3685 mesons
- NT2 psi-3770 mesons
- NT2 psi-4040 mesons
- NT2 psi-4160 mesons
- NT2 psi-4415 mesons
- NT1 strangeonium
  - NT2 f2 prime-1525 mesons
  - NT2 phi-1020 mesons
  - NT2 phi-1680 mesons
  - NT2 phi3-1850 mesons
- NT1 toponium
  - RT b c mesons
  - RT baryonium
  - RT bound state
  - RT d quarks
  - RT quark model
  - RT quarks
  - RT u quarks

**QUARKS**

1995-09-08

- UF aces (quarks)
- UF triplet particles
- UF urbaryons
- SF grace particles
- SF partons
- SF taste particles
- BT1 fermions
- NT1 b quarks
- NT1 c quarks
- NT1 d quarks
- NT1 s quarks
- NT1 t quarks
- NT1 u quarks
- RT centauro-type events
- RT composite models
- RT melosh transformation
- RT preons
- RT quark condensation
- RT quark-gluon interactions
- RT quark matter
- RT quark model
- RT quarkonium

**quarrying**

INIS: 1975-11-07; ETDE: 2002-02-27

- USE surface mining

**QUARTET MODEL**

UF four-nucleon structure

- \*BT1 nuclear models
- RT cluster model
- RT nuclear structure

**QUARTZ**

*Crystalline silica, an important rock-forming mineral.*

- \*BT1 oxide minerals
- RT aplites
- RT cristobalite
- RT granites
- RT granodiorites
- RT quartz monzonite
- RT quartzites
- RT shales
- RT silicate minerals
- RT silicon oxides

**QUARTZ MONZONITE**

INIS: 1984-11-30; ETDE: 1984-05-23

- UF adamellite
- \*BT1 granites
- RT feldspars
- RT quartz

**QUARTZITES**

*Quartz rocks derived from sandstone.*

- \*BT1 metamorphic rocks
- RT quartz
- RT sandstones

**QUASARS**

- BT1 cosmic radio sources
- NT1 blue stellar objects
- RT bl lacertae objects
- RT radio galaxies
- RT seyfert galaxies
- RT stars

**quasi-elastic reactions**

*INIS: 1984-04-04; ETDE: 2002-06-13*

*Reactions between heavy ions, dominant at low energies, in which small amounts of energy and a few particles are transferred.*

- USE transfer reactions

**QUASI-ELASTIC SCATTERING**

- \*BT1 quasi-free reactions
- BT1 scattering
- RT elastic scattering

**QUASI-FISSION**

*INIS: 1977-04-07; ETDE: 1977-06-03*

*UF fission-like reactions*

- \*BT1 heavy ion reactions
- RT compound-nucleus reactions
- RT deep inelastic heavy ion reactions
- RT fission
- RT heavy ion fusion reactions
- RT nuclear fireball model
- RT precompound-nucleus emission

**QUASI-FREE REACTIONS**

*Nuclear reactions similar to quasi-free (or quasi-elastic) scattering, but distinct in that the incident particle undergoes a rearrangement reaction with the struck particle in the nucleus instead of just scattering from it.*

- \*BT1 direct reactions
- NT1 quasi-elastic scattering

**QUASI PARTICLES**

- UF dopplers*
- NT1 anyons
- NT1 excitons
- NT1 focusons
- NT1 instantons
- NT1 landau quasi particles
- NT1 magnons
- NT1 merons
- NT1 phonons
- NT1 plasmons
- NT1 polarons
- NT1 pomeranchuk particles
- NT1 rotons
- NT1 solitons
- RT holes
- RT many-body problem

**QUASIBOUND STATE**

*INIS: 1988-11-16; ETDE: 1988-12-05*

- RT bound state
- RT coupling
- RT energy levels

**QUASILINEAR PROBLEMS**

- UF quasilinear theory*
- RT boltzmann-vlasov equation
- RT mathematics
- RT nonlinear problems
- RT perturbation theory

**quasilinear theory**

*INIS: 1988-11-16; ETDE: 2002-04-26*

- USE quasilinear problems

**QUASIPARTICLE-PHONON MODEL**

*INIS: 1981-02-27; ETDE: 1981-03-16*

- \*BT1 nuclear models
- RT collective model
- RT phonons
- RT single-particle model

**QUASIPOTENTIAL EQUATION**

- \*BT1 integral equations
- RT lippmann-schwinger equation
- RT quantum field theory
- RT scattering amplitudes

**QUATERNARY ALLOY SYSTEMS**

- BT1 alloy systems

**QUATERNARY COMPOUNDS**

*1996-10-23*

*For quaternary ammonium compounds.*

- UF teab*
- UF tetraethylammonium bromide*
- \*BT1 amines
- BT1 ammonium compounds
- NT1 acetylcholine
- NT1 betaine
- NT1 choline
- NT1 pyridinium compounds
- RT ammonia

**QUATERNARY FISSION**

*Fission with emission of two light charged particles.*

- \*BT1 fission

**QUATERNARY PERIOD**

*INIS: 1992-04-14; ETDE: 1977-10-19*

- UF holocene epoch*
- \*BT1 cenozoic era
- NT1 pleistocene epoch

**QUATERPHENYLS**

- \*BT1 aromatics
- \*BT1 hydrocarbons

**QUBITS**

*2005-09-30*

*Units of quantum information represented by the superposition of pairs of orthogonal base states in quantum systems.*

- UF qbits*
- UF quantum bits*
- \*BT1 quantum information
- RT quantum cryptography

**QUEBEC**

- \*BT1 canada
- RT ottawa river
- RT st lawrence river

**QUEEN MARY COLLEGE UTR-B REACTOR**

*Queen Mary College, London, United Kingdom.*

- UF university training reactor queen mary*
- UF utr-b queen mary college reactor*
- \*BT1 argonaut type reactors
- \*BT1 training reactors

**QUEENSLAND**

- \*BT1 australia

**QUENCH AGING**

- BT1 aging
- RT quenching

**QUENCH HARDENING**

*1996-06-28*

*(Prior to July 1996 JOMINY END-QUENCH TECHNIQUE was a valid ETDE descriptor.)*

- SF jominy end-quench technique*
- BT1 hardening
- BT1 heat treatments

- RT quenching
- RT splat cooling

**QUENCHING**

*2000-05-18*

- RT heat treatments
- RT quench aging
- RT quench hardening
- RT superconductivity

**quenching (avalanche)**

*INIS: 1978-07-03; ETDE: 1976-05-17*

- USE avalanche quenching

**quenching (discharge)**

*1996-04-16*

- USE discharge quenching

**quenching (fluorescence)**

*INIS: 1984-04-04; ETDE: 2002-04-26*

- USE fluorescence

**quenching (scintillation)**

- USE scintillation quenching

**QUERCETIN**

- \*BT1 flavones
- \*BT1 polyphenols
- \*BT1 pyrans
- RT glycosides

**quercus**

- USE oaks

**QUEUES**

*INIS: 2000-04-12; ETDE: 1975-10-01*

- RT mathematics

**quezon philippine reactor**

- USE prr-1 reactor

**QUIESCENT PLASMA**

- BT1 plasma

**QUINALDINE**

*1996-07-18*

- UF 2-methylquinoline*
- \*BT1 quinolines

**quinalizarin**

- USE quinzarin

**quinhydrone**

*1996-10-23*

*(Until October 1996 this was a valid descriptor.)*

- USE benzoquinones

**QUININE**

- \*BT1 alkaloids
- \*BT1 antimicrobial agents
- \*BT1 antipyretics

**QUINIZARIN**

*UF 1,4-dihydroxyanthraquinone*

- UF quinalizarin*
- \*BT1 anthraquinones
- BT1 dyes
- \*BT1 hydroxy compounds

**QUINOLINES**

*1996-07-18*

- UF kynurenic acid*
- \*BT1 azaarenes
- \*BT1 pyridines
- NT1 ferron
- NT1 oxine
- NT1 quinaldine

**quinone**

- USE benzoquinones

**QUINONES**

- \*BT1 aromatics

\*BT1 organic oxygen compounds  
 NT1 anthraquinones  
 NT2 alizarin  
 NT2 carminic acid  
 NT2 quinizarin  
 NT1 benzoquinones  
 NT2 chloranil  
 NT2 chloranilic acid  
 NT2 plastoquinone  
 NT2 ubiquinone  
 NT1 rhodizonic acid  
 NT1 vitamin k  
 RT ketones

**r (exposure unit)**

For studies concerning units, concepts, or definitions. See also DOSE EQUIVALENTS.  
 USE radiation dose units

**R-1 REACTOR**

Stockholm, Sweden.  
 UF stockholm r-1 reactor  
 UF swedish reactor r-1  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 natural uranium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**r-1650 resonances**

1988-03-08  
 (Prior to December 1987 this was a valid descriptor.)  
 USE mesons

**R-2 REACTOR**

Aktiebolaget Atomenergi, Nyoking, Studsvik, Sweden.  
 UF studsvik r-2 reactor  
 UF swedish reactor r-2  
 \*BT1 enriched uranium reactors  
 \*BT1 materials testing reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**r-2510 resonances**

INIS: 1987-12-21; ETDE: 2002-04-26  
 (Prior to December 1987 this was a valid descriptor.)  
 USE f6-2510 mesons

**r-3/adam reactor**

USE agesta reactor

**R-A REACTOR**

VINCA Institute of Nuclear Sciences, Belgrade, Serbia and Montenegro.  
 UF vinca r-a reactor yugoslavia  
 UF yugoslavia r-a reactor vinca  
 \*BT1 enriched uranium reactors  
 \*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**R-B REACTOR**

VINCA Institute of Nuclear Sciences, Belgrade, Serbia and Montenegro.  
 UF vinca r-b reactor yugoslavia  
 UF yugoslavia r-b reactor vinca  
 \*BT1 heavy water moderated reactors  
 \*BT1 natural uranium reactors  
 \*BT1 training reactors  
 \*BT1 zero power reactors

**R CENTERS**

\*BT1 color centers

**R CODES**

BT1 computer codes

**r-f mass spectrometers**

USE dynamic mass spectrometers

**R FACTORS**

INIS: 2000-04-12; ETDE: 1977-06-21  
 Measures of thermal resistance value of materials.  
 RT thermal insulation  
 RT u values

**r-ii swierk reactor**

2000-04-12  
 USE swierk r-2 reactor

**R MATRIX**

BT1 matrices  
 RT group theory  
 RT multilevel analysis  
 RT nuclear reactions

**R PROCESS**

\*BT1 star evolution  
 RT capture  
 RT nucleosynthesis  
 RT stars

**R REACTOR**

Savannah River Plant, Aiken, South Carolina, USA. Reactor in surveillance and maintenance mode.  
 UF savannah river plant r reactor  
 \*BT1 heavy water moderated reactors  
 \*BT1 special production reactors

**r-rna**

INIS: 1990-04-19; ETDE: 1985-11-19  
 USE ribosomal rna

**R2-0 REACTOR**

Aktiebolaget Atomenergi, Nykoping, Studsvik, Sweden.  
 UF studsvik r2-0 reactor  
 UF swedish reactor r2-0  
 \*BT1 enriched uranium reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors

**RA-0 REACTOR**

UN Cordoba/CNEA, Argentinian Atomic Energy Commission, Cordoba, Argentina.  
 UF argentine reactor ra-0  
 UF reactor argentin-0  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 zero power reactors

**RA-1 REACTOR**

CNEA, Buenos Aires, Argentina.  
 UF argentine reactor ra-1  
 UF reactor argentin-1  
 \*BT1 argonaut type reactors  
 \*BT1 training reactors

**RA-2 REACTOR**

CNEA, Argentinian Atomic Energy Commission, Buenos Aires, Argentina.  
 UF argentine reactor ra-2  
 UF reactor argentin-2  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 zero power reactors

**RA-3 REACTOR**

CNEA, Argentinian Atomic Energy Commission, Buenos Aires, Argentina.  
 UF argentine reactor ra-3

UF ezeiza argentine ra-3 reactor  
 UF reactor argentin-3  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors

**ra 333**

INIS: 2000-04-12; ETDE: 1979-08-09  
 USE alloy-ra-333

**RA-4 REACTOR**

2002-08-13  
 UF argentine reactor ra-4  
 UF ezeiza argentine ra-4 reactor  
 UF reactor argentin-4  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors

**RA-5 REACTOR**

INIS: 1976-02-11; ETDE: 1976-04-19  
 CNEA, Argentinian Atomic Energy Commission, Buenos Aires, Argentina.  
 UF argentine reactor ra-5  
 UF reactor argentin-5  
 \*BT1 enriched uranium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**RA-6 REACTOR**

2001-03-01  
 CNEA, Argentinian Atomic Energy Commission, Buenos Aires, Argentina.  
 UF argentine reactor ra-6  
 UF reactor argentin ra-6  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors

**RA-8 REACTOR**

2002-11-20  
 CNEA, Argentinian Atomic Energy Commission, Buenos Aires, Argentina.  
 UF argentine reactor ra-8  
 UF reactor argentin-8  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 research reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 zero power reactors

**rabbit brush**

INIS: 1994-08-22; ETDE: 1982-03-11  
 (Prior to April 1994, this was a valid ETDE descriptor.)  
 USE magnoliopsida  
 USE shrubs

**RABBIT TUBES**

1995-05-09  
 UF shuttles  
 BT1 reaction product transport systems  
 \*BT1 reactor experimental facilities

**RABBITS**

\*BT1 mammals

**RABIES**

INIS: 1982-04-14; ETDE: 1982-05-07  
 \*BT1 nervous system diseases  
 \*BT1 viral diseases  
 RT central nervous system  
 RT viruses



**RACAH COEFFICIENTS**

- UF 6j-symbols  
 RT angular momentum  
 RT clebsch-gordan coefficients  
 RT group theory  
 RT quantum mechanics  
 RT wigner coefficients

**RACEMATES**

- INIS: 2000-04-12; ETDE: 1976-02-19  
 50-50 mixtures of dextro and levo isomers;  
 optically inactive.  
 UF achiral  
 RT racemization  
 RT stereochemistry

**RACEMIZATION**

- RT isomerases  
 RT racemates  
 RT stereochemistry

**RACETRACK MICROTRONS**

- INIS: 1985-07-23; ETDE: 1985-08-09  
 Microtrons with two bending magnets and  
 linear accelerators between them.  
 \*BT1 microtrons

**rachitis**

- USE rickets

**racial groups**

- INIS: 2000-04-12; ETDE: 1979-10-23  
 USE minority groups

**racks (fuel)**

- INIS: 1980-04-02; ETDE: 1978-10-25  
 USE fuel racks

**rad**

- 1997-06-05  
 See also RADIATION DOSES.  
 USE radiation dose units

**RADAPPERTIZATION**

- ETDE: 1995-05-05  
 Use of irradiation to sterilize foodstuff.  
 UF food irradiation (radiosterilization)  
 UF radiosterilization (food)  
 \*BT1 food processing  
 \*BT1 radiosterilization  
 RT food  
 RT ifip

**RADAR**

- (From March 1980 till March 1997  
 SYNTHETIC-APERTURE RADAR was a  
 valid ETDE descriptor.)  
 UF radiation detection and range  
 UF synthetic-aperture radar  
 \*BT1 range finders  
 NT1 acoustic radar  
 NT1 optical radar  
 RT electrical equipment  
 RT electronic equipment  
 RT frequency range  
 RT radio equipment  
 RT radiowave radiation

**radial distribution**

- INIS: 1989-04-20; ETDE: 2002-04-26  
 USE spatial distribution

**radial flow mhd generators**

- INIS: 1993-02-19; ETDE: 1979-05-03  
 USE disk mhd generators

**RADIAL INFLOW TURBINES**

- INIS: 2000-04-12; ETDE: 1984-08-20  
 \*BT1 turbines  
 RT radial-outflow reaction turbines

**RADIAL-OUTFLOW REACTION****TURBINES**

- INIS: 2000-04-12; ETDE: 1978-10-23  
 UF rort  
 \*BT1 turbines  
 RT radial inflow turbines

**radial profiles (plasma)**

- INIS: 1989-09-14; ETDE: 2002-04-26  
 USE plasma radial profiles

**RADIAL VELOCITY**

- BT1 velocity

**RADIANT CABLE HEATING**

- INIS: 2000-04-12; ETDE: 1977-09-19  
 \*BT1 electric heating  
 RT radiant heaters  
 RT space heating

**RADIANT FLUX DENSITY**

- 2000-04-12  
 UF irradiance  
 UF radiant intensity  
 BT1 flux density

**RADIANT HEAT TRANSFER**

- UF radiative transfer  
 \*BT1 heat transfer  
 RT emissivity  
 RT radiative cooling  
 RT thermal radiation

**RADIANT HEATERS**

- INIS: 2000-04-12; ETDE: 1982-04-09  
 BT1 heaters  
 RT radiant cable heating

**radiant intensity**

- 2000-04-12  
 USE radiant flux density

**RADIATION ABSORPTION ANALYSIS**

- Analysis based on the determination of the  
 absorption of X-ray, gamma-ray, or other  
 ionizing radiation by the sample.  
 \*BT1 nondestructive analysis

**RADIATION ACCIDENTS**

- 1995-05-10  
 UF accidental irradiation  
 UF criticality accidents  
 UF goiania radiological emergency  
 SF nuclear accidents  
 BT1 accidents  
 RT canare  
 RT emergency plans  
 RT international nuclear event scale

**RADIATION ATTENUATION****TESTING**

- 1986-04-04  
 (Prior to April 1986 INDUSTRIAL  
 RADIOGRAPHY was used for this concept.)  
 \*BT1 nondestructive testing  
 RT industrial radiography

**RADIATION BELTS**

- UF van allen belts  
 NT1 artificial radiation belts  
 RT charged-particle precipitation  
 RT earth magnetosphere  
 RT electron precipitation  
 RT proton precipitation

**radiation buildup**

- USE buildup

**radiation burden**

- USE radiation doses

**RADIATION BURNS**

- \*BT1 burns  
 \*BT1 local radiation effects  
 \*BT1 radiation injuries  
 RT radiodermatitis

**RADIATION CHEMISTRY**

*The chemistry of the effects of high-energy  
 radiation on matter. Not to be used for  
 RADIOCHEMISTRY.*

- BT1 chemistry  
 RT chemical radiation effects  
 RT g value  
 RT oxonium ions  
 RT photochemistry  
 RT radiochemistry  
 RT radiolysis  
 RT reaction intermediates  
 RT recombination  
 RT scavenging  
 RT valence

**RADIATION CHIMERAS**

- \*BT1 chimeras  
 RT biological radiation effects  
 RT spleen colony formation

**RADIATION CURING**

- INIS: 1982-10-29; ETDE: 1976-09-28  
 (Prior to November 1982 this concept was  
 indexed by the coordination of CHEMICAL  
 RADIATION EFFECTS and CROSS-  
 LINKING.)  
 \*BT1 chemical radiation effects  
 BT1 curing  
 RT cross-linking

**radiation damage (biological)**

- USE radiation injuries

**radiation damage (chemical)**

- INIS: 1976-03-02; ETDE: 2002-04-26  
 USE radiolysis

**radiation damage (nonbiologic)**

- 2000-04-12  
 USE radiation effects

**radiation damage (physical)**

- INIS: 1976-03-02; ETDE: 2002-04-26  
 USE physical radiation effects

**radiation decontamination**

- 2000-04-12  
 USE decontamination

**RADIATION DETECTION**

- UF detection (radiation)  
 BT1 detection  
 NT1 charged particle detection  
 NT2 acoustic detection  
 NT2 alpha detection  
 NT2 beta detection  
 NT2 electron detection  
 NT2 ion detection  
 NT2 muon detection  
 NT2 positron detection  
 NT2 proton detection  
 NT1 cosmic ray detection  
 NT1 fission fragment detection  
 NT1 gamma detection  
 NT1 kaon detection  
 NT1 neutrino detection  
 NT1 neutron detection  
 NT1 pion detection  
 NT1 x-ray detection  
 RT coincidence spectrometry  
 RT counting circuits  
 RT dosimeters  
 RT dosimetry  
 RT particle discrimination

RT pulse techniques  
 RT radiation detectors  
 RT radiation monitoring  
 RT radiations  
 RT spectrometers  
 RT spectroscopy

**radiation detection and range**

USE radar

**RADIATION DETECTORS**

UF counters (radiation)  
 UF detectors (radiation)  
 BT1 measuring instruments  
 NT1 chemical radiation detectors  
 NT1 cherenkov counters  
 NT1 compton diode detectors  
 NT1 corona counters  
 NT1 crystal counters  
 NT2 filament crystal counters  
 NT1 dielectric track detectors  
 NT1 directional radiation detectors  
 NT1 electron multiplier detectors  
 NT1 emanometers  
 NT1 fermilab collider detector  
 NT1 flow counters  
 NT1 four-pi detectors  
 NT1 gas track detectors  
 NT2 bubble chambers  
 NT3 cryogenic bubble chambers  
 NT3 heavy liquid bubble chambers  
 NT3 ultrasonic bubble chambers  
 NT2 cloud chambers  
 NT3 diffusion chambers  
 NT3 expansion chambers  
 NT2 spark chambers  
 NT3 filmless spark chambers  
 NT4 sonic spark chambers  
 NT4 wire spark chambers  
 NT3 projection spark chambers  
 NT3 streamer spark chambers  
 NT3 wide gap spark chambers  
 NT1 geiger-mueller counters  
 NT1 gravitational wave detectors  
 NT1 ionization chambers  
 NT2 boron coated ion chambers  
 NT2 bragg gray chambers  
 NT2 condenser ionization chambers  
 NT2 extrapolation chambers  
 NT2 fission chambers  
 NT2 liquid ionization chambers  
 NT2 multiwire ionization chambers  
 NT1 low level counters  
 NT1 neutron detectors  
 NT2 activation detectors  
 NT2 bf3 counters  
 NT2 boron coated ion chambers  
 NT2 boron lined counters  
 NT2 fission chambers  
 NT2 fission foil detectors  
 NT2 fission thermocouple detectors  
 NT2 he-3 counters  
 NT2 moderating detectors  
 NT3 bonner sphere detectors  
 NT3 long counters  
 NT2 proton recoil detectors  
 NT2 self-powered neutron detectors  
 NT2 threshold detectors  
 NT1 photographic film detectors  
 NT1 position sensitive detectors  
 NT1 proportional counters  
 NT2 bf3 counters  
 NT2 boron lined counters  
 NT2 he-3 counters  
 NT2 liquid proportional counters  
 NT2 multiwire proportional chambers  
 NT3 drift chambers  
 NT4 time projection chambers  
 NT2 needle chambers  
 NT1 pyroelectric detectors

NT1 radiometers  
 NT1 scintillation counters  
 NT2 gas scintillation detectors  
 NT2 liquid scintillation detectors  
 NT2 scintillator-photodiode detectors  
 NT2 solid scintillation detectors  
 NT3 bgo detectors  
 NT3 nai detectors  
 NT3 plastic scintillation detectors  
 NT1 secondary emission detectors  
 NT1 self-powered detectors  
 NT2 self-powered gamma detectors  
 NT2 self-powered neutron detectors  
 NT1 semiconductor detectors  
 NT2 bulk semiconductor detectors  
 NT2 cdte semiconductor detectors  
 NT2 ge semiconductor detectors  
 NT3 high-purity ge detectors  
 NT3 li-drifted ge detectors  
 NT2 hgi2 semiconductor detectors  
 NT2 insb semiconductor detectors  
 NT2 junction detectors  
 NT3 li-drifted junction detectors  
 NT2 li-drifted detectors  
 NT3 li-drifted ge detectors  
 NT3 li-drifted junction detectors  
 NT3 li-drifted si detectors  
 NT2 si semiconductor detectors  
 NT3 li-drifted si detectors  
 NT3 si microstrip detectors  
 NT2 surface barrier detectors  
 NT1 shower counters  
 NT1 spark counters  
 NT1 stanford linear collider detector  
 NT1 superconducting colloid detectors  
 NT1 tissue-equivalent detectors  
 NT1 transition radiation detectors  
 NT1 wall-less counters  
 NT1 whole-body counters  
 RT charged particle detection  
 RT cosmic ray detection  
 RT counting circuits  
 RT counting techniques  
 RT dosimeters  
 RT fission fragment detection  
 RT gamma detection  
 RT neutron detection  
 RT polarimeters  
 RT pulse techniques  
 RT radiation detection  
 RT radiation monitors  
 RT radioisotope scanners  
 RT scalars  
 RT spectrometers  
 RT streak cameras  
 RT telescope counters  
 RT well logging equipment

**RADIATION DOSE DISTRIBUTIONS**

UF dose distributions  
 NT1 spatial dose distributions  
 NT2 depth dose distributions  
 NT1 temporal dose distributions  
 RT dose-response relationships  
 RT irradiation  
 RT isodose curves  
 RT radiation doses

**RADIATION DOSE UNITS**

1997-06-05

For studies concerning units, concepts or definitions.

UF gray  
 UF r (exposure unit)  
 UF rad  
 UF rem  
 UF roentgen (exposure unit)  
 UF roentgen equivalent man  
 UF sievert  
 UF sievert unit

BT1 units  
 RT dosimetry  
 RT icru  
 RT radiation doses

**radiation dosimeters**

USE dosimeters

**RADIATION DOSES**

UF absorbed doses  
 UF doses (radiation)  
 UF exposure (radiation doses)  
 UF radiation burden  
 UF radiation exposure (doses)  
 BT1 doses  
 NT1 genetically significant dose  
 NT1 integral doses  
 NT1 lethal radiation dose  
 NT1 somatically significant dose  
 NT1 threshold dose  
 RT alara  
 RT biological indicators  
 RT biological radiation effects  
 RT biophysics  
 RT buildup  
 RT chronic irradiation  
 RT critical organs  
 RT cumulative radiation effects  
 RT dose commitments  
 RT dose equivalents  
 RT dose limits  
 RT dose rates  
 RT dose-response relationships  
 RT dosimeters  
 RT dosimetry  
 RT energy absorption  
 RT fractionated irradiation  
 RT icrp critical group  
 RT irradiation  
 RT kerma  
 RT lethal irradiation  
 RT low dose irradiation  
 RT maximum permissible dose  
 RT maximum permissible exposure  
 RT medical surveillance  
 RT occupational exposure  
 RT personnel monitoring  
 RT radiation dose distributions  
 RT radiation dose units  
 RT radiation effects  
 RT radiations  
 RT remedial action  
 RT source terms  
 RT sublethal irradiation  
 RT supralethal irradiation

**radiation dosimetry**

USE dosimetry

**RADIATION EFFECTS**

1996-01-24

UF radiation damage (nonbiologic)  
 NT1 biological radiation effects  
 NT2 abscopal radiation effects  
 NT2 delayed radiation effects  
 NT2 early radiation effects  
 NT2 genetic radiation effects  
 NT2 local radiation effects  
 NT3 osteoradionecrosis  
 NT3 radiation burns  
 NT3 radiodermatitis  
 NT2 radiation injuries  
 NT3 osteoradionecrosis  
 NT3 radiation burns  
 NT3 radiodermatitis  
 NT1 chemical radiation effects  
 NT2 lyoluminescence  
 NT2 radiation curing  
 NT2 radiolysis  
 NT3 autoradiolysis

**NT1** cumulative radiation effects  
**NT1** physical radiation effects  
**NT2** atomic displacements  
**NT2** interstitial helium generation  
**NT2** interstitial hydrogen generation  
**NT2** radiation hardening  
*RT* biological localization  
*RT* biophysics  
*RT* blisters  
*RT* comparative evaluations  
*RT* crystal defects  
*RT* damage  
*RT* dose rates  
*RT* dose-response relationships  
*RT* energy losses  
*RT* irradiation  
*RT* photoacoustic effect  
*RT* radiation doses  
*RT* radiation quality  
*RT* radiations  
*RT* radiobiology  
*RT* radiosensitivity  
*RT* rbe  
*RT* recoils  
*RT* response modifying factors  
*RT* self-irradiation  
*RT* strand breaks  
*RT* thermal spikes  
*RT* wigner effect

**RADIATION EQUIVALENCE**

*INIS: 2000-04-12; ETDE: 1981-01-27*

*The biological effect of a mutagen or carcinogen expressed in terms of the dose of ionizing radiation needed to produce a similar effect.*

*RT* carcinogens  
*RT* genetic effects  
*RT* mutagens

**radiation exposure (doses)**

*USE* radiation doses

**RADIATION FLUX**

*UF* flux (radiation)

**NT1** cosmic ray flux

**NT1** neutron flux

**NT2** adjacent flux

**NT1** solar flux

**NT2** diffuse solar radiation

**NT2** direct solar radiation

*RT* flux density

*RT* point kernels

*RT* poynting theorem

**RADIATION HARDENING**

**BT1** hardening

**\*BT1** physical radiation effects

**radiation hardening (chemical)**

*USE* chemical radiation effects

*USE* polymerization

**RADIATION HAZARDS**

**\*BT1** health hazards

*RT* alara

*RT* fallout

*RT* fission product release

*RT* fuel element failure

*RT* genetically significant dose

*RT* hot labs

*RT* icrp critical group

*RT* irradiation

*RT* radiation protection

*RT* radiation protection laws

*RT* radioactive wastes

*RT* release limits

*RT* somatically significant dose

*RT* unscar

**RADIATION HEATING**

*Component or materials heating by incident nuclear radiation.*

*UF* gamma heating

*UF* neutron heating

**BT1** heating

**radiation hygiene**

*USE* radiation protection

**RADIATION INDUCED MUTANTS**

*INIS: 1978-02-23; ETDE: 1986-01-03*

**BT1** mutants

*RT* animal breeding

*RT* plant breeding

**RADIATION INJURIES**

*1998-02-16*

*For damage to molecules of biological significance use CHEMICAL RADIATION EFFECTS or STRAND BREAKS.*

*UF* damage (radiation, biological)

*UF* delayed radiation injuries

*UF* early radiation injuries

*UF* radiation damage (biological)

**\*BT1** biological radiation effects

**\*BT1** injuries

**NT1** osteoradionecrosis

**NT1** radiation burns

**NT1** radiodermatitis

*RT* biological indicators

*RT* biological repair

*RT* dna damages

*RT* host-cell reactivation

*RT* photoreactivation

*RT* radiation syndrome

*RT* radiobiology

*RT* radioinduction

*RT* strand breaks

**RADIATION LENGTH**

*1999-07-20*

**\*BT1** length

*RT* bremsstrahlung

*RT* charged particle detection

*RT* energy losses

*RT* half-thickness

*RT* thickness

**radiation logging**

*INIS: 2000-04-12; ETDE: 1976-06-07*

*USE* radioactivity logging

**RADIATION MONITORING**

*UF* control (radioactivity)

*UF* monitoring (radiation)

*UF* surveillance (radioactivity)

*UF* survey (radioactivity)

**BT1** monitoring

**NT1** personnel monitoring

*RT* aerial monitoring

*RT* aerosol monitoring

*RT* alarm systems

*RT* controlled areas

*RT* dosimeters

*RT* dosimetry

*RT* exposure ratemeters

*RT* inspection

*RT* radiation detection

*RT* radiation protection

*RT* radioactivity

*RT* radioassay

*RT* site characterization

**RADIATION MONITORS**

*UF* alarm dosimeters

*UF* monitors (radiation)

**\*BT1** monitors

**NT1** exposure ratemeters

**NT1** liquid contamination monitors

**NT1** neutron monitors

**NT1** surface contamination monitors

**NT1** survey monitors

*RT* air samplers

*RT* alarm systems

*RT* dosimeters

*RT* radiation detectors

*RT* radioactivity

**RADIATION PRESSURE**

*UF* pressure (radiation)

*RT* electromagnetic radiation

*RT* solar wind

**RADIATION PROTECTION**

*1995-05-10*

*UF* health physics

*UF* nuclear safety

*UF* protection (radiation)

*UF* radiation hygiene

*UF* radiation safety

*UF* radiological protection

*UF* safety (nuclear)

*SF* alap

*RT* accidents

*RT* alara

*RT* annual limit of intake

*RT* biological shielding

*RT* biophysics

*RT* civil defense

*RT* containment

*RT* controlled areas

*RT* decontamination

*RT* distance

*RT* dosimetry

*RT* environment

*RT* ethical aspects

*RT* external irradiation

*RT* fallout

*RT* fallout shelters

*RT* federal radiation council

*RT* gloveboxes

*RT* gloves

*RT* half-thickness

*RT* health hazards

*RT* hot cells

*RT* hot labs

*RT* icrp

*RT* image intensifiers

*RT* industrial medicine

*RT* inspection

*RT* international convention on nuclear safety

*RT* international nuclear event scale

*RT* legal aspects

*RT* licensing

*RT* preventive medicine

*RT* protective clothing

*RT* public health

*RT* radiation hazards

*RT* radiation monitoring

*RT* radiation protection laws

*RT* radiation quality

*RT* radiation sources

*RT* radioprotective substances

*RT* reactor safety

*RT* recommendations

*RT* reference man

*RT* regulations

*RT* reliability

*RT* remedial action

*RT* remote handling

*RT* respirators

*RT* safety

*RT* safety showers

*RT* safety standards

*RT* shelters

*RT* shielding

*RT* shielding materials

*RT* shields

*RT* space flight

RT strahlenschutzkommission  
 RT television  
 RT usur  
 RT whole-body counting  
 RT working conditions

### ***radiation protection guides***

USE recommendations

### **RADIATION PROTECTION LAWS**

INIS: 1990-12-15; ETDE: 1976-11-01

(Prior to December 1990, this descriptor was spelled RADIATION PROTECTION LAW.)

BT1 laws  
 RT federal radiation council  
 RT radiation hazards  
 RT radiation protection  
 RT safety standards

### **RADIATION QUALITY**

For comparative studies on different types of radiation.

RT energy losses  
 RT half-thickness  
 RT ionization  
 RT let  
 RT quality factor  
 RT radiation effects  
 RT radiation protection  
 RT radiations  
 RT rbe

### ***radiation safety***

USE radiation protection

### **RADIATION SCATTERING**

#### **ANALYSIS**

\*BT1 nondestructive analysis  
 RT ion scattering analysis  
 RT radiometric analysis  
 RT scattering

### **RADIATION SOURCE IMPLANTS**

UF implanted sources  
 BT1 implants  
 BT1 radiation sources  
 RT afterloading  
 RT brachytherapy  
 RT internal irradiation  
 RT irradiation capsules  
 RT radiotherapy

### **RADIATION SOURCES**

For cosmic sources of radiation see also COSMIC GAMMA SOURCES, COSMIC RADIO SOURCES, and COSMIC X-RAY SOURCES.

UF applicators (radiotherapy)  
 UF radioapplicators  
 NT1 gamma sources  
 NT1 light sources  
 NT1 particle sources

NT2 alpha sources  
 NT2 antiproton sources  
 NT2 beta sources  
 NT2 deuteron sources  
 NT2 electron sources  
 NT3 pierce electron guns  
 NT2 neutron sources  
 NT3 neutron generators  
 NT3 nusus facility  
 NT2 positron sources  
 NT2 proton sources

NT1 point sources  
 NT1 portable sources  
 NT1 radiation source implants  
 NT1 sealed sources  
 NT1 synchrotron radiation sources  
 NT2 advanced light source  
 NT2 advanced photon source

NT2 european synchrotron radiation facility  
 NT2 indus-1  
 NT2 indus-2  
 NT2 kek photon factory  
 NT2 lnls storage ring  
 NT2 nsls  
 NT2 pohang light source  
 NT2 spring-8 storage ring  
 NT2 surf ii storage ring  
 NT2 swiss light source

NT1 unsealed sources  
 NT1 x-ray sources  
 RT containers  
 RT irradiation  
 RT irradiation devices  
 RT irradiation plants  
 RT lasers  
 RT masers  
 RT radiation protection  
 RT radiations  
 RT radioactivity  
 RT radioisotopes  
 RT well logging equipment

### **RADIATION STREAMING**

UF streaming (radiation)  
 RT radiations

### **RADIATION SYNDROME**

RT acute irradiation  
 RT autonomic nervous system  
 RT bone marrow  
 RT central nervous system  
 RT chronic irradiation  
 RT delayed radiation effects  
 RT gastrointestinal tract  
 RT latency period  
 RT lymphatic system  
 RT lymphocytes  
 RT muscles  
 RT radiation injuries

### **RADIATION TRANSPORT**

UF transport (radiation)  
 NT1 charged-particle transport  
 NT2 proton transport  
 NT1 neutral-particle transport  
 NT2 atom transport  
 NT2 neutron transport  
 NT2 photon transport  
 RT transport theory

### **RADIATIONLESS DECAY**

Emissionless transfer of excited-state energy from one quantum system to another, e.g. between atoms in gas mixtures.

UF radiationless transitions  
 \*BT1 de-excitation  
 BT1 energy transfer  
 RT fluorescence

### ***radiationless transitions***

INIS: 1984-04-04; ETDE: 2002-04-26

USE radiationless decay

### **RADIATIONS**

NT1 background radiation  
 NT1 delta rays  
 NT1 electromagnetic radiation  
 NT2 auroral hiss  
 NT2 blackbody radiation  
 NT2 bremsstrahlung  
 NT3 cyclotron radiation  
 NT3 internal bremsstrahlung  
 NT3 undulator radiation  
 NT3 synchrotron radiation  
 NT2 cherenkov radiation  
 NT2 coherent radiation  
 NT2 electromagnetic pulses  
 NT3 internal electromagnetic pulses

NT2 gamma radiation  
 NT3 delayed gamma radiation  
 NT3 prompt gamma radiation  
 NT2 helicon waves  
 NT2 infrared radiation  
 NT3 far infrared radiation  
 NT3 intermediate infrared radiation  
 NT3 near infrared radiation  
 NT2 laser radiation  
 NT2 microwave radiation  
 NT3 relict radiation  
 NT2 monochromatic radiation  
 NT2 multipole radiation  
 NT2 radiowave radiation  
 NT3 long wave radiation  
 NT3 medium wave radiation  
 NT3 radio noise  
 NT4 atmospherics  
 NT4 whistlers  
 NT3 radioecho  
 NT3 short wave radiation  
 NT3 solar radio bursts  
 NT3 solar radiowave radiation  
 NT2 thermal radiation  
 NT2 transition radiation  
 NT2 ultralow frequency radiation  
 NT2 ultraviolet radiation  
 NT3 extreme ultraviolet radiation  
 NT3 far ultraviolet radiation  
 NT3 near ultraviolet radiation  
 NT2 visible radiation  
 NT2 x radiation  
 NT3 hard x radiation  
 NT3 soft x radiation  
 NT2 zodiacal light  
 NT1 gravitational radiation  
 NT2 gravitons  
 NT1 ionizing radiations  
 NT2 alpha particles  
 NT3 cosmic alpha particles  
 NT3 delayed alpha particles  
 NT3 solar alpha particles  
 NT2 beta particles  
 NT2 cosmic radiation  
 NT3 cosmic neutrinos  
 NT3 cosmic photons  
 NT3 cosmic protons  
 NT3 hard component  
 NT3 primary cosmic radiation  
 NT4 cosmic alpha particles  
 NT4 cosmic gamma bursts  
 NT4 cosmic nuclei  
 NT4 cosmic x-ray bursts  
 NT3 secondary cosmic radiation  
 NT4 cosmic electrons  
 NT4 cosmic kaons  
 NT4 cosmic muons  
 NT4 cosmic neutrons  
 NT4 cosmic pions  
 NT4 cosmic positrons  
 NT4 cosmic showers  
 NT5 extensive air showers  
 NT3 soft component  
 NT2 gamma radiation  
 NT3 delayed gamma radiation  
 NT3 prompt gamma radiation  
 NT2 x radiation  
 NT3 hard x radiation  
 NT3 soft x radiation  
 NT1 stellar radiation  
 NT2 solar radiation  
 NT3 diffuse solar radiation  
 NT3 direct solar radiation  
 NT3 solar particles  
 NT4 solar alpha particles  
 NT4 solar electrons  
 NT4 solar neutrinos  
 NT4 solar neutrons  
 NT4 solar protons

**NT3** solar radiowave radiation  
**NT1** stray radiation  
*RT* absorption  
*RT* biophysics  
*RT* buildup  
*RT* dosimetry  
*RT* irradiation  
*RT* radiation detection  
*RT* radiation doses  
*RT* radiation effects  
*RT* radiation quality  
*RT* radiation sources  
*RT* radiation streaming

**radiative capture**

USE capture

**RADIATIVE COOLING**

*INIS: 1977-02-08; ETDE: 1975-10-01*

**BT1** cooling  
*RT* air conditioning  
*RT* radiant heat transfer  
*RT* solar air conditioning

**RADIATIVE CORRECTIONS**

**BT1** corrections  
*RT* electromagnetic interactions  
*RT* phi4-field theory  
*RT* quantum field theory

**RADIATIVE DECAY**

*INIS: 1980-09-12; ETDE: 1978-05-01*

*Weak or electromagnetic decay involving photons.*

**\*BT1** particle decay  
*RT* electromagnetic particle decay  
*RT* weak particle decay

**radiative transfer**

*INIS: 1984-04-04; ETDE: 2002-04-26*

*Energy transfer by radiation.*

USE radiant heat transfer

**RADIATOR COUNTERS**

*RT* activation detectors  
*RT* nuclear emulsions  
*RT* proton recoil detectors  
*RT* semiconductor detectors

**RADIATORS**

*Limited to heat radiators.*

**BT1** heat exchangers

**RADICALS**

*1996-07-08*

*Not to be used for chemical compounds.*

*UF free radicals*

**NT1** acyl radicals  
**NT2** acetyl radicals  
**NT2** formyl radicals  
**NT1** alkoxy radicals  
**NT2** butoxy radicals  
**NT2** ethoxy radicals  
**NT2** methoxy radicals  
**NT1** alkyl radicals  
**NT2** allyl radicals  
**NT2** butyl radicals  
**NT2** dodecyl radicals  
**NT2** ethyl radicals  
**NT2** heptyl radicals  
**NT2** hexyl radicals  
**NT2** isobutyl radicals  
**NT2** isopropyl radicals  
**NT2** methyl radicals  
**NT2** octyl radicals  
**NT2** pentyl radicals  
**NT2** propargyl radicals  
**NT2** propyl radicals  
**NT2** vinyl radicals  
**NT1** aryl radicals  
**NT2** benzyl radicals

**NT2** mesityl radicals  
**NT2** naphthyl radicals  
**NT2** phenethyl radicals  
**NT2** phenyl radicals  
**NT2** tolyl radicals  
**NT1** benzoyl radicals  
**NT1** carbenes  
**NT1** carbonyl radicals  
**NT1** carbynes  
**NT1** dpph  
**NT1** hydronium radicals  
**NT1** hydroperoxy radicals  
**NT1** hydroxyl radicals  
**NT1** methylene radicals  
**NT1** nitroxyl radicals  
**NT1** peroxy radicals  
**NT1** phenoxy radicals  
**NT1** phenylene radicals  
**NT1** picryl radicals  
**NT1** pyridyl radicals  
**NT1** sulfhydryl radicals  
**NT1** superoxide radicals  
**NT1** thyl radicals  
**NT1** vinylidene radicals  
*RT* reaction intermediates  
*RT* scavenging

**RADICIDATION**

*Use of irradiation to destroy microorganisms in food which are detrimental to health.*

*UF food irradiation (radiopasteurization)*

*UF radiopasteurization*

**BT1** irradiation

**\*BT1** pasteurization

*RT* food

*RT* health hazards

*RT* ifip

**RADIO EQUIPMENT**

*INIS: 1981-03-10; ETDE: 1976-12-16*

*UF radio receivers*

*UF radio transmitters*

**\*BT1** electronic equipment

**NT1** heterodyne receivers

**NT1** ionosondes

**NT1** radio telescopes

*RT* antennas

*RT* communications

*RT* microwave equipment

*RT* radar

*RT* radio equipment power supplies

*RT* radiowave radiation

*RT* rf systems

*RT* television

**RADIO EQUIPMENT POWER SUPPLIES**

*2000-04-12*

**\*BT1** power supplies

*RT* radio equipment

**radio frequency quadrupoles**

*INIS: 1991-10-09; ETDE: 2002-04-26*

USE quadrupole linacs

**RADIO GALAXIES**

**BT1** cosmic radio sources

**BT1** galaxies

*RT* quasars

**RADIO NOISE**

*UF cosmic noise*

**BT1** noise

**\*BT1** radiowave radiation

**NT1** atmospheric

**NT1** whistlers

*RT* background noise

*RT* interference

**radio receivers**

*INIS: 1981-03-10; ETDE: 1976-12-29*

USE radio equipment

**radio-receptor assay**

*INIS: 1984-04-04; ETDE: 2002-04-26*

USE radioreceptor assay

**RADIO-RELEASE ANALYSIS**

*Substance to be measured reacts chemically with a converter substance to release a radioactive material.*

*UF radiorelease analysis*

**\*BT1** quantitative chemical analysis

*RT* gas analysis

*RT* tracer techniques

**RADIO TELESCOPES**

**\*BT1** antennas

**\*BT1** radio equipment

**BT1** telescopes

*RT* interferometers

**radio transmitters**

*INIS: 1981-03-10; ETDE: 1976-12-29*

USE radio equipment

**RADIOACTIVATION**

*For activation cross sections see also INTEGRAL CROSS SECTIONS.*

*UF activation (radio)*

*RT* activation analysis

*RT* labelling

*RT* neutron capture therapy

*RT* neutron sources

**RADIOACTIVE AEROSOLS**

*UF radioactive particulates*

**\*BT1** aerosols

*RT* aerosol monitoring

*RT* fallout

*RT* particle resuspension

*RT* radioactive clouds

**radioactive biological wastes**

USE biological wastes

USE radioactive wastes

**RADIOACTIVE CLOUDS**

*UF atomic clouds*

**BT1** clouds

*RT* accidents

*RT* aerial monitoring

*RT* aerosols

*RT* air

*RT* earth atmosphere

*RT* external irradiation

*RT* fallout

*RT* nuclear explosions

*RT* radioactive aerosols

*RT* radioactivity

*RT* stacks

*RT* washout

*RT* wind

**radioactive decontamination**

*INIS: 1975-11-27; ETDE: 2002-04-26*

USE decontamination

**RADIOACTIVE EFFLUENTS**

*UF effluents (radioactive)*

**\*BT1** radioactive wastes

*RT* chemical effluents

*RT* gaseous wastes

*RT* liquid wastes

*RT* particle resuspension

*RT* radioactive waste disposal

*RT* stack disposal

**radioactive gaseous wastes**

USE gaseous wastes

USE radioactive wastes

**RADIOACTIVE ION BEAMS***INIS: 1992-02-26; ETDE: 1992-04-15*

- \*BT1 ion beams
- NT1 argon 39 beams
- NT1 beryllium 7 beams
- NT1 carbon 10 beams
- NT1 carbon 11 beams
- NT1 carbon 14 beams
- NT1 chlorine 39 beams
- NT1 helium 8 beams
- NT1 neon 19 beams
- NT1 nitrogen 13 beams
- NT1 sulfur 38 beams
- NT1 triton beams
- NT1 uranium 238 beams

**RADIOACTIVE IONIZATION GAGES**

- \*BT1 ionization gages

**RADIOACTIVE MATERIALS**

- BT1 materials
- NT1 fission products
- NT1 radioactive minerals
  - NT2 baddeleyite
  - NT2 corvusite
  - NT2 fersmite
  - NT2 kainosite
  - NT2 melanovanadite
  - NT2 pascoite
  - NT2 rutile
  - NT2 thorium minerals
    - NT3 allanite
    - NT3 bastnaesite
    - NT3 brannerite
    - NT3 ekanite
    - NT3 freyalite
    - NT3 hydrothorite
    - NT3 lodochnikite
    - NT3 lyndochite
    - NT3 mackintoshite
    - NT3 maitlandite
    - NT3 monazites
    - NT3 naegite
    - NT3 thorianite
    - NT3 thorite
      - NT4 jiningite
    - NT3 thucholite
    - NT3 uranothorite
- NT2 uranium minerals
  - NT3 autunite
  - NT3 bassetite
  - NT3 becquerelite
  - NT3 billietite
  - NT3 brannerite
  - NT3 carnotite
  - NT3 clarkeite
  - NT3 coffinite
  - NT3 compreignacite
  - NT3 dewindtite
  - NT3 diderichite
  - NT3 djalmaite
  - NT3 ekanite
  - NT3 ellsworthite
  - NT3 ferghanite
  - NT3 fourmarierite
  - NT3 gastunite
  - NT3 guilleminite
  - NT3 hallimondite
  - NT3 heinrichite
  - NT3 ianthinite
  - NT3 kahlerite
  - NT3 kirchheimerite
  - NT3 lodochnikite
  - NT3 mackintoshite
  - NT3 moctezumite
  - NT3 montroseite
  - NT3 naegite
  - NT3 natroautunite

- NT3 ningyoite
- NT3 novacekite
- NT3 para-schoepite
- NT3 ranquillite
- NT3 rauvite
- NT3 sabugalite
- NT3 saleeite
- NT3 schoepite
- NT3 sengierite
- NT3 sklodowskite
- NT3 soddyite
- NT3 thorianite
- NT3 thucholite
- NT3 torbernite
- NT3 tyuyamunite
- NT3 uraninites
  - NT4 broeggerite
  - NT4 pitchblende
- NT3 uranium black
- NT3 uranophane
- NT3 uranothorite
- NT3 vesuvianite
- NT1 radioactive wastes
  - NT2 alpha-bearing wastes
  - NT2 calcined wastes
  - NT2 high-level radioactive wastes
  - NT2 intermediate-level radioactive wastes
    - NT2 low-level radioactive wastes
  - NT2 radioactive effluents
  - NT2 waste forms
- NT1 radiopharmaceuticals
- RT radioactivity
- RT radioisotopes

**RADIOACTIVE MINERALS***1996-07-18*

- UF cordylite
- UF florencite
- BT1 minerals
- \*BT1 radioactive materials
- NT1 baddeleyite
- NT1 corvusite
- NT1 fersmite
- NT1 kainosite
- NT1 melanovanadite
- NT1 pascoite
- NT1 rutile
- NT1 thorium minerals
  - NT2 allanite
  - NT2 bastnaesite
  - NT2 brannerite
  - NT2 ekanite
  - NT2 freyalite
  - NT2 hydrothorite
  - NT2 lodochnikite
  - NT2 lyndochite
  - NT2 mackintoshite
  - NT2 maitlandite
  - NT2 monazites
  - NT2 naegite
  - NT2 thorianite
  - NT2 thorite
    - NT3 jiningite
  - NT2 thucholite
  - NT2 uranothorite
- NT1 uranium minerals
  - NT2 autunite
  - NT2 bassetite
  - NT2 becquerelite
  - NT2 billietite
  - NT2 brannerite
  - NT2 carnotite
  - NT2 clarkeite
  - NT2 coffinite
  - NT2 compreignacite
  - NT2 dewindtite
  - NT2 diderichite
  - NT2 djalmaite

- NT2 ekanite
- NT2 ellsworthite
- NT2 ferghanite
- NT2 fourmarierite
- NT2 gastunite
- NT2 guilleminite
- NT2 hallimondite
- NT2 heinrichite
- NT2 ianthinite
- NT2 kahlerite
- NT2 kirchheimerite
- NT2 lodochnikite
- NT2 mackintoshite
- NT2 moctezumite
- NT2 montroseite
- NT2 naegite
- NT2 natroautunite
- NT2 ningyoite
- NT2 novacekite
- NT2 para-schoepite
- NT2 ranquillite
- NT2 rauvite
- NT2 sabugalite
- NT2 saleeite
- NT2 schoepite
- NT2 sengierite
- NT2 sklodowskite
- NT2 soddyite
- NT2 thorianite
- NT2 thucholite
- NT2 torbernite
- NT2 tyuyamunite
- NT2 uraninites
  - NT3 broeggerite
  - NT3 pitchblende
- NT2 uranium black
- NT2 uranophane
- NT2 uranothorite
- NT2 vesuvianite

**radioactive particulates**

- USE particles
- USE radioactive aerosols

**RADIOACTIVE TRACER LOGGING***INIS: 1977-06-14; ETDE: 1976-06-07**Well logging using radioactive tracers for measuring fluid movement and for obtaining source and sink information.*

- \*BT1 radioactivity logging
- \*BT1 tracer techniques

**radioactive tracers***INIS: 2000-04-12; ETDE: 1981-05-18*

- SEE radiopharmaceuticals
- SEE tracer techniques

**RADIOACTIVE WASTE DISPOSAL***1997-06-19*

- \*BT1 radioactive waste management
- \*BT1 waste disposal
- RT actinide burner reactors
- RT backfilling
- RT biointrusion
- RT boom clay
- RT dalhart basin
- RT disposal wells
- RT environmental exposure pathway
- RT fission product release
- RT fuel cycle centers
- RT ground release
- RT marine disposal
- RT natural analogue
- RT novaya zemlya
- RT nuclear waste policy acts
- RT palo duro basin
- RT paradox basin
- RT pasco basin
- RT permian basin
- RT radioactive effluents

RT radioactive waste facilities  
 RT radioactive waste storage  
 RT radioactive wastes  
 RT salt caverns  
 RT salt deposits  
 RT shaft excavations  
 RT stack disposal  
 RT underground disposal  
 RT waste forms  
 RT waste-rock interactions  
 RT yucca mountain

**RADIOACTIVE WASTE FACILITIES**

BT1 nuclear facilities  
 NT1 asse salt mine  
 NT1 aube plant  
 NT1 bohunice radioactive waste processing center  
 NT1 gorleben salt dome  
 NT1 hades underground research facility  
 NT1 konrad ore mine  
 NT1 manche plant  
 NT1 mochovce radioactive waste repository  
 NT1 morsleben salt mine  
 NT1 pamela plant  
 NT1 vaalputs radioactive waste disposal facility  
 NT1 wipp  
 RT biointrusion  
 RT fuel cycle centers  
 RT fuel reprocessing plants  
 RT radioactive waste disposal  
 RT radioactive waste processing  
 RT radioactive wastes  
 RT storage facilities  
 RT waste retrieval

**RADIOACTIVE WASTE MANAGEMENT**

1990-11-07

\*BT1 waste management  
 NT1 radioactive waste disposal  
 NT1 radioactive waste processing  
 NT2 harvest process  
 NT1 radioactive waste storage  
 NT2 monitored retrievable storage  
 RT compact commissions  
 RT radioactive wastes  
 RT risk assessment

**radioactive waste policy acts**

INIS: 1985-09-09; ETDE: 2002-04-26

USE nuclear waste policy acts

**RADIOACTIVE WASTE PROCESSING**

UF aralex process  
 UF opix process  
 SF medec process  
 \*BT1 radioactive waste management  
 \*BT1 waste processing  
 NT1 harvest process  
 RT accelerator driven transmutation  
 RT calcination  
 RT calcined wastes  
 RT ceramic melters  
 RT encapsulation  
 RT fuel cycle centers  
 RT iodox process  
 RT pamela plant  
 RT radioactive waste facilities  
 RT radioactive wastes  
 RT slagging pyrolysis process  
 RT synroc process  
 RT vitrification  
 RT waste forms

**RADIOACTIVE WASTE STORAGE**

1996-04-16

\*BT1 radioactive waste management  
 \*BT1 waste storage  
 NT1 monitored retrievable storage  
 RT dry storage  
 RT fuel cycle centers  
 RT harvest process  
 RT radioactive waste disposal  
 RT us mrs project  
 RT wet storage

**RADIOACTIVE WASTES**

UF nuclear wastes  
 UF radioactive biological wastes  
 UF radioactive gaseous wastes  
 UF residues (radioactive)  
 \*BT1 radioactive materials  
 BT1 wastes  
 NT1 alpha-bearing wastes  
 NT1 calcined wastes  
 NT1 high-level radioactive wastes  
 NT1 intermediate-level radioactive wastes  
 NT1 low-level radioactive wastes  
 NT1 radioactive effluents  
 NT1 waste forms  
 RT contamination  
 RT fission products  
 RT fissionable materials  
 RT ground disposal  
 RT mill tailings  
 RT nuclear materials management  
 RT nuclear waste policy acts  
 RT radiation hazards  
 RT radioactive waste disposal  
 RT radioactive waste facilities  
 RT radioactive waste management  
 RT radioactive waste processing  
 RT radiocolloids  
 RT radioisotope heat sources  
 RT release limits  
 RT salt vault project  
 RT spent fuels  
 RT waste pellets  
 RT waste retrieval

**RADIOACTIVITY**

For measured values of radioactivity and for unidentified radiation sources.

UF concentrations (radionuclides)  
 UF induced radioactivity  
 UF radionuclide concentration  
 NT1 natural radioactivity  
 RT activity levels  
 RT annual limit of intake  
 RT body burden  
 RT contamination  
 RT hot labs  
 RT maximum inhalation quantity  
 RT maximum permissible activity  
 RT maximum permissible body burden  
 RT maximum permissible intake  
 RT maximum permissible level  
 RT personnel monitoring  
 RT radiation monitoring  
 RT radiation monitors  
 RT radiation sources  
 RT radioactive clouds  
 RT radioactive materials  
 RT radioassay  
 RT radioecological concentration  
 RT radioisotopes  
 RT radiometric analysis  
 RT radionuclide kinetics  
 RT residence half-time  
 RT surface contamination  
 RT whole-body counting

**RADIOACTIVITY LOGGING**

INIS: 1976-10-29; ETDE: 1976-06-07

Well logging using either natural or induced nuclear radiation.

UF nuclear log  
 UF radiation logging  
 BT1 well logging  
 NT1 gamma-gamma logging  
 NT1 gamma logging  
 NT1 neutron logging  
 NT2 neutron-gamma logging  
 NT2 neutron-neutron logging  
 NT1 radioactive tracer logging  
 NT1 x-ray fluorescence logging  
 RT radiometric surveys

**RADIOACTIVITY TRANSPORT**

INIS: 1976-05-07; ETDE: 1976-08-24

The processes by which radioactive materials move and become deposited throughout a reactor system.

UF activity transport  
 RT contamination

**radioapplicators**

USE radiation sources

**RADIOASSAY**

The measurement of radioactive samples including the identification of unknown samples and the determination of activity or energy.

NT1 radioimmunodetection  
 NT2 radioimmunoassay  
 NT2 radioimmunoscintigraphy  
 NT1 radioreceptor assay  
 RT bioassay  
 RT counting techniques  
 RT qualitative chemical analysis  
 RT radiation monitoring  
 RT radioactivity  
 RT radioenzymatic assay  
 RT spectroscopy

**RADIOASTRONOMY**

BT1 astronomy  
 RT cosmic radio sources  
 RT ghz range  
 RT mhz range  
 RT solar radio bursts

**radioautography**

USE autoradiography

**radiobiological effects**

USE biological radiation effects

**RADIOBIOLOGY**

BT1 biology  
 RT biological radiation effects  
 RT biophysics  
 RT molecular biology  
 RT radiation effects  
 RT radiation injuries  
 RT radioinduction  
 RT radiosensitivity  
 RT tracer techniques

**radiocarbon dating**

USE carbon 14  
 USE isotope dating

**RADIOCARDIOGRAPHY**

\*BT1 cardiology

**radiochemical activation analysis**

INIS: 1993-11-09; ETDE: 2002-04-26

Use one of the narrower terms of the descriptor below if appropriate.

USE activation analysis

**RADIOCHEMICAL ANALYSIS**

1994-10-13

*Quantitative analysis based on a combination of radiochemical and radiometric techniques.*  
(Until October 1994 this concept was indexed to RADIOMETRIC ANALYSIS.)

\*BT1 quantitative chemical analysis  
RT radiometric analysis

**radiochemical laboratories**

USE hot labs

**RADIOCHEMISTRY**

*The chemistry of radioactive materials. Not to be used for RADIATION CHEMISTRY.*

UF reactor chemistry  
BT1 chemistry  
NT1 hot atom chemistry  
NT2 szilard-chalmers reaction  
RT emanation method  
RT nuclear chemistry  
RT radiation chemistry

**RADIOCHROMATOGRAPHY**

\*BT1 chromatography

**RADIOCOLLOIDS**

\*BT1 colloids  
NT1 thorotrast  
RT gold 198  
RT isotope applications  
RT radioactive wastes  
RT radiopharmaceuticals

**radiocrystallography**

USE crystallography

**radiodecomposition**

ETDE: 2002-04-26

USE radiolysis

**RADIODERMATITIS**

\*BT1 dermatitis  
\*BT1 local radiation effects  
\*BT1 radiation injuries  
RT radiation burns

**radiodiagnosis (radionuclides)**

USE diagnosis  
USE nuclear medicine

**RADIODISINFESTATION**

1980-12-02

BT1 disinfestation  
BT1 irradiation  
RT grain disinfestation  
RT insects  
RT radiosterilization

**RADIOECHO**

\*BT1 radiowave radiation

**RADIOECOLOGICAL CONCENTRATION**

UF accumulation (radioecological)  
BT1 ecological concentration  
RT biological localization  
RT buildup  
RT concentration ratio  
RT contamination  
RT ecosystems  
RT environmental transport  
RT food chains  
RT radioactivity  
RT radionuclide migration

**RADIOECOLOGY**

BT1 ecology  
RT radionuclide migration

**radioelectric cells**

ETDE: 2002-04-26

USE direct collection converters

**RADIOENZYMATIC ASSAY**

INIS: 1981-09-17; ETDE: 1981-10-24

RT enzymes  
RT labelled compounds  
RT quantitative chemical analysis  
RT radioassay

**radiofrequency systems**

USE rf systems

**radiographs**

USE images

**radiography (auto)**

USE autoradiography

**radiography (biomedical)**

USE biomedical radiography

**radiography (industrial)**

USE industrial radiography

**radiography (micro)**

INIS: 1983-03-15; ETDE: 1975-10-01

USE microradiography

**RADIOIMMUNOASSAY**

UF ria (radioimmunoassay)  
\*BT1 immunoassay  
\*BT1 radioimmunodetection  
RT antibodies  
RT antigen-antibody reactions  
RT antigens  
RT cpb  
RT labelled compounds  
RT radioimmunology  
RT radioimmunoscintigraphy  
RT radioisotopes

**RADIOIMMUNODETECTION**

INIS: 1995-01-09; ETDE: 1990-01-23

BT1 diagnostic techniques  
BT1 radioassay  
\*BT1 tracer techniques  
NT1 radioimmunoassay  
NT1 radioimmunoscintigraphy  
RT antibodies  
RT labelled compounds  
RT neoplasms

**RADIOIMMUNOLOGY**

BT1 immunology  
RT biological radiation effects  
RT grafts  
RT immunity  
RT irradiation  
RT radioimmunoassay  
RT radioimmunotherapy  
RT therapy

**RADIOIMMUNOSCINTIGRAPHY**

INIS: 1995-01-09; ETDE: 1987-10-22

*The in vivo use of radiolabelled antibodies to visualize particular biological structures, especially diagnostic use in medicine.*

\*BT1 radioimmunodetection  
\*BT1 scintiscanning  
RT monoclonal antibodies  
RT radioimmunoassay  
RT radioimmunotherapy

**RADIOIMMUNOTHERAPY**

INIS: 1994-02-28; ETDE: 1986-01-14

(Until March 1994 this concept was indexed by RADIOTHERAPY and IMMUNOTHERAPY.)

\*BT1 immunotherapy  
\*BT1 radiotherapy

RT antibodies  
RT monoclonal antibodies  
RT radioimmunology  
RT radioimmunoscintigraphy

**radioinduced reactions**

USE chemical radiation effects

**RADIOINDUCTION**

1994-08-26

(Until August 1994 this concept was indexed by RADIATION EFFECTS.)

RT biological radiation effects  
RT radiation injuries  
RT radiobiology

**RADIOISOTOPE BATTERIES**

UF batteries (isotopic)  
BT1 direct energy converters  
NT1 snap batteries  
NT2 snap 19 battery  
NT2 snap 27 battery  
NT2 snap 9 battery  
RT cardiac pacemakers  
RT direct collection converters  
RT mechanical heart  
RT radioisotope heat sources  
RT radioisotopes  
RT spacecraft power supplies  
RT thermoelectric generators

**RADIOISOTOPE GENERATORS**

UF cow-milkers  
UF generators (radioisotope)  
RT cesium 137  
RT daughter products  
RT decay  
RT diagnostic techniques  
RT germanium 68  
RT half-life  
RT isotope production  
RT isotope separation  
RT magnesium 28  
RT molybdenum 99  
RT strontium 90  
RT tellurium 132  
RT tin 113  
RT yttrium 87

**RADIOISOTOPE HEAT SOURCES**

UF heat sources (radioisotope)  
BT1 heat sources  
RT energy  
RT radioactive wastes  
RT radioisotope batteries  
RT thermoelectric generators

**radioisotope kinetics**

USE radionuclide kinetics

**radioisotope-labelled drugs**

INIS: 2000-04-12; ETDE: 1981-05-18

USE radiopharmaceuticals

**radioisotope migration**

USE radionuclide migration

**RADIOISOTOPE SCANNERS**

UF scanners (radioisotope)  
RT gamma cameras  
RT image processing  
RT image scanners  
RT images  
RT positron cameras  
RT radiation detectors  
RT radioisotope scanning

**RADIOISOTOPE SCANNING**

UF scanning (radioisotope)  
BT1 counting techniques  
NT1 scintiscanning  
NT2 radioimmunoscintigraphy



RT cameras  
 RT ecat scanning  
 RT emission computed tomography  
 RT gamma detection  
 RT nuclear medicine  
 RT positron computed tomography  
 RT radioisotope scanners  
 RT single photon emission computed tomography  
 RT tomography

**RADIOISOTOPES**

UF radionuclides

BT1 isotopes

NT1 alpha decay radioisotopes

NT2 actinium 207  
 NT2 actinium 208  
 NT2 actinium 209  
 NT2 actinium 210  
 NT2 actinium 211  
 NT2 actinium 212  
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 NT2 actinium 227  
 NT2 americium 232  
 NT2 americium 237  
 NT2 americium 238  
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 NT2 americium 241  
 NT2 americium 242  
 NT2 americium 243  
 NT2 astatine 191  
 NT2 astatine 193  
 NT2 astatine 194  
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 NT2 astatine 219  
 NT2 astatine 220  
 NT2 berkelium 243  
 NT2 berkelium 244  
 NT2 berkelium 245  
 NT2 berkelium 247  
 NT2 berkelium 249  
 NT2 beryllium 8  
 NT2 bismuth 186

NT2 bismuth 188  
 NT2 bismuth 189  
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 NT2 bismuth 191  
 NT2 bismuth 192  
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 NT2 bismuth 203  
 NT2 bismuth 210  
 NT2 bismuth 211  
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 NT2 bismuth 213  
 NT2 bismuth 214  
 NT2 bohrium 261  
 NT2 bohrium 262  
 NT2 bohrium 264  
 NT2 bohrium 265  
 NT2 bohrium 271  
 NT2 boron 9  
 NT2 californium 239  
 NT2 californium 240  
 NT2 californium 241  
 NT2 californium 242  
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 NT2 californium 254  
 NT2 curium 236  
 NT2 curium 237  
 NT2 curium 238  
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 NT2 curium 243  
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 NT2 curium 248  
 NT2 curium 250  
 NT2 darmstadtium 269  
 NT2 darmstadtium 270  
 NT2 darmstadtium 271  
 NT2 dubnium 255  
 NT2 dubnium 256  
 NT2 dubnium 257  
 NT2 dubnium 258  
 NT2 dubnium 260  
 NT2 dubnium 261  
 NT2 dubnium 262  
 NT2 dubnium 263  
 NT2 dysprosium 150  
 NT2 dysprosium 151  
 NT2 dysprosium 152  
 NT2 dysprosium 153  
 NT2 dysprosium 154  
 NT2 einsteinium 243  
 NT2 einsteinium 244  
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 NT2 einsteinium 251  
 NT2 einsteinium 252  
 NT2 einsteinium 253

NT2 einsteinium 254  
 NT2 einsteinium 255  
 NT2 element 112 277  
 NT2 erbium 152  
 NT2 erbium 153  
 NT2 erbium 154  
 NT2 erbium 155  
 NT2 europium 147  
 NT2 europium 148  
 NT2 fermium 243  
 NT2 fermium 245  
 NT2 fermium 246  
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 NT2 francium 199  
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 NT2 francium 222  
 NT2 francium 223  
 NT2 gadolinium 148  
 NT2 gadolinium 149  
 NT2 gadolinium 150  
 NT2 gadolinium 151  
 NT2 gadolinium 152  
 NT2 gold 171  
 NT2 gold 172  
 NT2 gold 173  
 NT2 gold 174  
 NT2 gold 175  
 NT2 gold 176  
 NT2 gold 177  
 NT2 gold 178  
 NT2 gold 179  
 NT2 gold 181  
 NT2 gold 183  
 NT2 gold 184  
 NT2 gold 185  
 NT2 hafnium 156  
 NT2 hafnium 157  
 NT2 hafnium 158  
 NT2 hafnium 159  
 NT2 hafnium 160  
 NT2 hafnium 161  
 NT2 hafnium 162  
 NT2 hafnium 174  
 NT2 hassium 264  
 NT2 hassium 265  
 NT2 hassium 266  
 NT2 hassium 267  
 NT2 hassium 270

NT2	hassium 271	NT2	neptunium 229	NT2	polonium 204
NT2	helium 5	NT2	neptunium 230	NT2	polonium 205
NT2	holmium 151	NT2	neptunium 231	NT2	polonium 206
NT2	holmium 152	NT2	neptunium 233	NT2	polonium 207
NT2	holmium 153	NT2	neptunium 235	NT2	polonium 208
NT2	holmium 154	NT2	neptunium 237	NT2	polonium 209
NT2	holmium 155	NT2	nobelium 251	NT2	polonium 210
NT2	iodine 108	NT2	nobelium 252	NT2	polonium 211
NT2	iodine 111	NT2	nobelium 253	NT2	polonium 212
NT2	iridium 166	NT2	nobelium 254	NT2	polonium 213
NT2	iridium 167	NT2	nobelium 255	NT2	polonium 214
NT2	iridium 168	NT2	nobelium 256	NT2	polonium 215
NT2	iridium 169	NT2	nobelium 257	NT2	polonium 216
NT2	iridium 170	NT2	nobelium 259	NT2	polonium 217
NT2	iridium 171	NT2	nobelium 260	NT2	polonium 218
NT2	iridium 172	NT2	osmium 162	NT2	promethium 145
NT2	iridium 173	NT2	osmium 163	NT2	protactinium 212
NT2	iridium 174	NT2	osmium 164	NT2	protactinium 213
NT2	iridium 175	NT2	osmium 165	NT2	protactinium 214
NT2	iridium 176	NT2	osmium 166	NT2	protactinium 215
NT2	iridium 177	NT2	osmium 167	NT2	protactinium 216
NT2	lawrencium 252	NT2	osmium 168	NT2	protactinium 217
NT2	lawrencium 253	NT2	osmium 169	NT2	protactinium 218
NT2	lawrencium 254	NT2	osmium 170	NT2	protactinium 219
NT2	lawrencium 255	NT2	osmium 171	NT2	protactinium 220
NT2	lawrencium 256	NT2	osmium 172	NT2	protactinium 221
NT2	lawrencium 257	NT2	osmium 173	NT2	protactinium 222
NT2	lawrencium 258	NT2	osmium 174	NT2	protactinium 223
NT2	lawrencium 259	NT2	osmium 186	NT2	protactinium 224
NT2	lawrencium 260	NT2	platinum 168	NT2	protactinium 225
NT2	lead 180	NT2	platinum 169	NT2	protactinium 226
NT2	lead 182	NT2	platinum 170	NT2	protactinium 227
NT2	lead 183	NT2	platinum 171	NT2	protactinium 228
NT2	lead 184	NT2	platinum 172	NT2	protactinium 229
NT2	lead 185	NT2	platinum 173	NT2	protactinium 230
NT2	lead 186	NT2	platinum 174	NT2	protactinium 231
NT2	lead 187	NT2	platinum 175	NT2	radium 205
NT2	lead 188	NT2	platinum 176	NT2	radium 206
NT2	lead 189	NT2	platinum 177	NT2	radium 207
NT2	lead 190	NT2	platinum 178	NT2	radium 208
NT2	lead 191	NT2	platinum 179	NT2	radium 209
NT2	lead 192	NT2	platinum 180	NT2	radium 210
NT2	lead 210	NT2	platinum 181	NT2	radium 211
NT2	lithium 5	NT2	platinum 182	NT2	radium 212
NT2	lutetium 155	NT2	platinum 183	NT2	radium 213
NT2	lutetium 156	NT2	platinum 184	NT2	radium 214
NT2	lutetium 157	NT2	platinum 185	NT2	radium 215
NT2	lutetium 158	NT2	platinum 186	NT2	radium 216
NT2	lutetium 159	NT2	platinum 188	NT2	radium 217
NT2	meitnerium 266	NT2	platinum 190	NT2	radium 218
NT2	meitnerium 268	NT2	plutonium 228	NT2	radium 219
NT2	mendelevium 247	NT2	plutonium 229	NT2	radium 220
NT2	mendelevium 248	NT2	plutonium 230	NT2	radium 221
NT2	mendelevium 249	NT2	plutonium 232	NT2	radium 222
NT2	mendelevium 250	NT2	plutonium 233	NT2	radium 223
NT2	mendelevium 251	NT2	plutonium 234	NT2	radium 224
NT2	mendelevium 255	NT2	plutonium 235	NT2	radium 226
NT2	mendelevium 256	NT2	plutonium 236	NT2	radon 197
NT2	mendelevium 257	NT2	plutonium 237	NT2	radon 199
NT2	mendelevium 258	NT2	plutonium 238	NT2	radon 200
NT2	mendelevium 259	NT2	plutonium 239	NT2	radon 201
NT2	mercury 175	NT2	plutonium 240	NT2	radon 202
NT2	mercury 176	NT2	plutonium 241	NT2	radon 203
NT2	mercury 177	NT2	plutonium 242	NT2	radon 204
NT2	mercury 178	NT2	plutonium 244	NT2	radon 205
NT2	mercury 179	NT2	polonium 188	NT2	radon 206
NT2	mercury 180	NT2	polonium 190	NT2	radon 207
NT2	mercury 181	NT2	polonium 192	NT2	radon 208
NT2	mercury 182	NT2	polonium 193	NT2	radon 209
NT2	mercury 183	NT2	polonium 194	NT2	radon 210
NT2	mercury 184	NT2	polonium 195	NT2	radon 211
NT2	mercury 185	NT2	polonium 196	NT2	radon 212
NT2	mercury 186	NT2	polonium 197	NT2	radon 213
NT2	mercury 187	NT2	polonium 198	NT2	radon 214
NT2	mercury 188	NT2	polonium 199	NT2	radon 215
NT2	neodymium 144	NT2	polonium 200	NT2	radon 216
NT2	neptunium 225	NT2	polonium 201	NT2	radon 217
NT2	neptunium 226	NT2	polonium 202	NT2	radon 218
NT2	neptunium 227	NT2	polonium 203	NT2	radon 219

NT2	radon 220	NT2	tungsten 158	NT3	argon 45
NT2	radon 221	NT2	tungsten 159	NT3	argon 46
NT2	radon 222	NT2	tungsten 160	NT3	arsenic 74
NT2	rhennium 161	NT2	tungsten 161	NT3	arsenic 76
NT2	rhennium 162	NT2	tungsten 162	NT3	arsenic 77
NT2	rhennium 163	NT2	tungsten 163	NT3	arsenic 78
NT2	rhennium 164	NT2	tungsten 164	NT3	arsenic 79
NT2	rhennium 165	NT2	tungsten 165	NT3	arsenic 80
NT2	rhennium 166	NT2	tungsten 166	NT3	arsenic 81
NT2	rhennium 167	NT2	uranium 218	NT3	arsenic 82
NT2	rhennium 168	NT2	uranium 219	NT3	arsenic 83
NT2	rhennium 169	NT2	uranium 222	NT3	arsenic 84
NT2	roentgenium 272	NT2	uranium 223	NT3	arsenic 85
NT2	roentgenium 279	NT2	uranium 224	NT3	arsenic 86
NT2	roentgenium 280	NT2	uranium 225	NT3	arsenic 87
NT2	rutherfordium 253	NT2	uranium 226	NT3	astatine 217
NT2	rutherfordium 254	NT2	uranium 227	NT3	astatine 218
NT2	rutherfordium 255	NT2	uranium 228	NT3	astatine 219
NT2	rutherfordium 256	NT2	uranium 229	NT3	astatine 220
NT2	rutherfordium 257	NT2	uranium 230	NT3	astatine 221
NT2	rutherfordium 258	NT2	uranium 231	NT3	astatine 222
NT2	rutherfordium 259	NT2	uranium 232	NT3	astatine 223
NT2	rutherfordium 261	NT2	uranium 233	NT3	barium 139
NT2	samarium 146	NT2	uranium 234	NT3	barium 140
NT2	samarium 147	NT2	uranium 235	NT3	barium 141
NT2	samarium 148	NT2	uranium 236	NT3	barium 142
NT2	seaborgium 259	NT2	uranium 238	NT3	barium 143
NT2	seaborgium 260	NT2	xenon 110	NT3	barium 144
NT2	seaborgium 261	NT2	xenon 111	NT3	barium 145
NT2	seaborgium 262	NT2	xenon 112	NT3	barium 146
NT2	seaborgium 263	NT2	ytterbium 154	NT3	barium 147
NT2	seaborgium 265	NT2	ytterbium 155	NT3	barium 148
NT2	seaborgium 266	NT2	ytterbium 156	NT3	barium 149
NT2	tantalum 157	NT2	ytterbium 157	NT3	berkelium 248
NT2	tantalum 158	NT2	ytterbium 158	NT3	berkelium 249
NT2	tantalum 159	NT1	beta decay radioisotopes	NT3	berkelium 250
NT2	tantalum 160	NT2	beta-minus decay radioisotopes	NT3	berkelium 251
NT2	tantalum 161	NT3	actinium 226	NT3	beryllium 10
NT2	tantalum 163	NT3	actinium 227	NT3	beryllium 11
NT2	tantalum 164	NT3	actinium 228	NT3	beryllium 12
NT2	tellurium 106	NT3	actinium 229	NT3	beryllium 14
NT2	tellurium 107	NT3	actinium 230	NT3	bismuth 210
NT2	tellurium 108	NT3	actinium 231	NT3	bismuth 211
NT2	tellurium 109	NT3	actinium 232	NT3	bismuth 212
NT2	tellurium 110	NT3	actinium 233	NT3	bismuth 213
NT2	terbium 149	NT3	actinium 234	NT3	bismuth 214
NT2	terbium 151	NT3	aluminium 28	NT3	bismuth 215
NT2	thallium 179	NT3	aluminium 29	NT3	bismuth 216
NT2	thallium 182	NT3	aluminium 30	NT3	boron 12
NT2	thallium 183	NT3	aluminium 31	NT3	boron 13
NT2	thallium 184	NT3	aluminium 32	NT3	boron 14
NT2	thallium 185	NT3	aluminium 34	NT3	boron 15
NT2	thallium 186	NT3	aluminium 36	NT3	boron 16
NT2	thallium 187	NT3	aluminium 37	NT3	boron 17
NT2	thorium 212	NT3	aluminium 40	NT3	boron 19
NT2	thorium 213	NT3	americium 242	NT3	bromine 80
NT2	thorium 214	NT3	americium 244	NT3	bromine 82
NT2	thorium 215	NT3	americium 245	NT3	bromine 83
NT2	thorium 216	NT3	americium 246	NT3	bromine 84
NT2	thorium 217	NT3	americium 247	NT3	bromine 85
NT2	thorium 218	NT3	antimony 122	NT3	bromine 86
NT2	thorium 219	NT3	antimony 124	NT3	bromine 87
NT2	thorium 220	NT3	antimony 125	NT3	bromine 88
NT2	thorium 221	NT3	antimony 126	NT3	bromine 89
NT2	thorium 222	NT3	antimony 127	NT3	bromine 90
NT2	thorium 223	NT3	antimony 128	NT3	bromine 91
NT2	thorium 224	NT3	antimony 129	NT3	bromine 92
NT2	thorium 225	NT3	antimony 130	NT3	bromine 93
NT2	thorium 226	NT3	antimony 131	NT3	cadmium 113
NT2	thorium 227	NT3	antimony 132	NT3	cadmium 115
NT2	thorium 228	NT3	antimony 133	NT3	cadmium 117
NT2	thorium 229	NT3	antimony 134	NT3	cadmium 118
NT2	thorium 230	NT3	antimony 135	NT3	cadmium 119
NT2	thorium 232	NT3	antimony 136	NT3	cadmium 120
NT2	thulium 153	NT3	argon 39	NT3	cadmium 121
NT2	thulium 154	NT3	argon 41	NT3	cadmium 122
NT2	thulium 155	NT3	argon 42	NT3	cadmium 123
NT2	thulium 156	NT3	argon 43	NT3	cadmium 124
NT2	thulium 157	NT3	argon 44	NT3	cadmium 125

NT3	cadmium 126	NT3	copper 72	NT3	germanium 80
NT3	cadmium 127	NT3	copper 73	NT3	germanium 81
NT3	cadmium 128	NT3	copper 74	NT3	germanium 82
NT3	cadmium 130	NT3	copper 75	NT3	germanium 83
NT3	calcium 45	NT3	copper 76	NT3	germanium 84
NT3	calcium 47	NT3	copper 77	NT3	germanium 85
NT3	calcium 49	NT3	copper 78	NT3	gold 196
NT3	calcium 50	NT3	copper 79	NT3	gold 198
NT3	calcium 51	NT3	curium 249	NT3	gold 199
NT3	calcium 52	NT3	curium 250	NT3	gold 200
NT3	calcium 53	NT3	curium 251	NT3	gold 201
NT3	californium 253	NT3	dysprosium 165	NT3	gold 202
NT3	californium 255	NT3	dysprosium 166	NT3	gold 203
NT3	carbon 14	NT3	dysprosium 167	NT3	gold 204
NT3	carbon 15	NT3	dysprosium 168	NT3	gold 205
NT3	carbon 16	NT3	dysprosium 169	NT3	hafnium 181
NT3	carbon 17	NT3	einsteinium 254	NT3	hafnium 182
NT3	carbon 18	NT3	einsteinium 255	NT3	hafnium 183
NT3	cerium 141	NT3	einsteinium 256	NT3	hafnium 184
NT3	cerium 143	NT3	erbium 169	NT3	helium 6
NT3	cerium 144	NT3	erbium 171	NT3	helium 7
NT3	cerium 145	NT3	erbium 172	NT3	helium 8
NT3	cerium 146	NT3	erbium 173	NT3	holmium 164
NT3	cerium 147	NT3	erbium 174	NT3	holmium 166
NT3	cerium 148	NT3	erbium 175	NT3	holmium 167
NT3	cerium 149	NT3	europium 150	NT3	holmium 168
NT3	cerium 150	NT3	europium 152	NT3	holmium 169
NT3	cerium 151	NT3	europium 154	NT3	holmium 170
NT3	cerium 152	NT3	europium 155	NT3	holmium 171
NT3	cesium 130	NT3	europium 156	NT3	holmium 172
NT3	cesium 132	NT3	europium 157	NT3	indium 112
NT3	cesium 134	NT3	europium 158	NT3	indium 114
NT3	cesium 135	NT3	europium 159	NT3	indium 115
NT3	cesium 136	NT3	europium 160	NT3	indium 116
NT3	cesium 137	NT3	europium 161	NT3	indium 117
NT3	cesium 138	NT3	europium 162	NT3	indium 118
NT3	cesium 139	NT3	fluorine 20	NT3	indium 119
NT3	cesium 140	NT3	fluorine 21	NT3	indium 120
NT3	cesium 141	NT3	fluorine 22	NT3	indium 121
NT3	cesium 142	NT3	fluorine 23	NT3	indium 122
NT3	cesium 143	NT3	fluorine 24	NT3	indium 123
NT3	cesium 144	NT3	fluorine 25	NT3	indium 124
NT3	cesium 145	NT3	fluorine 26	NT3	indium 125
NT3	cesium 146	NT3	fluorine 27	NT3	indium 126
NT3	cesium 147	NT3	francium 220	NT3	indium 127
NT3	cesium 148	NT3	francium 222	NT3	indium 128
NT3	cesium 149	NT3	francium 223	NT3	indium 129
NT3	cesium 150	NT3	francium 224	NT3	indium 130
NT3	chlorine 36	NT3	francium 225	NT3	indium 131
NT3	chlorine 38	NT3	francium 226	NT3	indium 132
NT3	chlorine 39	NT3	francium 227	NT3	indium 133
NT3	chlorine 40	NT3	francium 228	NT3	indium 134
NT3	chlorine 41	NT3	francium 229	NT3	indium 135
NT3	chromium 55	NT3	francium 230	NT3	iodine 126
NT3	chromium 56	NT3	francium 231	NT3	iodine 128
NT3	chromium 57	NT3	gadolinium 159	NT3	iodine 129
NT3	chromium 58	NT3	gadolinium 161	NT3	iodine 130
NT3	chromium 59	NT3	gadolinium 162	NT3	iodine 131
NT3	chromium 60	NT3	gadolinium 163	NT3	iodine 132
NT3	chromium 62	NT3	gadolinium 164	NT3	iodine 133
NT3	chromium 63	NT3	gadolinium 165	NT3	iodine 134
NT3	chromium 64	NT3	gallium 70	NT3	iodine 135
NT3	chromium 65	NT3	gallium 72	NT3	iodine 136
NT3	chromium 66	NT3	gallium 73	NT3	iodine 137
NT3	cobalt 60	NT3	gallium 74	NT3	iodine 138
NT3	cobalt 61	NT3	gallium 75	NT3	iodine 139
NT3	cobalt 62	NT3	gallium 76	NT3	iodine 140
NT3	cobalt 63	NT3	gallium 77	NT3	iodine 141
NT3	cobalt 64	NT3	gallium 78	NT3	iodine 142
NT3	cobalt 65	NT3	gallium 79	NT3	iridium 192
NT3	cobalt 66	NT3	gallium 80	NT3	iridium 194
NT3	cobalt 67	NT3	gallium 81	NT3	iridium 195
NT3	copper 64	NT3	gallium 82	NT3	iridium 196
NT3	copper 66	NT3	gallium 83	NT3	iridium 197
NT3	copper 67	NT3	gallium 84	NT3	iridium 198
NT3	copper 68	NT3	germanium 75	NT3	iridium 199
NT3	copper 69	NT3	germanium 77	NT3	iron 59
NT3	copper 70	NT3	germanium 78	NT3	iron 60
NT3	copper 71	NT3	germanium 79	NT3	iron 61

NT3	iron 62	NT3	neodymium 151	NT3	phosphorus 35
NT3	iron 63	NT3	neodymium 152	NT3	phosphorus 36
NT3	iron 64	NT3	neodymium 153	NT3	phosphorus 37
NT3	krypton 85	NT3	neodymium 154	NT3	phosphorus 38
NT3	krypton 87	NT3	neodymium 155	NT3	phosphorus 40
NT3	krypton 88	NT3	neodymium 156	NT3	phosphorus 41
NT3	krypton 89	NT3	neon 23	NT3	phosphorus 42
NT3	krypton 90	NT3	neon 24	NT3	platinum 197
NT3	krypton 91	NT3	neon 25	NT3	platinum 199
NT3	krypton 92	NT3	neon 26	NT3	platinum 200
NT3	krypton 93	NT3	neon 27	NT3	platinum 201
NT3	krypton 94	NT3	neon 29	NT3	plutonium 241
NT3	krypton 95	NT3	neon 30	NT3	plutonium 243
NT3	krypton 97	NT3	neptunium 236	NT3	plutonium 245
NT3	lanthanum 138	NT3	neptunium 238	NT3	plutonium 246
NT3	lanthanum 140	NT3	neptunium 239	NT3	polonium 215
NT3	lanthanum 141	NT3	neptunium 240	NT3	polonium 218
NT3	lanthanum 142	NT3	neptunium 241	NT3	potassium 40
NT3	lanthanum 143	NT3	neptunium 242	NT3	potassium 42
NT3	lanthanum 144	NT3	neptunium 243	NT3	potassium 43
NT3	lanthanum 145	NT3	neptunium 244	NT3	potassium 44
NT3	lanthanum 146	NT3	neutron-rich isotopes	NT3	potassium 45
NT3	lanthanum 147	NT3	nickel 63	NT3	potassium 46
NT3	lanthanum 148	NT3	nickel 65	NT3	potassium 47
NT3	lanthanum 149	NT3	nickel 66	NT3	potassium 48
NT3	lanthanum 150	NT3	nickel 67	NT3	potassium 49
NT3	lead 209	NT3	nickel 69	NT3	potassium 50
NT3	lead 210	NT3	nickel 70	NT3	potassium 51
NT3	lead 211	NT3	nickel 71	NT3	potassium 52
NT3	lead 212	NT3	nickel 72	NT3	potassium 53
NT3	lead 213	NT3	nickel 73	NT3	potassium 54
NT3	lead 214	NT3	nickel 74	NT3	praseodymium 142
NT3	lithium 11	NT3	niobium 100	NT3	praseodymium 143
NT3	lithium 13	NT3	niobium 101	NT3	praseodymium 144
NT3	lithium 8	NT3	niobium 102	NT3	praseodymium 145
NT3	lithium 9	NT3	niobium 103	NT3	praseodymium 146
NT3	lutetium 176	NT3	niobium 104	NT3	praseodymium 147
NT3	lutetium 177	NT3	niobium 105	NT3	praseodymium 148
NT3	lutetium 178	NT3	niobium 106	NT3	praseodymium 149
NT3	lutetium 179	NT3	niobium 108	NT3	praseodymium 150
NT3	lutetium 180	NT3	niobium 94	NT3	praseodymium 151
NT3	lutetium 181	NT3	niobium 95	NT3	praseodymium 152
NT3	lutetium 182	NT3	niobium 96	NT3	praseodymium 153
NT3	lutetium 183	NT3	niobium 97	NT3	praseodymium 154
NT3	lutetium 184	NT3	niobium 98	NT3	promethium 146
NT3	lutetium 187	NT3	niobium 99	NT3	promethium 147
NT3	magnesium 27	NT3	nitrogen 16	NT3	promethium 148
NT3	magnesium 28	NT3	nitrogen 17	NT3	promethium 149
NT3	magnesium 29	NT3	nitrogen 18	NT3	promethium 150
NT3	magnesium 30	NT3	nitrogen 19	NT3	promethium 151
NT3	magnesium 31	NT3	nitrogen 20	NT3	promethium 152
NT3	magnesium 32	NT3	nitrogen 22	NT3	promethium 153
NT3	magnesium 33	NT3	nitrogen 23	NT3	promethium 154
NT3	magnesium 34	NT3	osmium 191	NT3	promethium 155
NT3	magnesium 40	NT3	osmium 193	NT3	promethium 156
NT3	manganese 56	NT3	osmium 194	NT3	promethium 157
NT3	manganese 57	NT3	osmium 195	NT3	promethium 158
NT3	manganese 58	NT3	osmium 196	NT3	protactinium 230
NT3	manganese 59	NT3	oxygen 19	NT3	protactinium 232
NT3	manganese 60	NT3	oxygen 20	NT3	protactinium 233
NT3	manganese 61	NT3	oxygen 21	NT3	protactinium 234
NT3	manganese 62	NT3	oxygen 22	NT3	protactinium 235
NT3	manganese 63	NT3	oxygen 23	NT3	protactinium 236
NT3	mercury 203	NT3	oxygen 24	NT3	protactinium 237
NT3	mercury 205	NT3	palladium 107	NT3	protactinium 238
NT3	mercury 206	NT3	palladium 109	NT3	protactinium 239
NT3	molybdenum 101	NT3	palladium 111	NT3	radium 225
NT3	molybdenum 102	NT3	palladium 112	NT3	radium 227
NT3	molybdenum 103	NT3	palladium 113	NT3	radium 228
NT3	molybdenum 104	NT3	palladium 114	NT3	radium 229
NT3	molybdenum 105	NT3	palladium 115	NT3	radium 230
NT3	molybdenum 106	NT3	palladium 116	NT3	radium 231
NT3	molybdenum 107	NT3	palladium 117	NT3	radium 232
NT3	molybdenum 108	NT3	palladium 118	NT3	radon 221
NT3	molybdenum 109	NT3	palladium 119	NT3	radon 223
NT3	molybdenum 110	NT3	palladium 120	NT3	radon 224
NT3	molybdenum 99	NT3	phosphorus 32	NT3	radon 225
NT3	neodymium 147	NT3	phosphorus 33	NT3	radon 226
NT3	neodymium 149	NT3	phosphorus 34	NT3	radon 227

NT3 radon 228	NT3 silicon 31	NT3 tellurium 129
NT3 rhenium 186	NT3 silicon 32	NT3 tellurium 131
NT3 rhenium 187	NT3 silicon 33	NT3 tellurium 132
NT3 rhenium 188	NT3 silicon 34	NT3 tellurium 133
NT3 rhenium 189	NT3 silicon 35	NT3 tellurium 134
NT3 rhenium 190	NT3 silicon 36	NT3 tellurium 135
NT3 rhenium 191	NT3 silicon 37	NT3 tellurium 136
NT3 rhenium 192	NT3 silicon 38	NT3 tellurium 137
NT3 rhodium 102	NT3 silicon 39	NT3 tellurium 138
NT3 rhodium 104	NT3 silver 108	NT3 terbium 156
NT3 rhodium 105	NT3 silver 110	NT3 terbium 158
NT3 rhodium 106	NT3 silver 111	NT3 terbium 160
NT3 rhodium 107	NT3 silver 112	NT3 terbium 161
NT3 rhodium 108	NT3 silver 113	NT3 terbium 162
NT3 rhodium 109	NT3 silver 114	NT3 terbium 163
NT3 rhodium 110	NT3 silver 115	NT3 terbium 164
NT3 rhodium 111	NT3 silver 116	NT3 terbium 165
NT3 rhodium 112	NT3 silver 117	NT3 terbium 166
NT3 rhodium 113	NT3 silver 118	NT3 thallium 204
NT3 rhodium 114	NT3 silver 119	NT3 thallium 206
NT3 rhodium 115	NT3 silver 120	NT3 thallium 207
NT3 rhodium 116	NT3 silver 121	NT3 thallium 208
NT3 rhodium 117	NT3 silver 122	NT3 thallium 209
NT3 rhodium 118	NT3 silver 123	NT3 thallium 210
NT3 rubidium 100	NT3 sodium 24	NT3 thorium 231
NT3 rubidium 84	NT3 sodium 25	NT3 thorium 233
NT3 rubidium 86	NT3 sodium 26	NT3 thorium 234
NT3 rubidium 87	NT3 sodium 27	NT3 thorium 235
NT3 rubidium 88	NT3 sodium 28	NT3 thorium 236
NT3 rubidium 89	NT3 sodium 29	NT3 thorium 237
NT3 rubidium 90	NT3 sodium 30	NT3 thulium 168
NT3 rubidium 91	NT3 sodium 31	NT3 thulium 170
NT3 rubidium 92	NT3 sodium 32	NT3 thulium 171
NT3 rubidium 93	NT3 sodium 33	NT3 thulium 172
NT3 rubidium 94	NT3 sodium 34	NT3 thulium 173
NT3 rubidium 95	NT3 sodium 35	NT3 thulium 174
NT3 rubidium 96	NT3 strontium 100	NT3 thulium 175
NT3 rubidium 97	NT3 strontium 101	NT3 thulium 176
NT3 rubidium 98	NT3 strontium 102	NT3 thulium 177
NT3 rubidium 99	NT3 strontium 89	NT3 tin 121
NT3 ruthenium 103	NT3 strontium 90	NT3 tin 123
NT3 ruthenium 105	NT3 strontium 91	NT3 tin 125
NT3 ruthenium 106	NT3 strontium 92	NT3 tin 126
NT3 ruthenium 107	NT3 strontium 93	NT3 tin 127
NT3 ruthenium 108	NT3 strontium 94	NT3 tin 128
NT3 ruthenium 109	NT3 strontium 95	NT3 tin 129
NT3 ruthenium 110	NT3 strontium 96	NT3 tin 130
NT3 ruthenium 111	NT3 strontium 97	NT3 tin 131
NT3 ruthenium 112	NT3 strontium 98	NT3 tin 132
NT3 ruthenium 113	NT3 strontium 99	NT3 tin 133
NT3 ruthenium 114	NT3 sulfur 35	NT3 tin 134
NT3 samarium 151	NT3 sulfur 37	NT3 tin 135
NT3 samarium 153	NT3 sulfur 38	NT3 tin 137
NT3 samarium 155	NT3 sulfur 39	NT3 titanium 51
NT3 samarium 156	NT3 sulfur 40	NT3 titanium 52
NT3 samarium 157	NT3 sulfur 43	NT3 titanium 53
NT3 samarium 158	NT3 tantalum 180	NT3 titanium 54
NT3 samarium 159	NT3 tantalum 182	NT3 titanium 55
NT3 samarium 160	NT3 tantalum 183	NT3 titanium 56
NT3 scandium 46	NT3 tantalum 184	NT3 titanium 58
NT3 scandium 47	NT3 tantalum 185	NT3 titanium 59
NT3 scandium 48	NT3 tantalum 186	NT3 titanium 60
NT3 scandium 49	NT3 technetium 100	NT3 tritium
NT3 scandium 50	NT3 technetium 101	NT3 tungsten 185
NT3 scandium 51	NT3 technetium 102	NT3 tungsten 187
NT3 scandium 52	NT3 technetium 103	NT3 tungsten 188
NT3 scandium 53	NT3 technetium 104	NT3 tungsten 189
NT3 scandium 57	NT3 technetium 105	NT3 uranium 237
NT3 scandium 58	NT3 technetium 106	NT3 uranium 239
NT3 selenium 79	NT3 technetium 107	NT3 uranium 240
NT3 selenium 81	NT3 technetium 108	NT3 uranium 241
NT3 selenium 83	NT3 technetium 109	NT3 uranium 242
NT3 selenium 84	NT3 technetium 110	NT3 vanadium 50
NT3 selenium 85	NT3 technetium 111	NT3 vanadium 52
NT3 selenium 86	NT3 technetium 112	NT3 vanadium 53
NT3 selenium 87	NT3 technetium 113	NT3 vanadium 54
NT3 selenium 88	NT3 technetium 98	NT3 vanadium 55
NT3 selenium 89	NT3 technetium 99	NT3 vanadium 56
NT3 selenium 91	NT3 tellurium 127	NT3 vanadium 57

NT3	vanadium 58	NT3	antimony 122	NT3	cesium 114
NT3	vanadium 61	NT3	argon 31	NT3	cesium 115
NT3	vanadium 62	NT3	argon 32	NT3	cesium 116
NT3	vanadium 63	NT3	argon 33	NT3	cesium 117
NT3	xenon 133	NT3	argon 34	NT3	cesium 118
NT3	xenon 135	NT3	argon 35	NT3	cesium 119
NT3	xenon 137	NT3	arsenic 66	NT3	cesium 120
NT3	xenon 138	NT3	arsenic 67	NT3	cesium 121
NT3	xenon 139	NT3	arsenic 68	NT3	cesium 122
NT3	xenon 140	NT3	arsenic 69	NT3	cesium 123
NT3	xenon 141	NT3	arsenic 70	NT3	cesium 124
NT3	xenon 142	NT3	arsenic 71	NT3	cesium 125
NT3	xenon 143	NT3	arsenic 72	NT3	cesium 126
NT3	xenon 144	NT3	arsenic 74	NT3	cesium 127
NT3	xenon 145	NT3	astatine 205	NT3	cesium 128
NT3	ytterbium 175	NT3	astatine 206	NT3	cesium 129
NT3	ytterbium 177	NT3	barium 114	NT3	cesium 130
NT3	ytterbium 178	NT3	barium 115	NT3	cesium 132
NT3	ytterbium 179	NT3	barium 116	NT3	chlorine 31
NT3	ytterbium 180	NT3	barium 117	NT3	chlorine 32
NT3	yttrium 100	NT3	barium 118	NT3	chlorine 33
NT3	yttrium 101	NT3	barium 119	NT3	chlorine 34
NT3	yttrium 102	NT3	barium 120	NT3	chlorine 36
NT3	yttrium 103	NT3	barium 121	NT3	chromium 42
NT3	yttrium 90	NT3	barium 122	NT3	chromium 45
NT3	yttrium 91	NT3	barium 123	NT3	chromium 46
NT3	yttrium 92	NT3	barium 124	NT3	chromium 47
NT3	yttrium 93	NT3	barium 125	NT3	chromium 49
NT3	yttrium 94	NT3	barium 126	NT3	cobalt 52
NT3	yttrium 95	NT3	barium 127	NT3	cobalt 53
NT3	yttrium 96	NT3	barium 129	NT3	cobalt 54
NT3	yttrium 97	NT3	bismuth 194	NT3	cobalt 55
NT3	yttrium 98	NT3	bismuth 197	NT3	cobalt 56
NT3	yttrium 99	NT3	bismuth 200	NT3	cobalt 58
NT3	zinc 69	NT3	bismuth 202	NT3	copper 56
NT3	zinc 71	NT3	bismuth 203	NT3	copper 57
NT3	zinc 72	NT3	bismuth 205	NT3	copper 58
NT3	zinc 73	NT3	bismuth 206	NT3	copper 59
NT3	zinc 74	NT3	bismuth 207	NT3	copper 60
NT3	zinc 75	NT3	boron 8	NT3	copper 61
NT3	zinc 76	NT3	bromine 69	NT3	copper 62
NT3	zinc 77	NT3	bromine 70	NT3	copper 64
NT3	zinc 78	NT3	bromine 71	NT3	curium 232
NT3	zinc 79	NT3	bromine 72	NT3	dysprosium 140
NT3	zinc 80	NT3	bromine 73	NT3	dysprosium 145
NT3	zinc 81	NT3	bromine 74	NT3	dysprosium 146
NT3	zirconium 100	NT3	bromine 75	NT3	dysprosium 147
NT3	zirconium 101	NT3	bromine 76	NT3	dysprosium 148
NT3	zirconium 102	NT3	bromine 77	NT3	dysprosium 149
NT3	zirconium 103	NT3	bromine 78	NT3	dysprosium 150
NT3	zirconium 104	NT3	bromine 80	NT3	dysprosium 151
NT3	zirconium 105	NT3	cadmium 100	NT3	dysprosium 152
NT3	zirconium 109	NT3	cadmium 101	NT3	dysprosium 153
NT3	zirconium 93	NT3	cadmium 102	NT3	dysprosium 155
NT3	zirconium 95	NT3	cadmium 103	NT3	dysprosium 157
NT3	zirconium 97	NT3	cadmium 104	NT3	erbium 145
NT3	zirconium 98	NT3	cadmium 105	NT3	erbium 146
NT3	zirconium 99	NT3	cadmium 107	NT3	erbium 147
NT2	beta-plus decay radioisotopes	NT3	cadmium 97	NT3	erbium 148
NT3	aluminium 22	NT3	cadmium 98	NT3	erbium 149
NT3	aluminium 23	NT3	cadmium 99	NT3	erbium 150
NT3	aluminium 24	NT3	calcium 36	NT3	erbium 151
NT3	aluminium 25	NT3	calcium 37	NT3	erbium 152
NT3	aluminium 26	NT3	calcium 38	NT3	erbium 153
NT3	americium 235	NT3	calcium 39	NT3	erbium 154
NT3	americium 236	NT3	carbon 10	NT3	erbium 155
NT3	antimony 104	NT3	carbon 11	NT3	erbium 156
NT3	antimony 105	NT3	carbon 9	NT3	erbium 157
NT3	antimony 108	NT3	cerium 121	NT3	erbium 158
NT3	antimony 110	NT3	cerium 125	NT3	erbium 159
NT3	antimony 111	NT3	cerium 127	NT3	erbium 161
NT3	antimony 112	NT3	cerium 128	NT3	erbium 163
NT3	antimony 113	NT3	cerium 129	NT3	europium 134
NT3	antimony 114	NT3	cerium 130	NT3	europium 135
NT3	antimony 115	NT3	cerium 131	NT3	europium 136
NT3	antimony 116	NT3	cerium 132	NT3	europium 138
NT3	antimony 117	NT3	cerium 133	NT3	europium 139
NT3	antimony 118	NT3	cerium 135	NT3	europium 140
NT3	antimony 120	NT3	cerium 137	NT3	europium 141

NT3	europium 142	NT3	iodine 110	NT3	magnesium 21
NT3	europium 143	NT3	iodine 111	NT3	magnesium 22
NT3	europium 144	NT3	iodine 112	NT3	magnesium 23
NT3	europium 145	NT3	iodine 113	NT3	manganese 48
NT3	europium 146	NT3	iodine 114	NT3	manganese 49
NT3	europium 147	NT3	iodine 115	NT3	manganese 50
NT3	europium 148	NT3	iodine 116	NT3	manganese 51
NT3	europium 150	NT3	iodine 117	NT3	manganese 52
NT3	europium 152	NT3	iodine 118	NT3	mercury 179
NT3	fluorine 17	NT3	iodine 119	NT3	mercury 181
NT3	fluorine 18	NT3	iodine 120	NT3	mercury 182
NT3	gadolinium 135	NT3	iodine 121	NT3	mercury 183
NT3	gadolinium 137	NT3	iodine 122	NT3	mercury 184
NT3	gadolinium 139	NT3	iodine 124	NT3	mercury 185
NT3	gadolinium 142	NT3	iodine 126	NT3	mercury 186
NT3	gadolinium 143	NT3	iodine 128	NT3	mercury 187
NT3	gadolinium 144	NT3	iridium 178	NT3	mercury 188
NT3	gadolinium 145	NT3	iridium 179	NT3	mercury 191
NT3	gadolinium 146	NT3	iridium 180	NT3	mercury 193
NT3	gadolinium 147	NT3	iridium 181	NT3	molybdenum 86
NT3	gallium 60	NT3	iridium 182	NT3	molybdenum 87
NT3	gallium 62	NT3	iridium 183	NT3	molybdenum 88
NT3	gallium 63	NT3	iridium 184	NT3	molybdenum 89
NT3	gallium 64	NT3	iridium 185	NT3	molybdenum 90
NT3	gallium 65	NT3	iridium 186	NT3	molybdenum 91
NT3	gallium 66	NT3	iridium 188	NT3	neodymium 127
NT3	gallium 68	NT3	iridium 190	NT3	neodymium 128
NT3	germanium 61	NT3	iron 45	NT3	neodymium 129
NT3	germanium 64	NT3	iron 46	NT3	neodymium 130
NT3	germanium 65	NT3	iron 49	NT3	neodymium 131
NT3	germanium 66	NT3	iron 51	NT3	neodymium 132
NT3	germanium 67	NT3	iron 52	NT3	neodymium 133
NT3	germanium 69	NT3	iron 53	NT3	neodymium 134
NT3	gold 182	NT3	krypton 69	NT3	neodymium 135
NT3	gold 184	NT3	krypton 71	NT3	neodymium 136
NT3	gold 185	NT3	krypton 72	NT3	neodymium 137
NT3	gold 186	NT3	krypton 73	NT3	neodymium 138
NT3	gold 187	NT3	krypton 74	NT3	neodymium 139
NT3	gold 188	NT3	krypton 75	NT3	neodymium 141
NT3	gold 189	NT3	krypton 77	NT3	neon 17
NT3	gold 190	NT3	krypton 79	NT3	neon 18
NT3	gold 192	NT3	lanthanum 121	NT3	neon 19
NT3	gold 194	NT3	lanthanum 125	NT3	neptunium 234
NT3	gold 196	NT3	lanthanum 126	NT3	nickel 49
NT3	hafnium 154	NT3	lanthanum 127	NT3	nickel 50
NT3	hafnium 155	NT3	lanthanum 128	NT3	nickel 52
NT3	hafnium 162	NT3	lanthanum 129	NT3	nickel 53
NT3	hafnium 163	NT3	lanthanum 130	NT3	nickel 55
NT3	hafnium 166	NT3	lanthanum 131	NT3	nickel 56
NT3	hafnium 167	NT3	lanthanum 132	NT3	nickel 57
NT3	hafnium 168	NT3	lanthanum 133	NT3	niobium 83
NT3	hafnium 169	NT3	lanthanum 134	NT3	niobium 84
NT3	holmium 145	NT3	lanthanum 135	NT3	niobium 85
NT3	holmium 146	NT3	lanthanum 136	NT3	niobium 87
NT3	holmium 147	NT3	lead 187	NT3	niobium 88
NT3	holmium 148	NT3	lead 188	NT3	niobium 89
NT3	holmium 149	NT3	lead 189	NT3	niobium 90
NT3	holmium 150	NT3	lead 190	NT3	niobium 92
NT3	holmium 151	NT3	lead 191	NT3	nitrogen 12
NT3	holmium 152	NT3	lead 192	NT3	nitrogen 13
NT3	holmium 153	NT3	lead 193	NT3	osmium 172
NT3	holmium 154	NT3	lead 194	NT3	osmium 173
NT3	holmium 155	NT3	lead 195	NT3	osmium 174
NT3	holmium 156	NT3	lead 199	NT3	osmium 175
NT3	holmium 157	NT3	lead 201	NT3	osmium 176
NT3	holmium 158	NT3	lutetium 153	NT3	osmium 177
NT3	holmium 160	NT3	lutetium 161	NT3	osmium 178
NT3	holmium 162	NT3	lutetium 162	NT3	osmium 179
NT3	indium 100	NT3	lutetium 163	NT3	osmium 181
NT3	indium 103	NT3	lutetium 164	NT3	osmium 183
NT3	indium 104	NT3	lutetium 165	NT3	oxygen 13
NT3	indium 105	NT3	lutetium 166	NT3	oxygen 14
NT3	indium 106	NT3	lutetium 167	NT3	oxygen 15
NT3	indium 107	NT3	lutetium 168	NT3	palladium 101
NT3	indium 108	NT3	lutetium 169	NT3	palladium 93
NT3	indium 109	NT3	lutetium 170	NT3	palladium 94
NT3	indium 110	NT3	lutetium 171	NT3	palladium 95
NT3	indium 112	NT3	lutetium 174	NT3	palladium 97
NT3	indium 114	NT3	magnesium 20	NT3	palladium 98



NT3	palladium 99	NT3	rubidium 76	NT3	tantalum 176
NT3	phosphorus 26	NT3	rubidium 77	NT3	tantalum 177
NT3	phosphorus 28	NT3	rubidium 78	NT3	tantalum 178
NT3	phosphorus 29	NT3	rubidium 79	NT3	technetium 88
NT3	phosphorus 30	NT3	rubidium 80	NT3	technetium 89
NT3	platinum 174	NT3	rubidium 81	NT3	technetium 90
NT3	platinum 182	NT3	rubidium 82	NT3	technetium 91
NT3	platinum 183	NT3	rubidium 84	NT3	technetium 92
NT3	platinum 184	NT3	ruthenium 88	NT3	technetium 93
NT3	platinum 185	NT3	ruthenium 89	NT3	technetium 94
NT3	platinum 187	NT3	ruthenium 92	NT3	technetium 95
NT3	platinum 189	NT3	ruthenium 93	NT3	technetium 96
NT3	polonium 198	NT3	ruthenium 95	NT3	tellurium 107
NT3	polonium 199	NT3	samarium 133	NT3	tellurium 108
NT3	polonium 200	NT3	samarium 134	NT3	tellurium 109
NT3	polonium 201	NT3	samarium 135	NT3	tellurium 110
NT3	polonium 202	NT3	samarium 136	NT3	tellurium 111
NT3	polonium 203	NT3	samarium 137	NT3	tellurium 112
NT3	polonium 205	NT3	samarium 138	NT3	tellurium 113
NT3	polonium 207	NT3	samarium 139	NT3	tellurium 114
NT3	potassium 35	NT3	samarium 140	NT3	tellurium 115
NT3	potassium 36	NT3	samarium 141	NT3	tellurium 116
NT3	potassium 37	NT3	samarium 142	NT3	tellurium 117
NT3	potassium 38	NT3	samarium 143	NT3	tellurium 118
NT3	potassium 40	NT3	scandium 40	NT3	tellurium 119
NT3	praseodymium 126	NT3	scandium 41	NT3	tellurium 121
NT3	praseodymium 127	NT3	scandium 42	NT3	terbium 139
NT3	praseodymium 129	NT3	scandium 43	NT3	terbium 141
NT3	praseodymium 130	NT3	scandium 44	NT3	terbium 143
NT3	praseodymium 131	NT3	selenium 65	NT3	terbium 144
NT3	praseodymium 132	NT3	selenium 67	NT3	terbium 145
NT3	praseodymium 133	NT3	selenium 68	NT3	terbium 146
NT3	praseodymium 134	NT3	selenium 69	NT3	terbium 147
NT3	praseodymium 135	NT3	selenium 70	NT3	terbium 148
NT3	praseodymium 136	NT3	selenium 71	NT3	terbium 149
NT3	praseodymium 137	NT3	selenium 73	NT3	terbium 150
NT3	praseodymium 138	NT3	silicon 24	NT3	terbium 151
NT3	praseodymium 139	NT3	silicon 25	NT3	terbium 152
NT3	praseodymium 140	NT3	silicon 26	NT3	terbium 153
NT3	promethium 132	NT3	silicon 27	NT3	terbium 154
NT3	promethium 133	NT3	silver 100	NT3	terbium 156
NT3	promethium 134	NT3	silver 101	NT3	thallium 182
NT3	promethium 135	NT3	silver 102	NT3	thallium 184
NT3	promethium 136	NT3	silver 103	NT3	thallium 186
NT3	promethium 137	NT3	silver 104	NT3	thallium 188
NT3	promethium 138	NT3	silver 105	NT3	thallium 189
NT3	promethium 139	NT3	silver 106	NT3	thallium 190
NT3	promethium 140	NT3	silver 108	NT3	thallium 191
NT3	promethium 141	NT3	silver 94	NT3	thallium 192
NT3	promethium 142	NT3	silver 96	NT3	thallium 193
NT3	protactinium 230	NT3	silver 98	NT3	thallium 194
NT3	radon 207	NT3	silver 99	NT3	thallium 195
NT3	radon 209	NT3	sodium 19	NT3	thallium 196
NT3	rhodium 165	NT3	sodium 20	NT3	thallium 197
NT3	rhodium 170	NT3	sodium 21	NT3	thallium 198
NT3	rhodium 171	NT3	sodium 22	NT3	thallium 200
NT3	rhodium 172	NT3	strontium 75	NT3	thulium 148
NT3	rhodium 174	NT3	strontium 76	NT3	thulium 156
NT3	rhodium 175	NT3	strontium 77	NT3	thulium 157
NT3	rhodium 176	NT3	strontium 78	NT3	thulium 158
NT3	rhodium 177	NT3	strontium 79	NT3	thulium 159
NT3	rhodium 178	NT3	strontium 80	NT3	thulium 160
NT3	rhodium 179	NT3	strontium 81	NT3	thulium 161
NT3	rhodium 180	NT3	strontium 83	NT3	thulium 162
NT3	rhodium 182	NT3	sulfur 28	NT3	thulium 163
NT3	rhodium 100	NT3	sulfur 29	NT3	thulium 164
NT3	rhodium 102	NT3	sulfur 30	NT3	thulium 165
NT3	rhodium 91	NT3	sulfur 31	NT3	thulium 166
NT3	rhodium 92	NT3	tantalum 165	NT3	tin 100
NT3	rhodium 93	NT3	tantalum 166	NT3	tin 102
NT3	rhodium 94	NT3	tantalum 167	NT3	tin 103
NT3	rhodium 95	NT3	tantalum 168	NT3	tin 105
NT3	rhodium 96	NT3	tantalum 169	NT3	tin 106
NT3	rhodium 97	NT3	tantalum 170	NT3	tin 107
NT3	rhodium 98	NT3	tantalum 171	NT3	tin 108
NT3	rhodium 99	NT3	tantalum 172	NT3	tin 109
NT3	rubidium 73	NT3	tantalum 173	NT3	tin 111
NT3	rubidium 74	NT3	tantalum 174	NT3	titanium 39
NT3	rubidium 75	NT3	tantalum 175	NT3	titanium 40

NT3	titanium 41	NT3	americium 237	NT3	bismuth 205
NT3	titanium 42	NT3	americium 238	NT3	bismuth 206
NT3	titanium 43	NT3	americium 239	NT3	bismuth 207
NT3	titanium 45	NT3	americium 240	NT3	bismuth 208
NT3	tungsten 168	NT3	americium 242	NT3	bromine 71
NT3	tungsten 169	NT3	americium 244	NT3	bromine 73
NT3	tungsten 170	NT3	antimony 107	NT3	bromine 74
NT3	tungsten 171	NT3	antimony 109	NT3	bromine 75
NT3	tungsten 172	NT3	antimony 110	NT3	bromine 76
NT3	tungsten 173	NT3	antimony 111	NT3	bromine 77
NT3	tungsten 175	NT3	antimony 112	NT3	bromine 78
NT3	tungsten 177	NT3	antimony 113	NT3	bromine 80
NT3	tungsten 190	NT3	antimony 114	NT3	cadmium 100
NT3	vanadium 42	NT3	antimony 115	NT3	cadmium 101
NT3	vanadium 43	NT3	antimony 116	NT3	cadmium 102
NT3	vanadium 44	NT3	antimony 117	NT3	cadmium 103
NT3	vanadium 45	NT3	antimony 118	NT3	cadmium 104
NT3	vanadium 46	NT3	antimony 119	NT3	cadmium 105
NT3	vanadium 47	NT3	antimony 120	NT3	cadmium 107
NT3	vanadium 48	NT3	antimony 122	NT3	cadmium 109
NT3	xenon 110	NT3	argon 37	NT3	cadmium 96
NT3	xenon 111	NT3	arsenic 67	NT3	cadmium 97
NT3	xenon 112	NT3	arsenic 70	NT3	calcium 41
NT3	xenon 113	NT3	arsenic 71	NT3	californium 241
NT3	xenon 114	NT3	arsenic 72	NT3	californium 243
NT3	xenon 115	NT3	arsenic 73	NT3	californium 245
NT3	xenon 116	NT3	arsenic 74	NT3	californium 247
NT3	xenon 117	NT3	astatine 195	NT3	cerium 121
NT3	xenon 118	NT3	astatine 197	NT3	cerium 123
NT3	xenon 119	NT3	astatine 199	NT3	cerium 126
NT3	xenon 120	NT3	astatine 200	NT3	cerium 127
NT3	xenon 121	NT3	astatine 201	NT3	cerium 128
NT3	xenon 122	NT3	astatine 202	NT3	cerium 129
NT3	xenon 123	NT3	astatine 203	NT3	cerium 130
NT3	xenon 125	NT3	astatine 204	NT3	cerium 131
NT3	ytterbium 153	NT3	astatine 205	NT3	cerium 132
NT3	ytterbium 158	NT3	astatine 206	NT3	cerium 133
NT3	ytterbium 160	NT3	astatine 207	NT3	cerium 134
NT3	ytterbium 161	NT3	astatine 208	NT3	cerium 135
NT3	ytterbium 162	NT3	astatine 209	NT3	cerium 137
NT3	ytterbium 163	NT3	astatine 210	NT3	cerium 139
NT3	ytterbium 165	NT3	astatine 211	NT3	cesium 114
NT3	ytterbium 167	NT3	barium 117	NT3	cesium 115
NT3	yttrium 79	NT3	barium 119	NT3	cesium 116
NT3	yttrium 80	NT3	barium 120	NT3	cesium 117
NT3	yttrium 81	NT3	barium 121	NT3	cesium 118
NT3	yttrium 82	NT3	barium 122	NT3	cesium 119
NT3	yttrium 83	NT3	barium 123	NT3	cesium 120
NT3	yttrium 84	NT3	barium 124	NT3	cesium 121
NT3	yttrium 85	NT3	barium 125	NT3	cesium 122
NT3	yttrium 86	NT3	barium 126	NT3	cesium 123
NT3	yttrium 87	NT3	barium 127	NT3	cesium 124
NT3	yttrium 88	NT3	barium 128	NT3	cesium 125
NT3	zinc 57	NT3	barium 129	NT3	cesium 126
NT3	zinc 59	NT3	barium 131	NT3	cesium 127
NT3	zinc 60	NT3	barium 133	NT3	cesium 128
NT3	zinc 61	NT3	berkelium 240	NT3	cesium 129
NT3	zinc 62	NT3	berkelium 242	NT3	cesium 130
NT3	zinc 63	NT3	berkelium 243	NT3	cesium 131
NT3	zinc 65	NT3	berkelium 244	NT3	cesium 132
NT3	zirconium 81	NT3	berkelium 245	NT3	cesium 134
NT3	zirconium 82	NT3	berkelium 246	NT3	chlorine 36
NT3	zirconium 83	NT3	berkelium 248	NT3	chromium 48
NT3	zirconium 84	NT3	beryllium 7	NT3	chromium 49
NT3	zirconium 85	NT3	bismuth 190	NT3	chromium 51
NT3	zirconium 87	NT3	bismuth 191	NT3	cobalt 55
NT3	zirconium 89	NT3	bismuth 192	NT3	cobalt 56
NT2	electron capture radioisotopes	NT3	bismuth 193	NT3	cobalt 57
NT3	actinium 214	NT3	bismuth 194	NT3	cobalt 58
NT3	actinium 215	NT3	bismuth 195	NT3	copper 58
NT3	actinium 222	NT3	bismuth 196	NT3	copper 60
NT3	actinium 223	NT3	bismuth 197	NT3	copper 61
NT3	actinium 224	NT3	bismuth 198	NT3	copper 62
NT3	actinium 226	NT3	bismuth 199	NT3	copper 64
NT3	americium 232	NT3	bismuth 200	NT3	curium 232
NT3	americium 233	NT3	bismuth 201	NT3	curium 238
NT3	americium 234	NT3	bismuth 202	NT3	curium 239
NT3	americium 235	NT3	bismuth 203	NT3	curium 241
NT3	americium 236	NT3	bismuth 204	NT3	dubnium 258

NT3 dysprosium 140	NT3 gallium 62	NT3 indium 114
NT3 dysprosium 141	NT3 gallium 63	NT3 iodine 110
NT3 dysprosium 143	NT3 gallium 64	NT3 iodine 111
NT3 dysprosium 144	NT3 gallium 65	NT3 iodine 112
NT3 dysprosium 145	NT3 gallium 66	NT3 iodine 113
NT3 dysprosium 147	NT3 gallium 67	NT3 iodine 114
NT3 dysprosium 148	NT3 gallium 68	NT3 iodine 115
NT3 dysprosium 149	NT3 gallium 70	NT3 iodine 116
NT3 dysprosium 150	NT3 germanium 64	NT3 iodine 117
NT3 dysprosium 151	NT3 germanium 65	NT3 iodine 118
NT3 dysprosium 152	NT3 germanium 66	NT3 iodine 119
NT3 dysprosium 153	NT3 germanium 67	NT3 iodine 120
NT3 dysprosium 155	NT3 germanium 68	NT3 iodine 121
NT3 dysprosium 157	NT3 germanium 69	NT3 iodine 122
NT3 dysprosium 159	NT3 germanium 71	NT3 iodine 123
NT3 einsteinium 244	NT3 gold 180	NT3 iodine 124
NT3 einsteinium 245	NT3 gold 181	NT3 iodine 125
NT3 einsteinium 246	NT3 gold 182	NT3 iodine 126
NT3 einsteinium 247	NT3 gold 183	NT3 iodine 128
NT3 einsteinium 248	NT3 gold 184	NT3 iridium 178
NT3 einsteinium 249	NT3 gold 185	NT3 iridium 179
NT3 einsteinium 250	NT3 gold 186	NT3 iridium 180
NT3 einsteinium 251	NT3 gold 187	NT3 iridium 181
NT3 einsteinium 252	NT3 gold 188	NT3 iridium 182
NT3 einsteinium 254	NT3 gold 189	NT3 iridium 183
NT3 erbium 146	NT3 gold 190	NT3 iridium 184
NT3 erbium 147	NT3 gold 191	NT3 iridium 185
NT3 erbium 149	NT3 gold 192	NT3 iridium 186
NT3 erbium 150	NT3 gold 193	NT3 iridium 187
NT3 erbium 151	NT3 gold 194	NT3 iridium 188
NT3 erbium 152	NT3 gold 195	NT3 iridium 189
NT3 erbium 153	NT3 gold 196	NT3 iridium 190
NT3 erbium 154	NT3 hafnium 154	NT3 iridium 192
NT3 erbium 155	NT3 hafnium 155	NT3 iron 45
NT3 erbium 156	NT3 hafnium 157	NT3 iron 52
NT3 erbium 157	NT3 hafnium 158	NT3 iron 53
NT3 erbium 158	NT3 hafnium 159	NT3 iron 55
NT3 erbium 159	NT3 hafnium 160	NT3 krypton 69
NT3 erbium 160	NT3 hafnium 162	NT3 krypton 71
NT3 erbium 161	NT3 hafnium 163	NT3 krypton 72
NT3 erbium 163	NT3 hafnium 166	NT3 krypton 73
NT3 erbium 165	NT3 hafnium 167	NT3 krypton 74
NT3 europium 139	NT3 hafnium 168	NT3 krypton 75
NT3 europium 140	NT3 hafnium 169	NT3 krypton 76
NT3 europium 141	NT3 hafnium 170	NT3 krypton 77
NT3 europium 142	NT3 hafnium 171	NT3 krypton 79
NT3 europium 143	NT3 hafnium 172	NT3 krypton 81
NT3 europium 144	NT3 hafnium 173	NT3 lanthanum 120
NT3 europium 145	NT3 hafnium 175	NT3 lanthanum 121
NT3 europium 146	NT3 holmium 143	NT3 lanthanum 122
NT3 europium 147	NT3 holmium 145	NT3 lanthanum 123
NT3 europium 148	NT3 holmium 147	NT3 lanthanum 124
NT3 europium 149	NT3 holmium 149	NT3 lanthanum 125
NT3 europium 150	NT3 holmium 150	NT3 lanthanum 126
NT3 europium 152	NT3 holmium 151	NT3 lanthanum 127
NT3 europium 154	NT3 holmium 152	NT3 lanthanum 128
NT3 fermium 247	NT3 holmium 153	NT3 lanthanum 129
NT3 fermium 249	NT3 holmium 154	NT3 lanthanum 130
NT3 fermium 251	NT3 holmium 155	NT3 lanthanum 131
NT3 fermium 253	NT3 holmium 156	NT3 lanthanum 132
NT3 francium 204	NT3 holmium 157	NT3 lanthanum 133
NT3 francium 206	NT3 holmium 158	NT3 lanthanum 134
NT3 francium 207	NT3 holmium 159	NT3 lanthanum 135
NT3 francium 208	NT3 holmium 160	NT3 lanthanum 136
NT3 francium 209	NT3 holmium 161	NT3 lanthanum 137
NT3 francium 210	NT3 holmium 162	NT3 lanthanum 138
NT3 francium 211	NT3 holmium 163	NT3 lawrencium 254
NT3 francium 212	NT3 holmium 164	NT3 lawrencium 255
NT3 francium 213	NT3 indium 102	NT3 lawrencium 256
NT3 gadolinium 135	NT3 indium 103	NT3 lead 186
NT3 gadolinium 141	NT3 indium 104	NT3 lead 187
NT3 gadolinium 143	NT3 indium 105	NT3 lead 188
NT3 gadolinium 144	NT3 indium 106	NT3 lead 189
NT3 gadolinium 145	NT3 indium 107	NT3 lead 190
NT3 gadolinium 146	NT3 indium 108	NT3 lead 191
NT3 gadolinium 147	NT3 indium 109	NT3 lead 192
NT3 gadolinium 149	NT3 indium 110	NT3 lead 193
NT3 gadolinium 151	NT3 indium 111	NT3 lead 194
NT3 gadolinium 153	NT3 indium 112	NT3 lead 195

NT3	lead 196	NT3	neodymium 136	NT3	plutonium 235
NT3	lead 197	NT3	neodymium 137	NT3	plutonium 237
NT3	lead 198	NT3	neodymium 138	NT3	polonium 196
NT3	lead 199	NT3	neodymium 139	NT3	polonium 197
NT3	lead 200	NT3	neodymium 140	NT3	polonium 198
NT3	lead 201	NT3	neodymium 141	NT3	polonium 199
NT3	lead 202	NT3	neptunium 230	NT3	polonium 200
NT3	lead 203	NT3	neptunium 231	NT3	polonium 201
NT3	lead 205	NT3	neptunium 232	NT3	polonium 202
NT3	lutetium 153	NT3	neptunium 233	NT3	polonium 203
NT3	lutetium 154	NT3	neptunium 234	NT3	polonium 204
NT3	lutetium 155	NT3	neptunium 235	NT3	polonium 205
NT3	lutetium 156	NT3	neptunium 236	NT3	polonium 206
NT3	lutetium 157	NT3	nickel 56	NT3	polonium 207
NT3	lutetium 158	NT3	nickel 57	NT3	polonium 208
NT3	lutetium 159	NT3	nickel 59	NT3	potassium 40
NT3	lutetium 160	NT3	niobium 84	NT3	praseodymium 125
NT3	lutetium 161	NT3	niobium 85	NT3	praseodymium 127
NT3	lutetium 162	NT3	niobium 86	NT3	praseodymium 128
NT3	lutetium 163	NT3	niobium 87	NT3	praseodymium 129
NT3	lutetium 164	NT3	niobium 88	NT3	praseodymium 130
NT3	lutetium 165	NT3	niobium 90	NT3	praseodymium 132
NT3	lutetium 166	NT3	niobium 91	NT3	praseodymium 133
NT3	lutetium 167	NT3	niobium 92	NT3	praseodymium 134
NT3	lutetium 168	NT3	nitrogen 13	NT3	praseodymium 135
NT3	lutetium 169	NT3	nobelium 253	NT3	praseodymium 136
NT3	lutetium 170	NT3	nobelium 254	NT3	praseodymium 137
NT3	lutetium 171	NT3	nobelium 255	NT3	praseodymium 138
NT3	lutetium 172	NT3	nobelium 259	NT3	praseodymium 139
NT3	lutetium 173	NT3	osmium 166	NT3	praseodymium 140
NT3	lutetium 174	NT3	osmium 167	NT3	praseodymium 142
NT3	manganese 51	NT3	osmium 168	NT3	promethium 129
NT3	manganese 52	NT3	osmium 169	NT3	promethium 130
NT3	manganese 53	NT3	osmium 170	NT3	promethium 131
NT3	manganese 54	NT3	osmium 171	NT3	promethium 132
NT3	mendelevium 248	NT3	osmium 172	NT3	promethium 133
NT3	mendelevium 249	NT3	osmium 173	NT3	promethium 134
NT3	mendelevium 250	NT3	osmium 174	NT3	promethium 135
NT3	mendelevium 251	NT3	osmium 175	NT3	promethium 136
NT3	mendelevium 252	NT3	osmium 176	NT3	promethium 137
NT3	mendelevium 253	NT3	osmium 177	NT3	promethium 138
NT3	mendelevium 254	NT3	osmium 178	NT3	promethium 139
NT3	mendelevium 255	NT3	osmium 179	NT3	promethium 140
NT3	mendelevium 256	NT3	osmium 180	NT3	promethium 141
NT3	mendelevium 257	NT3	osmium 181	NT3	promethium 142
NT3	mendelevium 258	NT3	osmium 182	NT3	promethium 143
NT3	mercury 177	NT3	osmium 183	NT3	promethium 144
NT3	mercury 178	NT3	osmium 185	NT3	promethium 145
NT3	mercury 179	NT3	palladium 100	NT3	promethium 146
NT3	mercury 180	NT3	palladium 101	NT3	protactinium 226
NT3	mercury 181	NT3	palladium 103	NT3	protactinium 227
NT3	mercury 182	NT3	palladium 94	NT3	protactinium 228
NT3	mercury 183	NT3	palladium 95	NT3	protactinium 229
NT3	mercury 184	NT3	palladium 96	NT3	protactinium 230
NT3	mercury 185	NT3	palladium 97	NT3	radium 213
NT3	mercury 186	NT3	palladium 98	NT3	radium 214
NT3	mercury 187	NT3	palladium 99	NT3	radon 200
NT3	mercury 188	NT3	platinum 173	NT3	radon 201
NT3	mercury 189	NT3	platinum 174	NT3	radon 202
NT3	mercury 190	NT3	platinum 175	NT3	radon 203
NT3	mercury 191	NT3	platinum 176	NT3	radon 204
NT3	mercury 192	NT3	platinum 177	NT3	radon 205
NT3	mercury 193	NT3	platinum 178	NT3	radon 206
NT3	mercury 194	NT3	platinum 179	NT3	radon 207
NT3	mercury 195	NT3	platinum 180	NT3	radon 208
NT3	mercury 197	NT3	platinum 181	NT3	radon 209
NT3	molybdenum 87	NT3	platinum 182	NT3	radon 210
NT3	molybdenum 88	NT3	platinum 183	NT3	radon 211
NT3	molybdenum 89	NT3	platinum 184	NT3	rhenium 163
NT3	molybdenum 90	NT3	platinum 185	NT3	rhenium 164
NT3	molybdenum 91	NT3	platinum 186	NT3	rhenium 165
NT3	molybdenum 93	NT3	platinum 187	NT3	rhenium 168
NT3	neodymium 125	NT3	platinum 188	NT3	rhenium 170
NT3	neodymium 129	NT3	platinum 189	NT3	rhenium 171
NT3	neodymium 130	NT3	platinum 191	NT3	rhenium 172
NT3	neodymium 132	NT3	platinum 193	NT3	rhenium 173
NT3	neodymium 133	NT3	plutonium 232	NT3	rhenium 174
NT3	neodymium 134	NT3	plutonium 233	NT3	rhenium 175
NT3	neodymium 135	NT3	plutonium 234		

NT3	rhenium 176	NT3	strontium 85	NT3	thallium 204
NT3	rhenium 177	NT3	strontium 87	NT3	thorium 225
NT3	rhenium 178	NT3	tantalum 158	NT3	thulium 148
NT3	rhenium 179	NT3	tantalum 159	NT3	thulium 152
NT3	rhenium 180	NT3	tantalum 160	NT3	thulium 153
NT3	rhenium 181	NT3	tantalum 165	NT3	thulium 154
NT3	rhenium 182	NT3	tantalum 166	NT3	thulium 155
NT3	rhenium 183	NT3	tantalum 167	NT3	thulium 156
NT3	rhenium 184	NT3	tantalum 168	NT3	thulium 157
NT3	rhenium 186	NT3	tantalum 169	NT3	thulium 158
NT3	rhodium 100	NT3	tantalum 170	NT3	thulium 159
NT3	rhodium 101	NT3	tantalum 171	NT3	thulium 160
NT3	rhodium 102	NT3	tantalum 172	NT3	thulium 161
NT3	rhodium 104	NT3	tantalum 173	NT3	thulium 162
NT3	rhodium 90	NT3	tantalum 174	NT3	thulium 163
NT3	rhodium 91	NT3	tantalum 175	NT3	thulium 164
NT3	rhodium 92	NT3	tantalum 176	NT3	thulium 165
NT3	rhodium 93	NT3	tantalum 177	NT3	thulium 166
NT3	rhodium 95	NT3	tantalum 178	NT3	thulium 167
NT3	rhodium 96	NT3	tantalum 179	NT3	thulium 168
NT3	rhodium 97	NT3	tantalum 180	NT3	thulium 170
NT3	rhodium 98	NT3	technetium 90	NT3	tin 100
NT3	rhodium 99	NT3	technetium 91	NT3	tin 102
NT3	rubidium 76	NT3	technetium 92	NT3	tin 106
NT3	rubidium 77	NT3	technetium 93	NT3	tin 107
NT3	rubidium 78	NT3	technetium 94	NT3	tin 108
NT3	rubidium 79	NT3	technetium 95	NT3	tin 109
NT3	rubidium 81	NT3	technetium 96	NT3	tin 110
NT3	rubidium 82	NT3	technetium 97	NT3	tin 111
NT3	rubidium 83	NT3	tellurium 107	NT3	tin 113
NT3	rubidium 84	NT3	tellurium 108	NT3	titanium 44
NT3	rubidium 86	NT3	tellurium 109	NT3	titanium 45
NT3	ruthenium 90	NT3	tellurium 110	NT3	tungsten 161
NT3	ruthenium 91	NT3	tellurium 111	NT3	tungsten 162
NT3	ruthenium 92	NT3	tellurium 112	NT3	tungsten 163
NT3	ruthenium 93	NT3	tellurium 113	NT3	tungsten 164
NT3	ruthenium 94	NT3	tellurium 114	NT3	tungsten 165
NT3	ruthenium 95	NT3	tellurium 115	NT3	tungsten 166
NT3	ruthenium 97	NT3	tellurium 116	NT3	tungsten 168
NT3	samarium 133	NT3	tellurium 117	NT3	tungsten 169
NT3	samarium 134	NT3	tellurium 118	NT3	tungsten 170
NT3	samarium 135	NT3	tellurium 119	NT3	tungsten 171
NT3	samarium 136	NT3	tellurium 121	NT3	tungsten 172
NT3	samarium 137	NT3	tellurium 123	NT3	tungsten 173
NT3	samarium 138	NT3	terbium 139	NT3	tungsten 174
NT3	samarium 139	NT3	terbium 141	NT3	tungsten 175
NT3	samarium 140	NT3	terbium 143	NT3	tungsten 176
NT3	samarium 141	NT3	terbium 144	NT3	tungsten 177
NT3	samarium 142	NT3	terbium 146	NT3	tungsten 178
NT3	samarium 143	NT3	terbium 147	NT3	tungsten 179
NT3	samarium 145	NT3	terbium 148	NT3	tungsten 181
NT3	scandium 44	NT3	terbium 149	NT3	uranium 228
NT3	selenium 69	NT3	terbium 150	NT3	uranium 229
NT3	selenium 70	NT3	terbium 151	NT3	uranium 231
NT3	selenium 71	NT3	terbium 152	NT3	vanadium 42
NT3	selenium 72	NT3	terbium 153	NT3	vanadium 45
NT3	selenium 73	NT3	terbium 154	NT3	vanadium 47
NT3	selenium 75	NT3	terbium 155	NT3	vanadium 48
NT3	silver 100	NT3	terbium 156	NT3	vanadium 49
NT3	silver 101	NT3	terbium 157	NT3	vanadium 50
NT3	silver 102	NT3	terbium 158	NT3	xenon 110
NT3	silver 103	NT3	thallium 184	NT3	xenon 111
NT3	silver 104	NT3	thallium 186	NT3	xenon 112
NT3	silver 105	NT3	thallium 187	NT3	xenon 113
NT3	silver 106	NT3	thallium 188	NT3	xenon 114
NT3	silver 108	NT3	thallium 189	NT3	xenon 115
NT3	silver 110	NT3	thallium 190	NT3	xenon 116
NT3	silver 95	NT3	thallium 191	NT3	xenon 117
NT3	silver 96	NT3	thallium 192	NT3	xenon 118
NT3	silver 97	NT3	thallium 193	NT3	xenon 119
NT3	silver 98	NT3	thallium 194	NT3	xenon 120
NT3	silver 99	NT3	thallium 195	NT3	xenon 121
NT3	strontium 76	NT3	thallium 196	NT3	xenon 122
NT3	strontium 78	NT3	thallium 197	NT3	xenon 123
NT3	strontium 79	NT3	thallium 198	NT3	xenon 125
NT3	strontium 80	NT3	thallium 199	NT3	xenon 127
NT3	strontium 81	NT3	thallium 200	NT3	ytterbium 153
NT3	strontium 82	NT3	thallium 201	NT3	ytterbium 155
NT3	strontium 83	NT3	thallium 202	NT3	ytterbium 156

NT3	ytterbium 157	NT2	cesium 132	NT2	neptunium 239
NT3	ytterbium 158	NT2	cesium 136	NT2	nickel 56
NT3	ytterbium 159	NT2	chromium 51	NT2	nickel 57
NT3	ytterbium 160	NT2	cobalt 56	NT2	nickel 66
NT3	ytterbium 161	NT2	cobalt 57	NT2	niobium 91
NT3	ytterbium 162	NT2	cobalt 58	NT2	niobium 92
NT3	ytterbium 163	NT2	copper 67	NT2	niobium 95
NT3	ytterbium 164	NT2	curium 240	NT2	osmium 185
NT3	ytterbium 165	NT2	curium 241	NT2	osmium 191
NT3	ytterbium 166	NT2	curium 242	NT2	osmium 193
NT3	ytterbium 167	NT2	dysprosium 159	NT2	palladium 100
NT3	ytterbium 169	NT2	dysprosium 166	NT2	palladium 103
NT3	yttrium 79	NT2	einsteinium 251	NT2	phosphorus 32
NT3	yttrium 80	NT2	einsteinium 253	NT2	phosphorus 33
NT3	yttrium 81	NT2	einsteinium 254	NT2	platinum 188
NT3	yttrium 83	NT2	einsteinium 255	NT2	platinum 191
NT3	yttrium 84	NT2	erbium 160	NT2	platinum 193
NT3	yttrium 85	NT2	erbium 169	NT2	platinum 195
NT3	yttrium 86	NT2	erbium 172	NT2	plutonium 237
NT3	yttrium 87	NT2	europium 145	NT2	plutonium 246
NT3	yttrium 88	NT2	europium 146	NT2	plutonium 247
NT3	zinc 60	NT2	europium 147	NT2	polonium 206
NT3	zinc 61	NT2	europium 148	NT2	polonium 210
NT3	zinc 62	NT2	europium 149	NT2	praseodymium 143
NT3	zinc 63	NT2	europium 156	NT2	promethium 143
NT3	zinc 65	NT2	fermium 252	NT2	promethium 148
NT3	zirconium 84	NT2	fermium 253	NT2	promethium 149
NT3	zirconium 85	NT2	fermium 257	NT2	promethium 151
NT3	zirconium 86	NT2	gadolinium 146	NT2	protactinium 229
NT3	zirconium 87	NT2	gadolinium 147	NT2	protactinium 230
NT3	zirconium 87	NT2	gadolinium 149	NT2	protactinium 232
NT3	zirconium 88	NT2	gadolinium 151	NT2	protactinium 233
NT3	zirconium 89	NT2	gadolinium 153	NT2	radium 223
NT1	bone seekers	NT2	gallium 67	NT2	radium 224
NT1	days living radioisotopes	NT2	germanium 68	NT2	radium 225
NT2	actinium 225	NT2	germanium 69	NT2	radon 222
NT2	actinium 226	NT2	germanium 71	NT2	rhenium 182
NT2	americium 240	NT2	gold 194	NT2	rhenium 183
NT2	antimony 119	NT2	gold 195	NT2	rhenium 184
NT2	antimony 120	NT2	gold 196	NT2	rhenium 186
NT2	antimony 122	NT2	gold 198	NT2	rhenium 189
NT2	antimony 124	NT2	gold 199	NT2	rhodium 101
NT2	antimony 126	NT2	hafnium 175	NT2	rhodium 102
NT2	antimony 127	NT2	hafnium 179	NT2	rhodium 105
NT2	argon 37	NT2	hafnium 181	NT2	rhodium 99
NT2	arsenic 71	NT2	holmium 166	NT2	rubidium 83
NT2	arsenic 72	NT2	indium 111	NT2	rubidium 84
NT2	arsenic 73	NT2	indium 114	NT2	rubidium 86
NT2	arsenic 74	NT2	iodine 124	NT2	ruthenium 103
NT2	arsenic 76	NT2	iodine 125	NT2	ruthenium 97
NT2	arsenic 77	NT2	iodine 126	NT2	samarium 145
NT2	barium 128	NT2	iodine 131	NT2	samarium 153
NT2	barium 131	NT2	iridium 188	NT2	scandium 44
NT2	barium 133	NT2	iridium 189	NT2	scandium 46
NT2	barium 135	NT2	iridium 190	NT2	scandium 47
NT2	barium 140	NT2	iridium 192	NT2	scandium 48
NT2	berkelium 245	NT2	iridium 193	NT2	selenium 72
NT2	berkelium 246	NT2	iridium 194	NT2	selenium 75
NT2	berkelium 249	NT2	iron 59	NT2	silver 105
NT2	beryllium 7	NT2	krypton 79	NT2	silver 106
NT2	bismuth 205	NT2	lanthanum 140	NT2	silver 110
NT2	bismuth 206	NT2	lead 203	NT2	silver 111
NT2	bismuth 210	NT2	lutetium 169	NT2	strontium 82
NT2	bromine 77	NT2	lutetium 170	NT2	strontium 83
NT2	bromine 82	NT2	lutetium 171	NT2	strontium 85
NT2	cadmium 115	NT2	lutetium 172	NT2	strontium 89
NT2	calcium 45	NT2	lutetium 174	NT2	sulfur 35
NT2	calcium 47	NT2	lutetium 177	NT2	tantalum 177
NT2	californium 246	NT2	manganese 52	NT2	tantalum 182
NT2	californium 248	NT2	manganese 54	NT2	tantalum 183
NT2	californium 253	NT2	mendelevium 258	NT2	technetium 95
NT2	californium 254	NT2	mercury 195	NT2	technetium 96
NT2	cerium 134	NT2	mercury 197	NT2	technetium 97
NT2	cerium 137	NT2	mercury 203	NT2	tellurium 118
NT2	cerium 139	NT2	molybdenum 99	NT2	tellurium 119
NT2	cerium 141	NT2	neodymium 140	NT2	tellurium 121
NT2	cerium 143	NT2	neodymium 147	NT2	tellurium 123
NT2	cerium 144	NT2	neptunium 234	NT2	tellurium 125
NT2	cesium 129	NT2	neptunium 238	NT2	tellurium 127
NT2	cesium 131				

NT2	tellurium 129	NT2	americium 242	NT2	germanium 78
NT2	tellurium 131	NT2	americium 244	NT2	gold 191
NT2	tellurium 132	NT2	americium 245	NT2	gold 192
NT2	terbium 153	NT2	antimony 116	NT2	gold 193
NT2	terbium 155	NT2	antimony 117	NT2	gold 196
NT2	terbium 156	NT2	antimony 118	NT2	gold 200
NT2	terbium 160	NT2	antimony 128	NT2	hafnium 170
NT2	terbium 161	NT2	antimony 129	NT2	hafnium 171
NT2	thallium 200	NT2	argon 41	NT2	hafnium 173
NT2	thallium 201	NT2	arsenic 78	NT2	hafnium 180
NT2	thallium 202	NT2	astatine 207	NT2	hafnium 182
NT2	thorium 227	NT2	astatine 208	NT2	hafnium 183
NT2	thorium 231	NT2	astatine 209	NT2	hafnium 184
NT2	thorium 234	NT2	astatine 210	NT2	holmium 160
NT2	thulium 165	NT2	astatine 211	NT2	holmium 161
NT2	thulium 167	NT2	barium 126	NT2	holmium 162
NT2	thulium 168	NT2	barium 129	NT2	holmium 167
NT2	thulium 170	NT2	barium 139	NT2	indium 109
NT2	thulium 172	NT2	berkelium 243	NT2	indium 110
NT2	tin 113	NT2	berkelium 244	NT2	indium 113
NT2	tin 117	NT2	berkelium 248	NT2	indium 115
NT2	tin 119	NT2	berkelium 250	NT2	indium 117
NT2	tin 121	NT2	bismuth 201	NT2	iodine 120
NT2	tin 123	NT2	bismuth 202	NT2	iodine 121
NT2	tin 125	NT2	bismuth 203	NT2	iodine 123
NT2	tungsten 178	NT2	bismuth 204	NT2	iodine 130
NT2	tungsten 181	NT2	bismuth 212	NT2	iodine 132
NT2	tungsten 185	NT2	bromine 75	NT2	iodine 133
NT2	tungsten 187	NT2	bromine 76	NT2	iodine 135
NT2	tungsten 188	NT2	bromine 80	NT2	iridium 184
NT2	uranium 230	NT2	bromine 83	NT2	iridium 185
NT2	uranium 231	NT2	cadmium 107	NT2	iridium 186
NT2	uranium 237	NT2	cadmium 117	NT2	iridium 187
NT2	vanadium 48	NT2	californium 247	NT2	iridium 190
NT2	vanadium 49	NT2	californium 255	NT2	iridium 194
NT2	xenon 127	NT2	cerium 132	NT2	iridium 195
NT2	xenon 129	NT2	cerium 133	NT2	iridium 196
NT2	xenon 131	NT2	cerium 135	NT2	iron 52
NT2	xenon 133	NT2	cerium 137	NT2	krypton 76
NT2	ytterbium 166	NT2	cesium 127	NT2	krypton 77
NT2	ytterbium 169	NT2	cesium 134	NT2	krypton 83
NT2	ytterbium 175	NT2	chromium 48	NT2	krypton 85
NT2	yttrium 87	NT2	cobalt 55	NT2	krypton 87
NT2	yttrium 88	NT2	cobalt 58	NT2	krypton 88
NT2	yttrium 90	NT2	cobalt 61	NT2	lanthanum 132
NT2	yttrium 91	NT2	copper 61	NT2	lanthanum 133
NT2	zinc 65	NT2	copper 64	NT2	lanthanum 135
NT2	zinc 72	NT2	curium 238	NT2	lanthanum 141
NT2	zirconium 88	NT2	curium 239	NT2	lanthanum 142
NT2	zirconium 89	NT2	curium 249	NT2	lead 198
NT2	zirconium 95	NT2	dysprosium 152	NT2	lead 199
NT1	delayed neutron precursors	NT2	dysprosium 153	NT2	lead 200
NT1	delayed proton precursors	NT2	dysprosium 155	NT2	lead 201
NT1	heavy ion decay radioisotopes	NT2	dysprosium 157	NT2	lead 202
NT2	carbon 12 decay radioisotopes	NT2	dysprosium 165	NT2	lead 204
NT3	barium 114	NT2	einsteinium 249	NT2	lead 209
NT2	carbon 14 decay radioisotopes	NT2	einsteinium 250	NT2	lead 212
NT3	radium 222	NT2	einsteinium 256	NT2	lutetium 176
NT3	radium 223	NT2	erbium 158	NT2	lutetium 179
NT3	radium 224	NT2	erbium 161	NT2	magnesium 28
NT3	radium 226	NT2	erbium 163	NT2	manganese 56
NT2	magnesium 28 decay radioisotopes	NT2	erbium 165	NT2	mendelevium 256
NT3	plutonium 236	NT2	erbium 171	NT2	mendelevium 257
NT3	uranium 234	NT2	europium 150	NT2	mendelevium 259
NT2	neon 24 decay radioisotopes	NT2	europium 152	NT2	mercury 192
NT3	protactinium 231	NT2	europium 157	NT2	mercury 193
NT3	thorium 230	NT2	fermium 251	NT2	mercury 195
NT3	uranium 232	NT2	fermium 254	NT2	mercury 197
NT3	uranium 233	NT2	fermium 255	NT2	molybdenum 90
NT3	uranium 234	NT2	fermium 256	NT2	molybdenum 93
NT2	silicon 32 decay radioisotopes	NT2	fluorine 18	NT2	neodymium 138
NT3	plutonium 238	NT2	gadolinium 159	NT2	neodymium 139
NT1	hours living radioisotopes	NT2	gallium 66	NT2	neodymium 141
NT2	actinium 224	NT2	gallium 68	NT2	neodymium 149
NT2	actinium 228	NT2	gallium 72	NT2	neptunium 236
NT2	actinium 229	NT2	gallium 73	NT2	neptunium 240
NT2	americium 237	NT2	germanium 66	NT2	nickel 65
NT2	americium 238	NT2	germanium 75	NT2	niobium 89
NT2	americium 239	NT2	germanium 77	NT2	niobium 90

NT2	niobium 96	NT2	tellurium 127	NT2	hafnium 178
NT2	niobium 97	NT2	tellurium 129	NT2	hafnium 179
NT2	osmium 181	NT2	terbium 147	NT2	hafnium 180
NT2	osmium 182	NT2	terbium 148	NT2	holmium 158
NT2	osmium 183	NT2	terbium 149	NT2	holmium 160
NT2	osmium 189	NT2	terbium 150	NT2	holmium 164
NT2	osmium 191	NT2	terbium 151	NT2	indium 112
NT2	palladium 101	NT2	terbium 152	NT2	indium 114
NT2	palladium 109	NT2	terbium 154	NT2	indium 115
NT2	palladium 111	NT2	terbium 156	NT2	indium 116
NT2	palladium 112	NT2	thallium 195	NT2	indium 121
NT2	platinum 185	NT2	thallium 196	NT2	iodine 125
NT2	platinum 186	NT2	thallium 197	NT2	iodine 129
NT2	platinum 187	NT2	thallium 198	NT2	iodine 130
NT2	platinum 189	NT2	thallium 199	NT2	iodine 132
NT2	platinum 197	NT2	thulium 163	NT2	iodine 133
NT2	platinum 200	NT2	thulium 166	NT2	iridium 190
NT2	plutonium 234	NT2	thulium 173	NT2	iridium 191
NT2	plutonium 243	NT2	tin 110	NT2	iridium 192
NT2	plutonium 245	NT2	tin 127	NT2	iridium 193
NT2	polonium 204	NT2	titanium 45	NT2	krypton 79
NT2	polonium 205	NT2	tungsten 176	NT2	krypton 83
NT2	polonium 207	NT2	tungsten 177	NT2	lead 199
NT2	potassium 42	NT2	uranium 240	NT2	lead 202
NT2	potassium 43	NT2	xenon 122	NT2	lutetium 169
NT2	praseodymium 137	NT2	xenon 123	NT2	lutetium 170
NT2	praseodymium 138	NT2	xenon 125	NT2	lutetium 171
NT2	praseodymium 139	NT2	xenon 135	NT2	lutetium 172
NT2	praseodymium 142	NT2	ytterbium 164	NT2	lutetium 176
NT2	praseodymium 145	NT2	ytterbium 177	NT2	mercury 193
NT2	promethium 150	NT2	ytterbium 178	NT2	mercury 195
NT2	protactinium 228	NT2	yttrium 85	NT2	mercury 197
NT2	protactinium 234	NT2	yttrium 86	NT2	mercury 199
NT2	radium 230	NT2	yttrium 87	NT2	molybdenum 93
NT2	radon 210	NT2	yttrium 90	NT2	neodymium 147
NT2	radon 211	NT2	yttrium 92	NT2	neptunium 236
NT2	radon 224	NT2	yttrium 93	NT2	niobium 91
NT2	rhenium 181	NT2	zinc 62	NT2	niobium 93
NT2	rhenium 182	NT2	zinc 69	NT2	niobium 94
NT2	rhenium 188	NT2	zinc 71	NT2	osmium 180
NT2	rhenium 190	NT2	zirconium 86	NT2	osmium 189
NT2	rhodium 100	NT2	zirconium 87	NT2	osmium 190
NT2	rhodium 106	NT2	zirconium 97	NT2	osmium 191
NT2	rhodium 99	NT1	internal conversion radioisotopes	NT2	osmium 194
NT2	rubidium 81	NT2	actinium 227	NT2	palladium 112
NT2	rubidium 82	NT2	antimony 119	NT2	platinum 193
NT2	ruthenium 105	NT2	antimony 122	NT2	platinum 195
NT2	ruthenium 95	NT2	antimony 124	NT2	platinum 197
NT2	samarium 142	NT2	antimony 126	NT2	platinum 199
NT2	samarium 156	NT2	astatine 212	NT2	plutonium 235
NT2	scandium 43	NT2	barium 131	NT2	plutonium 237
NT2	scandium 44	NT2	barium 133	NT2	polonium 199
NT2	selenium 73	NT2	barium 135	NT2	polonium 201
NT2	silicon 31	NT2	berkelium 243	NT2	polonium 202
NT2	silver 103	NT2	bromine 77	NT2	polonium 203
NT2	silver 104	NT2	bromine 80	NT2	polonium 205
NT2	silver 112	NT2	bromine 82	NT2	polonium 206
NT2	silver 113	NT2	cadmium 111	NT2	polonium 207
NT2	sodium 24	NT2	cadmium 113	NT2	praseodymium 142
NT2	strontium 80	NT2	californium 247	NT2	promethium 145
NT2	strontium 85	NT2	californium 250	NT2	radium 213
NT2	strontium 87	NT2	cerium 133	NT2	radium 225
NT2	strontium 91	NT2	cerium 137	NT2	radium 228
NT2	strontium 92	NT2	cesium 123	NT2	radium 230
NT2	sulfur 38	NT2	cesium 134	NT2	radon 210
NT2	tantalum 173	NT2	cesium 138	NT2	radon 211
NT2	tantalum 174	NT2	cobalt 58	NT2	rhenium 183
NT2	tantalum 175	NT2	cobalt 60	NT2	rhenium 184
NT2	tantalum 176	NT2	dysprosium 159	NT2	rhenium 188
NT2	tantalum 178	NT2	einsteinium 254	NT2	rhenium 189
NT2	tantalum 180	NT2	erbium 156	NT2	rhodium 100
NT2	tantalum 184	NT2	erbium 169	NT2	rhodium 101
NT2	technetium 93	NT2	germanium 73	NT2	rhodium 103
NT2	technetium 94	NT2	germanium 75	NT2	rhodium 105
NT2	technetium 95	NT2	gold 191	NT2	rhodium 96
NT2	technetium 99	NT2	gold 193	NT2	rubidium 81
NT2	tellurium 116	NT2	gold 195	NT2	samarium 145
NT2	tellurium 117	NT2	gold 196	NT2	samarium 151
NT2	tellurium 119	NT2	gold 197	NT2	scandium 46



NT2	selenium 79	NT2	cesium 135	NT2	iridium 190
NT2	selenium 81	NT2	cesium 136	NT2	iridium 191
NT2	silver 103	NT2	cesium 138	NT2	iridium 192
NT2	silver 105	NT2	chlorine 34	NT2	iridium 193
NT2	silver 107	NT2	chlorine 38	NT2	iridium 194
NT2	silver 109	NT2	cobalt 58	NT2	iron 53
NT2	silver 111	NT2	cobalt 60	NT2	krypton 79
NT2	silver 99	NT2	copper 68	NT2	krypton 81
NT2	tantalum 182	NT2	darmstadtium 271	NT2	krypton 83
NT2	technetium 96	NT2	dysprosium 140	NT2	krypton 84
NT2	technetium 97	NT2	dysprosium 147	NT2	krypton 85
NT2	technetium 99	NT2	dysprosium 149	NT2	krypton 86
NT2	tellurium 121	NT2	dysprosium 165	NT2	lanthanum 132
NT2	tellurium 123	NT2	erbium 151	NT2	lead 194
NT2	tellurium 125	NT2	erbium 167	NT2	lead 197
NT2	terbium 151	NT2	europium 141	NT2	lead 199
NT2	terbium 157	NT2	europium 152	NT2	lead 200
NT2	terbium 158	NT2	europium 154	NT2	lead 201
NT2	thallium 198	NT2	fermium 250	NT2	lead 202
NT2	thorium 234	NT2	fermium 256	NT2	lead 203
NT2	thulium 159	NT2	fluorine 18	NT2	lead 204
NT2	thulium 161	NT2	francium 206	NT2	lead 205
NT2	tin 113	NT2	francium 211	NT2	lead 207
NT2	tin 119	NT2	francium 212	NT2	lutetium 153
NT2	tin 121	NT2	francium 213	NT2	lutetium 154
NT2	tungsten 176	NT2	francium 218	NT2	lutetium 161
NT2	tungsten 181	NT2	gadolinium 141	NT2	lutetium 169
NT2	tungsten 185	NT2	gadolinium 145	NT2	lutetium 170
NT2	uranium 230	NT2	gadolinium 147	NT2	lutetium 171
NT2	uranium 235	NT2	gadolinium 148	NT2	lutetium 172
NT2	uranium 240	NT2	gallium 72	NT2	lutetium 174
NT2	xenon 125	NT2	gallium 74	NT2	lutetium 177
NT2	xenon 129	NT2	germanium 71	NT2	manganese 60
NT2	xenon 131	NT2	germanium 73	NT2	mercury 193
NT2	xenon 133	NT2	germanium 75	NT2	mercury 195
NT2	ytterbium 164	NT2	germanium 77	NT2	mercury 197
NT2	ytterbium 165	NT2	gold 191	NT2	mercury 199
NT2	ytterbium 166	NT2	gold 193	NT2	mercury 201
NT2	ytterbium 177	NT2	gold 195	NT2	molybdenum 89
NT2	yttrium 86	NT2	gold 196	NT2	molybdenum 91
NT1	isomeric transition isotopes	NT2	gold 197	NT2	molybdenum 92
NT2	actinium 222	NT2	gold 198	NT2	molybdenum 93
NT2	aluminium 24	NT2	gold 200	NT2	molybdenum 94
NT2	americium 242	NT2	hafnium 156	NT2	neodymium 137
NT2	antimony 113	NT2	hafnium 177	NT2	neodymium 139
NT2	antimony 117	NT2	hafnium 178	NT2	neodymium 141
NT2	antimony 122	NT2	hafnium 179	NT2	neptunium 237
NT2	antimony 124	NT2	hafnium 180	NT2	niobium 86
NT2	antimony 126	NT2	hafnium 182	NT2	niobium 90
NT2	antimony 131	NT2	holmium 148	NT2	niobium 91
NT2	arsenic 75	NT2	holmium 156	NT2	niobium 93
NT2	astatine 202	NT2	holmium 158	NT2	niobium 94
NT2	barium 127	NT2	holmium 159	NT2	niobium 95
NT2	barium 131	NT2	holmium 160	NT2	niobium 97
NT2	barium 133	NT2	holmium 161	NT2	nobelium 254
NT2	barium 135	NT2	holmium 162	NT2	osmium 182
NT2	barium 136	NT2	holmium 163	NT2	osmium 183
NT2	barium 137	NT2	holmium 164	NT2	osmium 189
NT2	barium 138	NT2	holmium 168	NT2	osmium 190
NT2	bismuth 198	NT2	indium 104	NT2	osmium 191
NT2	bismuth 201	NT2	indium 107	NT2	osmium 192
NT2	bismuth 208	NT2	indium 109	NT2	palladium 107
NT2	bismuth 211	NT2	indium 111	NT2	palladium 109
NT2	bromine 76	NT2	indium 112	NT2	palladium 111
NT2	bromine 77	NT2	indium 113	NT2	palladium 117
NT2	bromine 79	NT2	indium 114	NT2	platinum 184
NT2	bromine 80	NT2	indium 115	NT2	platinum 193
NT2	bromine 82	NT2	indium 116	NT2	platinum 195
NT2	bromine 83	NT2	indium 117	NT2	platinum 197
NT2	cadmium 100	NT2	indium 118	NT2	platinum 199
NT2	cadmium 111	NT2	indium 119	NT2	plutonium 237
NT2	cadmium 113	NT2	indium 121	NT2	polonium 201
NT2	cerium 135	NT2	iodine 116	NT2	polonium 203
NT2	cerium 137	NT2	iodine 121	NT2	polonium 207
NT2	cerium 138	NT2	iodine 122	NT2	polonium 210
NT2	cerium 139	NT2	iodine 130	NT2	potassium 40
NT2	cesium 121	NT2	iodine 132	NT2	praseodymium 142
NT2	cesium 123	NT2	iodine 133	NT2	praseodymium 144
NT2	cesium 134	NT2	iodine 134	NT2	promethium 148

NT2	protactinium 234	NT2	thallium 186	NT2	nobelium 250
NT2	radium 213	NT2	thallium 187	NT2	polonium 188
NT2	radon 197	NT2	thallium 193	NT2	polonium 213
NT2	radon 210	NT2	thallium 195	NT2	polonium 214
NT2	radon 211	NT2	thallium 196	NT2	protactinium 218
NT2	rhenium 167	NT2	thallium 197	NT2	protactinium 221
NT2	rhenium 169	NT2	thallium 198	NT2	radium 217
NT2	rhenium 184	NT2	thallium 201	NT2	radium 218
NT2	rhenium 186	NT2	thallium 206	NT2	radon 215
NT2	rhenium 188	NT2	thallium 207	NT2	radon 216
NT2	rhenium 190	NT2	thulium 150	NT2	radon 217
NT2	rhodium 100	NT2	thulium 162	NT2	rubidium 76
NT2	rhodium 101	NT2	thulium 164	NT2	rutherfordium 253
NT2	rhodium 103	NT2	tin 102	NT2	rutherfordium 254
NT2	rhodium 104	NT2	tin 113	NT2	tellurium 106
NT2	rhodium 105	NT2	tin 117	NT2	thorium 217
NT2	rhodium 95	NT2	tin 119	NT2	thorium 219
NT2	rhodium 96	NT2	tin 121	NT2	thorium 220
NT2	rhodium 97	NT2	tin 129	NT2	thulium 144
NT2	rubidium 76	NT2	tin 131	NT2	thulium 145
NT2	rubidium 78	NT2	tungsten 179	NT2	tin 102
NT2	rubidium 81	NT2	tungsten 180	NT2	uranium 219
NT2	rubidium 84	NT2	tungsten 183	NT2	uranium 222
NT2	rubidium 85	NT2	tungsten 185	NT2	uranium 223
NT2	rubidium 86	NT2	uranium 235	NT2	uranium 224
NT2	rubidium 90	NT2	xenon 125	NT2	ytterbium 153
NT2	ruthenium 93	NT2	xenon 127	NT1	milliseconds living radioisotopes
NT2	samarium 139	NT2	xenon 129	NT2	actinium 207
NT2	samarium 141	NT2	xenon 131	NT2	actinium 208
NT2	samarium 143	NT2	xenon 133	NT2	actinium 209
NT2	scandium 44	NT2	xenon 135	NT2	actinium 210
NT2	scandium 46	NT2	ytterbium 153	NT2	actinium 211
NT2	scandium 50	NT2	ytterbium 169	NT2	actinium 212
NT2	selenium 73	NT2	ytterbium 175	NT2	actinium 213
NT2	selenium 77	NT2	ytterbium 176	NT2	actinium 215
NT2	selenium 79	NT2	ytterbium 177	NT2	actinium 220
NT2	selenium 81	NT2	yttrium 86	NT2	actinium 221
NT2	silver 101	NT2	yttrium 87	NT2	aluminium 22
NT2	silver 102	NT2	yttrium 88	NT2	aluminium 23
NT2	silver 103	NT2	yttrium 89	NT2	aluminium 24
NT2	silver 105	NT2	yttrium 90	NT2	aluminium 31
NT2	silver 107	NT2	yttrium 91	NT2	aluminium 32
NT2	silver 108	NT2	yttrium 93	NT2	aluminium 34
NT2	silver 109	NT2	yttrium 97	NT2	antimony 104
NT2	silver 110	NT2	zinc 69	NT2	antimony 134
NT2	silver 111	NT2	zirconium 85	NT2	antimony 136
NT2	silver 113	NT2	zirconium 87	NT2	argon 31
NT2	silver 116	NT2	zirconium 89	NT2	argon 32
NT2	silver 118	NT2	zirconium 90	NT2	argon 33
NT2	silver 120	NT1	microseconds living radioisotopes	NT2	argon 34
NT2	silver 99	NT2	actinium 216	NT2	arsenic 64
NT2	sodium 22	NT2	actinium 218	NT2	arsenic 66
NT2	sodium 24	NT2	actinium 219	NT2	arsenic 75
NT2	strontium 83	NT2	astatine 215	NT2	arsenic 84
NT2	strontium 85	NT2	astatine 216	NT2	arsenic 86
NT2	strontium 87	NT2	chromium 64	NT2	arsenic 87
NT2	tantalum 182	NT2	darmstadtium 269	NT2	astatine 191
NT2	technetium 102	NT2	dysprosium 140	NT2	astatine 193
NT2	technetium 93	NT2	element 112 277	NT2	astatine 194
NT2	technetium 95	NT2	europium 130	NT2	astatine 195
NT2	technetium 96	NT2	fermium 242	NT2	astatine 196
NT2	technetium 97	NT2	fermium 258	NT2	astatine 197
NT2	technetium 99	NT2	francium 212	NT2	astatine 212
NT2	tellurium 121	NT2	francium 213	NT2	astatine 217
NT2	tellurium 123	NT2	francium 217	NT2	barium 114
NT2	tellurium 125	NT2	gold 170	NT2	barium 115
NT2	tellurium 127	NT2	gold 171	NT2	barium 116
NT2	tellurium 129	NT2	hafnium 156	NT2	barium 136
NT2	tellurium 131	NT2	hassium 264	NT2	barium 147
NT2	tellurium 133	NT2	hassium 265	NT2	barium 148
NT2	terbium 144	NT2	iodine 109	NT2	barium 149
NT2	terbium 146	NT2	iodine 116	NT2	beryllium 12
NT2	terbium 151	NT2	iodine 121	NT2	beryllium 14
NT2	terbium 152	NT2	iodine 122	NT2	bismuth 186
NT2	terbium 154	NT2	krypton 84	NT2	bohrium 261
NT2	terbium 156	NT2	krypton 85	NT2	bohrium 262
NT2	terbium 158	NT2	lutetium 154	NT2	bohrium 264
NT2	thallium 179	NT2	meitnerium 266	NT2	bohrium 265
NT2	thallium 185	NT2	mercury 201	NT2	boron 12

NT2 boron 13	NT2 germanium 61	NT2 mercury 176
NT2 boron 14	NT2 germanium 62	NT2 mercury 177
NT2 boron 15	NT2 germanium 71	NT2 mercury 178
NT2 boron 17	NT2 germanium 73	NT2 molybdenum 109
NT2 boron 8	NT2 germanium 85	NT2 molybdenum 89
NT2 bromine 70	NT2 gold 172	NT2 neodymium 125
NT2 bromine 91	NT2 gold 173	NT2 neon 17
NT2 bromine 92	NT2 gold 174	NT2 neon 25
NT2 bromine 93	NT2 gold 175	NT2 neon 26
NT2 cadmium 125	NT2 gold 191	NT2 neptunium 226
NT2 cadmium 126	NT2 hafnium 155	NT2 neptunium 227
NT2 cadmium 127	NT2 hafnium 156	NT2 nickel 49
NT2 cadmium 128	NT2 hafnium 157	NT2 nickel 50
NT2 cadmium 130	NT2 hassium 265	NT2 nickel 52
NT2 cadmium 96	NT2 hassium 266	NT2 nickel 53
NT2 calcium 36	NT2 hassium 267	NT2 nickel 55
NT2 calcium 37	NT2 helium 6	NT2 nickel 73
NT2 calcium 38	NT2 helium 8	NT2 niobium 108
NT2 calcium 39	NT2 holmium 141	NT2 nitrogen 12
NT2 calcium 53	NT2 holmium 143	NT2 nitrogen 18
NT2 carbon 16	NT2 holmium 144	NT2 nitrogen 19
NT2 carbon 17	NT2 holmium 148	NT2 nobelium 251
NT2 carbon 18	NT2 indium 114	NT2 nobelium 254
NT2 carbon 9	NT2 indium 128	NT2 nobelium 258
NT2 cesium 114	NT2 indium 129	NT2 osmium 162
NT2 cesium 116	NT2 indium 130	NT2 osmium 164
NT2 cesium 145	NT2 indium 131	NT2 osmium 165
NT2 cesium 146	NT2 indium 132	NT2 osmium 166
NT2 cesium 147	NT2 indium 133	NT2 osmium 167
NT2 cesium 148	NT2 indium 134	NT2 oxygen 13
NT2 cesium 149	NT2 indium 135	NT2 oxygen 24
NT2 cesium 150	NT2 iodine 108	NT2 palladium 117
NT2 chlorine 31	NT2 iodine 110	NT2 palladium 119
NT2 chlorine 32	NT2 iodine 140	NT2 palladium 120
NT2 chromium 45	NT2 iodine 141	NT2 phosphorus 26
NT2 chromium 46	NT2 iodine 142	NT2 phosphorus 27
NT2 chromium 47	NT2 iridium 166	NT2 phosphorus 28
NT2 chromium 60	NT2 iridium 167	NT2 phosphorus 38
NT2 chromium 62	NT2 iridium 169	NT2 platinum 169
NT2 chromium 63	NT2 iridium 194	NT2 platinum 170
NT2 chromium 64	NT2 iron 45	NT2 platinum 171
NT2 chromium 65	NT2 iron 46	NT2 platinum 172
NT2 chromium 66	NT2 iron 49	NT2 platinum 173
NT2 cobalt 52	NT2 iron 51	NT2 platinum 174
NT2 cobalt 53	NT2 krypton 71	NT2 platinum 184
NT2 cobalt 54	NT2 krypton 94	NT2 plutonium 230
NT2 cobalt 64	NT2 krypton 95	NT2 polonium 190
NT2 cobalt 66	NT2 lanthanum 150	NT2 polonium 192
NT2 cobalt 67	NT2 lawrencium 257	NT2 polonium 193
NT2 copper 56	NT2 lead 180	NT2 polonium 194
NT2 copper 57	NT2 lead 182	NT2 polonium 211
NT2 copper 76	NT2 lead 184	NT2 polonium 215
NT2 copper 77	NT2 lead 205	NT2 polonium 216
NT2 copper 78	NT2 lead 207	NT2 potassium 35
NT2 copper 79	NT2 lithium 10	NT2 potassium 36
NT2 darmstadtium 270	NT2 lithium 11	NT2 potassium 50
NT2 darmstadtium 271	NT2 lithium 8	NT2 potassium 51
NT2 dysprosium 149	NT2 lithium 9	NT2 potassium 52
NT2 erbium 151	NT2 lutetium 151	NT2 potassium 53
NT2 europium 131	NT2 lutetium 152	NT2 potassium 54
NT2 europium 134	NT2 lutetium 153	NT2 protactinium 212
NT2 fermium 243	NT2 lutetium 155	NT2 protactinium 213
NT2 fermium 244	NT2 lutetium 156	NT2 protactinium 214
NT2 fluorine 24	NT2 lutetium 161	NT2 protactinium 215
NT2 francium 199	NT2 lutetium 170	NT2 protactinium 216
NT2 francium 200	NT2 magnesium 19	NT2 protactinium 217
NT2 francium 201	NT2 magnesium 20	NT2 protactinium 222
NT2 francium 202	NT2 magnesium 21	NT2 protactinium 223
NT2 francium 203	NT2 magnesium 30	NT2 protactinium 224
NT2 francium 206	NT2 magnesium 31	NT2 radium 205
NT2 francium 214	NT2 manganese 48	NT2 radium 206
NT2 francium 218	NT2 manganese 49	NT2 radium 213
NT2 francium 219	NT2 manganese 50	NT2 radium 215
NT2 gallium 60	NT2 manganese 61	NT2 radium 219
NT2 gallium 62	NT2 manganese 62	NT2 radium 220
NT2 gallium 72	NT2 manganese 63	NT2 radon 197
NT2 gallium 82	NT2 meitnerium 266	NT2 radon 199
NT2 gallium 83	NT2 meitnerium 268	NT2 radon 213
NT2 gallium 84	NT2 mercury 175	NT2 radon 218

NT2	rhenium 161	NT2	thallium 179	NT2	antimony 130
NT2	rhenium 162	NT2	thallium 183	NT2	antimony 131
NT2	rhenium 163	NT2	thorium 212	NT2	antimony 132
NT2	rhenium 164	NT2	thorium 213	NT2	antimony 133
NT2	rhodium 115	NT2	thorium 214	NT2	argon 43
NT2	rhodium 116	NT2	thorium 216	NT2	argon 44
NT2	rhodium 118	NT2	thorium 221	NT2	arsenic 68
NT2	rhodium 92	NT2	thorium 222	NT2	arsenic 69
NT2	roentgenium 272	NT2	thorium 223	NT2	arsenic 70
NT2	roentgenium 279	NT2	thulium 146	NT2	arsenic 79
NT2	rubidium 100	NT2	thulium 147	NT2	astatine 201
NT2	rubidium 74	NT2	thulium 150	NT2	astatine 202
NT2	rubidium 95	NT2	tin 135	NT2	astatine 203
NT2	rubidium 96	NT2	tin 137	NT2	astatine 204
NT2	rubidium 97	NT2	titanium 40	NT2	astatine 205
NT2	rubidium 98	NT2	titanium 41	NT2	astatine 206
NT2	rubidium 99	NT2	titanium 42	NT2	astatine 220
NT2	ruthenium 114	NT2	titanium 43	NT2	astatine 221
NT2	rutherfordium 254	NT2	titanium 58	NT2	barium 122
NT2	rutherfordium 256	NT2	titanium 59	NT2	barium 123
NT2	rutherfordium 258	NT2	titanium 60	NT2	barium 124
NT2	rutherfordium 260	NT2	tungsten 159	NT2	barium 125
NT2	rutherfordium 262	NT2	tungsten 160	NT2	barium 127
NT2	scandium 40	NT2	tungsten 161	NT2	barium 131
NT2	scandium 41	NT2	uranium 218	NT2	barium 137
NT2	scandium 42	NT2	uranium 225	NT2	barium 141
NT2	scandium 50	NT2	uranium 226	NT2	barium 142
NT2	scandium 57	NT2	vanadium 42	NT2	berkelium 240
NT2	scandium 58	NT2	vanadium 44	NT2	berkelium 242
NT2	seaborgium 259	NT2	vanadium 45	NT2	berkelium 251
NT2	seaborgium 260	NT2	vanadium 46	NT2	bismuth 193
NT2	seaborgium 261	NT2	xenon 110	NT2	bismuth 194
NT2	seaborgium 262	NT2	xenon 111	NT2	bismuth 195
NT2	seaborgium 263	NT2	xenon 143	NT2	bismuth 196
NT2	selenium 65	NT2	xenon 145	NT2	bismuth 197
NT2	selenium 66	NT2	ytterbium 154	NT2	bismuth 198
NT2	selenium 67	NT2	ytterbium 175	NT2	bismuth 199
NT2	selenium 89	NT2	yttrium 100	NT2	bismuth 200
NT2	selenium 91	NT2	yttrium 101	NT2	bismuth 201
NT2	silicon 24	NT2	yttrium 102	NT2	bismuth 211
NT2	silicon 25	NT2	yttrium 103	NT2	bismuth 212
NT2	silicon 35	NT2	yttrium 88	NT2	bismuth 213
NT2	silicon 36	NT2	yttrium 93	NT2	bismuth 214
NT2	silver 120	NT2	yttrium 97	NT2	bismuth 215
NT2	silver 121	NT2	yttrium 98	NT2	bismuth 216
NT2	silver 123	NT2	zinc 57	NT2	bromine 72
NT2	silver 94	NT2	zinc 59	NT2	bromine 73
NT2	silver 95	NT2	zinc 80	NT2	bromine 74
NT2	sodium 19	NT2	zinc 81	NT2	bromine 77
NT2	sodium 24	NT2	zirconium 105	NT2	bromine 78
NT2	sodium 27	NT2	zirconium 90	NT2	bromine 80
NT2	sodium 28	NT1	minutes living radioisotopes	NT2	bromine 82
NT2	sodium 29	NT2	actinium 222	NT2	bromine 84
NT2	sodium 30	NT2	actinium 223	NT2	bromine 85
NT2	sodium 31	NT2	actinium 230	NT2	cadmium 100
NT2	sodium 32	NT2	actinium 231	NT2	cadmium 101
NT2	sodium 33	NT2	actinium 232	NT2	cadmium 102
NT2	sodium 34	NT2	actinium 233	NT2	cadmium 103
NT2	sodium 35	NT2	aluminium 28	NT2	cadmium 104
NT2	strontium 100	NT2	aluminium 29	NT2	cadmium 105
NT2	strontium 101	NT2	americium 233	NT2	cadmium 111
NT2	strontium 102	NT2	americium 234	NT2	cadmium 118
NT2	strontium 75	NT2	americium 235	NT2	cadmium 119
NT2	strontium 97	NT2	americium 236	NT2	calcium 49
NT2	strontium 98	NT2	americium 244	NT2	californium 240
NT2	strontium 99	NT2	americium 246	NT2	californium 241
NT2	sulfur 28	NT2	americium 247	NT2	californium 242
NT2	sulfur 29	NT2	antimony 111	NT2	californium 243
NT2	tantalum 156	NT2	antimony 113	NT2	californium 244
NT2	tantalum 157	NT2	antimony 114	NT2	californium 245
NT2	tantalum 158	NT2	antimony 115	NT2	californium 256
NT2	tantalum 159	NT2	antimony 116	NT2	carbon 11
NT2	tantalum 182	NT2	antimony 118	NT2	cerium 128
NT2	technetium 110	NT2	antimony 120	NT2	cerium 129
NT2	technetium 111	NT2	antimony 122	NT2	cerium 130
NT2	technetium 112	NT2	antimony 124	NT2	cerium 131
NT2	technetium 113	NT2	antimony 126	NT2	cerium 145
NT2	tellurium 107	NT2	antimony 128	NT2	cerium 146
NT2	terbium 146	NT2	antimony 129	NT2	cesium 120

NT2 cesium 121	NT2 gallium 75	NT2 lanthanum 132
NT2 cesium 122	NT2 germanium 64	NT2 lanthanum 134
NT2 cesium 123	NT2 germanium 67	NT2 lanthanum 136
NT2 cesium 125	NT2 gold 185	NT2 lanthanum 143
NT2 cesium 126	NT2 gold 186	NT2 lawrencium 260
NT2 cesium 128	NT2 gold 187	NT2 lead 190
NT2 cesium 130	NT2 gold 188	NT2 lead 191
NT2 cesium 135	NT2 gold 189	NT2 lead 192
NT2 cesium 138	NT2 gold 190	NT2 lead 193
NT2 cesium 139	NT2 gold 200	NT2 lead 194
NT2 cesium 140	NT2 gold 201	NT2 lead 195
NT2 chlorine 34	NT2 hafnium 164	NT2 lead 196
NT2 chlorine 38	NT2 hafnium 165	NT2 lead 197
NT2 chlorine 39	NT2 hafnium 166	NT2 lead 199
NT2 chlorine 40	NT2 hafnium 167	NT2 lead 201
NT2 chromium 49	NT2 hafnium 168	NT2 lead 211
NT2 chromium 55	NT2 hafnium 169	NT2 lead 213
NT2 chromium 56	NT2 hafnium 177	NT2 lead 214
NT2 cobalt 54	NT2 holmium 150	NT2 lutetium 161
NT2 cobalt 60	NT2 holmium 152	NT2 lutetium 162
NT2 cobalt 62	NT2 holmium 153	NT2 lutetium 163
NT2 copper 59	NT2 holmium 154	NT2 lutetium 164
NT2 copper 60	NT2 holmium 155	NT2 lutetium 165
NT2 copper 62	NT2 holmium 156	NT2 lutetium 166
NT2 copper 66	NT2 holmium 157	NT2 lutetium 167
NT2 copper 68	NT2 holmium 158	NT2 lutetium 168
NT2 copper 69	NT2 holmium 159	NT2 lutetium 169
NT2 curium 236	NT2 holmium 160	NT2 lutetium 171
NT2 curium 237	NT2 holmium 162	NT2 lutetium 172
NT2 curium 251	NT2 holmium 164	NT2 lutetium 178
NT2 dysprosium 147	NT2 holmium 168	NT2 lutetium 180
NT2 dysprosium 148	NT2 holmium 169	NT2 lutetium 181
NT2 dysprosium 149	NT2 holmium 170	NT2 lutetium 182
NT2 dysprosium 150	NT2 indium 103	NT2 lutetium 187
NT2 dysprosium 151	NT2 indium 104	NT2 magnesium 27
NT2 dysprosium 165	NT2 indium 105	NT2 manganese 50
NT2 dysprosium 167	NT2 indium 106	NT2 manganese 51
NT2 dysprosium 168	NT2 indium 107	NT2 manganese 52
NT2 einsteinium 245	NT2 indium 108	NT2 manganese 57
NT2 einsteinium 246	NT2 indium 109	NT2 manganese 58
NT2 einsteinium 247	NT2 indium 111	NT2 mendelevium 251
NT2 einsteinium 248	NT2 indium 112	NT2 mendelevium 252
NT2 einsteinium 256	NT2 indium 114	NT2 mendelevium 253
NT2 element 112 283	NT2 indium 116	NT2 mendelevium 254
NT2 erbium 154	NT2 indium 117	NT2 mendelevium 255
NT2 erbium 155	NT2 indium 118	NT2 mendelevium 258
NT2 erbium 156	NT2 indium 119	NT2 mercury 186
NT2 erbium 157	NT2 indium 121	NT2 mercury 187
NT2 erbium 159	NT2 iodine 115	NT2 mercury 188
NT2 erbium 173	NT2 iodine 117	NT2 mercury 189
NT2 erbium 174	NT2 iodine 118	NT2 mercury 190
NT2 europium 142	NT2 iodine 119	NT2 mercury 191
NT2 europium 143	NT2 iodine 120	NT2 mercury 199
NT2 europium 154	NT2 iodine 122	NT2 mercury 205
NT2 europium 158	NT2 iodine 128	NT2 mercury 206
NT2 europium 159	NT2 iodine 130	NT2 molybdenum 101
NT2 fermium 249	NT2 iodine 134	NT2 molybdenum 102
NT2 fermium 250	NT2 iodine 136	NT2 molybdenum 103
NT2 fluorine 17	NT2 iridium 179	NT2 molybdenum 104
NT2 francium 210	NT2 iridium 180	NT2 molybdenum 88
NT2 francium 211	NT2 iridium 181	NT2 molybdenum 89
NT2 francium 212	NT2 iridium 182	NT2 molybdenum 91
NT2 francium 221	NT2 iridium 183	NT2 neodymium 132
NT2 francium 222	NT2 iridium 192	NT2 neodymium 133
NT2 francium 223	NT2 iridium 197	NT2 neodymium 134
NT2 francium 224	NT2 iridium 199	NT2 neodymium 135
NT2 francium 225	NT2 iron 53	NT2 neodymium 136
NT2 francium 227	NT2 iron 61	NT2 neodymium 137
NT2 gadolinium 142	NT2 iron 62	NT2 neodymium 139
NT2 gadolinium 143	NT2 krypton 74	NT2 neodymium 141
NT2 gadolinium 144	NT2 krypton 75	NT2 neodymium 151
NT2 gadolinium 145	NT2 krypton 89	NT2 neodymium 152
NT2 gadolinium 161	NT2 lanthanum 125	NT2 neon 24
NT2 gadolinium 162	NT2 lanthanum 126	NT2 neptunium 229
NT2 gadolinium 163	NT2 lanthanum 127	NT2 neptunium 230
NT2 gallium 64	NT2 lanthanum 128	NT2 neptunium 231
NT2 gallium 65	NT2 lanthanum 129	NT2 neptunium 232
NT2 gallium 70	NT2 lanthanum 130	NT2 neptunium 233
NT2 gallium 74	NT2 lanthanum 131	NT2 neptunium 240

NT2	neptunium 241	NT2	protactinium 226	NT2	selenium 84
NT2	neptunium 242	NT2	protactinium 227	NT2	silver 100
NT2	neptunium 243	NT2	protactinium 234	NT2	silver 101
NT2	neptunium 244	NT2	protactinium 235	NT2	silver 102
NT2	niobium 85	NT2	protactinium 236	NT2	silver 104
NT2	niobium 86	NT2	protactinium 237	NT2	silver 105
NT2	niobium 87	NT2	protactinium 238	NT2	silver 106
NT2	niobium 88	NT2	radium 213	NT2	silver 108
NT2	niobium 94	NT2	radium 227	NT2	silver 111
NT2	niobium 98	NT2	radium 229	NT2	silver 113
NT2	niobium 99	NT2	radium 231	NT2	silver 115
NT2	nitrogen 13	NT2	radium 232	NT2	silver 116
NT2	nobelium 253	NT2	radon 204	NT2	silver 117
NT2	nobelium 255	NT2	radon 205	NT2	silver 99
NT2	nobelium 259	NT2	radon 206	NT2	strontium 78
NT2	osmium 175	NT2	radon 207	NT2	strontium 79
NT2	osmium 176	NT2	radon 208	NT2	strontium 81
NT2	osmium 177	NT2	radon 209	NT2	strontium 93
NT2	osmium 178	NT2	radon 212	NT2	strontium 94
NT2	osmium 179	NT2	radon 221	NT2	sulfur 37
NT2	osmium 180	NT2	radon 223	NT2	tantalum 167
NT2	osmium 181	NT2	radon 225	NT2	tantalum 168
NT2	osmium 190	NT2	radon 226	NT2	tantalum 169
NT2	osmium 195	NT2	rhodium 173	NT2	tantalum 170
NT2	osmium 196	NT2	rhodium 174	NT2	tantalum 171
NT2	oxygen 14	NT2	rhodium 175	NT2	tantalum 172
NT2	oxygen 15	NT2	rhodium 176	NT2	tantalum 178
NT2	palladium 109	NT2	rhodium 177	NT2	tantalum 182
NT2	palladium 111	NT2	rhodium 178	NT2	tantalum 185
NT2	palladium 113	NT2	rhodium 179	NT2	tantalum 186
NT2	palladium 114	NT2	rhodium 180	NT2	technetium 101
NT2	palladium 96	NT2	rhodium 188	NT2	technetium 102
NT2	palladium 97	NT2	rhodium 190	NT2	technetium 104
NT2	palladium 98	NT2	rhodium 191	NT2	technetium 105
NT2	palladium 99	NT2	rhodium 100	NT2	technetium 91
NT2	phosphorus 30	NT2	rhodium 103	NT2	technetium 92
NT2	platinum 182	NT2	rhodium 104	NT2	technetium 93
NT2	platinum 183	NT2	rhodium 107	NT2	technetium 94
NT2	platinum 184	NT2	rhodium 108	NT2	technetium 96
NT2	platinum 185	NT2	rhodium 109	NT2	tellurium 112
NT2	platinum 199	NT2	rhodium 94	NT2	tellurium 113
NT2	platinum 201	NT2	rhodium 95	NT2	tellurium 114
NT2	plutonium 232	NT2	rhodium 96	NT2	tellurium 115
NT2	plutonium 233	NT2	rhodium 97	NT2	tellurium 131
NT2	plutonium 235	NT2	rhodium 98	NT2	tellurium 133
NT2	polonium 198	NT2	rubidium 77	NT2	tellurium 134
NT2	polonium 199	NT2	rubidium 78	NT2	terbium 147
NT2	polonium 200	NT2	rubidium 79	NT2	terbium 148
NT2	polonium 201	NT2	rubidium 81	NT2	terbium 149
NT2	polonium 202	NT2	rubidium 82	NT2	terbium 150
NT2	polonium 203	NT2	rubidium 84	NT2	terbium 152
NT2	polonium 218	NT2	rubidium 86	NT2	terbium 162
NT2	potassium 38	NT2	rubidium 88	NT2	terbium 163
NT2	potassium 44	NT2	rubidium 89	NT2	terbium 164
NT2	potassium 45	NT2	rubidium 90	NT2	terbium 165
NT2	potassium 46	NT2	ruthenium 107	NT2	thallium 188
NT2	praseodymium 131	NT2	ruthenium 108	NT2	thallium 189
NT2	praseodymium 132	NT2	ruthenium 92	NT2	thallium 190
NT2	praseodymium 133	NT2	ruthenium 93	NT2	thallium 191
NT2	praseodymium 134	NT2	ruthenium 94	NT2	thallium 192
NT2	praseodymium 135	NT2	rutherfordium 261	NT2	thallium 193
NT2	praseodymium 136	NT2	rutherfordium 263	NT2	thallium 194
NT2	praseodymium 138	NT2	samarium 138	NT2	thallium 206
NT2	praseodymium 140	NT2	samarium 139	NT2	thallium 207
NT2	praseodymium 142	NT2	samarium 140	NT2	thallium 208
NT2	praseodymium 144	NT2	samarium 141	NT2	thallium 209
NT2	praseodymium 146	NT2	samarium 143	NT2	thallium 210
NT2	praseodymium 147	NT2	samarium 155	NT2	thorium 225
NT2	praseodymium 148	NT2	samarium 157	NT2	thorium 226
NT2	praseodymium 149	NT2	samarium 158	NT2	thorium 233
NT2	promethium 136	NT2	scandium 49	NT2	thorium 235
NT2	promethium 137	NT2	scandium 50	NT2	thorium 236
NT2	promethium 138	NT2	selenium 68	NT2	thorium 237
NT2	promethium 139	NT2	selenium 70	NT2	thulium 156
NT2	promethium 140	NT2	selenium 71	NT2	thulium 157
NT2	promethium 141	NT2	selenium 73	NT2	thulium 158
NT2	promethium 152	NT2	selenium 79	NT2	thulium 159
NT2	promethium 153	NT2	selenium 81	NT2	thulium 160
NT2	promethium 154	NT2	selenium 83	NT2	thulium 161

NT2	thulium 162	NT2	actinium 217	NT2	aluminium 25
NT2	thulium 164	NT2	aluminium 40	NT2	aluminium 26
NT2	thulium 174	NT2	antimony 113	NT2	aluminium 30
NT2	thulium 175	NT2	antimony 117	NT2	americium 232
NT2	thulium 176	NT2	astatine 213	NT2	antimony 105
NT2	thulium 177	NT2	astatine 214	NT2	antimony 106
NT2	tin 106	NT2	barium 138	NT2	antimony 107
NT2	tin 107	NT2	bismuth 211	NT2	antimony 108
NT2	tin 108	NT2	bromine 83	NT2	antimony 109
NT2	tin 109	NT2	cesium 113	NT2	antimony 110
NT2	tin 111	NT2	chromium 65	NT2	antimony 112
NT2	tin 113	NT2	chromium 66	NT2	antimony 126
NT2	tin 123	NT2	fermium 256	NT2	antimony 134
NT2	tin 125	NT2	fluorine 18	NT2	antimony 135
NT2	tin 127	NT2	francium 211	NT2	argon 35
NT2	tin 128	NT2	francium 212	NT2	argon 45
NT2	tin 129	NT2	francium 213	NT2	argon 46
NT2	tin 130	NT2	francium 215	NT2	arsenic 67
NT2	tin 131	NT2	francium 216	NT2	arsenic 80
NT2	titanium 51	NT2	gadolinium 147	NT2	arsenic 81
NT2	titanium 52	NT2	gadolinium 148	NT2	arsenic 82
NT2	tungsten 170	NT2	krypton 86	NT2	arsenic 83
NT2	tungsten 171	NT2	krypton 97	NT2	arsenic 84
NT2	tungsten 172	NT2	lead 194	NT2	arsenic 85
NT2	tungsten 173	NT2	lead 200	NT2	astatine 198
NT2	tungsten 174	NT2	magnesium 39	NT2	astatine 199
NT2	tungsten 175	NT2	molybdenum 92	NT2	astatine 200
NT2	tungsten 179	NT2	molybdenum 94	NT2	astatine 202
NT2	tungsten 185	NT2	neptunium 237	NT2	astatine 218
NT2	tungsten 189	NT2	osmium 182	NT2	astatine 219
NT2	tungsten 190	NT2	phosphorus 25	NT2	astatine 222
NT2	uranium 227	NT2	plutonium 237	NT2	astatine 223
NT2	uranium 228	NT2	polonium 210	NT2	barium 117
NT2	uranium 229	NT2	polonium 212	NT2	barium 118
NT2	uranium 235	NT2	potassium 40	NT2	barium 119
NT2	uranium 239	NT2	protactinium 219	NT2	barium 120
NT2	uranium 241	NT2	protactinium 220	NT2	barium 121
NT2	uranium 242	NT2	radium 216	NT2	barium 127
NT2	vanadium 47	NT2	radon 210	NT2	barium 143
NT2	vanadium 52	NT2	radon 211	NT2	barium 144
NT2	vanadium 53	NT2	radon 214	NT2	barium 145
NT2	xenon 117	NT2	rhodium 90	NT2	barium 146
NT2	xenon 118	NT2	rhodium 91	NT2	beryllium 11
NT2	xenon 119	NT2	rubidium 85	NT2	bismuth 189
NT2	xenon 120	NT2	sodium 22	NT2	bismuth 190
NT2	xenon 121	NT2	thorium 218	NT2	bismuth 191
NT2	xenon 127	NT2	titanium 58	NT2	bismuth 192
NT2	xenon 135	NT2	titanium 59	NT2	bismuth 193
NT2	xenon 137	NT2	vanadium 61	NT2	bismuth 198
NT2	xenon 138	NT2	vanadium 62	NT2	bohrium 271
NT2	ytterbium 158	NT2	vanadium 63	NT2	bromine 71
NT2	ytterbium 159	NT2	zirconium 109	NT2	bromine 76
NT2	ytterbium 160	NT1	neutron-deficient isotopes	NT2	bromine 79
NT2	ytterbium 161	NT1	proton decay radioisotopes	NT2	bromine 86
NT2	ytterbium 162	NT2	arsenic 64	NT2	bromine 87
NT2	ytterbium 163	NT2	cesium 113	NT2	bromine 88
NT2	ytterbium 165	NT2	cobalt 52	NT2	bromine 89
NT2	ytterbium 167	NT2	cobalt 53	NT2	bromine 90
NT2	ytterbium 179	NT2	europium 130	NT2	cadmium 120
NT2	ytterbium 180	NT2	europium 131	NT2	cadmium 121
NT2	yttrium 81	NT2	fluorine 14	NT2	cadmium 122
NT2	yttrium 83	NT2	germanium 62	NT2	cadmium 123
NT2	yttrium 84	NT2	gold 170	NT2	cadmium 124
NT2	yttrium 86	NT2	gold 171	NT2	cadmium 97
NT2	yttrium 91	NT2	holmium 141	NT2	cadmium 98
NT2	yttrium 94	NT2	iodine 109	NT2	cadmium 99
NT2	yttrium 95	NT2	iron 45	NT2	calcium 50
NT2	zinc 60	NT2	lutetium 151	NT2	calcium 51
NT2	zinc 61	NT2	scandium 39	NT2	calcium 52
NT2	zinc 63	NT2	selenium 66	NT2	californium 239
NT2	zinc 69	NT2	thulium 144	NT2	carbon 10
NT2	zinc 71	NT2	thulium 145	NT2	carbon 15
NT2	zinc 74	NT2	thulium 146	NT2	cerium 121
NT2	zirconium 81	NT2	thulium 147	NT2	cerium 123
NT2	zirconium 82	NT1	seconds living radioisotopes	NT2	cerium 124
NT2	zirconium 84	NT2	actinium 214	NT2	cerium 125
NT2	zirconium 85	NT2	actinium 222	NT2	cerium 126
NT2	zirconium 89	NT2	actinium 234	NT2	cerium 127
NT1	nanoseconds living radioisotopes	NT2	aluminium 24	NT2	cerium 135

NT2 cerium 139	NT2 fermium 247	NT2 holmium 151
NT2 cerium 147	NT2 fermium 248	NT2 holmium 152
NT2 cerium 148	NT2 fermium 250	NT2 holmium 159
NT2 cerium 149	NT2 fermium 259	NT2 holmium 161
NT2 cerium 150	NT2 fluorine 20	NT2 holmium 163
NT2 cerium 151	NT2 fluorine 21	NT2 holmium 170
NT2 cerium 152	NT2 fluorine 22	NT2 holmium 171
NT2 cesium 115	NT2 fluorine 23	NT2 holmium 172
NT2 cesium 116	NT2 francium 204	NT2 indium 101
NT2 cesium 117	NT2 francium 205	NT2 indium 102
NT2 cesium 118	NT2 francium 206	NT2 indium 104
NT2 cesium 119	NT2 francium 207	NT2 indium 105
NT2 cesium 122	NT2 francium 208	NT2 indium 107
NT2 cesium 123	NT2 francium 209	NT2 indium 116
NT2 cesium 124	NT2 francium 213	NT2 indium 118
NT2 cesium 136	NT2 francium 220	NT2 indium 120
NT2 cesium 141	NT2 francium 226	NT2 indium 121
NT2 cesium 142	NT2 francium 228	NT2 indium 122
NT2 cesium 143	NT2 francium 229	NT2 indium 123
NT2 cesium 144	NT2 francium 230	NT2 indium 124
NT2 chlorine 33	NT2 francium 231	NT2 indium 125
NT2 chlorine 34	NT2 francium 232	NT2 indium 126
NT2 chlorine 38	NT2 gadolinium 135	NT2 indium 127
NT2 chlorine 41	NT2 gadolinium 140	NT2 indium 129
NT2 chromium 57	NT2 gadolinium 141	NT2 iodine 111
NT2 chromium 58	NT2 gadolinium 143	NT2 iodine 112
NT2 chromium 59	NT2 gadolinium 164	NT2 iodine 113
NT2 cobalt 63	NT2 gadolinium 165	NT2 iodine 114
NT2 cobalt 65	NT2 gallium 63	NT2 iodine 116
NT2 copper 58	NT2 gallium 74	NT2 iodine 133
NT2 copper 68	NT2 gallium 76	NT2 iodine 136
NT2 copper 70	NT2 gallium 77	NT2 iodine 137
NT2 copper 71	NT2 gallium 78	NT2 iodine 138
NT2 copper 72	NT2 gallium 79	NT2 iodine 139
NT2 copper 73	NT2 gallium 80	NT2 iridium 170
NT2 copper 74	NT2 gallium 81	NT2 iridium 171
NT2 copper 75	NT2 germanium 65	NT2 iridium 172
NT2 dubnium 255	NT2 germanium 75	NT2 iridium 173
NT2 dubnium 256	NT2 germanium 77	NT2 iridium 174
NT2 dubnium 257	NT2 germanium 79	NT2 iridium 175
NT2 dubnium 258	NT2 germanium 80	NT2 iridium 176
NT2 dubnium 259	NT2 germanium 81	NT2 iridium 177
NT2 dubnium 260	NT2 germanium 82	NT2 iridium 178
NT2 dubnium 261	NT2 germanium 83	NT2 iridium 191
NT2 dubnium 262	NT2 germanium 84	NT2 iridium 196
NT2 dubnium 263	NT2 gold 176	NT2 iridium 198
NT2 dysprosium 140	NT2 gold 177	NT2 iron 52
NT2 dysprosium 141	NT2 gold 178	NT2 iron 63
NT2 dysprosium 142	NT2 gold 179	NT2 iron 64
NT2 dysprosium 143	NT2 gold 180	NT2 krypton 72
NT2 dysprosium 144	NT2 gold 181	NT2 krypton 73
NT2 dysprosium 145	NT2 gold 182	NT2 krypton 79
NT2 dysprosium 146	NT2 gold 183	NT2 krypton 81
NT2 dysprosium 147	NT2 gold 184	NT2 krypton 90
NT2 dysprosium 169	NT2 gold 193	NT2 krypton 91
NT2 einsteinium 243	NT2 gold 195	NT2 krypton 92
NT2 einsteinium 244	NT2 gold 196	NT2 krypton 93
NT2 erbium 146	NT2 gold 197	NT2 lanthanum 120
NT2 erbium 147	NT2 gold 202	NT2 lanthanum 121
NT2 erbium 148	NT2 gold 203	NT2 lanthanum 122
NT2 erbium 149	NT2 gold 204	NT2 lanthanum 123
NT2 erbium 150	NT2 gold 205	NT2 lanthanum 124
NT2 erbium 151	NT2 hafnium 154	NT2 lanthanum 144
NT2 erbium 152	NT2 hafnium 158	NT2 lanthanum 145
NT2 erbium 153	NT2 hafnium 159	NT2 lanthanum 146
NT2 erbium 167	NT2 hafnium 160	NT2 lanthanum 147
NT2 europium 135	NT2 hafnium 161	NT2 lanthanum 148
NT2 europium 136	NT2 hafnium 162	NT2 lanthanum 149
NT2 europium 138	NT2 hafnium 163	NT2 lawrencium 252
NT2 europium 139	NT2 hafnium 177	NT2 lawrencium 253
NT2 europium 140	NT2 hafnium 178	NT2 lawrencium 254
NT2 europium 141	NT2 hafnium 179	NT2 lawrencium 255
NT2 europium 142	NT2 hassium 270	NT2 lawrencium 256
NT2 europium 144	NT2 hassium 271	NT2 lawrencium 258
NT2 europium 160	NT2 holmium 145	NT2 lawrencium 259
NT2 europium 161	NT2 holmium 146	NT2 lead 185
NT2 europium 162	NT2 holmium 148	NT2 lead 186
NT2 fermium 245	NT2 holmium 149	NT2 lead 187
NT2 fermium 246	NT2 holmium 150	NT2 lead 188



NT2	lead 189	NT2	oxygen 19	NT2	radon 202
NT2	lead 203	NT2	oxygen 20	NT2	radon 203
NT2	lutetium 154	NT2	oxygen 21	NT2	radon 219
NT2	lutetium 157	NT2	oxygen 22	NT2	radon 220
NT2	lutetium 158	NT2	palladium 107	NT2	radon 227
NT2	lutetium 159	NT2	palladium 115	NT2	radon 228
NT2	lutetium 160	NT2	palladium 116	NT2	rhenium 165
NT2	lutetium 183	NT2	palladium 117	NT2	rhenium 166
NT2	lutetium 184	NT2	palladium 118	NT2	rhenium 167
NT2	magnesium 22	NT2	palladium 93	NT2	rhenium 168
NT2	magnesium 23	NT2	palladium 94	NT2	rhenium 169
NT2	magnesium 29	NT2	palladium 95	NT2	rhenium 170
NT2	manganese 58	NT2	phosphorus 29	NT2	rhenium 171
NT2	manganese 59	NT2	phosphorus 34	NT2	rhenium 172
NT2	manganese 60	NT2	phosphorus 35	NT2	rhenium 192
NT2	mendelevium 247	NT2	phosphorus 36	NT2	rhodium 104
NT2	mendelevium 248	NT2	phosphorus 37	NT2	rhodium 105
NT2	mendelevium 249	NT2	platinum 175	NT2	rhodium 106
NT2	mendelevium 250	NT2	platinum 176	NT2	rhodium 108
NT2	mercury 179	NT2	platinum 177	NT2	rhodium 110
NT2	mercury 180	NT2	platinum 178	NT2	rhodium 111
NT2	mercury 181	NT2	platinum 179	NT2	rhodium 112
NT2	mercury 182	NT2	platinum 180	NT2	rhodium 113
NT2	mercury 183	NT2	platinum 181	NT2	rhodium 114
NT2	mercury 184	NT2	platinum 183	NT2	rhodium 117
NT2	mercury 185	NT2	platinum 199	NT2	rhodium 90
NT2	molybdenum 105	NT2	plutonium 229	NT2	rhodium 91
NT2	molybdenum 106	NT2	polonium 195	NT2	rhodium 92
NT2	molybdenum 107	NT2	polonium 196	NT2	rhodium 93
NT2	molybdenum 108	NT2	polonium 197	NT2	rhodium 94
NT2	molybdenum 110	NT2	polonium 203	NT2	roentgenium 280
NT2	molybdenum 86	NT2	polonium 207	NT2	rubidium 75
NT2	molybdenum 87	NT2	polonium 211	NT2	rubidium 76
NT2	neodymium 127	NT2	polonium 212	NT2	rubidium 80
NT2	neodymium 129	NT2	polonium 217	NT2	rubidium 91
NT2	neodymium 130	NT2	potassium 37	NT2	rubidium 92
NT2	neodymium 131	NT2	potassium 38	NT2	rubidium 93
NT2	neodymium 137	NT2	potassium 47	NT2	rubidium 94
NT2	neodymium 153	NT2	potassium 48	NT2	ruthenium 109
NT2	neodymium 154	NT2	potassium 49	NT2	ruthenium 110
NT2	neodymium 155	NT2	praseodymium 124	NT2	ruthenium 111
NT2	neodymium 156	NT2	praseodymium 125	NT2	ruthenium 112
NT2	neon 18	NT2	praseodymium 126	NT2	ruthenium 113
NT2	neon 19	NT2	praseodymium 127	NT2	ruthenium 89
NT2	neon 23	NT2	praseodymium 128	NT2	ruthenium 90
NT2	nickel 67	NT2	praseodymium 129	NT2	ruthenium 91
NT2	nickel 69	NT2	praseodymium 130	NT2	ruthenium 93
NT2	nickel 70	NT2	praseodymium 150	NT2	rutherfordium 253
NT2	nickel 71	NT2	praseodymium 151	NT2	rutherfordium 255
NT2	nickel 72	NT2	praseodymium 152	NT2	rutherfordium 257
NT2	nickel 74	NT2	praseodymium 153	NT2	rutherfordium 259
NT2	niobium 100	NT2	praseodymium 154	NT2	rutherfordium 262
NT2	niobium 101	NT2	promethium 129	NT2	samarium 131
NT2	niobium 102	NT2	promethium 130	NT2	samarium 133
NT2	niobium 103	NT2	promethium 131	NT2	samarium 134
NT2	niobium 104	NT2	promethium 132	NT2	samarium 135
NT2	niobium 105	NT2	promethium 133	NT2	samarium 136
NT2	niobium 106	NT2	promethium 134	NT2	samarium 137
NT2	niobium 83	NT2	promethium 135	NT2	samarium 139
NT2	niobium 84	NT2	promethium 140	NT2	samarium 159
NT2	niobium 85	NT2	promethium 142	NT2	samarium 160
NT2	niobium 90	NT2	promethium 155	NT2	scandium 42
NT2	niobium 97	NT2	promethium 156	NT2	scandium 46
NT2	niobium 98	NT2	promethium 157	NT2	scandium 51
NT2	niobium 99	NT2	promethium 158	NT2	scandium 52
NT2	nitrogen 16	NT2	protactinium 225	NT2	seaborgium 265
NT2	nitrogen 17	NT2	radium 207	NT2	seaborgium 266
NT2	nobelium 252	NT2	radium 208	NT2	selenium 69
NT2	nobelium 254	NT2	radium 209	NT2	selenium 77
NT2	nobelium 256	NT2	radium 210	NT2	selenium 85
NT2	nobelium 257	NT2	radium 211	NT2	selenium 86
NT2	osmium 168	NT2	radium 212	NT2	selenium 87
NT2	osmium 169	NT2	radium 214	NT2	selenium 88
NT2	osmium 170	NT2	radium 221	NT2	silicon 26
NT2	osmium 171	NT2	radium 222	NT2	silicon 27
NT2	osmium 172	NT2	radium 223	NT2	silicon 33
NT2	osmium 173	NT2	radium 234	NT2	silicon 34
NT2	osmium 174	NT2	radon 200	NT2	silver 101
NT2	osmium 192	NT2	radon 201	NT2	silver 103

NT2 silver 107	NT2 thulium 162	NT2 berkelium 244
NT2 silver 109	NT2 tin 102	NT2 berkelium 245
NT2 silver 110	NT2 tin 103	NT2 berkelium 249
NT2 silver 114	NT2 tin 105	NT2 bohrium 261
NT2 silver 115	NT2 tin 128	NT2 bohrium 262
NT2 silver 116	NT2 tin 131	NT2 californium 246
NT2 silver 117	NT2 tin 132	NT2 californium 248
NT2 silver 118	NT2 tin 133	NT2 californium 249
NT2 silver 119	NT2 tin 134	NT2 californium 250
NT2 silver 120	NT2 titanium 53	NT2 californium 252
NT2 silver 122	NT2 tungsten 160	NT2 californium 254
NT2 silver 96	NT2 tungsten 162	NT2 californium 256
NT2 silver 97	NT2 tungsten 163	NT2 curium 240
NT2 silver 98	NT2 tungsten 164	NT2 curium 241
NT2 silver 99	NT2 tungsten 165	NT2 curium 242
NT2 sodium 20	NT2 tungsten 166	NT2 curium 243
NT2 sodium 21	NT2 tungsten 167	NT2 curium 244
NT2 sodium 25	NT2 tungsten 168	NT2 curium 245
NT2 sodium 26	NT2 tungsten 169	NT2 curium 246
NT2 strontium 76	NT2 tungsten 183	NT2 curium 248
NT2 strontium 77	NT2 vanadium 43	NT2 curium 250
NT2 strontium 83	NT2 vanadium 54	NT2 dubnium 255
NT2 strontium 95	NT2 vanadium 55	NT2 dubnium 256
NT2 strontium 96	NT2 xenon 112	NT2 dubnium 257
NT2 sulfur 30	NT2 xenon 113	NT2 dubnium 258
NT2 sulfur 31	NT2 xenon 114	NT2 dubnium 259
NT2 sulfur 39	NT2 xenon 115	NT2 dubnium 260
NT2 sulfur 40	NT2 xenon 116	NT2 dubnium 261
NT2 tantalum 160	NT2 xenon 125	NT2 dubnium 262
NT2 tantalum 161	NT2 xenon 139	NT2 dubnium 263
NT2 tantalum 162	NT2 xenon 140	NT2 einsteinium 253
NT2 tantalum 163	NT2 xenon 141	NT2 einsteinium 254
NT2 tantalum 164	NT2 xenon 142	NT2 einsteinium 255
NT2 tantalum 165	NT2 xenon 144	NT2 element 112 283
NT2 tantalum 166	NT2 ytterbium 153	NT2 fermium 242
NT2 technetium 100	NT2 ytterbium 155	NT2 fermium 244
NT2 technetium 102	NT2 ytterbium 156	NT2 fermium 246
NT2 technetium 103	NT2 ytterbium 157	NT2 fermium 248
NT2 technetium 106	NT2 ytterbium 169	NT2 fermium 250
NT2 technetium 107	NT2 ytterbium 176	NT2 fermium 252
NT2 technetium 108	NT2 ytterbium 177	NT2 fermium 254
NT2 technetium 109	NT2 yttrium 79	NT2 fermium 255
NT2 technetium 88	NT2 yttrium 80	NT2 fermium 256
NT2 technetium 90	NT2 yttrium 82	NT2 fermium 257
NT2 tellurium 108	NT2 yttrium 84	NT2 fermium 258
NT2 tellurium 109	NT2 yttrium 89	NT2 fermium 259
NT2 tellurium 110	NT2 yttrium 96	NT2 hassium 264
NT2 tellurium 111	NT2 yttrium 97	NT2 hassium 265
NT2 tellurium 135	NT2 yttrium 98	NT2 meitnerium 266
NT2 tellurium 136	NT2 yttrium 99	NT2 mendelevium 259
NT2 tellurium 137	NT2 zinc 73	NT2 neptunium 237
NT2 tellurium 138	NT2 zinc 75	NT2 nobelium 250
NT2 terbium 139	NT2 zinc 76	NT2 nobelium 252
NT2 terbium 140	NT2 zinc 77	NT2 nobelium 254
NT2 terbium 141	NT2 zinc 78	NT2 nobelium 256
NT2 terbium 143	NT2 zinc 79	NT2 nobelium 258
NT2 terbium 144	NT2 zirconium 100	NT2 plutonium 235
NT2 terbium 145	NT2 zirconium 101	NT2 plutonium 236
NT2 terbium 146	NT2 zirconium 102	NT2 plutonium 237
NT2 terbium 151	NT2 zirconium 103	NT2 plutonium 238
NT2 terbium 158	NT2 zirconium 104	NT2 plutonium 239
NT2 terbium 166	NT2 zirconium 83	NT2 plutonium 240
NT2 thallium 182	NT2 zirconium 85	NT2 plutonium 241
NT2 thallium 184	NT2 zirconium 87	NT2 plutonium 242
NT2 thallium 185	NT2 zirconium 98	NT2 plutonium 243
NT2 thallium 186	NT2 zirconium 99	NT2 plutonium 244
NT2 thallium 187	NT1 spontaneous fission radioisotopes	NT2 rutherfordium 253
NT2 thallium 195	NT2 americium 237	NT2 rutherfordium 254
NT2 thallium 197	NT2 americium 238	NT2 rutherfordium 255
NT2 thallium 207	NT2 americium 239	NT2 rutherfordium 256
NT2 thorium 215	NT2 americium 240	NT2 rutherfordium 257
NT2 thorium 223	NT2 americium 241	NT2 rutherfordium 258
NT2 thorium 224	NT2 americium 242	NT2 rutherfordium 259
NT2 thulium 151	NT2 americium 243	NT2 rutherfordium 260
NT2 thulium 152	NT2 americium 244	NT2 rutherfordium 261
NT2 thulium 153	NT2 americium 245	NT2 rutherfordium 262
NT2 thulium 154	NT2 americium 246	NT2 rutherfordium 263
NT2 thulium 155	NT2 berkelium 242	NT2 seaborgium 259
NT2 thulium 156	NT2 berkelium 243	NT2 seaborgium 260

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 NT2 seaborgium 262  
 NT2 seaborgium 263  
 NT2 seaborgium 265  
 NT2 seaborgium 266  
 NT2 thorium 230  
 NT2 thorium 232  
 NT2 uranium 232  
 NT2 uranium 233  
 NT2 uranium 234  
 NT2 uranium 235  
 NT2 uranium 236  
 NT2 uranium 238  
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 NT2 aluminium 26  
 NT2 americium 241  
 NT2 americium 242  
 NT2 americium 243  
 NT2 antimony 125  
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 NT2 argon 42  
 NT2 barium 133  
 NT2 berkelium 247  
 NT2 beryllium 10  
 NT2 bismuth 207  
 NT2 bismuth 208  
 NT2 bismuth 210  
 NT2 cadmium 109  
 NT2 cadmium 113  
 NT2 calcium 41  
 NT2 californium 249  
 NT2 californium 250  
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 NT2 californium 252  
 NT2 carbon 14  
 NT2 cesium 134  
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 NT2 cesium 137  
 NT2 chlorine 36  
 NT2 cobalt 60  
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 NT2 curium 244  
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 NT2 einsteinium 252  
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 NT2 europium 155  
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 NT2 gadolinium 152  
 NT2 hafnium 172  
 NT2 hafnium 174  
 NT2 hafnium 178  
 NT2 hafnium 182  
 NT2 holmium 163  
 NT2 holmium 166  
 NT2 indium 115  
 NT2 iodine 129  
 NT2 iridium 192  
 NT2 iron 55  
 NT2 iron 60  
 NT2 krypton 81  
 NT2 krypton 85  
 NT2 lanthanum 137  
 NT2 lanthanum 138  
 NT2 lead 202  
 NT2 lead 205  
 NT2 lead 210  
 NT2 lutetium 173  
 NT2 lutetium 174  
 NT2 lutetium 176  
 NT2 manganese 53

NT2 mercury 194  
 NT2 molybdenum 93  
 NT2 neodymium 144  
 NT2 neptunium 235  
 NT2 neptunium 236  
 NT2 neptunium 237  
 NT2 nickel 59  
 NT2 nickel 63  
 NT2 niobium 91  
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 NT2 niobium 94  
 NT2 osmium 186  
 NT2 osmium 194  
 NT2 palladium 107  
 NT2 platinum 190  
 NT2 platinum 193  
 NT2 plutonium 236  
 NT2 plutonium 238  
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 NT2 plutonium 241  
 NT2 plutonium 242  
 NT2 plutonium 244  
 NT2 polonium 208  
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 NT2 potassium 40  
 NT2 promethium 144  
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 NT2 protactinium 231  
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 NT2 rhenium 186  
 NT2 rhenium 187  
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 NT2 samarium 146  
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 NT2 samarium 148  
 NT2 samarium 151  
 NT2 selenium 79  
 NT2 silicon 32  
 NT2 silver 108  
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 NT2 strontium 90  
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 NT2 technetium 97  
 NT2 technetium 98  
 NT2 technetium 99  
 NT2 tellurium 123  
 NT2 terbium 157  
 NT2 terbium 158  
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 NT2 thorium 228  
 NT2 thorium 229  
 NT2 thorium 230  
 NT2 thorium 232  
 NT2 thulium 171  
 NT2 tin 121  
 NT2 tin 126  
 NT2 titanium 44  
 NT2 tritium  
 NT2 uranium 232  
 NT2 uranium 233  
 NT2 uranium 234  
 NT2 uranium 235  
 NT2 uranium 236  
 NT2 uranium 238  
 NT2 vanadium 50  
 NT2 zirconium 93  
 RT biological localization  
 RT carrier-free isotopes  
 RT carriers  
 RT natural occurrence  
 RT nuclear medicine  
 RT radiation sources

RT radioactive materials  
 RT radioactivity  
 RT radioimmunoassay  
 RT radioisotope batteries  
 RT radionuclide administration  
 RT radionuclide kinetics  
 RT radionuclide migration  
 RT radiopharmaceuticals

#### RADIOLOGICAL PERSONNEL

\*BT1 medical personnel  
 RT biomedical radiography  
 RT industrial radiography

#### radiological protection

USE radiation protection

#### RADIOLOGICAL WARFARE

INIS: 1992-03-16; ETDE: 1987-07-09

*Employment of agents or weapons to produce casualties by means of ionizing radiations, as distinguished from blast or thermal effects.*

BT1 warfare  
 RT enhanced radiation weapons

#### RADIOLOGY

*For the use of radiant energy in medicine.*

\*BT1 nuclear medicine  
 NT1 biomedical radiography  
   NT2 fluoroscopy  
   NT2 ionographic imaging  
   NT2 osteodensitometry  
   NT2 renography  
 NT1 radiotherapy  
   NT2 afterloading  
   NT2 brachytherapy  
   NT2 neutron therapy  
   NT3 neutron capture therapy  
   NT2 radioimmunotherapy  
 RT diagnosis  
 RT diagnostic techniques

#### RADIOLUMINESCENCE

\*BT1 luminescence  
 NT1 radiothermoluminescence  
 RT scintillations

#### RADIOLYSIS

UF damage (radiation, chemical)  
 UF degradation (radioinduced)  
 UF radiation damage (chemical)  
 UF radiodecomposition  
 \*BT1 chemical radiation effects  
 \*BT1 decomposition  
 NT1 autoradiolysis  
 RT dissociation  
 RT g value  
 RT photolysis  
 RT radiation chemistry

#### RADIOMETERS

\*BT1 radiation detectors  
 RT heterodyne receivers  
 RT pyranometers

#### RADIOMETRIC ANALYSIS

*Quantitative analysis for a radioactive component with known specific activity, based on measurement of its absolute disintegration rate.*

\*BT1 quantitative chemical analysis  
 RT radiation scattering analysis  
 RT radioactivity  
 RT radiochemical analysis

#### RADIOMETRIC GAGES

UF beta backscattering gages  
 BT1 measuring instruments  
 NT1 electron-capture detectors  
 RT densimeters  
 RT level indicators  
 RT moisture gages

*RT* nondestructive testing  
*RT* radiometric sorting  
*RT* sedimentometers  
*RT* thickness gages

**RADIOMETRIC SORTING**

BT1 sorting  
*RT* ore processing  
*RT* radiometric gages

**RADIOMETRIC SURVEYS**

*INIS*: 1978-11-24; *ETDE*: 1978-02-14

\*BT1 geophysical surveys  
*RT* aerial prospecting  
*RT* exploration  
*RT* gamma spectroscopy  
*RT* radioactivity logging  
*RT* uranium deposits

**RADIOMIMETIC DRUGS**

BT1 drugs  
**NT1** neocarzinostatin  
*RT* antimitotic drugs  
*RT* carcinogens  
*RT* dna adducts  
*RT* mutagens

**RADIONUCLIDE ADMINISTRATION**

*RT* blood-plasma clearance  
*RT* inhalation  
*RT* injection  
*RT* intake  
*RT* intratracheal administration  
*RT* oral administration  
*RT* radioisotopes  
*RT* radionuclide kinetics

**radionuclide concentration**

USE radioactivity

**radionuclide distributions**

USE radionuclide kinetics

**RADIONUCLIDE KINETICS**

*For radionuclides in living organisms only;*  
*see also TRANSLOCATION.*

*UF* contamination (internal)  
*UF* internal contamination  
*UF* radioisotope kinetics  
*UF* radionuclide distributions  
*UF* radionuclide metabolism  
*UF* radionuclide transfer (in organisms)  
*UF* radionuclide turnover  
*UF* transfer (in organism)  
*UF* transfer (radionuclides in organisms)  
*UF* transport (in organisms)  
*UF* transport (radionuclides in biological systems)  
*UF* transport (radionuclides in organisms)  
*UF* turnover (radionuclides)  
 BT1 kinetics  
*RT* biological half-life  
*RT* biological hot spots  
*RT* biological localization  
*RT* biophysics  
*RT* blood-plasma clearance  
*RT* body burden  
*RT* bone seekers  
*RT* carriers  
*RT* compartments  
*RT* concentration ratio  
*RT* critical organs  
*RT* dose commitments  
*RT* dynamic function studies  
*RT* excretion  
*RT* intake  
*RT* internal irradiation  
*RT* metabolism  
*RT* nonuniform irradiation  
*RT* personnel monitoring

*RT* radioactivity  
*RT* radioisotopes  
*RT* radionuclide administration  
*RT* retention  
*RT* retention functions  
*RT* tissue distribution  
*RT* tracer techniques  
*RT* unsealed sources  
*RT* uptake  
*RT* whole-body counting

**radionuclide metabolism**

USE radionuclide kinetics

**RADIONUCLIDE MIGRATION**

*In environment.*

*UF* migration (radionuclide)  
*UF* radioisotope migration  
*UF* radionuclide transfer (in environment)  
*UF* transfer (environmental radionuclides)  
*UF* transfer (in environment)  
*UF* transport (environmental radionuclides)  
 \*BT1 environmental transport  
*RT* backfilling  
*RT* biological availability  
*RT* clays  
*RT* diffusion  
*RT* ecosystems  
*RT* environment  
*RT* environmental exposure pathway  
*RT* fallout deposits  
*RT* food chains  
*RT* ground water  
*RT* irrigation  
*RT* natural analogue  
*RT* particle resuspension  
*RT* radioecological concentration  
*RT* radioecology  
*RT* radioisotopes  
*RT* soils  
*RT* tracer techniques  
*RT* transfrontier contamination  
*RT* translocation

**radionuclide transfer (in environment)**

1993-11-09

USE radionuclide migration

**radionuclide transfer (in organisms)**

1993-11-09

USE radionuclide kinetics

**radionuclide turnover**

USE radionuclide kinetics

**radionuclides**

USE radioisotopes

**radiopasteurization**

(Prior to July 1985, this was a valid ETDE descriptor.)

USE radication

**RADIOPHARMACEUTICALS**

1996-10-23

*UF* radioisotope-labelled drugs  
*SF* radioactive tracers  
 BT1 drugs  
 BT1 labelled compounds  
 \*BT1 radioactive materials  
*RT* biological localization  
*RT* brachytherapy  
*RT* bromosulfophthalein  
*RT* cpb  
*RT* diagnosis  
*RT* dual-isotope subtraction technique  
*RT* dynamic function studies

*RT* ecat scanning  
*RT* methyl tyrosine  
*RT* mibg  
*RT* microspheres  
*RT* nuclear medicine  
*RT* radiocolloids  
*RT* radioisotopes  
*RT* scintiscanning  
*RT* tracer techniques

**radiophotoluminescent dosimeters**

USE rpl dosimeters

**radiopolymerization**

USE chemical radiation effects  
 USE polymerization

**RADIOPRESERVATION**

1985-07-19

(Prior to August 1985 RADURIZATION was used.)

BT1 irradiation  
 BT1 preservation  
**NT1** radurization  
*RT* food  
*RT* food processing  
*RT* storage life

**RADIOPROTECTIVE SUBSTANCES**

1996-10-23

(Prior to August 1996 ROYAL JELLY was a valid ETDE descriptor.)

*UF* cytriphos  
*UF* dose reduction factor  
*UF* dose relative factor  
*UF* drf  
*UF* ethyrone  
*UF* ethyroneethyl phosphinate  
*UF* pentacyn  
*SF* royal jelly  
*SF* tumor necrosis factor  
 BT1 drugs  
 BT1 response modifying factors  
**NT1** beta-aminoethyl isothiourrea  
**NT1** cystamine  
**NT1** cystaphos  
**NT1** cysteamine  
**NT1** dimercaprol  
**NT1** dtpa  
**NT1** gammaphos  
**NT1** glutathione  
**NT1** hydroxytryptophan  
**NT1** kallikrein  
**NT1** mercaptoethylguanidine  
**NT1** mercaptopropylamine  
**NT1** mexamine  
**NT1** mpg  
**NT1** penicillamine  
**NT1** serotonin  
**NT2** bufotenine  
*RT* radiation protection  
*RT* radiosensitivity effects

**RADIORECEPTOR ASSAY**

1980-05-14

*UF* radio-receptor assay  
*UF* rra  
 BT1 radioassay  
 \*BT1 tracer techniques  
*RT* bioassay  
*RT* cell membranes  
*RT* receptors

**radiorelease analysis**

*INIS*: 1984-07-20; *ETDE*: 2002-04-26

USE radio-release analysis

**radioresistance**

USE radiosensitivity

**RADIOSENSITIVITY**

- UF* radioresistance
- BT1 sensitivity
- RT* biological radiation effects
- RT* dose-response relationships
- RT* radiation effects
- RT* radiobiology
- RT* radiosensitivity effects
- RT* radiosensitizers
- RT* response modifying factors
- RT* survival curves

**RADIOSENSITIVITY EFFECTS**

- RT* radioprotective substances
- RT* radiosensitivity
- RT* radiosensitizers

**RADIOSENSITIZERS**

1996-10-22

- BT1 drugs
- BT1 response modifying factors
- NT1 fudr
- NT1 metronidazole
- NT1 misonidazole
- NT1 nem
- NT1 triacetoneamine-n-oxyl
- RT* antimetabolic drugs
- RT* radiosensitivity
- RT* radiosensitivity effects

**RADIOSTERILIZATION**

1985-07-19

(Prior to August 1985 STERILIZATION was used for the radiosterilization of non-food items.)

- BT1 irradiation
- BT1 sterilization
- NT1 radappertization
- RT* isomed
- RT* radiodisinfestation
- RT* sterile insect release
- RT* sterile male technique

**radiosterilization (food)**

ETDE: 1995-05-05

- USE radappertization

**radiosurgery**

- USE radiotherapy
- USE surgery

**RADIOTHERAPY**

- UF* contact radiotherapy
- UF* high energy radiotherapy
- UF* plesiotherapy
- UF* radiosurgery
- UF* supervoltage radiotherapy
- UF* teletherapy
- \*BT1 radiology
- \*BT1 therapy
- NT1 afterloading
- NT1 brachytherapy
- NT1 neutron therapy
- NT2 neutron capture therapy
- NT1 radioimmunotherapy
- RT* anticonvulsants
- RT* collimators
- RT* combined therapy
- RT* cumulative radiation effects
- RT* depth dose distributions
- RT* fractionated irradiation
- RT* irradiation
- RT* isodose curves
- RT* pbi
- RT* phantoms
- RT* radiation source implants

**RADIOTHERMOLUMINESCENCE**

INIS: 1980-12-01; ETDE: 1981-01-09

- \*BT1 radioluminescence
- \*BT1 thermoluminescence

**radiothorium**

- USE thorium 228

**RADIOTOXINS**

- RT* abscopal radiation effects
- RT* toxins

**RADIOWAVE RADIATION**

1996-06-28

- UF* decimeter wave radiation (1-3 dm)
- UF* decimeter wave radiation (3-10dm)
- UF* meter wave radiation
- UF* shf radiation
- UF* super high frequency radiation
- UF* uhf radiation (01-100 ghz)
- UF* uhf radiation (100-1000 mhz)
- UF* uhf radiation (lower range)
- UF* uhf radiation (upper range)
- UF* ultrahigh frequency radiation (01-100 ghz)
- UF* ultrahigh frequency radiation (100-1000 mhz)
- UF* ultrahigh frequency radiation (lower range)
- UF* ultrahigh frequency radiation (upper range)
- UF* very high frequency radiation
- UF* vhf radiation
- \*BT1 electromagnetic radiation
- NT1 long wave radiation
- NT1 medium wave radiation
- NT1 radio noise
- NT2 atmospheric
- NT2 whistlers
- NT1 radioecho
- NT1 short wave radiation
- NT1 solar radio bursts
- NT1 solar radiowave radiation
- RT* cosmic radio sources
- RT* critical frequency
- RT* polar-cap absorption
- RT* radar
- RT* radio equipment
- RT* rf systems
- RT* signal distortion

**RADISHES**

- \*BT1 magnoliopsida
- \*BT1 vegetables
- RT* brassica

**RADIUM**

- \*BT1 alkaline earth metals
- RT* natural radioactivity

**RADIUM 205**

INIS: 1988-04-15; ETDE: 1988-05-23

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 radium isotopes

**RADIUM 206**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 radium isotopes

**RADIUM 207**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes
- \*BT1 seconds living radioisotopes

**RADIUM 208**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei

- \*BT1 radium isotopes
- \*BT1 seconds living radioisotopes

**RADIUM 209**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes
- \*BT1 seconds living radioisotopes

**RADIUM 210**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes
- \*BT1 seconds living radioisotopes

**RADIUM 211**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes
- \*BT1 seconds living radioisotopes

**RADIUM 212**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes
- \*BT1 seconds living radioisotopes

**RADIUM 213**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 radium isotopes

**RADIUM 214**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radium isotopes
- \*BT1 seconds living radioisotopes

**RADIUM 215**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 radium isotopes

**RADIUM 216**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 radium isotopes

**RADIUM 217**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 radium isotopes

**RADIUM 218**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 radium isotopes

**RADIUM 219**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes

\*BT1 radium isotopes

### RADIUM 220

\*BT1 alpha decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 radium isotopes

### RADIUM 221

\*BT1 alpha decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 radium isotopes  
\*BT1 seconds living radioisotopes

### RADIUM 222

\*BT1 alpha decay radioisotopes  
\*BT1 carbon 14 decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 radium isotopes  
\*BT1 seconds living radioisotopes

### RADIUM 223

*UF actinium x*  
\*BT1 alpha decay radioisotopes  
\*BT1 carbon 14 decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 radium isotopes

### RADIUM 224

*UF thorium x*  
\*BT1 alpha decay radioisotopes  
\*BT1 carbon 14 decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 radium isotopes

### RADIUM 225

\*BT1 beta-minus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 radium isotopes

### RADIUM 226

\*BT1 alpha decay radioisotopes  
\*BT1 carbon 14 decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 radium isotopes  
\*BT1 years living radioisotopes

### RADIUM 226 TARGET

*ETDE: 1976-07-09*  
BT1 targets

### RADIUM 227

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 radium isotopes

### RADIUM 228

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 radium isotopes  
\*BT1 years living radioisotopes

### RADIUM 229

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 radium isotopes

### RADIUM 230

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 hours living radioisotopes  
\*BT1 internal conversion radioisotopes  
\*BT1 radium isotopes

### RADIUM 231

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 radium isotopes

### RADIUM 232

\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 radium isotopes

### RADIUM 233

\*BT1 even-odd nuclei  
\*BT1 heavy nuclei  
\*BT1 radium isotopes  
\*BT1 seconds living radioisotopes

### RADIUM 234

\*BT1 even-even nuclei  
\*BT1 heavy nuclei  
\*BT1 radium isotopes  
\*BT1 seconds living radioisotopes

### *radium a*

USE polonium 218

### *radium additions*

*2000-04-12*  
(Prior to August 1993 this was a valid ETDE descriptor.)  
USE alloys

### *radium b*

USE lead 214

### RADIUM BROMIDES

\*BT1 bromides  
\*BT1 radium compounds

### *radium c*

USE bismuth 214

### *radium c/*

USE polonium 214

### *radium c//*

USE thallium 210

### *radium carbonates*

*1996-07-08*  
(Until June 1996 this was a valid descriptor.)  
USE carbonates  
USE radium compounds

### RADIUM CHLORIDES

\*BT1 chlorides  
\*BT1 radium compounds

### RADIUM COMPLEXES

\*BT1 alkaline earth metal complexes

### RADIUM COMPOUNDS

*1997-06-19*  
*UF radium carbonates*  
*UF radium fluorides*  
*UF radium silicates*  
BT1 alkaline earth metal compounds  
NT1 radium bromides  
NT1 radium chlorides  
NT1 radium nitrates  
NT1 radium nitrides  
NT1 radium oxides

NT1 radium sulfates

### *radium d*

USE lead 210

### *radium e*

USE bismuth 210

### *radium e//*

USE thallium 206

### *radium f*

USE polonium 210

### *radium fluorides*

*1996-07-08*  
(Until June 1996 this was a valid descriptor.)  
USE fluorides  
USE radium compounds

### *radium g*

USE lead 206

### RADIUM IONS

\*BT1 ions

### RADIUM ISOTOPES

*1999-02-01*  
\*BT1 alkaline earth isotopes  
NT1 radium 205  
NT1 radium 206  
NT1 radium 207  
NT1 radium 208  
NT1 radium 209  
NT1 radium 210  
NT1 radium 211  
NT1 radium 212  
NT1 radium 213  
NT1 radium 214  
NT1 radium 215  
NT1 radium 216  
NT1 radium 217  
NT1 radium 218  
NT1 radium 219  
NT1 radium 220  
NT1 radium 221  
NT1 radium 222  
NT1 radium 223  
NT1 radium 224  
NT1 radium 225  
NT1 radium 226  
NT1 radium 227  
NT1 radium 228  
NT1 radium 229  
NT1 radium 230  
NT1 radium 231  
NT1 radium 232  
NT1 radium 233  
NT1 radium 234  
RT bone seekers

### RADIUM NITRATES

*INIS: 2000-04-12; ETDE: 1976-03-11*  
\*BT1 nitrates  
\*BT1 radium compounds

### RADIUM NITRIDES

*INIS: 2000-04-12; ETDE: 1994-08-10*  
\*BT1 nitrides  
\*BT1 radium compounds

### RADIUM OXIDES

*INIS: 2000-04-12; ETDE: 1976-03-11*  
\*BT1 oxides  
\*BT1 radium compounds

### *radium silicates*

*INIS: 2000-04-12; ETDE: 1976-03-11*  
(Prior to January 1993, this was a valid ETDE descriptor.)  
USE radium compounds  
USE silicates

**RADIUM SULFATES**

- \*BT1 radium compounds
- \*BT1 sulfates

**RADON**

- \*BT1 rare gases
- RT natural radioactivity

**RADON 196**

*INIS: 1992-09-23; ETDE: 1978-12-28*

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes

**RADON 197**

*INIS: 1995-10-03; ETDE: 1995-09-22*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 199**

*INIS: 1980-11-07; ETDE: 1978-09-11*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 200**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes
- \*BT1 seconds living radioisotopes

**RADON 201**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes
- \*BT1 seconds living radioisotopes

**RADON 202**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes
- \*BT1 seconds living radioisotopes

**RADON 203**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes
- \*BT1 seconds living radioisotopes

**RADON 204**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 205**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 206**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 207**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 208**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 209**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 210**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 211**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 nanoseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 212**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 213**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 214**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 215**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 216**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 217**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 218**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 radon isotopes

**RADON 219**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes
- \*BT1 seconds living radioisotopes

**RADON 220**

- UF thoron*
- \*BT1 alpha decay radioisotopes
  - \*BT1 even-even nuclei
  - \*BT1 heavy nuclei
  - \*BT1 radon isotopes
  - \*BT1 seconds living radioisotopes

**RADON 221**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 222**

- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes

**RADON 223**

*1983-09-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 224**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 radon isotopes

**RADON 225**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 226**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 radon isotopes

**RADON 227**

*INIS: 1987-01-28; ETDE: 1987-02-19*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes
- \*BT1 seconds living radioisotopes

**RADON 228**

*INIS: 1989-07-19; ETDE: 1989-08-01*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 radon isotopes
- \*BT1 seconds living radioisotopes

**RADON COMPOUNDS**

*1996-01-24*

- BT1 rare gas compounds
- NT1 radon fluorides
- NT1 radon oxides

**RADON FLUORIDES**

- \*BT1 fluorides
- \*BT1 radon compounds

**RADON IONS**

- \*BT1 ions

**RADON ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 radon 196
- NT1 radon 197
- NT1 radon 199
- NT1 radon 200
- NT1 radon 201
- NT1 radon 202
- NT1 radon 203
- NT1 radon 204
- NT1 radon 205
- NT1 radon 206
- NT1 radon 207
- NT1 radon 208
- NT1 radon 209
- NT1 radon 210
- NT1 radon 211
- NT1 radon 212
- NT1 radon 213
- NT1 radon 214
- NT1 radon 215
- NT1 radon 216
- NT1 radon 217
- NT1 radon 218
- NT1 radon 219
- NT1 radon 220
- NT1 radon 221
- NT1 radon 222
- NT1 radon 223
- NT1 radon 224
- NT1 radon 225
- NT1 radon 226
- NT1 radon 227
- NT1 radon 228

**radon monitors**

USE emanometers

**RADON OXIDES**

- \*BT1 oxides
- \*BT1 radon compounds

**RADURIZATION**

*Use of irradiation to prolong shelf-life of food.*

- UF food irradiation (radiopreservation)
- \*BT1 food processing
- \*BT1 radiopreservation
- RT food
- RT ifip

**RAFFINOSE**

- \*BT1 oligosaccharides

**RAFT RIVER VALLEY**

*INIS: 2000-04-12; ETDE: 1976-05-17*

- BT1 valleys
- RT idaho

**rahyd process**

*INIS: 2000-04-12; ETDE: 1979-11-07*

*Dry reprocessing of U and TH metallic fuels. (Prior to June 1991 this was a valid ETDE descriptor.)*

- USE reprocessing

**RAIL TRANSPORT**

*INIS: 1981-03-10; ETDE: 1976-06-07*

- \*BT1 land transport
- RT monorails
- RT railroad cars
- RT railways
- RT routing
- RT vehicles

**RAILGUN ACCELERATORS**

*INIS: 1981-09-18; ETDE: 1980-01-15*

*Type of macroparticle accelerator to be used in inertial confinement fusion.*

- BT1 accelerators
- RT impact fusion
- RT impact fusion drivers

**RAILROAD CARS**

*INIS: 1981-03-10; ETDE: 1978-08-07*

- BT1 vehicles
- RT locomotives
- RT rail transport
- RT railways
- RT trains

**RAILWAYS**

*1993-03-18*

- NT1 electric railways
- NT1 monorails
- RT levitated trains
- RT locomotives
- RT rail transport
- RT railroad cars
- RT rapid transit systems
- RT trains

**RAIN**

- BT1 atmospheric precipitations
- NT1 acid rain
- RT droplets
- RT landslides
- RT monsoons
- RT natural disasters
- RT rain water
- RT snow
- RT storms
- RT washout

**RAIN WATER**

- \*BT1 water
- NT1 throughfall
- RT atmospheric precipitations
- RT interception
- RT rain
- RT runoff

**rainout**

USE washout

**RAJASTHAN-1 REACTOR**

*Kota, Rajasthan, India.*

- UF raps-1 reactor
- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors

**RAJASTHAN-2 REACTOR**

*Kota, Rajasthan, India.*

- UF raps-2 reactor
- \*BT1 candu type reactors

\*BT1 natural uranium reactors

\*BT1 phwr type reactors

**RAJASTHAN-3 REACTOR**

*INIS: 1993-02-09; ETDE: 1993-03-04*

*Kota, Rajasthan, India.*

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors

**RAJASTHAN-4 REACTOR**

*INIS: 1993-02-09; ETDE: 1993-03-04*

*Kota, Rajasthan, India.*

- \*BT1 candu type reactors
- \*BT1 natural uranium reactors
- \*BT1 phwr type reactors

**RAJASTHAN-5 REACTOR**

*2005-07-22*

*Nuclear Power Corporation of India Ltd., Kota, Rajasthan, India.*

- \*BT1 phwr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**RAJASTHAN-6 REACTOR**

*2005-07-22*

*Nuclear Power Corporation of India Ltd., Kota, Rajasthan, India.*

- \*BT1 phwr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**RAKE-2 REACTOR**

*ETDE: 1975-09-11*

*Central Institute for Nuclear Research Rossendorf, Dresden, Federal Republic of Germany.*

- UF rossendorf assembly for critical experiments
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 water moderated reactors
- \*BT1 zero power reactors

**raleigh-ncsc research reactor-1**

*1993-11-09*

USE ncscr-1 reactor

**raleigh pulstar reactor**

USE pulstar-raleigh reactor

**RAMAN EFFECT**

- RT raman spectra
- RT raman spectroscopy
- RT scattering
- RT spectra
- RT ultraviolet radiation
- RT visible radiation

**RAMAN SPECTRA**

*INIS: 1976-02-05; ETDE: 1975-10-01*

- BT1 spectra
- RT laser spectroscopy
- RT raman effect
- RT raman spectroscopy

**RAMAN SPECTROSCOPY**

*INIS: 1986-04-04; ETDE: 1983-03-07*

*(Prior to March 1983 this concept was indexed to RAMAN SPECTRA in ETDE.)*

- UF cars (spectroscopy)
- UF coherent anti-stokes raman spectroscopy
- \*BT1 laser spectroscopy
- RT quantitative chemical analysis
- RT raman effect
- RT raman spectra

**RAMJET ENGINES**

- \*BT1 internal combustion engines



**RAMSAUER EFFECT**

UF ramsauer-townsend effect  
RT elastic scattering

**ramsauer-townsend effect**

USE ramsauer effect

**rana**

USE frogs

**RANA REACTOR**

National Nuclear Energy Committee, Rome, Italy.

UF casaccia rana reactor  
UF ispra-2 rana reactor  
\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 research reactors

**RANCE POWER PLANT**

INIS: 1992-08-26; ETDE: 1975-07-29  
\*BT1 tidal power plants

**RANCHO SECO-1 REACTOR**

Sacramento Municipal Utility District, Clay Station, California, USA. Shut down in 1989; decommissioned in 1995.

UF sacramento rancho seco-1 reactor  
\*BT1 pwr type reactors

**RANCHO SECO-2 REACTOR**

Clay Station, California, USA. Unit never ordered.

UF sacramento rancho seco-2 reactor  
\*BT1 power reactors

**random number generators**

INIS: 2000-04-12; ETDE: 1983-03-23  
(Prior to March 1997 this was a valid ETDE descriptor.)

SEE computer codes  
SEE randomness

**RANDOM PHASE APPROXIMATION**

\*BT1 approximations  
RT boson expansion  
RT ericson theory  
RT statistics

**RANDOMNESS**

1995-11-21  
(From March 1983 till March 1997  
RANDOMNESS was a valid ETDE  
descriptor.)

SF random number generators  
RT attractors  
RT ergodic divertors  
RT monte carlo method

**RANGE**

The range of particles and radiations in matter; not for the concepts covered by ENERGY RANGE or INTERACTION RANGE.

RT absorption  
RT depth dose distributions  
RT distance  
RT energy losses  
RT stopping power

**RANGE FINDERS**

INIS: 1976-03-25; ETDE: 1975-11-28  
BT1 measuring instruments  
NT1 radar  
NT2 acoustic radar  
NT2 optical radar  
NT1 sonar

**RANGELANDS**

INIS: 2000-05-24; ETDE: 1978-09-13  
Lands providing forage for domestic and wild animals, wildlife cover, recreation

opportunities and vegetation for watershed protection.

UF grasslands  
\*BT1 terrestrial ecosystems  
RT domestic animals  
RT grazing  
RT management  
RT pastures  
RT plants  
RT resource assessment  
RT wild animals

**RANGER DEPOSIT**

INIS: 1977-03-14; ETDE: 1977-06-03

\*BT1 uranium deposits  
RT northern territory  
RT uranium ores

**RANGER PROJECT**

INIS: 2000-04-12; ETDE: 1987-05-06

\*BT1 atmospheric explosions  
\*BT1 nuclear explosions

**RANKINE CYCLE**

An ideal thermodynamic cycle consisting of heat addition at constant pressure, isentropic expansion, heat rejection at constant pressure, and isentropic compression; used as an ideal standard for the performance of heat-engine and heat-pump installations operating with a condensable vapor as the working fluid, such as a steam power plant. also known as steam cycle.

BT1 thermodynamic cycles  
RT rankine cycle power systems  
RT thermodynamics

**RANKINE CYCLE ENGINES**

1992-11-04

\*BT1 heat engines  
RT automobiles  
RT rankine cycle power systems  
RT steam  
RT vapor generators

**RANKINE CYCLE POWER SYSTEMS**

1992-03-11

\*BT1 power systems  
RT rankine cycle  
RT rankine cycle engines

**RANKINE-HUGONIOT EQUATIONS**

1999-07-07

BT1 equations  
RT shock waves

**RANQUILITE**

2000-04-12

\*BT1 silicate minerals  
\*BT1 uranium minerals  
RT calcium silicates  
RT uranium silicates

**RANSTAD DEPOSIT**

INIS: 1980-12-01; ETDE: 1981-01-09

\*BT1 uranium deposits  
RT sweden  
RT uranium ores

**RANUNCULACEAE**

UF buttercups  
UF caraway  
UF crowfoot  
UF delphinium  
UF nigella  
\*BT1 magnoliopsida

**rapeseed**

INIS: 2002-04-15; ETDE: 2002-03-26

USE brassica

**RAPID TRANSIT SYSTEMS**

INIS: 2000-04-12; ETDE: 1975-11-28

BT1 transportation systems  
RT electric railways  
RT mass transit systems  
RT railways  
RT trains  
RT transport

**rapidity**

ETDE: 2002-05-01

USE particle rapidity

**raps-1 reactor**

USE rajasthan-1 reactor

**raps-2 reactor**

USE rajasthan-2 reactor

**RAPSODIE REACTOR**

CEA/CEN Cadarache, st. Paul Lez Durance, France.

UF cadarache rapsodie reactor  
UF fortissimo reactor  
\*BT1 enriched uranium reactors  
\*BT1 lmfbr type reactors  
\*BT1 plutonium reactors  
\*BT1 sodium cooled reactors  
\*BT1 test reactors

**RARE EARTH ADDITIONS**

\*BT1 rare earth alloys  
NT1 cerium additions  
NT1 dysprosium additions  
NT1 erbium additions  
NT1 europium additions  
NT1 gadolinium additions  
NT1 holmium additions  
NT1 lanthanum additions  
NT2 alloy-co36cr22ni22w15fe3  
NT3 haynes 188 alloy  
NT1 lutetium additions  
NT1 neodymium additions  
NT1 praseodymium additions  
NT1 promethium additions  
NT1 samarium additions  
NT1 terbium additions  
NT1 thulium additions  
NT1 ytterbium additions

**RARE EARTH ALLOYS**

1996-07-23

(Prior to March 1997 PROMETHIUM ALLOYS was a valid ETDE descriptor.)

UF promethium alloys  
BT1 alloys  
NT1 cerium alloys  
NT2 cerium additions  
NT2 cerium base alloys  
NT3 misch metal  
NT1 dysprosium alloys  
NT2 dysprosium additions  
NT2 dysprosium base alloys  
NT1 erbium alloys  
NT2 erbium additions  
NT2 erbium base alloys  
NT1 europium alloys  
NT2 europium additions  
NT2 europium base alloys  
NT1 gadolinium alloys  
NT2 gadolinium additions  
NT2 gadolinium base alloys  
NT1 holmium alloys  
NT2 holmium additions  
NT2 holmium base alloys  
NT1 lanthanum alloys  
NT2 lanthanum additions  
NT2 lanthanum base alloys  
NT3 alloy-co36cr22ni22w15fe3  
NT4 haynes 188 alloy  
NT2 lanthanum base alloys

NT2 misch metal  
 NT1 lutetium alloys  
 NT2 lutetium additions  
 NT2 lutetium base alloys  
 NT1 magnesium alloy-ek  
 NT1 magnesium alloy-ez  
 NT1 neodymium alloys  
 NT2 neodymium additions  
 NT2 neodymium base alloys  
 NT1 praseodymium alloys  
 NT2 praseodymium base alloys  
 NT1 rare earth additions  
 NT2 cerium additions  
 NT2 dysprosium additions  
 NT2 erbium additions  
 NT2 europium additions  
 NT2 gadolinium additions  
 NT2 holmium additions  
 NT2 lanthanum additions  
 NT3 alloy-co36cr22ni22w15fe3  
 NT4 haynes 188 alloy  
 NT2 lutetium additions  
 NT2 neodymium additions  
 NT2 praseodymium additions  
 NT2 promethium additions  
 NT2 samarium additions  
 NT2 terbium additions  
 NT2 thulium additions  
 NT2 ytterbium additions  
 NT1 samarium alloys  
 NT2 samarium additions  
 NT2 samarium base alloys  
 NT1 terbium alloys  
 NT2 terbium additions  
 NT2 terbium base alloys  
 NT1 thulium alloys  
 NT2 thulium additions  
 NT2 thulium base alloys  
 NT1 ytterbium alloys  
 NT2 ytterbium base alloys  
 RT actinide alloys

## RARE EARTH COMPLEXES

BT1 complexes  
 NT1 cerium complexes  
 NT1 dysprosium complexes  
 NT1 erbium complexes  
 NT1 europium complexes  
 NT1 gadolinium complexes  
 NT1 holmium complexes  
 NT1 lanthanum complexes  
 NT1 lutetium complexes  
 NT1 neodymium complexes  
 NT1 praseodymium complexes  
 NT1 promethium complexes  
 NT1 samarium complexes  
 NT1 terbium complexes  
 NT1 thulium complexes  
 NT1 ytterbium complexes

## RARE EARTH COMPOUNDS

SF *gadolinite*  
 NT1 cerium compounds  
 NT2 cerium arsenides  
 NT2 cerium borides  
 NT2 cerium bromides  
 NT2 cerium carbides  
 NT2 cerium carbonates  
 NT2 cerium chlorides  
 NT2 cerium fluorides  
 NT2 cerium hydrides  
 NT2 cerium hydroxides  
 NT2 cerium iodides  
 NT2 cerium nitrates  
 NT2 cerium nitrides  
 NT2 cerium oxides  
 NT2 cerium perchlorates  
 NT2 cerium phosphates  
 NT2 cerium phosphides  
 NT2 cerium selenides

NT2 cerium silicates  
 NT2 cerium silicides  
 NT2 cerium sulfates  
 NT2 cerium sulfides  
 NT2 cerium tellurides  
 NT2 cerium tungstates  
 NT1 dysprosium compounds  
 NT2 dysprosium borides  
 NT2 dysprosium bromides  
 NT2 dysprosium carbides  
 NT2 dysprosium chlorides  
 NT2 dysprosium fluorides  
 NT2 dysprosium hydrides  
 NT2 dysprosium hydroxides  
 NT2 dysprosium iodides  
 NT2 dysprosium nitrates  
 NT2 dysprosium nitrides  
 NT2 dysprosium oxides  
 NT2 dysprosium phosphates  
 NT2 dysprosium phosphides  
 NT2 dysprosium selenides  
 NT2 dysprosium silicates  
 NT2 dysprosium silicides  
 NT2 dysprosium sulfates  
 NT2 dysprosium sulfides  
 NT2 dysprosium tellurides  
 NT2 dysprosium tungstates  
 NT1 erbium compounds  
 NT2 erbium borides  
 NT2 erbium bromides  
 NT2 erbium carbides  
 NT2 erbium carbonates  
 NT2 erbium chlorides  
 NT2 erbium fluorides  
 NT2 erbium hydrides  
 NT2 erbium hydroxides  
 NT2 erbium iodides  
 NT2 erbium nitrates  
 NT2 erbium nitrides  
 NT2 erbium oxides  
 NT2 erbium perchlorates  
 NT2 erbium phosphates  
 NT2 erbium phosphides  
 NT2 erbium selenides  
 NT2 erbium silicides  
 NT2 erbium sulfates  
 NT2 erbium sulfides  
 NT2 erbium tellurides  
 NT2 erbium tungstates  
 NT1 europium compounds  
 NT2 europium arsenides  
 NT2 europium borides  
 NT2 europium bromides  
 NT2 europium carbides  
 NT2 europium carbonates  
 NT2 europium chlorides  
 NT2 europium fluorides  
 NT2 europium hydrides  
 NT2 europium hydroxides  
 NT2 europium iodides  
 NT2 europium nitrates  
 NT2 europium nitrides  
 NT2 europium oxides  
 NT2 europium perchlorates  
 NT2 europium phosphates  
 NT2 europium phosphides  
 NT2 europium selenides  
 NT2 europium silicates  
 NT2 europium silicides  
 NT2 europium sulfates  
 NT2 europium sulfides  
 NT2 europium tellurides  
 NT1 gadolinium compounds  
 NT2 gadolinium arsenides  
 NT2 gadolinium borides  
 NT2 gadolinium bromides  
 NT2 gadolinium carbides  
 NT2 gadolinium carbonates  
 NT2 gadolinium chlorides

NT2 gadolinium fluorides  
 NT2 gadolinium hydrides  
 NT2 gadolinium hydroxides  
 NT2 gadolinium iodides  
 NT2 gadolinium nitrates  
 NT2 gadolinium nitrides  
 NT2 gadolinium oxides  
 NT2 gadolinium perchlorates  
 NT2 gadolinium phosphates  
 NT2 gadolinium phosphides  
 NT2 gadolinium selenides  
 NT2 gadolinium silicides  
 NT2 gadolinium sulfates  
 NT2 gadolinium sulfides  
 NT2 gadolinium tellurides  
 NT2 gadolinium tungstates  
 NT1 holmium compounds  
 NT2 holmium borides  
 NT2 holmium bromides  
 NT2 holmium carbides  
 NT2 holmium carbonates  
 NT2 holmium chlorides  
 NT2 holmium fluorides  
 NT2 holmium hydrides  
 NT2 holmium hydroxides  
 NT2 holmium iodides  
 NT2 holmium nitrates  
 NT2 holmium nitrides  
 NT2 holmium oxides  
 NT2 holmium perchlorates  
 NT2 holmium phosphates  
 NT2 holmium phosphides  
 NT2 holmium selenides  
 NT2 holmium silicates  
 NT2 holmium silicides  
 NT2 holmium sulfates  
 NT2 holmium sulfides  
 NT2 holmium tellurides  
 NT1 lanthanum compounds  
 NT2 lanthanum borides  
 NT2 lanthanum bromides  
 NT2 lanthanum carbides  
 NT2 lanthanum carbonates  
 NT2 lanthanum chlorides  
 NT2 lanthanum fluorides  
 NT2 lanthanum hydrides  
 NT2 lanthanum hydroxides  
 NT2 lanthanum iodides  
 NT2 lanthanum nitrates  
 NT2 lanthanum nitrides  
 NT2 lanthanum oxides  
 NT2 lanthanum perchlorates  
 NT2 lanthanum phosphates  
 NT2 lanthanum phosphides  
 NT2 lanthanum selenides  
 NT2 lanthanum silicates  
 NT2 lanthanum silicides  
 NT2 lanthanum sulfates  
 NT2 lanthanum sulfides  
 NT2 lanthanum tellurides  
 NT2 lanthanum tungstates  
 NT2 plzt  
 NT1 lutetium compounds  
 NT2 lutetium borides  
 NT2 lutetium bromides  
 NT2 lutetium carbides  
 NT2 lutetium carbonates  
 NT2 lutetium chlorides  
 NT2 lutetium fluorides  
 NT2 lutetium hydrides  
 NT2 lutetium hydroxides  
 NT2 lutetium iodides  
 NT2 lutetium nitrates  
 NT2 lutetium oxides  
 NT2 lutetium phosphates  
 NT2 lutetium silicates  
 NT2 lutetium silicides  
 NT2 lutetium sulfates  
 NT2 lutetium sulfides

NT2	lutetium tungstates	NT2	terbium carbides	NT1	cerium 126
NT1	neodymium compounds	NT2	terbium carbonates	NT1	cerium 127
NT2	neodymium borides	NT2	terbium chlorides	NT1	cerium 128
NT2	neodymium bromides	NT2	terbium fluorides	NT1	cerium 129
NT2	neodymium carbides	NT2	terbium hydrides	NT1	cerium 130
NT2	neodymium carbonates	NT2	terbium hydroxides	NT1	cerium 131
NT2	neodymium chlorides	NT2	terbium iodides	NT1	cerium 132
NT2	neodymium fluorides	NT2	terbium nitrates	NT1	cerium 133
NT2	neodymium hydrides	NT2	terbium nitrides	NT1	cerium 134
NT2	neodymium hydroxides	NT2	terbium oxides	NT1	cerium 135
NT2	neodymium iodides	NT2	terbium perchlorates	NT1	cerium 136
NT2	neodymium nitrates	NT2	terbium phosphates	NT1	cerium 137
NT2	neodymium nitrides	NT2	terbium phosphides	NT1	cerium 138
NT2	neodymium oxides	NT2	terbium selenides	NT1	cerium 139
NT2	neodymium perchlorates	NT2	terbium silicides	NT1	cerium 140
NT2	neodymium phosphates	NT2	terbium sulfates	NT1	cerium 141
NT2	neodymium silicates	NT2	terbium sulfides	NT1	cerium 142
NT2	neodymium silicides	NT2	terbium tellurides	NT1	cerium 143
NT2	neodymium sulfates	NT1	thulium compounds	NT1	cerium 144
NT2	neodymium sulfides	NT2	thulium borides	NT1	cerium 145
NT2	neodymium tellurides	NT2	thulium bromides	NT1	cerium 146
NT2	neodymium tungstates	NT2	thulium carbides	NT1	cerium 147
NT1	praseodymium compounds	NT2	thulium chlorides	NT1	cerium 148
NT2	praseodymium arsenides	NT2	thulium fluorides	NT1	cerium 149
NT2	praseodymium borides	NT2	thulium hydrides	NT1	cerium 150
NT2	praseodymium bromides	NT2	thulium hydroxides	NT1	cerium 151
NT2	praseodymium carbides	NT2	thulium iodides	NT1	cerium 152
NT2	praseodymium carbonates	NT2	thulium nitrates	NT1	dysprosium 140
NT2	praseodymium chlorides	NT2	thulium nitrides	NT1	dysprosium 141
NT2	praseodymium fluorides	NT2	thulium oxides	NT1	dysprosium 142
NT2	praseodymium hydrides	NT2	thulium perchlorates	NT1	dysprosium 143
NT2	praseodymium hydroxides	NT2	thulium phosphates	NT1	dysprosium 144
NT2	praseodymium iodides	NT2	thulium selenides	NT1	dysprosium 145
NT2	praseodymium nitrates	NT2	thulium silicates	NT1	dysprosium 146
NT2	praseodymium nitrides	NT2	thulium silicides	NT1	dysprosium 147
NT2	praseodymium oxides	NT2	thulium sulfates	NT1	dysprosium 148
NT2	praseodymium perchlorates	NT2	thulium sulfides	NT1	dysprosium 149
NT2	praseodymium phosphates	NT2	thulium tellurides	NT1	dysprosium 150
NT2	praseodymium phosphides	NT1	ytterbium compounds	NT1	dysprosium 151
NT2	praseodymium selenides	NT2	ytterbium borides	NT1	dysprosium 152
NT2	praseodymium silicates	NT2	ytterbium bromides	NT1	dysprosium 153
NT2	praseodymium silicides	NT2	ytterbium carbides	NT1	dysprosium 154
NT2	praseodymium sulfates	NT2	ytterbium carbonates	NT1	dysprosium 155
NT2	praseodymium sulfides	NT2	ytterbium chlorides	NT1	dysprosium 156
NT2	praseodymium tellurides	NT2	ytterbium fluorides	NT1	dysprosium 157
NT2	praseodymium tungstates	NT2	ytterbium hydrides	NT1	dysprosium 158
NT1	promethium compounds	NT2	ytterbium hydroxides	NT1	dysprosium 159
NT2	promethium chlorides	NT2	ytterbium iodides	NT1	dysprosium 160
NT2	promethium fluorides	NT2	ytterbium nitrates	NT1	dysprosium 161
NT2	promethium hydroxides	NT2	ytterbium nitrides	NT1	dysprosium 162
NT2	promethium nitrates	NT2	ytterbium oxides	NT1	dysprosium 163
NT2	promethium oxides	NT2	ytterbium perchlorates	NT1	dysprosium 164
NT1	samarium compounds	NT2	ytterbium phosphates	NT1	dysprosium 165
NT2	samarium arsenides	NT2	ytterbium phosphides	NT1	dysprosium 166
NT2	samarium borides	NT2	ytterbium selenides	NT1	dysprosium 167
NT2	samarium bromides	NT2	ytterbium silicates	NT1	dysprosium 168
NT2	samarium carbides	NT2	ytterbium silicides	NT1	dysprosium 169
NT2	samarium carbonates	NT2	ytterbium sulfates	NT1	erbium 145
NT2	samarium chlorides	NT2	ytterbium sulfides	NT1	erbium 147
NT2	samarium fluorides	NT2	ytterbium tellurides	NT1	erbium 148
NT2	samarium hydrides	NT2	ytterbium tungstates	NT1	erbium 149
NT2	samarium hydroxides			NT1	erbium 150
NT2	samarium iodides			NT1	erbium 151
NT2	samarium nitrates			NT1	erbium 152
NT2	samarium nitrides			NT1	erbium 153
NT2	samarium oxides			NT1	erbium 154
NT2	samarium perchlorates			NT1	erbium 155
NT2	samarium phosphates			NT1	erbium 156
NT2	samarium phosphides			NT1	erbium 157
NT2	samarium selenides			NT1	erbium 158
NT2	samarium silicates			NT1	erbium 159
NT2	samarium silicides			NT1	erbium 160
NT2	samarium sulfates			NT1	erbium 161
NT2	samarium sulfides			NT1	erbium 162
NT2	samarium tellurides			NT1	erbium 163
NT2	samarium tungstates			NT1	erbium 164
NT1	terbium compounds			NT1	erbium 165
NT2	terbium borides			NT1	erbium 166
NT2	terbium bromides			NT1	erbium 167

**rare earth elements**

ETDE: 2002-05-01

USE rare earths

**rare earth isotopes**

2000-04-12

(Prior to March 1997 this was a valid ETDE descriptor.)

USE rare earth nuclei

**RARE EARTH NUCLEI**

1997-01-30

UF rare earth isotopes

\*BT1 intermediate mass nuclei

NT1 cerium 121

NT1 cerium 123

NT1 cerium 124

NT1 cerium 125

NT1 erbium 168	NT1 holmium 152	NT1 lutetium 178
NT1 erbium 169	NT1 holmium 153	NT1 lutetium 179
NT1 erbium 170	NT1 holmium 154	NT1 lutetium 180
NT1 erbium 171	NT1 holmium 155	NT1 lutetium 181
NT1 erbium 172	NT1 holmium 156	NT1 lutetium 182
NT1 erbium 173	NT1 holmium 157	NT1 lutetium 183
NT1 erbium 174	NT1 holmium 158	NT1 lutetium 184
NT1 erbium 175	NT1 holmium 159	NT1 neodymium 125
NT1 europium 130	NT1 holmium 160	NT1 neodymium 127
NT1 europium 131	NT1 holmium 161	NT1 neodymium 128
NT1 europium 134	NT1 holmium 162	NT1 neodymium 129
NT1 europium 135	NT1 holmium 163	NT1 neodymium 130
NT1 europium 136	NT1 holmium 164	NT1 neodymium 131
NT1 europium 137	NT1 holmium 165	NT1 neodymium 132
NT1 europium 138	NT1 holmium 166	NT1 neodymium 133
NT1 europium 139	NT1 holmium 167	NT1 neodymium 134
NT1 europium 140	NT1 holmium 168	NT1 neodymium 135
NT1 europium 141	NT1 holmium 169	NT1 neodymium 136
NT1 europium 142	NT1 holmium 170	NT1 neodymium 137
NT1 europium 143	NT1 holmium 171	NT1 neodymium 138
NT1 europium 144	NT1 holmium 172	NT1 neodymium 139
NT1 europium 145	NT1 lanthanum 120	NT1 neodymium 140
NT1 europium 146	NT1 lanthanum 121	NT1 neodymium 141
NT1 europium 147	NT1 lanthanum 122	NT1 neodymium 142
NT1 europium 148	NT1 lanthanum 123	NT1 neodymium 143
NT1 europium 149	NT1 lanthanum 124	NT1 neodymium 144
NT1 europium 150	NT1 lanthanum 125	NT1 neodymium 145
NT1 europium 151	NT1 lanthanum 126	NT1 neodymium 146
NT1 europium 152	NT1 lanthanum 127	NT1 neodymium 147
NT1 europium 153	NT1 lanthanum 128	NT1 neodymium 148
NT1 europium 154	NT1 lanthanum 129	NT1 neodymium 149
NT1 europium 155	NT1 lanthanum 130	NT1 neodymium 150
NT1 europium 156	NT1 lanthanum 131	NT1 neodymium 151
NT1 europium 157	NT1 lanthanum 132	NT1 neodymium 152
NT1 europium 158	NT1 lanthanum 133	NT1 neodymium 153
NT1 europium 159	NT1 lanthanum 134	NT1 neodymium 154
NT1 europium 160	NT1 lanthanum 135	NT1 neodymium 155
NT1 europium 161	NT1 lanthanum 136	NT1 neodymium 156
NT1 europium 162	NT1 lanthanum 137	NT1 praseodymium 121
NT1 gadolinium 135	NT1 lanthanum 138	NT1 praseodymium 124
NT1 gadolinium 137	NT1 lanthanum 139	NT1 praseodymium 125
NT1 gadolinium 138	NT1 lanthanum 140	NT1 praseodymium 126
NT1 gadolinium 139	NT1 lanthanum 141	NT1 praseodymium 127
NT1 gadolinium 140	NT1 lanthanum 142	NT1 praseodymium 128
NT1 gadolinium 141	NT1 lanthanum 143	NT1 praseodymium 129
NT1 gadolinium 142	NT1 lanthanum 144	NT1 praseodymium 130
NT1 gadolinium 143	NT1 lanthanum 145	NT1 praseodymium 131
NT1 gadolinium 144	NT1 lanthanum 146	NT1 praseodymium 132
NT1 gadolinium 145	NT1 lanthanum 147	NT1 praseodymium 133
NT1 gadolinium 146	NT1 lanthanum 148	NT1 praseodymium 134
NT1 gadolinium 147	NT1 lanthanum 149	NT1 praseodymium 135
NT1 gadolinium 148	NT1 lanthanum 150	NT1 praseodymium 136
NT1 gadolinium 149	NT1 lutetium 151	NT1 praseodymium 137
NT1 gadolinium 150	NT1 lutetium 152	NT1 praseodymium 138
NT1 gadolinium 151	NT1 lutetium 153	NT1 praseodymium 139
NT1 gadolinium 152	NT1 lutetium 154	NT1 praseodymium 140
NT1 gadolinium 153	NT1 lutetium 155	NT1 praseodymium 141
NT1 gadolinium 154	NT1 lutetium 156	NT1 praseodymium 142
NT1 gadolinium 155	NT1 lutetium 157	NT1 praseodymium 143
NT1 gadolinium 156	NT1 lutetium 158	NT1 praseodymium 144
NT1 gadolinium 157	NT1 lutetium 159	NT1 praseodymium 145
NT1 gadolinium 158	NT1 lutetium 160	NT1 praseodymium 146
NT1 gadolinium 159	NT1 lutetium 161	NT1 praseodymium 147
NT1 gadolinium 160	NT1 lutetium 162	NT1 praseodymium 148
NT1 gadolinium 161	NT1 lutetium 163	NT1 praseodymium 149
NT1 gadolinium 162	NT1 lutetium 164	NT1 praseodymium 150
NT1 gadolinium 163	NT1 lutetium 165	NT1 praseodymium 151
NT1 gadolinium 164	NT1 lutetium 166	NT1 praseodymium 152
NT1 gadolinium 165	NT1 lutetium 167	NT1 praseodymium 153
NT1 holmium 141	NT1 lutetium 168	NT1 praseodymium 154
NT1 holmium 143	NT1 lutetium 169	NT1 promethium 129
NT1 holmium 144	NT1 lutetium 170	NT1 promethium 130
NT1 holmium 145	NT1 lutetium 171	NT1 promethium 131
NT1 holmium 146	NT1 lutetium 172	NT1 promethium 132
NT1 holmium 147	NT1 lutetium 173	NT1 promethium 133
NT1 holmium 148	NT1 lutetium 174	NT1 promethium 134
NT1 holmium 149	NT1 lutetium 175	NT1 promethium 135
NT1 holmium 150	NT1 lutetium 176	NT1 promethium 136
NT1 holmium 151	NT1 lutetium 177	NT1 promethium 137

NT1 promethium 138  
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 NT1 ytterbium 180

#### RARE EARTHS

UF *lanthanides*  
 UF *rare earth elements*  
 \*BT1 metals  
 NT1 cerium  
   NT2 cerium-alpha  
   NT2 cerium-beta  
   NT2 cerium-gamma  
 NT1 dysprosium  
 NT1 erbium  
 NT1 europium  
 NT1 gadolinium  
 NT1 holmium  
 NT1 lanthanum  
 NT1 lutetium

NT1 neodymium  
 NT1 praseodymium  
 NT1 promethium  
 NT1 samarium  
 NT1 terbium  
 NT1 thulium  
 NT1 ytterbium  
 RT thucholite

#### RARE GAS COMPOUNDS

NT1 argon compounds  
   NT2 argon chlorides  
   NT2 argon fluorides  
   NT2 argon hydrides  
   NT2 argon iodides  
   NT2 argon nitrides  
   NT2 argon oxides  
 NT1 helium compounds  
   NT2 helium chlorides  
   NT2 helium hydrides  
   NT2 helium tritides  
 NT1 krypton compounds  
   NT2 krypton bromides  
   NT2 krypton chlorides  
   NT2 krypton fluorides  
   NT2 krypton hydrides  
   NT2 krypton oxides  
 NT1 neon compounds  
   NT2 neon chlorides  
   NT2 neon fluorides  
   NT2 neon hydrides  
   NT2 neon iodides  
 NT1 radon compounds  
   NT2 radon fluorides  
   NT2 radon oxides  
 NT1 xenon compounds  
   NT2 xenon bromides  
   NT2 xenon chlorides  
   NT2 xenon fluorides  
   NT2 xenon iodides  
   NT2 xenon oxides

#### RARE GASES

UF *noble gases*  
 \*BT1 gases  
 \*BT1 nonmetals  
 NT1 argon  
 NT1 helium  
 NT1 krypton  
 NT1 neon  
 NT1 radon  
 NT1 xenon  
 RT clathrates  
 RT emanation method  
 RT emanation thermal analysis  
 RT gas scintillation detectors  
 RT inert atmosphere

#### RAREFIED GASES

\*BT1 gases

#### RARITA-SCHWINGER THEORY

RT quantum mechanics  
 RT wave equations

#### RAROTONGA TREATY

INIS: 1992-01-07; ETDE: 1992-02-10  
 BT1 treaties  
 RT arms control  
 RT international agreements  
 RT nuclear weapons

#### ras al khaima

INIS: 1992-05-07; ETDE: 1976-08-05  
 USE united arab emirates

#### raschig rings

USE column packing

**RASPBERRIES**

INIS: 1976-06-23; ETDE: 1976-08-24

- \*BT1 berries
- RT rosaceae

**rat kangaroos**

INIS: 2000-04-12; ETDE: 1981-06-15

- USE marsupials

**RATCHETING**

INIS: 1984-08-24; ETDE: 1976-07-07

Progressive distortion resulting from or enhanced by cyclic loading.

- BT1 deformation
- RT creep
- RT dynamic loads
- RT mechanical structures
- RT strains
- RT stresses

**rate structure**

INIS: 2000-04-12; ETDE: 1978-04-06

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE prices

**ratemeters (counting)**

- USE counting ratemeters

**ratemeters (dose)**

- USE dose ratemeters

**ratemeters (exposure)**

- USE exposure ratemeters

**rational surfaces**

INIS: 1991-03-22; ETDE: 1991-04-09

- USE mode rational surfaces

**rationing**

INIS: 1985-12-10; ETDE: 1978-03-03

- USE allocations

**RATS**

- \*BT1 rodents

**RAUVITE**

2000-04-12

- \*BT1 oxide minerals
- \*BT1 uranium minerals
- RT calcium oxides
- RT uranium oxides
- RT vanadium oxides

**RAW MATERIALS**

INIS: 1992-03-11; ETDE: 1978-06-14

Materials available, suitable, or required for manufacture, development, training, or some other finishing process, but not yet so used.

- BT1 materials
- NT1 chemical feedstocks
- RT resources

**rawalpindi research reactor**

- USE parr-1 reactor

**rayleigh-ritz method**

- USE ritz method

**RAYLEIGH SCATTERING**

- \*BT1 coherent scattering

**RAYLEIGH-SCHROEDINGER****FORMULA**

- RT perturbation theory

**RAYLEIGH-TAYLOR INSTABILITY**

- BT1 instability
- RT fluid flow
- RT hydrodynamics
- RT plasma macroinstabilities

**RAYLEIGH WAVES**

1999-09-17

- RT earthquakes
- RT lattice vibrations
- RT seismic detection
- RT seismic surface waves
- RT seismic waves
- RT underground explosions

**RAYON**

- \*BT1 polysaccharides
- RT cellulose
- RT fibers
- RT textiles

**RAZDAN COMPUTERS**

- BT1 computers

**RB-1 REACTOR**

Montecucolino Nuclear Engineering Lab., Univ. of Bologna, Bologna, Italy.

UF montecucolino rb-1 reactor

UF reattore bologna-1

- \*BT1 enriched uranium reactors
- \*BT1 graphite moderated reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 zero power reactors

**RB-2 REACTOR**

UF montecucolino rb-2 reactor

UF reattore bologna-2

- \*BT1 argonaut type reactors
- \*BT1 thermal reactors

**RB-3 REACTOR**

UF montecucolino rb-3 reactor

UF reattore bologna-3

- \*BT1 heavy water moderated reactors
- \*BT1 tank type reactors
- \*BT1 zero power reactors

**RBE**

UF relative biological effectiveness

RT biological radiation effects

RT let

RT oxygen enhancement ratio

RT quality factor

RT radiation effects

RT radiation quality

**rbmk-1000 reactor**

INIS: 1984-08-23; ETDE: 1984-09-20

- USE leningrad-1 reactor

**rbmk-1500 reactor**

INIS: 1996-02-09; ETDE: 1984-09-20

- USE ignalina-1 reactor

**rbmk type reactors**

INIS: 1988-10-10; ETDE: 1988-11-01

High-power channel-cooled graphite-moderated reactor type.

- USE lwgr type reactors

**rbs**

2002-11-25

- USE rutherford backscattering spectroscopy

**rc-1 reactor**

- USE triga-2-rome reactor

**rc-4 reactor casaccia**

- USE ritmo reactor

**RCIC SYSTEMS**

1993-04-27

UF reactor core isolation cooling

- \*BT1 reactor cooling systems

**RCN**

Reactor Centrum Nederland; name changed on 1 August 1976 to Energieonderzoek Centrum Nederland, and documents written after that date should be indexed to ECN.

UF reactor centrum nederland (petten)

- \*BT1 ecn

**RCNP CYCLOTRON**

INIS: 1983-06-01; ETDE: 1983-03-24

Research Center for Nuclear Physics, Osaka University.

UF research center nuclear physics cyclotron

- \*BT1 heavy ion accelerators
- \*BT1 isochronous cyclotrons

**rdf**

INIS: 2000-04-12; ETDE: 1976-11-02

- USE refuse derived fuels

**re-entry**

- USE reentry

**reacteur jules horowitz**

2005-02-10

- USE jules horowitz reactor

**REACTION HEAT**

UF heat of reaction

\*BT1 enthalpy

NT1 combustion heat

NT1 dissociation heat

NT1 formation heat

RT thermochemical heat storage

RT wetting heat

**REACTION INTERMEDIATES**

INIS: 1983-03-15; ETDE: 1978-10-23

SF intermediates (reaction)

SF transient species

RT carbenes

RT carbynes

RT chemical reaction kinetics

RT chemical reactions

RT photochemistry

RT radiation chemistry

RT radicals

**REACTION KINETICS**

UF activity coefficient

UF reaction mechanisms

UF reaction rate

BT1 kinetics

NT1 biochemical reaction kinetics

NT2 cpb

NT1 chemical reaction kinetics

NT2 combustion kinetics

NT1 nuclear reaction kinetics

RT activation energy

RT arrhenius equation

RT dissociation

RT equilibrium

**reaction mechanisms**

- USE reaction kinetics

**reaction product transport**

INIS: 1995-05-09; ETDE: 2002-05-01

(Until May 1995 this was a valid descriptor.)

- USE reaction product transport systems

**REACTION PRODUCT TRANSPORT SYSTEMS**

1995-05-10

(Until May 1995 this concept was indexed to REACTION PRODUCT TRANSPORT.)

UF helium jet method

UF reaction product transport

UF transport (reaction product)

NT1 rabbit tubes

RT accelerator facilities  
 RT nuclear reactions  
 RT pneumatic transport  
 RT reactor experimental facilities

**reaction rate**

USE reaction kinetics

**reactivation**

INIS: 2000-04-12; ETDE: 1980-11-25  
 SEE regeneration

**REACTIVITY**

RT inhour equation  
 RT pile oscillation techniques  
 RT pile replacement techniques  
 RT poisoning  
 RT reactivity coefficients  
 RT reactivity insertions  
 RT reactivity meters  
 RT reactivity units  
 RT reactivity worths  
 RT reactor kinetics  
 RT rod drop method

**reactivity (chemical)**

INIS: 2000-04-12; ETDE: 1979-06-06  
 USE activation energy

**REACTIVITY COEFFICIENTS**

NT1 danger coefficient  
 NT1 doppler coefficient  
 NT1 power coefficient  
 NT1 pressure coefficient  
 NT1 temperature coefficient  
 NT1 void coefficient  
 RT reactivity  
 RT reactivity insertions  
 RT reactor kinetics

**REACTIVITY INSERTIONS**

NT1 rod drop accidents  
 RT pulsed reactors  
 RT reactivity  
 RT reactivity coefficients  
 RT reactivity units  
 RT reactivity worths  
 RT reactor kinetics  
 RT rod ejection accidents

**REACTIVITY METERS**

\*BT1 meters  
 RT reactivity

**REACTIVITY UNITS**

BT1 units  
 NT1 dollars  
 NT1 inhours  
 RT reactivity  
 RT reactivity insertions

**REACTIVITY WORTHS**

RT reactivity  
 RT reactivity insertions

**REACTOR ACCIDENT SIMULATION**

2006-06-27

BT1 simulation  
 RT hypothetical accidents  
 RT reactor accidents  
 RT reactor safety

**REACTOR ACCIDENTS**

1997-04-29

Includes abnormal conditions of other than major significance sometimes referred to as incidents, events, etc.; for fission reactors only.

SF nuclear accidents  
 SF ria (reactor accidents)  
 BT1 accidents  
 NT1 design basis accidents

NT2 atws  
 NT2 maximum credible accident  
 NT1 excursions  
 NT1 loss of coolant  
 NT1 loss of flow  
 NT1 meltdown  
 NT1 power-cooling-mismatch accidents  
 NT1 reactor core disruption  
 NT1 rod drop accidents  
 NT1 rod ejection accidents  
 NT1 transient overpower accidents

RT burnout  
 RT canare  
 RT cenna  
 RT corium  
 RT emergency plans  
 RT fuel-coolant interactions  
 RT fuel element failure  
 RT international nuclear event scale  
 RT missile protection  
 RT molten metal-water reactions  
 RT pressure suppression  
 RT reactor accident simulation  
 RT reactor operation  
 RT reactor safety  
 RT source terms

**reactor argentin-0**

USE ra-0 reactor

**reactor argentin-1**

USE ra-1 reactor

**reactor argentin-2**

USE ra-2 reactor

**reactor argentin-3**

USE ra-3 reactor

**reactor argentin-4**

INIS: 2002-08-13; ETDE: 2002-06-16

USE ra-4 reactor

**reactor argentin-5**

INIS: 1984-06-21; ETDE: 2002-05-01

USE ra-5 reactor

**reactor argentin-8**

2002-11-20

USE ra-8 reactor

**reactor argentin ra-6**

2001-03-01

USE ra-6 reactor

**REACTOR CELLS**

UF cells (reactor)  
 RT reactor lattices

**reactor centrum nederland (petten)**

ETDE: 2002-05-01

USE rcn

**REACTOR CHANNELS**

Passages through reactors.

UF channels (reactor)  
 BT1 reactor components  
 NT1 beam holes  
 NT1 experimental channels  
 NT1 fuel channels  
 RT neutron guides

**REACTOR CHARGING MACHINES**

UF charging machines (fission reactor)  
 UF fueling machines (fission reactors)  
 UF loading machines (fission reactor)  
 BT1 reactor components  
 RT reactor fueling  
 RT remote handling

**reactor chemistry**

ETDE: 2002-05-01

USE radiochemistry

**REACTOR COMMISSIONING**

1996-04-29

For fission reactors only.

UF commissioning (reactor)  
 BT1 commissioning  
 RT national control  
 RT reactor decommissioning

**REACTOR COMPONENTS**

For fission reactors only.

UF reactor internals  
 NT1 breeding blankets  
 NT1 control elements  
 NT2 regulating rods  
 NT2 scram rods  
 NT2 shim rods  
 NT1 control rod drives  
 NT1 core catchers  
 NT1 fuel elements  
 NT2 annular fuel elements  
 NT2 fuel pins  
 NT2 fuel plates  
 NT2 fuel rods  
 NT3 hollow fuel rods  
 NT2 fuel wires  
 NT2 spent fuel elements  
 NT2 thermionic fuel elements  
 NT1 reactor channels  
 NT2 beam holes  
 NT2 experimental channels  
 NT2 fuel channels  
 NT1 reactor charging machines  
 NT1 reactor cooling systems  
 NT2 direct cycle cooling systems  
 NT2 dual cycle cooling systems  
 NT2 integrated cooling systems  
 NT2 primary coolant circuits  
 NT3 coolant cleanup systems  
 NT2 rcic systems  
 NT2 rhr systems  
 NT2 secondary coolant circuits  
 NT2 shrouds  
 NT1 reactor cores  
 NT2 coupled reactor cores  
 NT2 heterogeneous reactor cores  
 NT1 reactor experimental facilities  
 NT2 beam holes  
 NT2 experimental channels  
 NT2 in pile loops  
 NT2 rabbit tubes  
 NT2 tristan separator  
 NT1 reactor safety fuses  
 RT alarm systems  
 RT condensation chambers  
 RT containers  
 RT containment  
 RT control equipment  
 RT cooling towers  
 RT electrical equipment  
 RT electronic equipment  
 RT fins  
 RT fluid-structure interactions  
 RT heat exchangers  
 RT jackets  
 RT leak detectors  
 RT pumps  
 RT reactor materials  
 RT shielding materials  
 RT shields  
 RT sleeves  
 RT spacers  
 RT vanes

**reactor control rods**

USE control elements

**REACTOR CONTROL SYSTEMS**

*The processes and operations ensuring the control and safe running of a nuclear fission reactor.*

UF monitors (reactor)  
 BT1 control systems  
 RT automation  
 RT boiling detection  
 RT burnable poisons  
 RT configuration control  
 RT control elements  
 RT control rod drives  
 RT control rooms  
 RT fluid poison control  
 RT interlocks  
 RT neutron absorbers  
 RT neutron detectors  
 RT neutron monitors  
 RT on-line control systems  
 RT process computers  
 RT reactor instrumentation  
 RT reactor monitoring systems  
 RT reactor safety fuses  
 RT thermocouples

**reactor control theory**

2000-04-12

USE reactor kinetics

**REACTOR COOLING SYSTEMS**

*For fission reactors only.*

UF cooling systems (fission reactor)  
 \*BT1 cooling systems  
 BT1 reactor components  
 NT1 direct cycle cooling systems  
 NT1 dual cycle cooling systems  
 NT1 integrated cooling systems  
 NT1 primary coolant circuits  
 NT2 coolant cleanup systems  
 NT1 rcic systems  
 NT1 rhr systems  
 NT1 secondary coolant circuits  
 NT1 shrouds  
 RT auxiliary water systems  
 RT blowers  
 RT boilers  
 RT bypasses  
 RT closed-cycle cooling systems  
 RT compressors  
 RT condensation chambers  
 RT condenser cooling systems  
 RT coolants  
 RT cooling  
 RT demineralizers  
 RT economizers  
 RT feedwater  
 RT feedwater heaters  
 RT fluid flow  
 RT fluid-structure interactions  
 RT heat exchangers  
 RT heat transfer  
 RT hot channel  
 RT hot spots  
 RT ice condensers  
 RT isolation condensers  
 RT loss of coolant  
 RT open-cycle cooling systems  
 RT pressure tubes  
 RT pressurizers  
 RT pumps  
 RT recombiners  
 RT restraints  
 RT steam condensers  
 RT steam generators  
 RT steam jet ejectors  
 RT steam lines  
 RT steam separators  
 RT steam systems  
 RT steam turbines

RT superheaters  
 RT tubes  
 RT valves  
 RT vapor generators  
 RT water chemistry  
 RT water supply

**reactor cooling systems (fusion)**

INIS: 1993-11-09; ETDE: 2002-05-01

USE thermonuclear reactor cooling systems

**REACTOR CORE DISRUPTION**

UF hcda  
 \*BT1 reactor accidents  
 RT reactor cores

**reactor core isolation cooling**

1993-04-27

USE rcic systems

**REACTOR CORE RESTRAINTS**

\*BT1 reactor protection systems  
 BT1 restraints  
 RT reactor cores  
 RT reactor safety  
 RT supports

**REACTOR CORES**

UF cores (reactor)  
 BT1 reactor components  
 NT1 coupled reactor cores  
 NT1 heterogeneous reactor cores  
 RT control elements  
 RT core catchers  
 RT corium  
 RT fluid-structure interactions  
 RT fuel assemblies  
 RT fuel elements  
 RT fuel management  
 RT in core instruments  
 RT moderators  
 RT power density  
 RT power distribution  
 RT reactor core disruption  
 RT reactor core restraints  
 RT reactor lattices

**REACTOR DECOMMISSIONING**

*For fission reactors only.*

BT1 decommissioning  
 RT national control  
 RT reactor commissioning

**REACTOR DISMANTLING**

*For fission reactors only.*

UF dismantling (fission reactor)  
 UF dismantling (reactor)  
 BT1 demolition  
 RT fuel assembly dismantling  
 RT national control

**REACTOR EXPERIMENTAL FACILITIES**

1995-05-10

UF experimental facilities (reactor)  
 BT1 reactor components  
 NT1 beam holes  
 NT1 experimental channels  
 NT1 in pile loops  
 NT1 rabbit tubes  
 NT1 tristan separator  
 RT reaction product transport systems

**reactor fuel elements**

USE fuel elements

**REACTOR FUELING**

*For fission reactors only.*

UF charging (fission reactor)  
 UF discharging (fission reactor)  
 UF fuel loading (fission reactor)

UF loading (fission reactor)  
 UF unloading (fission reactor)  
 UF unloading (reactor)  
 NT1 batch loading  
 RT fuel management  
 RT reactor charging machines  
 RT reactor operation  
 RT remote handling

**reactor fueling (fusion reactors)**

INIS: 1993-11-09; ETDE: 2002-05-01

USE thermonuclear reactor fueling

**reactor fuels**

2000-04-12

USE nuclear fuels

**reactor fuels (fission)**

INIS: 1982-11-29; ETDE: 2002-05-01

USE nuclear fuels

**reactor fuels (fusion)**

INIS: 1982-11-29; ETDE: 2002-05-01

USE thermonuclear fuels

**REACTOR INSTRUMENTATION**

*For fission reactors only.*

NT1 in core instruments  
 NT2 noise thermometers  
 RT acoustic monitoring  
 RT control rooms  
 RT loose parts monitoring  
 RT measuring instruments  
 RT reactor control systems  
 RT reactor monitoring systems  
 RT reactor operation  
 RT reactor protection systems  
 RT reactor safety  
 RT reactor shutdown

**reactor internals**

1976-02-05

*If appropriate, use descriptors for specific components.*

USE reactor components

**REACTOR KINETICS**

*For fission reactors only.*

UF control theory (fission reactor)  
 UF control theory (reactor)  
 UF fission reactor control theory  
 UF reactor control theory  
 BT1 kinetics  
 RT burnable poisons  
 RT control elements  
 RT control rod worths  
 RT criticality  
 RT delayed neutrons  
 RT heterogeneous effects  
 RT inhour equation  
 RT perturbation theory  
 RT poisoning  
 RT reactivity  
 RT reactivity coefficients  
 RT reactivity insertions  
 RT reactor kinetics equations  
 RT reactor noise  
 RT reactor period  
 RT reactor physics  
 RT reactor simulators  
 RT reactor stability  
 RT rod drop method

**REACTOR KINETICS EQUATIONS**

*For fission reactors only.*

UF kinetics equations (reactor)  
 BT1 equations  
 NT1 response matrix method  
 RT chapman-kolmogorov equation  
 RT reactor kinetics



**REACTOR LATTICE PARAMETERS**

- UF *pitch (reactor parameters)*
- UF *reactor lattice pitch*
- RT *homogenization methods*
- RT *reactor lattices*
- RT *reactor physics*

**reactor lattice pitch**

- USE *reactor lattice parameters*

**REACTOR LATTICES**

- UF *lattices (reactor)*
- RT *configuration*
- RT *configuration control*
- RT *fuel elements*
- RT *power density*
- RT *reactor cells*
- RT *reactor cores*
- RT *reactor lattice parameters*
- RT *zero power reactors*

**REACTOR LICENSING**

*For fission reactors only.*

- BT1 *licensing*
- RT *antitrust review*
- RT *financial data*
- RT *gesellschaft fuer anlagen- und reaktorsicherheit*
- RT *lifetime extension*
- RT *reactor safety*

**REACTOR MAINTENANCE**

*For fission reactors only.*

- BT1 *maintenance*
- RT *in-service inspection*
- RT *inspection*
- RT *reactor operation*
- RT *repair*
- RT *safety culture*

**REACTOR MATERIALS**

*For fission reactors only; see also descriptors for specific materials.*

- BT1 *materials*
- NT1 *nuclear fuels*
  - NT2 *alloy nuclear fuels*
  - NT3 *uranium-molybdenum fuels*
  - NT2 *denatured fuel*
  - NT2 *dispersion nuclear fuels*
  - NT2 *fuel solutions*
  - NT2 *liquid metal fuels*
  - NT2 *mixed carbide fuels*
  - NT2 *mixed nitride fuels*
  - NT2 *mixed oxide fuels*
  - NT2 *molten salt fuels*
  - NT2 *spent fuels*
- NT1 *nuclear poisons*
  - NT2 *burnable poisons*
  - NT2 *fission poisons*
  - NT2 *soluble poisons*
- RT *coolants*
- RT *matrix materials*
- RT *moderators*
- RT *neutron absorbers*
- RT *reactor components*
- RT *shielding materials*

**reactor materials (fusion reactors)**

*INIS: 1993-11-09; ETDE: 2002-05-01*

- USE *thermonuclear reactor materials*

**REACTOR MONITORING SYSTEMS**

*INIS: 1984-10-23; ETDE: 1984-11-08*

*Measuring and evaluation systems for performance monitoring of reactor or its components. Not to be confused with REACTOR CONTROL SYSTEMS.*

- RT *acoustic monitoring*
- RT *failed element monitors*
- RT *loose parts monitoring*
- RT *monitoring*

- RT *monitors*
- RT *on-line measurement systems*
- RT *reactor control systems*
- RT *reactor instrumentation*
- RT *temperature monitoring*

**REACTOR NOISE**

- UF *noise (reactor)*
- RT *correlation functions*
- RT *reactor kinetics*
- RT *variations*

**REACTOR OPERATION**

*For fission reactors only.*

- UF *operation (fission reactor)*
- UF *operation (reactor)*
- BT1 *operation*
- RT *fuel element failure*
- RT *lifetime extension*
- RT *reactor accidents*
- RT *reactor fueling*
- RT *reactor instrumentation*
- RT *reactor maintenance*
- RT *reactor operators*
- RT *reactor shutdown*
- RT *reactor start-up*
- RT *repair*
- RT *safety culture*

**REACTOR OPERATORS**

*INIS: 1981-02-27; ETDE: 1980-04-14*

*For fission reactors only.*

- BT1 *personnel*
- RT *reactor operation*
- RT *safety culture*

**REACTOR OSCILLATORS**

- UF *oscillators (reactor)*
- RT *oscillators*
- RT *pile oscillation techniques*

**REACTOR PERIOD**

- UF *period (reactor)*
- RT *reactor kinetics*
- RT *rossi alpha method*

**REACTOR PHYSICS**

*INIS: 2000-01-26; ETDE: 1979-05-25*

*Use only for indexing articles of very broad coverage, such as annual reviews or textbooks, dealing with fission reactors.*

- BT1 *physics*
- RT *neutron slowing-down theory*
- RT *neutron transport theory*
- RT *reactor kinetics*
- RT *reactor lattice parameters*
- RT *reactor safety*

**REACTOR POISON REMOVAL**

- UF *removal (reactor poison)*
- BT1 *removal*
- RT *nuclear poisons*
- RT *samarium oscillations*
- RT *xenon oscillations*

**REACTOR PROTECTION SYSTEMS**

*For fission reactors only.*

- BT1 *engineered safety systems*
- NT1 *eccs*
- NT2 *core flooding systems*
- NT2 *core spray systems*
- NT2 *high pressure coolant injection*
- NT2 *low pressure coolant injection*
- NT1 *reactor core restraints*
- RT *depressurization systems*
- RT *equipment protection devices*
- RT *missile protection*
- RT *reactor instrumentation*
- RT *reactor safety*
- RT *safety injection*
- RT *scram*
- RT *systems analysis*

**REACTOR SAFETY**

*1995-05-10*

*Theoretical and experimental investigations of the behavior of fission reactor types and designs under various real or hypothetical accidents.*

- UF *safety (reactor)*
- BT1 *safety*
- RT *accidents*
- RT *bethe-tait method*
- RT *boiling detection*
- RT *condensation chambers*
- RT *containment*
- RT *containment spray systems*
- RT *criticality*
- RT *depressurization*
- RT *fuel densification*
- RT *fuel element failure*
- RT *gesellschaft fuer anlagen- und reaktorsicherheit*
- RT *high pressure coolant injection*
- RT *hot channel factor*
- RT *hot spot factor*
- RT *international convention on nuclear safety*
- RT *international nuclear event scale*
- RT *low pressure coolant injection*
- RT *maximum credible accident*
- RT *missile protection*
- RT *molten metal-water reactions*
- RT *pressure release*
- RT *pressure suppression*
- RT *radiation protection*
- RT *reactor accident simulation*
- RT *reactor accidents*
- RT *reactor core restraints*
- RT *reactor instrumentation*
- RT *reactor licensing*
- RT *reactor physics*
- RT *reactor protection systems*
- RT *reactor technology*
- RT *reactors*
- RT *reliability*
- RT *safety engineering*
- RT *safety margins*
- RT *safety standards*
- RT *site selection*
- RT *systems analysis*

**REACTOR SAFETY EXPERIMENTS**

*For fission reactors only.*

- NT1 *containment mockup facility*
- NT1 *containment research installation*
- NT1 *containment systems experiment*
- NT1 *nuclear safety pilot plant*
- RT *eccs*

**REACTOR SAFETY FUSES**

- UF *fuses (reactor safety)*
- BT1 *reactor components*
- RT *reactor control systems*
- RT *scram*

**REACTOR SHUTDOWN**

*For fission reactors only.*

- UF *shutdown (reactor)*
- BT1 *shutdown*
- NT1 *scram*
- RT *after-heat*
- RT *reactor instrumentation*
- RT *reactor operation*
- RT *residual power*

**REACTOR SIMULATORS**

*For fission reactors only.*

- UF *simulators (reactor)*
- \*BT1 *simulators*
- RT *control rooms*
- RT *reactor kinetics*

**REACTOR SITES**

1997-06-17

*For fission reactors only.*

UF sites (fission reactor)

UF sites (reactor)

NT1 bruce site

NT1 darlington site

NT1 gravelines site

NT1 pickering site

RT environment

RT external zones

RT offshore nuclear power plants

RT offshore sites

RT on-site power generation

RT site approvals

RT site characterization

RT site preparation

RT site selection

RT underground nuclear stations

**reactor siting**

USE site selection

**REACTOR STABILITY***For fission reactors only.*

UF stability (fission reactor)

UF stability (reactor)

BT1 stability

RT frequency response testing

RT nonlinear problems

RT nyquist diagrams

RT reactor kinetics

RT transfer functions

**REACTOR START-UP***For fission reactors only.*

UF start-up (fission reactor)

UF start-up (reactor)

BT1 start-up

RT reactor operation

RT thermonuclear ignition

**reactor start-up (thermonuclear ignition)**

INIS: 1993-11-09; ETDE: 2002-05-01

USE thermonuclear ignition

**REACTOR TECHNOLOGY**

INIS: 1975-08-20; ETDE: 1975-10-01

*Use only for indexing articles of very broad coverage, such as annual reviews or textbooks, dealing with fission reactors.*

RT nuclear engineering

RT reactor safety

RT reactors

**reactor thermal columns**

USE thermal columns

**reactor triga puspati**

INIS: 1985-01-17; ETDE: 1985-02-22

Malaysia.

USE rtp reactor

**reactor venezolano-1**

USE rv-1 reactor

**REACTOR VESSELS***For nonpressurized containers of reactor cores and associated components.*

UF vessels (reactor)

BT1 containers

**REACTORS***Fission reactors only. For fusion reactors, use THERMONUCLEAR REACTORS, and for reactors combining both types of reactions, use HYBRID REACTORS.*

UF nuclear reactors

NT1 breeder reactors

NT2 fbr type reactors

NT3 aipfr reactor

NT3 gcfr type reactors

NT4 gcfr reactor

NT3 kalpakkam pfbr reactor

NT3 lmfbr type reactors

NT4 beloyarsk-3 reactor

NT4 beloyarsk-4 reactor

NT4 bn-1600 reactor

NT4 bn-350 reactor

NT4 bn-800 reactor

NT4 bor-60 reactor

NT4 cdfr reactor

NT4 clinch river breeder reactor

NT4 dfr reactor

NT4 ebr-1 reactor

NT4 ebr-2 reactor

NT4 enrico fermi-1 reactor

NT4 joyo reactor

NT4 kalpakkam lmfbr reactor

NT4 monju reactor

NT4 pfr reactor

NT4 phenix reactor

NT4 plbr reactor

NT4 rapsodie reactor

NT4 sbr-1 reactor

NT4 sbr-2 reactor

NT4 sbr-5 reactor

NT4 snr-2 reactor

NT4 snr reactor

NT4 super phenix reactor

NT3 pec brasimone reactor

NT3 zebra reactor

NT2 lwbr type reactors

NT1 desalination reactors

NT2 bn-350 reactor

NT1 dust cooled reactors

NT1 enriched uranium reactors

NT2 acpr reactor

NT2 aérojet-general nucleonics reactors

NT2 afsr reactor

NT2 agr type reactors

NT3 connah quay-b reactor

NT3 dungeness-b reactor

NT3 hartlepool reactor

NT3 heysham-a reactor

NT3 heysham-b reactor

NT3 hinkley point-b reactor

NT3 hunterston-b reactor

NT3 torness reactor

NT3 wagr reactor

NT2 ai-l-77 reactor

NT2 akr-1 reactor

NT2 alrr reactor

NT2 anex reactor

NT2 anna reactor

NT2 aps reactor

NT2 apsara reactor

NT2 arbus reactor

NT2 argonaut type reactors

NT3 aeg-pr-10 reactor

NT3 arbi reactor

NT3 argonaut reactor

NT3 argos reactor

NT3 athene reactor

NT3 jason reactor

NT3 lfr reactor

NT3 moata reactor

NT3 nestor reactor

NT3 queen mary college utr-b reactor

NT3 ra-1 reactor

NT3 rb-2 reactor

NT3 rien-1 reactor

NT3 srcc-utr-100 reactor

NT3 stark reactor

NT3 strasbourg-cronenbourg reactor

NT3 ufr reactor

NT3 ulyse reactor

NT3 urr reactor

NT3 utr-10-kinki reactor

NT3 vpi-utr-10 reactor

NT2 argus reactor

NT2 armf-1 reactor

NT2 astra reactor

NT2 atr reactor

NT2 atrc reactor

NT2 avogadro rs-1 reactor

NT2 avr reactor

NT2 bawtr reactor

NT2 beloyarsk-1 reactor

NT2 beloyarsk-2 reactor

NT2 bgrr reactor

NT2 bigr reactor

NT2 bir reactor

NT2 bor-60 reactor

NT2 borax-1 reactor

NT2 borax-2 reactor

NT2 borax-3 reactor

NT2 borax-4 reactor

NT2 borax-5 reactor

NT2 br-02 reactor

NT2 br-2 reactor

NT2 br-3-vn reactor

NT2 brr reactor

NT2 bsr-1 reactor

NT2 bsr-2 reactor

NT2 bwr type reactors

NT3 allens creek-1 reactor

NT3 allens creek-2 reactor

NT3 bailly-1 reactor

NT3 barsebaeck-1 reactor

NT3 barsebaeck-2 reactor

NT3 barton-1 reactor

NT3 barton-2 reactor

NT3 barton-3 reactor

NT3 barton-4 reactor

NT3 bell reactor

NT3 big rock point reactor

NT3 black fox-1 reactor

NT3 black fox-2 reactor

NT3 bolsa chica-1 reactor

NT3 bolsa chica-2 reactor

NT3 bonus reactor

NT3 browns ferry-1 reactor

NT3 browns ferry-2 reactor

NT3 browns ferry-3 reactor

NT3 brunsbuettel reactor

NT3 brunswick-1 reactor

NT3 brunswick-2 reactor

NT3 chinshan-1 reactor

NT3 chinshan-2 reactor

NT3 clinton-1 reactor

NT3 clinton-2 reactor

NT3 cofrentes reactor

NT3 cooper reactor

NT3 dodewaard reactor

NT3 douglas point-1 reactor

NT3 douglas point-2 reactor

NT3 dresden-1 reactor

NT3 dresden-2 reactor

NT3 dresden-3 reactor

NT3 duane arnold-1 reactor

NT3 ebwr reactor

NT3 enel-4 reactor

NT3 enrico fermi-2 reactor

NT3 err reactor

NT3 fitzpatrick reactor

NT3 forsmark-1 reactor

NT3 forsmark-2 reactor

NT3 forsmark-3 reactor

NT3 fukushima-1 reactor

NT3 fukushima-2 reactor

NT3 fukushima-3 reactor

NT3 fukushima-4 reactor

NT3 fukushima-5 reactor

NT3 fukushima-6 reactor

NT3 fukushima-ii-1 reactor

NT3 fukushima-ii-2 reactor

NT3 fukushima-ii-3 reactor

NT3	fukushima-ii-4 reactor	NT3	quad cities-1 reactor	NT2	gidra reactor
NT3	garigliano reactor	NT3	quad cities-2 reactor	NT2	gtrr reactor
NT3	garona reactor	NT3	ringhals-1 reactor	NT2	hanaro reactor
NT3	ge standard reactor	NT3	river bend-1 reactor	NT2	harmonie reactor
NT3	graben-1 reactor	NT3	river bend-2 reactor	NT2	hbwr reactor
NT3	graben-2 reactor	NT3	rwe-bayernwerk reactor	NT2	hector reactor
NT3	grand gulf-1 reactor	NT3	shika-1 reactor	NT2	herald reactor
NT3	grand gulf-2 reactor	NT3	shimane-1 reactor	NT2	hero reactor
NT3	gundremmingen-2 reactor	NT3	shimane-2 reactor	NT2	hfbr reactor
NT3	gundremmingen-3 reactor	NT3	shoreham reactor	NT2	hfetr reactor
NT3	hamaoka-1 reactor	NT3	skagit-1 reactor	NT2	hfir reactor
NT3	hamaoka-2 reactor	NT3	skagit-2 reactor	NT2	hfr reactor
NT3	hamaoka-3 reactor	NT3	sl-1 reactor	NT2	hifar reactor
NT3	hamaoka-4 reactor	NT3	susquehanna-1 reactor	NT2	hnpf reactor
NT3	hamaoka-5 reactor	NT3	susquehanna-2 reactor	NT2	hor reactor
NT3	hartsville-1 reactor	NT3	tarapur-1 reactor	NT2	horace reactor
NT3	hartsville-2 reactor	NT3	tarapur-2 reactor	NT2	hprf reactor
NT3	hartsville-3 reactor	NT3	tokai-2 reactor	NT2	hre-2 reactor
NT3	hartsville-4 reactor	NT3	tsuruga reactor	NT2	htltr reactor
NT3	hatch-1 reactor	NT3	tullnerfeld reactor	NT2	htr-10 reactor
NT3	hatch-2 reactor	NT3	vak reactor	NT2	htr reactor
NT3	hdr reactor	NT3	vbwr reactor	NT2	httr reactor
NT3	hope creek-1 reactor	NT3	vermont yankee reactor	NT2	hwctr reactor
NT4	newbold island-1 reactor	NT3	verplank-1 reactor	NT2	ian-r1 reactor
NT3	hope creek-2 reactor	NT3	verplank-2 reactor	NT2	iear-1 reactor
NT4	newbold island-2 reactor	NT3	vk-50 reactor	NT2	ignalina-1 reactor
NT3	humboldt bay reactor	NT3	wnp-2 reactor	NT2	ignalina-2 reactor
NT3	isar reactor	NT3	wuergassen reactor	NT2	igr reactor
NT3	jpdr-2 reactor	NT3	zimmer-1 reactor	NT2	irl reactor
NT3	jpdr reactor	NT3	zimmer-2 reactor	NT2	irr-1 reactor
NT3	kaiseraugst reactor	NT2	byu 1-77 reactor	NT2	irt-2000 djakarta reactor
NT3	kashiwazaki-kariwa-1 reactor	NT2	cabri reactor	NT2	irt-2000 moscow reactor
NT3	kashiwazaki-kariwa-2 reactor	NT2	cesnef reactor	NT2	irt-c reactor
NT3	kashiwazaki-kariwa-3 reactor	NT2	chernobylsk-1 reactor	NT2	irt-f reactor
NT3	kashiwazaki-kariwa-4 reactor	NT2	chernobylsk-2 reactor	NT2	irt reactor
NT3	kashiwazaki-kariwa-5 reactor	NT2	chernobylsk-3 reactor	NT2	irt-sofia reactor
NT3	kashiwazaki-kariwa-6 reactor	NT2	chernobylsk-4 reactor	NT2	isis reactor
NT3	kashiwazaki-kariwa-7 reactor	NT2	consort-2 reactor	NT2	ispra-1 reactor
NT3	kruemmel reactor	NT2	coral-1 reactor	NT2	ivv-2m reactor
NT3	kuosheng-1 reactor	NT2	cp-3m reactor	NT2	janus reactor
NT3	kuosheng-2 reactor	NT2	cp-5 reactor	NT2	jeep-2 reactor
NT3	la salle county-1 reactor	NT2	cvtr reactor	NT2	jen-1 reactor
NT3	la salle county-2 reactor	NT2	democritus reactor	NT2	jen reactor
NT3	lacbwr reactor	NT2	dfr reactor	NT2	jmtr reactor
NT3	laguna verde-1 reactor	NT2	dido reactor	NT2	jrr-1 reactor
NT3	laguna verde-2 reactor	NT2	dmtr reactor	NT2	jrr-2 reactor
NT3	leibstadt reactor	NT2	dr-1 reactor	NT2	jrr-3m reactor
NT3	limerick-1 reactor	NT2	dr-2 reactor	NT2	jrr-4 reactor
NT3	limerick-2 reactor	NT2	dr-3 reactor	NT2	jules horowitz reactor
NT3	lingen reactor	NT2	dragon reactor	NT2	knk-2 reactor
NT3	mendocino-1 reactor	NT2	ebor reactor	NT2	knk reactor
NT3	mendocino-2 reactor	NT2	eger reactor	NT2	kuca reactor
NT3	millstone-1 reactor	NT2	el-3 reactor	NT2	kuhfr reactor
NT3	montague-1 reactor	NT2	el-4 reactor	NT2	kur reactor
NT3	montague-2 reactor	NT2	enrico fermi-1 reactor	NT2	kursk-1 reactor
NT3	montalto di castro-1 reactor	NT2	eocr reactor	NT2	kursk-2 reactor
NT3	montalto di castro-2 reactor	NT2	es-salam reactor	NT2	kursk-3 reactor
NT3	monticello reactor	NT2	esada-vesr reactor	NT2	kursk-4 reactor
NT3	muehleberg reactor	NT2	essor reactor	NT2	leningrad-1 reactor
NT3	nine mile point-1 reactor	NT2	etr reactor	NT2	leningrad-2 reactor
NT3	nine mile point-2 reactor	NT2	etrc reactor	NT2	leningrad-3 reactor
NT3	okg-1 reactor	NT2	etrr-2 reactor	NT2	leningrad-4 reactor
NT3	okg-2 reactor	NT2	evsr reactor	NT2	lido reactor
NT3	okg-3 reactor	NT2	ewg-1 reactor	NT2	litr reactor
NT3	olkiluoto-1 reactor	NT2	fmr reactor	NT2	lpr reactor
NT3	olkiluoto-2 reactor	NT2	fmr reactor	NT2	lptr reactor
NT3	onagawa-1 reactor	NT2	fr-0 reactor	NT2	lucens reactor
NT3	onagawa-2 reactor	NT2	frf reactor	NT2	maple reactor
NT3	onagawa-3 reactor	NT2	frg-1 reactor	NT2	maple type reactors
NT3	oyster creek-1 reactor	NT2	frg-2 reactor	NT2	maria reactor
NT3	pathfinder reactor	NT2	frj-1 reactor	NT2	marviken reactor
NT3	peach bottom-2 reactor	NT2	frj-2 reactor	NT2	maryla reactor
NT3	peach bottom-3 reactor	NT2	frm-ii reactor	NT2	masurca reactor
NT3	perry-1 reactor	NT2	frm reactor	NT2	melusine-1 reactor
NT3	perry-2 reactor	NT2	fulton-1 reactor	NT2	merlin reactor
NT3	philippsburg-1 reactor	NT2	fulton-2 reactor	NT2	minerve reactor
NT3	phipps bend-1 reactor	NT2	ga siwabessy reactor	NT2	mitr reactor
NT3	phipps bend-2 reactor	NT2	ga standard reactor	NT2	ml-1 reactor
NT3	pilgrim-1 reactor	NT2	getr reactor	NT2	mnr reactor

NT2	mnsr type reactors	NT3	biblis-4 reactor	NT3	gravelines-1 reactor
NT3	gharr-1 reactor	NT3	blayais-1 reactor	NT3	gravelines-2 reactor
NT3	mnsr-ciae reactor	NT3	blue hills-1 reactor	NT3	gravelines-3 reactor
NT3	mnsr-sd reactor	NT3	blue hills-2 reactor	NT3	gravelines-4 reactor
NT3	mnsr-sh reactor	NT3	borssele reactor	NT3	gravelines-5 reactor
NT3	mnsr-sz reactor	NT3	br-3 reactor	NT3	gravelines-6 reactor
NT3	nirr-1 reactor	NT3	braidwood-1 reactor	NT3	greene county reactor
NT3	parr-2 reactor	NT3	braidwood-2 reactor	NT3	greenwood-2 reactor
NT3	srr-1 reactor	NT3	brokdorf reactor	NT3	greenwood-3 reactor
NT2	mrr reactor	NT3	bugey-2 reactor	NT3	grohnde reactor
NT2	msre reactor	NT3	bugey-3 reactor	NT3	hamm-uentrop reactor
NT2	mtr reactor	NT3	bugey-4 reactor	NT3	harris-1 reactor
NT2	murr reactor	NT3	bugey-5 reactor	NT3	harris-2 reactor
NT2	n-reactor	NT3	bw standard reactor	NT3	harris-3 reactor
NT2	nscsr-1 reactor	NT3	byron-1 reactor	NT3	harris-4 reactor
NT2	nevada university reactor	NT3	byron-2 reactor	NT3	haven-1 reactor
NT2	nhr-5 reactor	NT3	calhoun-1 reactor	NT4	koshkonong-1 reactor
NT2	niederaichbach reactor	NT3	calhoun-2 reactor	NT3	haven-2 reactor
NT2	nsrr reactor	NT3	callaway-1 reactor	NT4	koshkonong-2 reactor
NT2	ntr reactor	NT3	callaway-2 reactor	NT3	ikata-2 reactor
NT2	nuclear furnace reactor	NT3	calvert cliffs-1 reactor	NT3	ikata-3 reactor
NT2	nur reactor	NT3	calvert cliffs-2 reactor	NT3	ikata reactor
NT2	oldbury-b reactor	NT3	catawba-1 reactor	NT3	indian point-1 reactor
NT2	omre reactor	NT3	catawba-2 reactor	NT3	indian point-2 reactor
NT2	opal reactor	NT3	cattanom-1 reactor	NT3	indian point-3 reactor
NT2	orr reactor	NT3	cattanom-2 reactor	NT3	iran-1 reactor
NT2	osiris reactor	NT3	cattanom-3 reactor	NT3	iran-2 reactor
NT2	owr reactor	NT3	cattanom-4 reactor	NT3	isar-2 reactor
NT2	parr-1 reactor	NT3	ce standard reactor	NT3	jamesport-1 reactor
NT2	pbr reactor	NT3	cherokee-1 reactor	NT3	jamesport-2 reactor
NT2	pctr reactor	NT3	cherokee-2 reactor	NT3	kewaunee reactor
NT2	peach bottom-1 reactor	NT3	cherokee-3 reactor	NT3	koeberg-1 reactor
NT2	pegase reactor	NT3	chinon-b1 reactor	NT3	koeberg-2 reactor
NT2	peggy reactor	NT3	civaux-1 reactor	NT3	kori-1 reactor
NT2	pelinduna reactor	NT3	civaux-2 reactor	NT3	kori-2 reactor
NT2	perryman-1 reactor	NT3	comanche peak-1 reactor	NT3	kori-3 reactor
NT2	perryman-2 reactor	NT3	comanche peak-2 reactor	NT3	kori-4 reactor
NT2	phebus reactor	NT3	connecticut yankee reactor	NT3	krsko reactor
NT2	phenix reactor	NT3	cook-1 reactor	NT3	lemoniz-1 reactor
NT2	pik physical model reactor	NT3	cook-2 reactor	NT3	lemoniz-2 reactor
NT2	pik reactor	NT3	cruas-2 reactor	NT3	lenin reactor
NT2	pluto reactor	NT3	cruas-3 reactor	NT3	leonid brezhnev reactor
NT2	pnpf reactor	NT3	cruas-4 reactor	NT3	lingao-1 reactor
NT2	prnc-l-77 reactor	NT3	crystal river-3 reactor	NT3	lingao-2 reactor
NT2	proteus reactor	NT3	crystal river-4 reactor	NT3	loft reactor
NT2	pr-1 reactor	NT3	dampierre-1 reactor	NT3	lucie-1 reactor
NT2	pr reactor	NT3	dampierre-2 reactor	NT3	lucie-2 reactor
NT2	ptr reactor	NT3	dampierre-3 reactor	NT3	maanshan-1 reactor
NT2	pulstar-buffalo reactor	NT3	dampierre-4 reactor	NT3	maine yankee reactor
NT2	pur-1 reactor	NT3	davis besse-1 reactor	NT3	malibu-1 reactor
NT2	pwr type reactors	NT3	davis besse-2 reactor	NT3	marble hill-1 reactor
NT3	aguirre reactor	NT3	davis besse-3 reactor	NT3	marble hill-2 reactor
NT3	almaraz-1 reactor	NT3	daya bay-1 reactor	NT3	mc guire-1 reactor
NT3	almaraz-2 reactor	NT3	daya bay-2 reactor	NT3	mc guire-2 reactor
NT3	angra-1 reactor	NT3	diablo canyon-1 reactor	NT3	mh-la reactor
NT3	angra-2 reactor	NT3	diablo canyon-2 reactor	NT3	midland-1 reactor
NT3	angra-3 reactor	NT3	doel-1 reactor	NT3	midland-2 reactor
NT3	ardennes b-1 reactor	NT3	doel-2 reactor	NT3	mihama-1 reactor
NT3	ardennes b-2 reactor	NT3	doel-3 reactor	NT3	mihama-2 reactor
NT3	ardennes reactor	NT3	doel-4 reactor	NT3	mihama-3 reactor
NT3	arkansas-1 reactor	NT3	efdr-50 reactor	NT3	millstone-2 reactor
NT3	arkansas-2 reactor	NT3	emsland reactor	NT3	millstone-3 reactor
NT3	asco-1 reactor	NT3	erie-1 reactor	NT3	muelheim-kaerlich reactor
NT3	asco-2 reactor	NT3	erie-2 reactor	NT3	mutsu reactor
NT3	atlantic-1 reactor	NT3	erie-3 reactor	NT3	neckar-1 reactor
NT3	atlantic-2 reactor	NT3	farley-1 reactor	NT3	neckar-2 reactor
NT3	basf-1 reactor	NT3	farley-2 reactor	NT3	nep-1 reactor
NT3	basf-2 reactor	NT3	fessenheim-1 reactor	NT3	nep-2 reactor
NT3	beaver valley-1 reactor	NT3	flamanville-1 reactor	NT3	neupotz-1 reactor
NT3	beaver valley-2 reactor	NT3	flamanville-2 reactor	NT3	neupotz-2 reactor
NT3	bellefonte-1 reactor	NT3	forked river-1 reactor	NT3	nogent sur seine-1 reactor
NT3	bellefonte-2 reactor	NT3	genkai-1 reactor	NT3	nogent sur seine-2 reactor
NT3	belleville sur loire-1 reactor	NT3	genkai-2 reactor	NT3	north anna-1 reactor
NT3	belleville sur loire-2 reactor	NT3	genkai-3 reactor	NT3	north anna-2 reactor
NT3	beznau-1 reactor	NT3	genkai-4 reactor	NT3	north anna-3 reactor
NT3	beznau-2 reactor	NT3	ginna-1 reactor	NT3	north anna-4 reactor
NT3	biblis-1 reactor	NT3	goesgen reactor	NT3	north coast-1 reactor
NT3	biblis-2 reactor	NT3	golfech-1 reactor	NT3	obrigheim reactor
NT3	biblis-3 reactor	NT3	golfech-2 reactor	NT3	oconee-1 reactor
		NT3	grafenrheinfeld reactor		

NT3	oconee-2 reactor	NT3	sundesert-2 reactor	NT4	kola-2 reactor
NT3	oconee-3 reactor	NT3	surry-1 reactor	NT4	kola-3 reactor
NT3	oi-1 reactor	NT3	surry-2 reactor	NT4	kola-4 reactor
NT3	oi-2 reactor	NT3	surry-3 reactor	NT4	kozloduy-1 reactor
NT3	oi-3 reactor	NT3	surry-4 reactor	NT4	kozloduy-2 reactor
NT3	oi-4 reactor	NT3	takahama-1 reactor	NT4	kozloduy-3 reactor
NT3	oktemberyan-2 reactor	NT3	takahama-2 reactor	NT4	kozloduy-4 reactor
NT3	olkiluoto-3 reactor	NT3	takahama-3 reactor	NT4	kozloduy-5 reactor
NT3	otto hahn reactor	NT3	takahama-4 reactor	NT4	kozloduy-6 reactor
NT3	palisades-1 reactor	NT3	three mile island-1 reactor	NT4	kudankulam-1 reactor
NT3	palo verde-1 reactor	NT3	three mile island-2 reactor	NT4	kudankulam-2 reactor
NT3	palo verde-2 reactor	NT3	tihange-2 reactor	NT4	loviisa-1 reactor
NT3	palo verde-3 reactor	NT3	tihange-3 reactor	NT4	loviisa-2 reactor
NT3	palo verde-4 reactor	NT3	tihange reactor	NT4	mochovce-1 reactor
NT3	palo verde-5 reactor	NT3	tomari-1 reactor	NT4	mochovce-2 reactor
NT3	paluel-1 reactor	NT3	tomari-2 reactor	NT4	novovoronezh-1 reactor
NT3	paluel-2 reactor	NT3	tricastin-1 reactor	NT4	novovoronezh-2 reactor
NT3	paluel-3 reactor	NT3	tricastin-4 reactor	NT4	novovoronezh-3 reactor
NT3	paluel-4 reactor	NT3	trillo-1 reactor	NT4	novovoronezh-4 reactor
NT3	pat reactor	NT3	trojan reactor	NT4	novovoronezh-5 reactor
NT3	pebble springs-1 reactor	NT3	tsuruga-2 reactor	NT4	paks-1 reactor
NT3	pebble springs-2 reactor	NT3	turkey point-3 reactor	NT4	paks-2 reactor
NT3	penly-1 reactor	NT3	turkey point-4 reactor	NT4	paks-3 reactor
NT3	perkins-1 reactor	NT3	tva-1 reactor	NT4	paks-4 reactor
NT3	perkins-2 reactor	NT3	tva-2 reactor	NT4	rovno-1 reactor
NT3	perkins-3 reactor	NT3	tyrone-1 reactor	NT4	rovno-2 reactor
NT3	philippsburg-2 reactor	NT3	tyrone-2 reactor	NT4	rovno-3 reactor
NT3	pilgrim-2 reactor	NT3	ulchin-1 reactor	NT4	rovno-4 reactor
NT3	pilgrim-3 reactor	NT3	ulchin-2 reactor	NT4	rovno-5 reactor
NT3	pm-2a reactor	NT3	ulchin-3 reactor	NT4	south ukrainian-1 reactor
NT3	pm-3a reactor	NT3	ulchin-4 reactor	NT4	south ukrainian-2 reactor
NT3	pnpp-1 reactor	NT3	unterweser reactor	NT4	south ukrainian-3 reactor
NT3	point beach-1 reactor	NT3	vahnum-1 reactor	NT4	stendal-1 reactor
NT3	point beach-2 reactor	NT3	vahnum-2 reactor	NT4	tatarian reactor
NT3	prairie island-1 reactor	NT3	vandellos-2 reactor	NT4	temelin-1 reactor
NT3	prairie island-2 reactor	NT3	vogtle-1 reactor	NT4	temelin-2 reactor
NT3	qinshan-1 reactor	NT3	vogtle-2 reactor	NT4	tianwan-1 reactor
NT3	qinshan-2-1 reactor	NT3	vogtle-3 reactor	NT4	zaporozhe-1 reactor
NT3	qinshan-2-2 reactor	NT3	vogtle-4 reactor	NT4	zaporozhe-2 reactor
NT3	quanicassee-1 reactor	NT3	waterford-3 reactor	NT4	zaporozhe-3 reactor
NT3	quanicassee-2 reactor	NT3	waterford-4 reactor	NT4	zaporozhe-4 reactor
NT3	rancho seco-1 reactor	NT3	watts bar-1 reactor	NT4	zaporozhe-5 reactor
NT3	remerschen reactor	NT3	watts bar-2 reactor	NT4	zaporozhe-6 reactor
NT3	rheinsberg akw1 reactor	NT3	westinghouse standard reactor	NT3	wyhl-1 reactor
NT3	ringhals-2 reactor	NT3	wnp-1 reactor	NT3	wyhl-2 reactor
NT3	ringhals-3 reactor	NT3	wnp-3 reactor	NT3	yellow creek-1 reactor
NT3	ringhals-4 reactor	NT3	wnp-4 reactor	NT3	yellow creek-2 reactor
NT3	robinson-2 reactor	NT3	wnp-5 reactor	NT3	yonggwang-1 reactor
NT3	rooppur reactor	NT3	wolf creek-1 reactor	NT3	yonggwang-2 reactor
NT3	rowe yankee reactor	NT3	wup-3 reactor	NT3	yonggwang-3 reactor
NT3	s1c prototype reactor	NT3	wup-4 reactor	NT3	yonggwang-4 reactor
NT3	saint alban-1 reactor	NT3	wup-5 reactor	NT3	zion-1 reactor
NT3	saint alban-2 reactor	NT3	wup-6 reactor	NT3	zion-2 reactor
NT3	saint laurent-b1 reactor	NT3	wwer type reactors	NT3	zorita-1 reactor
NT3	salem-1 reactor	NT4	armenian-1 reactor	NT2	r-2 reactor
NT3	salem-2 reactor	NT4	armenian-2 reactor	NT2	r-a reactor
NT3	san onofre-1 reactor	NT4	balakovo-1 reactor	NT2	r2-0 reactor
NT3	san onofre-2 reactor	NT4	balakovo-2 reactor	NT2	ra-5 reactor
NT3	san onofre-3 reactor	NT4	balakovo-3 reactor	NT2	ra-6 reactor
NT3	savannah reactor	NT4	balakovo-4 reactor	NT2	ra-8 reactor
NT3	saxton reactor	NT4	blahutovice-1 reactor	NT2	rana reactor
NT3	seabrook-1 reactor	NT4	bohunice v-1 reactor	NT2	rapso die reactor
NT3	seabrook-2 reactor	NT4	bohunice v-2 reactor	NT2	rb-1 reactor
NT3	selni reactor	NT4	dukovany-1 reactor	NT2	rg-1m reactor
NT3	sendai-1 reactor	NT4	dukovany-2 reactor	NT2	ritmo reactor
NT3	sendai-2 reactor	NT4	dukovany-3 reactor	NT2	rospo reactor
NT3	sequoyah-1 reactor	NT4	dukovany-4 reactor	NT2	rpt reactor
NT3	sequoyah-2 reactor	NT4	greifswald-1 reactor	NT2	rts-1 reactor
NT3	shippingport reactor	NT4	greifswald-2 reactor	NT2	rv-1 reactor
NT3	sizewell-b reactor	NT4	greifswald-3 reactor	NT2	safari-1 reactor
NT3	sm-1 reactor	NT4	greifswald-4 reactor	NT2	saphir reactor
NT3	sm-1a reactor	NT4	greifswald-5 reactor	NT2	sbr-1 reactor
NT3	south texas project-1 reactor	NT4	greifswald-6 reactor	NT2	schmehausen-2 reactor
NT3	south texas project-2 reactor	NT4	juragua-1 reactor	NT2	ser reactor
NT3	stade reactor	NT4	kalinin-1 reactor	NT2	sghwr reactor
NT3	sterling-1 reactor	NT4	kalinin-3 reactor	NT2	shca reactor
NT3	sterling-2 reactor	NT4	kecerovce-1 reactor	NT2	silene reactor
NT3	summer-1 reactor	NT4	khmelnitskij-1 reactor	NT2	siloe reactor
NT3	sundesert-1 reactor	NT4	kola-1 reactor	NT2	silhouette reactor

- NT2** slowpoke type reactors  
**NT3** slowpoke-alberta reactor  
**NT3** slowpoke-dalhousie reactor  
**NT3** slowpoke-montreal reactor  
**NT3** slowpoke-ottawa reactor  
**NT3** slowpoke-toronto reactor  
**NT3** slowpoke-wnre reactor  
**NT2** smolensk-1 reactor  
**NT2** smolensk-2 reactor  
**NT2** smolensk-3 reactor  
**NT2** snap 10 reactor  
**NT3** s10fs-1 reactor  
**NT3** s10fs-3 reactor  
**NT3** s10fs-4 reactor  
**NT2** snap 2 reactor  
**NT3** s2ds reactor  
**NT2** snap 50 reactor  
**NT2** snap 8 reactor  
**NT3** s8dr reactor  
**NT3** s8er reactor  
**NT2** snap-tsfr reactor  
**NT2** snaptran reactors  
**NT2** spert-1 reactor  
**NT2** spert-2 reactor  
**NT2** spert-3 reactor  
**NT2** spert-4 reactor  
**NT2** sr-1 reactor  
**NT2** sr-0a reactor  
**NT2** sre reactor  
**NT2** stacy reactor  
**NT2** stek reactor  
**NT2** stir reactor  
**NT2** summit-1 reactor  
**NT2** summit-2 reactor  
**NT2** super phenix reactor  
**NT2** supo reactor  
**NT2** sur-100 series reactor  
**NT2** tca reactor  
**NT2** thetis reactor  
**NT2** thor reactor  
**NT2** thtr-300 reactor  
**NT2** tibr reactor  
**NT2** toshiba reactor  
**NT2** tr-1 reactor  
**NT2** tr-2 reactor  
**NT2** tracy reactor  
**NT2** treat reactor  
**NT2** triga type reactors  
**NT3** afri reactor  
**NT3** atrp reactor  
**NT3** colorado triga-mk-3 reactor  
**NT3** cornell triga-mk-2 reactor  
**NT3** dow triga-mk-1 reactor  
**NT3** fir-1 reactor  
**NT3** frf-2 reactor  
**NT3** frm reactor  
**NT3** gulf triga-mk-3 reactor  
**NT3** kartini-ppny reactor  
**NT3** lopra reactor  
**NT3** nscr reactor  
**NT3** ostr reactor  
**NT3** prpr reactor  
**NT3** pstr reactor  
**NT3** rtp reactor  
**NT3** trico reactor  
**NT3** triga-1-arizona reactor  
**NT3** triga-1-california reactor  
**NT3** triga-1-hanford reactor  
**NT3** triga-1-hanover reactor  
**NT3** triga-1-heidelberg reactor  
**NT3** triga-1-michigan reactor  
**NT3** triga-2-bandung reactor  
**NT3** triga-2-bangladesh reactor  
**NT3** triga-2-dalat reactor  
**NT3** triga-2-illinois reactor  
**NT3** triga-2-kansas reactor  
**NT3** triga-2-ljubljana reactor  
**NT3** triga-2-mainz reactor  
**NT3** triga-2-musashi reactor  
**NT3** triga-2-pavia reactor  
**NT3** triga-2-pitesti reactor  
**NT3** triga-2 reactor  
**NT3** triga-2-rikkyo reactor  
**NT3** triga-2-rome reactor  
**NT3** triga-2-seoul reactor  
**NT3** triga-2-vienna reactor  
**NT3** triga-3-la jolla reactor  
**NT3** triga-3-munich reactor  
**NT3** triga-3-salazar reactor  
**NT3** triga-3-seoul reactor  
**NT3** triga-brazil reactor  
**NT3** triga-texas reactor  
**NT3** triga-veterans reactor  
**NT3** ucbr reactor  
**NT3** uwnr reactor  
**NT3** wsur reactor  
**NT2** triton reactor  
**NT2** trr-1 reactor  
**NT2** tsr-1 reactor  
**NT2** tz1 reactor  
**NT2** tz2 reactor  
**NT2** uhtrex reactor  
**NT2** uknr reactor  
**NT2** umne-1 reactor  
**NT2** umrr reactor  
**NT2** utrr reactor  
**NT2** uvar reactor  
**NT2** uwtr reactor  
**NT2** venus reactor  
**NT2** vg-400 reactor  
**NT2** vgr-50 reactor  
**NT2** vht reactor  
**NT2** vidal-1 reactor  
**NT2** vidal-2 reactor  
**NT2** viper reactor  
**NT2** vr-1 reactor  
**NT2** vrain reactor  
**NT2** wntr reactor  
**NT2** wpir reactor  
**NT2** wr-1 reactor  
**NT2** wrrr reactor  
**NT2** wtr reactor  
**NT2** wwr type reactors  
**NT3** budapest training reactor  
**NT3** irt-1 libya reactor  
**NT3** irt-baghdad reactor  
**NT3** lvr-15 reactor  
**NT3** wwr-2 reactor  
**NT3** wwr-k-almaty reactor  
**NT3** wwr-m-kiev reactor  
**NT3** wwr-m-leningrad reactor  
**NT3** wwr-s-bucharest reactor  
**NT3** wwr-s-budapest reactor  
**NT3** wwr-s-cairo reactor  
**NT3** wwr-s-moscow reactor  
**NT3** wwr-s-prague reactor  
**NT3** wwr-s-tashkent reactor  
**NT3** wwr-sm rossendorf reactor  
**NT3** wwr-z reactor  
**NT2** xma-1 reactor  
**NT2** zlfr reactor  
**NT2** zpr reactor  
**NT1** epithermal reactors  
**NT2** fast reactors  
**NT3** actinide burner reactors  
**NT3** afsr reactor  
**NT3** aprf reactor  
**NT3** bfs reactor  
**NT3** bigr reactor  
**NT3** bir reactor  
**NT3** cefr reactor  
**NT3** cfrmf reactor  
**NT3** clementine reactor  
**NT3** coral-1 reactor  
**NT3** ecel reactor  
**NT3** fbr type reactors  
**NT4** aipfr reactor  
**NT4** gcf reactor  
**NT5** gcf reactor  
**NT4** kalpakkam pfr reactor  
**NT4** lmfr type reactors  
**NT5** beloyarsk-3 reactor  
**NT5** beloyarsk-4 reactor  
**NT5** bn-1600 reactor  
**NT5** bn-350 reactor  
**NT5** bn-800 reactor  
**NT5** bor-60 reactor  
**NT5** cdfr reactor  
**NT5** clinch river breeder reactor  
**NT5** dfr reactor  
**NT5** ebr-1 reactor  
**NT5** ebr-2 reactor  
**NT5** enrico fermi-1 reactor  
**NT5** joyo reactor  
**NT5** kalpakkam lmfr reactor  
**NT5** monju reactor  
**NT5** pfr reactor  
**NT5** phenix reactor  
**NT5** plbr reactor  
**NT5** rapsodie reactor  
**NT5** sbr-1 reactor  
**NT5** sbr-2 reactor  
**NT5** sbr-5 reactor  
**NT5** snr-2 reactor  
**NT5** snr reactor  
**NT5** super phenix reactor  
**NT4** pec basimone reactor  
**NT4** zebra reactor  
**NT3** fbrf reactor  
**NT3** fca reactor  
**NT3** fitf reactor  
**NT3** fr-0 reactor  
**NT3** harmonie reactor  
**NT3** hpr reactor  
**NT3** ibr-2 reactor  
**NT3** ibr-30 reactor  
**NT3** ifr reactor  
**NT3** kalpakkam pfr reactor  
**NT3** kbr-1 reactor  
**NT3** knk-2 reactor  
**NT3** lampre-1 reactor  
**NT3** masurca reactor  
**NT3** purnima-2 reactor  
**NT3** purnima reactor  
**NT3** saref reactor  
**NT3** sefor reactor  
**NT3** sneak reactor  
**NT3** sora reactor  
**NT3** stf reactor  
**NT3** tapiro reactor  
**NT3** tibr reactor  
**NT3** vera reactor  
**NT3** viper reactor  
**NT3** wntr reactor  
**NT3** yayoi reactor  
**NT3** zephyr reactor  
**NT3** zppr reactor  
**NT3** zpr-3 reactor  
**NT3** zpr-6 reactor  
**NT3** zpr-9 reactor  
**NT3** zrr reactor  
**NT2** intermediate reactors  
**NT3** thor reactor  
**NT1** fluid fueled reactors  
**NT2** gas fueled reactors  
**NT3** coaxial flow reactors  
**NT3** light bulb reactors  
**NT3** plasma core assembly  
**NT2** liquid homogeneous reactors  
**NT3** aqueous homogeneous reactors  
**NT4** ai-1-77 reactor  
**NT4** argus reactor  
**NT4** ber-2 reactor  
**NT4** byu 1-77 reactor  
**NT4** cesnef reactor  
**NT4** dr-1 reactor  
**NT4** frf reactor

- NT4** gidra reactor  
**NT4** hre-2 reactor  
**NT4** jrr-1 reactor  
**NT4** kewb reactor  
**NT4** kstr reactor  
**NT4** ncsr-1 reactor  
**NT4** nevada university reactor  
**NT4** prnc-l-77 reactor  
**NT4** supo reactor  
**NT4** wrrr reactor  
**NT2** molten salt fueled reactors  
**NT1** fog cooled reactors  
**NT1** gas cooled reactors  
**NT2** air cooled reactors  
**NT3** afsr reactor  
**NT3** bepo reactor  
**NT3** bgrr reactor  
**NT3** br-1 reactor  
**NT3** g-1 reactor  
**NT3** gleep reactor  
**NT3** harmonie reactor  
**NT3** hprf reactor  
**NT3** kalpakkam pfr reactor  
**NT3** masurca reactor  
**NT3** sneak reactor  
**NT3** stf reactor  
**NT3** tory-2a reactor  
**NT3** tory-2c reactor  
**NT3** treat reactor  
**NT3** windscale production reactors  
**NT3** x-10 reactor  
**NT3** xma-1 reactor  
**NT3** zed-2 reactor  
**NT2** carbon dioxide cooled reactors  
**NT3** berkeley reactor  
**NT3** bohunice a-1 reactor  
**NT3** bradwell reactor  
**NT3** bugey-1 reactor  
**NT3** calder hall a-1 reactor  
**NT3** calder hall a-2 reactor  
**NT3** calder hall b-3 reactor  
**NT3** calder hall b-4 reactor  
**NT3** cesar reactor  
**NT3** chapelcross-1 reactor  
**NT3** chapelcross-2 reactor  
**NT3** chapelcross-3 reactor  
**NT3** chapelcross-4 reactor  
**NT3** chinon-1 reactor  
**NT3** chinon-2 reactor  
**NT3** chinon-3 reactor  
**NT3** connah quay-b reactor  
**NT3** dungeness-a reactor  
**NT3** dungeness-b reactor  
**NT3** el-2 reactor  
**NT3** el-4 reactor  
**NT3** g-2 reactor  
**NT3** g-3 reactor  
**NT3** hartlepool reactor  
**NT3** hector reactor  
**NT3** hero reactor  
**NT3** heysham-a reactor  
**NT3** heysham-b reactor  
**NT3** hinkley point-a reactor  
**NT3** hinkley point-b reactor  
**NT3** hunterston-a reactor  
**NT3** hunterston-b reactor  
**NT3** latina reactor  
**NT3** lucens reactor  
**NT3** niederaichbach reactor  
**NT3** oldbury-a reactor  
**NT3** oldbury-b reactor  
**NT3** saint laurent-1 reactor  
**NT3** saint laurent-2 reactor  
**NT3** sizewell-a reactor  
**NT3** tokai-mura reactor  
**NT3** torness reactor  
**NT3** trawsfynydd reactor  
**NT3** vandellos reactor  
**NT3** wagr reactor  
**NT3** wylfa reactor  
**NT2** ewg-1 reactor  
**NT2** gcfr type reactors  
**NT3** gcfr reactor  
**NT2** ger type reactors  
**NT3** agr type reactors  
**NT4** connah quay-b reactor  
**NT4** dungeness-b reactor  
**NT4** hartlepool reactor  
**NT4** heysham-a reactor  
**NT4** heysham-b reactor  
**NT4** hinkley point-b reactor  
**NT4** hunterston-b reactor  
**NT4** torness reactor  
**NT4** wagr reactor  
**NT3** bugey-1 reactor  
**NT3** chinon-1 reactor  
**NT3** chinon-2 reactor  
**NT3** chinon-3 reactor  
**NT3** g-1 reactor  
**NT3** g-2 reactor  
**NT3** g-3 reactor  
**NT3** magnox type reactors  
**NT4** berkeley reactor  
**NT4** bradwell reactor  
**NT4** calder hall a-1 reactor  
**NT4** calder hall a-2 reactor  
**NT4** calder hall b-3 reactor  
**NT4** calder hall b-4 reactor  
**NT4** chapelcross-1 reactor  
**NT4** chapelcross-2 reactor  
**NT4** chapelcross-3 reactor  
**NT4** chapelcross-4 reactor  
**NT4** dungeness-a reactor  
**NT4** hinkley point-a reactor  
**NT4** hunterston-a reactor  
**NT4** latina reactor  
**NT4** oldbury-a reactor  
**NT4** sizewell-a reactor  
**NT4** tokai-mura reactor  
**NT4** trawsfynydd reactor  
**NT4** wylfa reactor  
**NT3** saint laurent-1 reactor  
**NT3** saint laurent-2 reactor  
**NT3** vandellos reactor  
**NT2** helium cooled reactors  
**NT3** avr reactor  
**NT3** dragon reactor  
**NT3** ebora reactor  
**NT3** eger reactor  
**NT3** fulton-1 reactor  
**NT3** fulton-2 reactor  
**NT3** gcfr reactor  
**NT3** gre reactor  
**NT3** htr-10 reactor  
**NT3** htr reactor  
**NT3** iea-zpr reactor  
**NT3** peach bottom-1 reactor  
**NT3** schmehausen-2 reactor  
**NT3** summit-1 reactor  
**NT3** summit-2 reactor  
**NT3** thtr-300 reactor  
**NT3** uhtrax reactor  
**NT3** vg-400 reactor  
**NT3** vgr-50 reactor  
**NT3** vhttr reactor  
**NT3** vidal-1 reactor  
**NT3** vidal-2 reactor  
**NT3** vrain reactor  
**NT2** htgr type reactors  
**NT3** avr reactor  
**NT3** dragon reactor  
**NT3** fulton-1 reactor  
**NT3** fulton-2 reactor  
**NT3** ga standard reactor  
**NT3** htr-10 reactor  
**NT3** htr reactor  
**NT3** kahter reactor  
**NT3** peach bottom-1 reactor  
**NT3** schmehausen-2 reactor  
**NT3** summit-1 reactor  
**NT3** summit-2 reactor  
**NT3** thtr-300 reactor  
**NT3** vg-400 reactor  
**NT3** vgr-50 reactor  
**NT3** vhttr reactor  
**NT3** vidal-1 reactor  
**NT3** vidal-2 reactor  
**NT3** vrain reactor  
**NT2** hwgr type reactors  
**NT3** bohunice a-1 reactor  
**NT3** bohunice a-2 reactor  
**NT3** el-4 reactor  
**NT3** lucens reactor  
**NT3** niederaichbach reactor  
**NT2** hydrogen cooled reactors  
**NT3** kiwi reactors  
**NT4** kiwi-tnt reactor  
**NT3** nerva reactor  
**NT3** nrx-a2 reactor  
**NT3** nrx-a3 reactor  
**NT3** nrx-a4-est reactor  
**NT3** nrx-a5 reactor  
**NT3** nrx-a6 reactor  
**NT3** pewee-1 reactor  
**NT3** pewee-2 reactor  
**NT3** pewee-3 reactor  
**NT3** pewee-4 reactor  
**NT3** phoebus-1a reactor  
**NT3** phoebus-1b reactor  
**NT3** phoebus-2a reactor  
**NT3** rover reactors  
**NT3** xe-prime reactor  
**NT2** nitrogen cooled reactors  
**NT3** hltr reactor  
**NT3** ml-1 reactor  
**NT3** zenith reactor  
**NT2** pebble bed reactors  
**NT3** avr reactor  
**NT3** thtr-300 reactor  
**NT3** vg-400 reactor  
**NT3** vgr-50 reactor  
**NT1** graphite moderated reactors  
**NT2** anna reactor  
**NT2** bepo reactor  
**NT2** bgrr reactor  
**NT2** bigr reactor  
**NT2** br-1 reactor  
**NT2** cesar reactor  
**NT2** cp-2 reactor  
**NT2** eger reactor  
**NT2** f-1 reactor  
**NT2** ger type reactors  
**NT3** agr type reactors  
**NT4** connah quay-b reactor  
**NT4** dungeness-b reactor  
**NT4** hartlepool reactor  
**NT4** heysham-a reactor  
**NT4** heysham-b reactor  
**NT4** hinkley point-b reactor  
**NT4** hunterston-b reactor  
**NT4** torness reactor  
**NT4** wagr reactor  
**NT3** bugey-1 reactor  
**NT3** chinon-1 reactor  
**NT3** chinon-2 reactor  
**NT3** chinon-3 reactor  
**NT3** g-1 reactor  
**NT3** g-2 reactor  
**NT3** g-3 reactor  
**NT3** magnox type reactors  
**NT4** berkeley reactor  
**NT4** bradwell reactor  
**NT4** calder hall a-1 reactor  
**NT4** calder hall a-2 reactor  
**NT4** calder hall b-3 reactor  
**NT4** calder hall b-4 reactor  
**NT4** chapelcross-1 reactor

NT4	chapelcross-2 reactor	NT2	shca reactor	NT3	mzfr reactor
NT4	chapelcross-3 reactor	NT2	sr-305 reactor	NT3	narora-1 reactor
NT4	chapelcross-4 reactor	NT2	treat reactor	NT3	narora-2 reactor
NT4	dungeness-a reactor	NT2	uhtrex reactor	NT3	npd reactor
NT4	hinkley point-a reactor	NT2	windscale production reactors	NT3	pickering-1 reactor
NT4	hunterston-a reactor	NT2	x-10 reactor	NT3	pickering-2 reactor
NT4	latina reactor	NT2	zenith reactor	NT3	pickering-3 reactor
NT4	oldbury-a reactor	NT1	heavy water cooled reactors	NT3	pickering-4 reactor
NT4	sizewell-a reactor	NT2	alrr reactor	NT3	pickering-5 reactor
NT4	tokai-mura reactor	NT2	aquilon reactor	NT3	pickering-6 reactor
NT4	trawsfynydd reactor	NT2	bhwr type reactors	NT3	pickering-7 reactor
NT4	wylfa reactor	NT3	hbwr reactor	NT3	pickering-8 reactor
NT3	saint laurent-1 reactor	NT3	marviken reactor	NT3	point lepreau-1 reactor
NT3	saint laurent-2 reactor	NT2	br-3-vn reactor	NT3	point lepreau-2 reactor
NT3	vandellos reactor	NT2	celestin reactor	NT3	rajasthan-1 reactor
NT2	gleep reactor	NT2	cp-3 reactor	NT3	rajasthan-2 reactor
NT2	hector reactor	NT2	cp-3m reactor	NT3	rajasthan-3 reactor
NT2	hero reactor	NT2	cp-5 reactor	NT3	rajasthan-4 reactor
NT2	hew-305 reactor	NT2	dca reactor	NT3	rajasthan-5 reactor
NT2	hitrex-1 reactor	NT2	dhruva reactor	NT3	rajasthan-6 reactor
NT2	hnpf reactor	NT2	dido reactor	NT3	tarapur-3 reactor
NT2	htgr type reactors	NT2	diorit reactor	NT3	tarapur-4 reactor
NT3	avr reactor	NT2	dmtr reactor	NT3	wolsung-1 reactor
NT3	dragon reactor	NT2	dr-3 reactor	NT3	wolsung-2 reactor
NT3	fulton-1 reactor	NT2	el-1 reactor	NT3	wolsung-3 reactor
NT3	fulton-2 reactor	NT2	el-3 reactor	NT3	wolsung-4 reactor
NT3	ga standard reactor	NT2	eole reactor	NT2	pik reactor
NT3	htr-10 reactor	NT2	es-salam reactor	NT2	pluto reactor
NT3	htrr reactor	NT2	essor reactor	NT2	prr reactor
NT3	kahter reactor	NT2	fr-2 reactor	NT2	prtr reactor
NT3	peach bottom-1 reactor	NT2	frj-2 reactor	NT2	pse reactor
NT3	schmehausen-2 reactor	NT2	grenoble reactor	NT2	r-1 reactor
NT3	summit-1 reactor	NT2	gtrr reactor	NT2	r-a reactor
NT3	summit-2 reactor	NT2	hfr reactor	NT2	spert-2 reactor
NT3	thtr-300 reactor	NT2	hifar reactor	NT2	taiwan research reactor
NT3	vg-400 reactor	NT2	hwctr reactor	NT2	venus reactor
NT3	vgr-50 reactor	NT2	hwrr reactor	NT2	zed-2 reactor
NT3	vhttr reactor	NT2	irr-2 reactor	NT1	heavy water moderated reactors
NT3	vidal-1 reactor	NT2	ispra-1 reactor	NT2	alrr reactor
NT3	vidal-2 reactor	NT2	jeep-2 reactor	NT2	aquilon reactor
NT3	vrain reactor	NT2	jrr-2 reactor	NT2	bhwr type reactors
NT2	hlttr reactor	NT2	jrr-3 reactor	NT3	hbwr reactor
NT2	iea-zpr reactor	NT2	mitr reactor	NT3	marviken reactor
NT2	igr reactor	NT2	nbsr reactor	NT2	br-3-vn reactor
NT2	iowa utr-10 reactor	NT2	nora reactor	NT2	c reactor
NT2	kuca reactor	NT2	nru reactor	NT2	candu type reactors
NT2	lwgr type reactors	NT2	nrx reactor	NT3	bruce-1 reactor
NT3	aps reactor	NT2	pdp reactor	NT3	bruce-2 reactor
NT3	beloyarsk-1 reactor	NT2	pelinduna reactor	NT3	bruce-3 reactor
NT3	beloyarsk-2 reactor	NT2	phwr type reactors	NT3	bruce-4 reactor
NT3	bilibin reactor	NT3	agesta reactor	NT3	bruce-5 reactor
NT3	chernobylsk-1 reactor	NT3	atucha-2 reactor	NT3	bruce-6 reactor
NT3	chernobylsk-2 reactor	NT3	atucha reactor	NT3	bruce-7 reactor
NT3	chernobylsk-3 reactor	NT3	bruce-1 reactor	NT3	bruce-8 reactor
NT3	chernobylsk-4 reactor	NT3	bruce-2 reactor	NT3	cernavoda-1 reactor
NT3	ignalina-1 reactor	NT3	bruce-3 reactor	NT3	cordoba reactor
NT3	ignalina-2 reactor	NT3	bruce-4 reactor	NT3	darlington-1 reactor
NT3	kursk-1 reactor	NT3	bruce-5 reactor	NT3	darlington-2 reactor
NT3	kursk-2 reactor	NT3	bruce-6 reactor	NT3	darlington-3 reactor
NT3	kursk-3 reactor	NT3	bruce-7 reactor	NT3	darlington-4 reactor
NT3	kursk-4 reactor	NT3	bruce-8 reactor	NT3	douglas point ontario reactor
NT3	leningrad-1 reactor	NT3	cernavoda-1 reactor	NT3	embalse reactor
NT3	leningrad-2 reactor	NT3	cordoba reactor	NT3	gentilly-2 reactor
NT3	leningrad-3 reactor	NT3	cvtr reactor	NT3	gentilly reactor
NT3	leningrad-4 reactor	NT3	darlington-1 reactor	NT3	kaiga-1 reactor
NT3	n-reactor	NT3	darlington-2 reactor	NT3	kaiga-2 reactor
NT3	rpt reactor	NT3	darlington-3 reactor	NT3	kakrapar-1 reactor
NT3	smolensk-1 reactor	NT3	darlington-4 reactor	NT3	kakrapar-2 reactor
NT3	smolensk-2 reactor	NT3	douglas point ontario reactor	NT3	kanupp reactor
NT3	smolensk-3 reactor	NT3	gentilly-2 reactor	NT3	npd reactor
NT3	uwtr reactor	NT3	kaiga-1 reactor	NT3	pickering-1 reactor
NT2	marius reactor	NT3	kaiga-2 reactor	NT3	pickering-2 reactor
NT2	msre reactor	NT3	kaiga-3 reactor	NT3	pickering-3 reactor
NT2	ntr reactor	NT3	kaiga-4 reactor	NT3	pickering-4 reactor
NT2	pctr reactor	NT3	kakrapar-1 reactor	NT3	pickering-5 reactor
NT2	proteus reactor	NT3	kakrapar-2 reactor	NT3	pickering-6 reactor
NT2	rb-1 reactor	NT3	kalpakkam-1 reactor	NT3	pickering-7 reactor
NT2	sgr type reactors	NT3	kalpakkam-2 reactor	NT3	pickering-8 reactor
NT3	sre reactor	NT3	kanupp reactor	NT3	point lepreau-1 reactor



- NT3 point lepreau-2 reactor  
 NT3 qinshan-3-1 reactor  
 NT3 qinshan-3-2 reactor  
 NT3 rajasthan-1 reactor  
 NT3 rajasthan-2 reactor  
 NT3 rajasthan-3 reactor  
 NT3 rajasthan-4 reactor  
 NT3 wolsung-1 reactor  
 NT3 wolsung-2 reactor  
 NT3 wolsung-3 reactor  
 NT3 wolsung-4 reactor  
 NT2 celestin reactor  
 NT2 cirus reactor  
 NT2 cp-3 reactor  
 NT2 cp-3m reactor  
 NT2 cp-5 reactor  
 NT2 dca reactor  
 NT2 dhruva reactor  
 NT2 dido reactor  
 NT2 dimple reactor  
 NT2 diorit reactor  
 NT2 dmtr reactor  
 NT2 dr-3 reactor  
 NT2 eco reactor  
 NT2 el-1 reactor  
 NT2 el-2 reactor  
 NT2 el-3 reactor  
 NT2 eole reactor  
 NT2 es-salam reactor  
 NT2 essor reactor  
 NT2 fr-2 reactor  
 NT2 fj-2 reactor  
 NT2 frm-ii reactor  
 NT2 grenoble reactor  
 NT2 gtrr reactor  
 NT2 hfbf reactor  
 NT2 hifar reactor  
 NT2 hre-2 reactor  
 NT2 hwctr reactor  
 NT2 hwgcr type reactors  
   NT3 bohunice a-1 reactor  
   NT3 bohunice a-2 reactor  
   NT3 el-4 reactor  
   NT3 lucens reactor  
   NT3 niederaichbach reactor  
 NT2 hwlwr type reactors  
   NT3 cirene reactor  
   NT3 gentilly reactor  
   NT3 jatr reactor  
 NT2 hwrr reactor  
 NT2 hwzpr reactor  
 NT2 irr-2 reactor  
 NT2 ispra-1 reactor  
 NT2 jeep-2 reactor  
 NT2 jrr-2 reactor  
 NT2 jrr-3 reactor  
 NT2 juno reactor  
 NT2 k reactor  
 NT2 l reactor  
 NT2 maple reactor  
 NT2 maple type reactors  
 NT2 mitr reactor  
 NT2 nbsr reactor  
 NT2 nora reactor  
 NT2 nru reactor  
 NT2 nrx reactor  
 NT2 p reactor  
 NT2 pdp reactor  
 NT2 pelinduna reactor  
 NT2 phwr type reactors  
   NT3 agesta reactor  
   NT3 atucha-2 reactor  
   NT3 atucha reactor  
   NT3 bruce-1 reactor  
   NT3 bruce-2 reactor  
   NT3 bruce-3 reactor  
   NT3 bruce-4 reactor  
   NT3 bruce-5 reactor  
   NT3 bruce-6 reactor  
   NT3 bruce-7 reactor  
   NT3 bruce-8 reactor  
   NT3 cernavoda-1 reactor  
   NT3 cordoba reactor  
   NT3 cvtr reactor  
   NT3 darlington-1 reactor  
   NT3 darlington-2 reactor  
   NT3 darlington-3 reactor  
   NT3 darlington-4 reactor  
   NT3 douglas point ontario reactor  
   NT3 gentilly-2 reactor  
   NT3 kaiga-1 reactor  
   NT3 kaiga-2 reactor  
   NT3 kaiga-3 reactor  
   NT3 kaiga-4 reactor  
   NT3 kakrapar-1 reactor  
   NT3 kakrapar-2 reactor  
   NT3 kalpakkam-1 reactor  
   NT3 kalpakkam-2 reactor  
   NT3 kanupp reactor  
   NT3 mzfr reactor  
   NT3 narora-1 reactor  
   NT3 narora-2 reactor  
   NT3 npd reactor  
   NT3 pickering-1 reactor  
   NT3 pickering-2 reactor  
   NT3 pickering-3 reactor  
   NT3 pickering-4 reactor  
   NT3 pickering-5 reactor  
   NT3 pickering-6 reactor  
   NT3 pickering-7 reactor  
   NT3 pickering-8 reactor  
   NT3 point lepreau-1 reactor  
   NT3 point lepreau-2 reactor  
   NT3 rajasthan-1 reactor  
   NT3 rajasthan-2 reactor  
   NT3 rajasthan-3 reactor  
   NT3 rajasthan-4 reactor  
   NT3 rajasthan-5 reactor  
   NT3 rajasthan-6 reactor  
   NT3 tarapur-3 reactor  
   NT3 tarapur-4 reactor  
   NT3 wolsung-1 reactor  
   NT3 wolsung-2 reactor  
   NT3 wolsung-3 reactor  
   NT3 wolsung-4 reactor  
 NT2 pik reactor  
 NT2 pluto reactor  
 NT2 prr reactor  
 NT2 prtr reactor  
 NT2 pse reactor  
 NT2 r-1 reactor  
 NT2 r-a reactor  
 NT2 r-b reactor  
 NT2 r reactor  
 NT2 rb-3 reactor  
 NT2 rtr reactor  
 NT2 sghwr reactor  
 NT2 spert-2 reactor  
 NT2 taiwan research reactor  
 NT2 tr-0 reactor  
 NT2 venus reactor  
 NT2 wr-1 reactor  
 NT2 zed-2 reactor  
 NT2 zeep reactor  
 NT2 zerlina reactor  
 NT1 homogeneous reactors  
   NT2 fuel dispersion reactors  
     NT3 fluidized bed reactors  
     NT3 slurry reactors  
   NT2 gas fueled reactors  
     NT3 coaxial flow reactors  
     NT3 light bulb reactors  
     NT3 plasma core assembly  
   NT2 liquid homogeneous reactors  
     NT3 aqueous homogeneous reactors  
       NT4 ai-1-77 reactor  
       NT4 argus reactor  
       NT4 ber-2 reactor  
   NT4 byu 1-77 reactor  
   NT4 cesnef reactor  
   NT4 dr-1 reactor  
   NT4 frf reactor  
   NT4 gidra reactor  
   NT4 hre-2 reactor  
   NT4 jrr-1 reactor  
   NT4 kewb reactor  
   NT4 kstr reactor  
   NT4 ncsr-1 reactor  
   NT4 nevada university reactor  
   NT4 prnc-1-77 reactor  
   NT4 supo reactor  
   NT4 wrrr reactor  
 NT2 solid homogeneous reactors  
   NT3 acpr reactor  
   NT3 arojet-general nucleonics reactors  
   NT3 akr-1 reactor  
   NT3 anex reactor  
   NT3 ebor reactor  
   NT3 nsrr reactor  
   NT3 pebble bed reactors  
     NT4 avr reactor  
     NT4 thtr-300 reactor  
     NT4 vg-400 reactor  
     NT4 vgr-50 reactor  
   NT3 romashka reactor  
   NT3 shca reactor  
   NT3 sur-100 series reactor  
   NT3 treat reactor  
   NT3 triga type reactors  
     NT4 afri reactor  
     NT4 atrp reactor  
     NT4 colorado triga-mk-3 reactor  
     NT4 cornell triga-mk-2 reactor  
     NT4 dow triga-mk-1 reactor  
     NT4 fir-1 reactor  
     NT4 frf-2 reactor  
     NT4 fnr reactor  
     NT4 gulf triga-mk-3 reactor  
     NT4 kartini-ppny reactor  
     NT4 lopra reactor  
     NT4 nscr reactor  
     NT4 ostr reactor  
     NT4 prpr reactor  
     NT4 pstr reactor  
     NT4 rtp reactor  
     NT4 trico reactor  
     NT4 triga-1-arizona reactor  
     NT4 triga-1-california reactor  
     NT4 triga-1-hanford reactor  
     NT4 triga-1-hanover reactor  
     NT4 triga-1-heidelberg reactor  
     NT4 triga-1-michigan reactor  
     NT4 triga-2-bandung reactor  
     NT4 triga-2-bangladesh reactor  
     NT4 triga-2-dalat reactor  
     NT4 triga-2-illinois reactor  
     NT4 triga-2-kansas reactor  
     NT4 triga-2-ljubljana reactor  
     NT4 triga-2-mainz reactor  
     NT4 triga-2-musashi reactor  
     NT4 triga-2-pavia reactor  
     NT4 triga-2-pitesti reactor  
     NT4 triga-2 reactor  
     NT4 triga-2-rikkyo reactor  
     NT4 triga-2-rome reactor  
     NT4 triga-2-seoul reactor  
     NT4 triga-2-vienna reactor  
     NT4 triga-3-la jolla reactor  
     NT4 triga-3-munich reactor  
     NT4 triga-3-salazar reactor  
     NT4 triga-3-seoul reactor  
     NT4 triga-brazil reactor  
     NT4 triga-texas reactor  
     NT4 triga-veterans reactor  
     NT4 ucbr reactor  
     NT4 uwnr reactor

- NT4 wsur reactor  
 NT1 hydride moderated reactors  
 NT2 acpr reactor  
 NT2 anex reactor  
 NT2 nsrr reactor  
 NT2 stir reactor  
 NT2 szr type reactors  
 NT3 knk-2 reactor  
 NT3 knk reactor  
 NT2 topaz reactor  
 NT2 triga type reactors  
 NT3 afri reactor  
 NT3 atpr reactor  
 NT3 colorado triga-mk-3 reactor  
 NT3 cornell triga-mk-2 reactor  
 NT3 dow triga-mk-1 reactor  
 NT3 fir-1 reactor  
 NT3 frf-2 reactor  
 NT3 fm reactor  
 NT3 gulf triga-mk-3 reactor  
 NT3 kartini-ppny reactor  
 NT3 lopra reactor  
 NT3 nscr reactor  
 NT3 ostr reactor  
 NT3 prpr reactor  
 NT3 pstr reactor  
 NT3 rtp reactor  
 NT3 trico reactor  
 NT3 triga-1-arizona reactor  
 NT3 triga-1-california reactor  
 NT3 triga-1-hanford reactor  
 NT3 triga-1-hanover reactor  
 NT3 triga-1-heidelberg reactor  
 NT3 triga-1-michigan reactor  
 NT3 triga-2-bandung reactor  
 NT3 triga-2-bangladesh reactor  
 NT3 triga-2-dalat reactor  
 NT3 triga-2-illinois reactor  
 NT3 triga-2-kansas reactor  
 NT3 triga-2-ljubljana reactor  
 NT3 triga-2-mainz reactor  
 NT3 triga-2-musashi reactor  
 NT3 triga-2-pavia reactor  
 NT3 triga-2-pitesti reactor  
 NT3 triga-2 reactor  
 NT3 triga-2-rikkyo reactor  
 NT3 triga-2-rome reactor  
 NT3 triga-2-seoul reactor  
 NT3 triga-2-vienna reactor  
 NT3 triga-3-la jolla reactor  
 NT3 triga-3-munich reactor  
 NT3 triga-3-salazar reactor  
 NT3 triga-3-seoul reactor  
 NT3 triga-brazil reactor  
 NT3 triga-texas reactor  
 NT3 triga-veterans reactor  
 NT3 ucbr reactor  
 NT3 uwnr reactor  
 NT3 wsur reactor  
 NT2 xma-1 reactor  
 NT1 irradiation reactors  
 NT2 chemonuclear reactors  
 NT2 isotope production reactors  
 NT3 afri reactor  
 NT3 ai-1-77 reactor  
 NT3 alrr reactor  
 NT3 apsara reactor  
 NT3 astra reactor  
 NT3 atpr reactor  
 NT3 bep reactor  
 NT3 ber-2 reactor  
 NT3 bgrr reactor  
 NT3 br reactor  
 NT3 byu 1-77 reactor  
 NT3 celestin reactor  
 NT3 cesnef reactor  
 NT3 cirus reactor  
 NT3 consort-2 reactor  
 NT3 cp-5 reactor  
 NT3 dhruva reactor  
 NT3 dido reactor  
 NT3 dmtr reactor  
 NT3 dow triga-mk-1 reactor  
 NT3 dr-2 reactor  
 NT3 dr-3 reactor  
 NT3 el-1 reactor  
 NT3 el-2 reactor  
 NT3 el-3 reactor  
 NT3 etr reactor  
 NT3 ewa reactor  
 NT3 fir-1 reactor  
 NT3 fir reactor  
 NT3 fr-2 reactor  
 NT3 frf reactor  
 NT3 frg-2 reactor  
 NT3 frj-2 reactor  
 NT3 getr reactor  
 NT3 gtr reactor  
 NT3 gulf triga-mk-3 reactor  
 NT3 hanaro reactor  
 NT3 hfir reactor  
 NT3 hifar reactor  
 NT3 htr reactor  
 NT3 hwrr reactor  
 NT3 ian-r1 reactor  
 NT3 irt-c reactor  
 NT3 irt-f reactor  
 NT3 irt reactor  
 NT3 irt-sofia reactor  
 NT3 ispra-1 reactor  
 NT3 jeep-2 reactor  
 NT3 jrr-1 reactor  
 NT3 jrr-3 reactor  
 NT3 jrr-3m reactor  
 NT3 kuhfr reactor  
 NT3 lptr reactor  
 NT3 maria reactor  
 NT3 melusine-1 reactor  
 NT3 mnr reactor  
 NT3 mrr reactor  
 NT3 nru reactor  
 NT3 nrx reactor  
 NT3 opal reactor  
 NT3 ostr reactor  
 NT3 pulstar-buffalo reactor  
 NT3 r-1 reactor  
 NT3 r-a reactor  
 NT3 r2-0 reactor  
 NT3 rtp reactor  
 NT3 rts-1 reactor  
 NT3 siloe reactor  
 NT3 slowpoke type reactors  
 NT4 slowpoke-alberta reactor  
 NT4 slowpoke-dalhousie reactor  
 NT4 slowpoke-montreal reactor  
 NT4 slowpoke-ottawa reactor  
 NT4 slowpoke-toronto reactor  
 NT4 slowpoke-wnr reactor  
 NT3 taiwan research reactor  
 NT3 thetis reactor  
 NT3 thor reactor  
 NT3 tr-1 reactor  
 NT3 trico reactor  
 NT3 triga-1-california reactor  
 NT3 triga-1-hanford reactor  
 NT3 triga-1-michigan reactor  
 NT3 triga-2-bandung reactor  
 NT3 triga-2-bangladesh reactor  
 NT3 triga-2-dalat reactor  
 NT3 triga-2-illinois reactor  
 NT3 triga-2-kansas reactor  
 NT3 triga-2-ljubljana reactor  
 NT3 triga-2-mainz reactor  
 NT3 triga-2-musashi reactor  
 NT3 triga-2-pavia reactor  
 NT3 triga-2-pitesti reactor  
 NT3 triga-2 reactor  
 NT3 triga-2-rikkyo reactor  
 NT3 triga-2-rome reactor  
 NT3 triga-2-seoul reactor  
 NT3 triga-2-vienna reactor  
 NT3 triga-3-la jolla reactor  
 NT3 triga-3-munich reactor  
 NT3 triga-3-salazar reactor  
 NT3 triga-3-seoul reactor  
 NT3 triga-brazil reactor  
 NT3 triga-texas reactor  
 NT3 triga-veterans reactor  
 NT3 ucbr reactor  
 NT3 uwnr reactor  
 NT3 wwr-2 reactor  
 NT3 wwr-m-kiev reactor  
 NT3 wwr-m-leningrad reactor  
 NT3 wwr-s-budapest reactor  
 NT3 wwr-s-moscow reactor  
 NT3 wwr-sm rossendorf reactor  
 NT3 x-10 reactor  
 NT2 materials processing reactors  
 NT2 materials testing reactors  
 NT3 atr reactor  
 NT3 br-2 reactor  
 NT3 cp-2 reactor  
 NT3 dido reactor  
 NT3 dmtr reactor  
 NT3 dr-3 reactor  
 NT3 el-3 reactor  
 NT3 ewg-1 reactor  
 NT3 frg-2 reactor  
 NT3 frj-2 reactor  
 NT3 ga siwabessy reactor  
 NT3 gleep reactor  
 NT3 hanaro reactor  
 NT3 hector reactor  
 NT3 hfetr reactor  
 NT3 hfr reactor  
 NT3 hifar reactor  
 NT3 hwctr reactor  
 NT3 hwrr reactor  
 NT3 igr reactor  
 NT3 ivv-2m reactor  
 NT3 jmtr reactor  
 NT3 jrr-3 reactor  
 NT3 jrr-3m reactor  
 NT3 jules horowitz reactor  
 NT3 kstr reactor  
 NT3 lpr reactor  
 NT3 merlin reactor  
 NT3 mtr reactor  
 NT3 nbsr reactor  
 NT3 nrx reactor  
 NT3 osiris reactor  
 NT3 pbr reactor  
 NT3 pluto reactor  
 NT3 r-2 reactor  
 NT3 rv-1 reactor  
 NT3 sm-2 reactor  
 NT3 taiwan research reactor  
 NT3 triga-1-hanford reactor  
 NT3 wr-1 reactor  
 NT3 wwr-m-kiev reactor  
 NT3 wwr-m-leningrad reactor  
 NT3 zephyr reactor  
 NT2 tritium production reactors  
 NT3 celestin reactor  
 NT1 liquid metal cooled reactors  
 NT2 lithium cooled reactors  
 NT2 lmfr type reactors  
 NT3 beloyarsk-3 reactor  
 NT3 beloyarsk-4 reactor  
 NT3 bn-1600 reactor  
 NT3 bn-350 reactor  
 NT3 bn-800 reactor  
 NT3 bor-60 reactor

NT3	cdfr reactor	NT3	knk reactor	NT2	curus reactor
NT3	clinch river breeder reactor	NT1	metal moderated reactors	NT2	cordoba reactor
NT3	dfi reactor	NT2	beryllium moderated reactors	NT2	cp-2 reactor
NT3	ebr-1 reactor	NT3	agata reactor	NT2	cp-3 reactor
NT3	ebr-2 reactor	NT3	br-02 reactor	NT2	darlington-1 reactor
NT3	enrico fermi-1 reactor	NT3	ebor reactor	NT2	darlington-2 reactor
NT3	joyo reactor	NT3	ewg-1 reactor	NT2	darlington-3 reactor
NT3	kalpakkam lmfb reactor	NT3	maria reactor	NT2	darlington-4 reactor
NT3	monju reactor	NT3	nuclear furnace reactor	NT2	dhruva reactor
NT3	pfi reactor	NT1	mixed spectrum reactors	NT2	diorit reactor
NT3	phenix reactor	NT2	acpr reactor	NT2	douglas point ontario reactor
NT3	plbr reactor	NT2	br-3-vn reactor	NT2	eco reactor
NT3	rapsodie reactor	NT2	browns ferry-1 reactor	NT2	el-1 reactor
NT3	sbr-1 reactor	NT2	browns ferry-2 reactor	NT2	el-2 reactor
NT3	sbr-2 reactor	NT2	browns ferry-3 reactor	NT2	essor reactor
NT3	sbr-5 reactor	NT2	diorit reactor	NT2	f-1 reactor
NT3	snr-2 reactor	NT2	nsrr reactor	NT2	fr-2 reactor
NT3	snr reactor	NT2	omre reactor	NT2	gentilly-2 reactor
NT3	super phenix reactor	NT2	rpt reactor	NT2	gentilly reactor
NT2	mercury cooled reactors	NT1	mobile reactors	NT2	gleep reactor
NT3	clementine reactor	NT2	mh-1a reactor	NT2	hew-305 reactor
NT3	sbr-2 reactor	NT2	ml-1 reactor	NT2	hwzpr reactor
NT2	nak cooled reactors	NT2	s1c prototype reactor	NT2	jatr reactor
NT3	ebr-1 reactor	NT2	s1c prototype reactor	NT2	jrr-3 reactor
NT3	s10fs-1 reactor	NT2	space power reactors	NT2	kaiga-1 reactor
NT3	s10fs-3 reactor	NT3	snap reactors	NT2	kaiga-2 reactor
NT3	s10fs-4 reactor	NT4	snap 10 reactor	NT2	kakrapar-1 reactor
NT3	s2ds reactor	NT5	s10fs-1 reactor	NT2	kakrapar-2 reactor
NT3	s8dr reactor	NT5	s10fs-3 reactor	NT2	kakrapar-2 reactor
NT3	s8er reactor	NT5	s10fs-4 reactor	NT2	kalpakkam-1 reactor
NT3	ser reactor	NT4	snap 2 reactor	NT2	kalpakkam-2 reactor
NT3	ser reactor	NT5	s2ds reactor	NT2	kanupp reactor
NT3	snaptran reactors	NT4	snap 50 reactor	NT2	magnox type reactors
NT2	potassium cooled reactors	NT4	snap 8 reactor	NT3	berkeley reactor
NT3	ebr-1 reactor	NT5	s8dr reactor	NT3	bradwell reactor
NT3	ser reactor	NT5	s8er reactor	NT3	calder hall a-1 reactor
NT3	snap 10 reactor	NT3	space propulsion reactors	NT3	calder hall a-2 reactor
NT4	s10fs-1 reactor	NT4	kiwi reactors	NT3	calder hall b-3 reactor
NT4	s10fs-3 reactor	NT5	kiwi-tnt reactor	NT3	calder hall b-4 reactor
NT4	s10fs-4 reactor	NT4	nerva reactor	NT3	chapelcross-1 reactor
NT3	snap-tsfr reactor	NT4	nrx-a1 reactor	NT3	chapelcross-2 reactor
NT3	snaptran reactors	NT4	nrx-a2 reactor	NT3	chapelcross-3 reactor
NT2	sodium cooled reactors	NT4	nrx-a3 reactor	NT3	chapelcross-4 reactor
NT3	beloyarsk-3 reactor	NT4	nrx-a4-est reactor	NT3	dungeness-a reactor
NT3	beloyarsk-4 reactor	NT4	nrx-a5 reactor	NT3	hinkley point-a reactor
NT3	bn-1600 reactor	NT4	nrx-a6 reactor	NT3	hunterston-a reactor
NT3	bn-350 reactor	NT4	nrx-a7 reactor	NT3	latina reactor
NT3	bn-800 reactor	NT4	pewee-1 reactor	NT3	oldbury-a reactor
NT3	bor-60 reactor	NT4	pewee-2 reactor	NT3	sizewell-a reactor
NT3	cdfr reactor	NT4	pewee-3 reactor	NT3	tokai-mura reactor
NT3	clinch river breeder reactor	NT4	pewee-4 reactor	NT3	trawsfynnydd reactor
NT3	ebr-1 reactor	NT4	phoebus-1a reactor	NT3	wylfa reactor
NT3	ebr-2 reactor	NT4	phoebus-1b reactor	NT2	marius reactor
NT3	enrico fermi-1 reactor	NT4	phoebus-2a reactor	NT2	mzfr reactor
NT3	ffitf reactor	NT4	rover reactors	NT2	narora-1 reactor
NT3	hnpf reactor	NT4	twmr reactor	NT2	narora-2 reactor
NT3	knk-2 reactor	NT4	xe-2 reactor	NT2	npd reactor
NT3	knk reactor	NT1	molten salt reactors	NT2	nru reactor
NT3	lampre-1 reactor	NT2	molten salt cooled reactors	NT2	nrx reactor
NT3	monju reactor	NT3	msre reactor	NT2	pickering-1 reactor
NT3	pfi reactor	NT2	molten salt fueled reactors	NT2	pickering-2 reactor
NT3	phenix reactor	NT1	natural uranium reactors	NT2	pickering-3 reactor
NT3	rapsodie reactor	NT2	agesta reactor	NT2	pickering-4 reactor
NT3	sbr-5 reactor	NT2	aquilon reactor	NT2	pickering-5 reactor
NT3	sefor reactor	NT2	atucha-2 reactor	NT2	pickering-6 reactor
NT3	ser reactor	NT2	atucha reactor	NT2	pickering-7 reactor
NT3	sgr type reactors	NT2	bepo reactor	NT2	pickering-8 reactor
NT4	sre reactor	NT2	bohunice a-1 reactor	NT2	point lepreau-1 reactor
NT3	snap 10 reactor	NT2	bohunice a-2 reactor	NT2	point lepreau-2 reactor
NT4	s10fs-1 reactor	NT2	br-1 reactor	NT2	pse reactor
NT4	s10fs-3 reactor	NT2	bruce-1 reactor	NT2	r-1 reactor
NT4	s10fs-4 reactor	NT2	bruce-2 reactor	NT2	r-b reactor
NT3	snap-tsfr reactor	NT2	bruce-3 reactor	NT2	rajasthan-1 reactor
NT3	snaptran reactors	NT2	bruce-4 reactor	NT2	rajasthan-2 reactor
NT3	snr-2 reactor	NT2	bruce-5 reactor	NT2	rajasthan-3 reactor
NT3	snr reactor	NT2	bruce-6 reactor	NT2	rajasthan-4 reactor
NT3	super phenix reactor	NT2	bruce-7 reactor	NT2	taiwan research reactor
NT3	zrr reactor	NT2	bruce-8 reactor	NT2	windscale production reactors
NT2	szz type reactors	NT2	cernavoda-1 reactor	NT2	wolsung-1 reactor
NT3	knk-2 reactor	NT2	cesar reactor	NT2	wolsung-2 reactor

NT2	wolsung-3 reactor	NT3	bell reactor	NT3	kashiwazaki-kariwa-6 reactor
NT2	wolsung-4 reactor	NT3	big rock point reactor	NT3	kashiwazaki-kariwa-7 reactor
NT2	x-10 reactor	NT3	black fox-1 reactor	NT3	krummel reactor
NT2	zed-2 reactor	NT3	black fox-2 reactor	NT3	kuosheng-1 reactor
NT2	zeep reactor	NT3	bolsa chica-1 reactor	NT3	kuosheng-2 reactor
NT2	zephyr reactor	NT3	bolsa chica-2 reactor	NT3	la salle county-1 reactor
NT1	organic cooled reactors	NT3	bonus reactor	NT3	la salle county-2 reactor
NT2	eco reactor	NT3	browns ferry-1 reactor	NT3	lacbwr reactor
NT2	eocr reactor	NT3	browns ferry-2 reactor	NT3	laguna verde-1 reactor
NT2	essor reactor	NT3	browns ferry-3 reactor	NT3	laguna verde-2 reactor
NT2	lwor type reactors	NT3	brunsbuettel reactor	NT3	leibstadt reactor
NT2	omr type reactors	NT3	brunswick-1 reactor	NT3	limerick-1 reactor
NT3	arbus reactor	NT3	brunswick-2 reactor	NT3	limerick-2 reactor
NT3	omre reactor	NT3	chinshan-1 reactor	NT3	lingen reactor
NT3	pnpf reactor	NT3	chinshan-2 reactor	NT3	mendocino-1 reactor
NT2	wr-1 reactor	NT3	clinton-1 reactor	NT3	mendocino-2 reactor
NT2	zed-2 reactor	NT3	clinton-2 reactor	NT3	millstone-1 reactor
NT1	organic moderated reactors	NT3	cofrentes reactor	NT3	montague-1 reactor
NT2	akr-1 reactor	NT3	cooper reactor	NT3	montague-2 reactor
NT2	eocr reactor	NT3	dodewaard reactor	NT3	montalto di castro-1 reactor
NT2	omr type reactors	NT3	douglas point-1 reactor	NT3	montalto di castro-2 reactor
NT3	arbus reactor	NT3	douglas point-2 reactor	NT3	monticello reactor
NT3	omre reactor	NT3	dresden-1 reactor	NT3	muehleberg reactor
NT3	pnpf reactor	NT3	dresden-2 reactor	NT3	nine mile point-1 reactor
NT2	rospo reactor	NT3	dresden-3 reactor	NT3	nine mile point-2 reactor
NT2	sur-100 series reactor	NT3	duane arnold-1 reactor	NT3	okg-1 reactor
NT2	viper reactor	NT3	ebwr reactor	NT3	okg-2 reactor
NT2	zarlina reactor	NT3	enel-4 reactor	NT3	okg-3 reactor
NT1	plutonium reactors	NT3	enrico fermi-2 reactor	NT3	olkiluoto-1 reactor
NT2	clementine reactor	NT3	err reactor	NT3	olkiluoto-2 reactor
NT2	ebr-1 reactor	NT3	fitzpatrick reactor	NT3	onagawa-1 reactor
NT2	hclwr type reactors	NT3	forsmark-1 reactor	NT3	onagawa-2 reactor
NT2	jatr reactor	NT3	forsmark-2 reactor	NT3	onagawa-3 reactor
NT2	lampre-1 reactor	NT3	forsmark-3 reactor	NT3	oyster creek-1 reactor
NT2	masurca reactor	NT3	fukushima-1 reactor	NT3	pathfinder reactor
NT2	phenix reactor	NT3	fukushima-2 reactor	NT3	peach bottom-2 reactor
NT2	prcf reactor	NT3	fukushima-3 reactor	NT3	peach bottom-3 reactor
NT2	rapsodie reactor	NT3	fukushima-4 reactor	NT3	perry-1 reactor
NT2	sbr-1 reactor	NT3	fukushima-5 reactor	NT3	perry-2 reactor
NT2	sbr-2 reactor	NT3	fukushima-6 reactor	NT3	philippsburg-1 reactor
NT2	sbr-5 reactor	NT3	fukushima-ii-1 reactor	NT3	phipps bend-1 reactor
NT2	sefor reactor	NT3	fukushima-ii-2 reactor	NT3	phipps bend-2 reactor
NT2	stacy reactor	NT3	fukushima-ii-3 reactor	NT3	pilgrim-1 reactor
NT2	super phenix reactor	NT3	fukushima-ii-4 reactor	NT3	quad cities-1 reactor
NT2	tracy reactor	NT3	garigliano reactor	NT3	quad cities-2 reactor
NT2	zeep reactor	NT3	garona reactor	NT3	ringhals-1 reactor
NT2	zephyr reactor	NT3	ge standard reactor	NT3	river bend-1 reactor
NT1	power reactors	NT3	graben-1 reactor	NT3	river bend-2 reactor
NT2	agesta reactor	NT3	graben-2 reactor	NT3	rwe-bayernwerk reactor
NT2	aipfr reactor	NT3	grand gulf-1 reactor	NT3	shika-1 reactor
NT2	ao-phai-1 reactor	NT3	grand gulf-2 reactor	NT3	shimane-1 reactor
NT2	aps reactor	NT3	gundremmingen-2 reactor	NT3	shimane-2 reactor
NT2	arbus reactor	NT3	gundremmingen-3 reactor	NT3	shoreham reactor
NT2	avr reactor	NT3	hamaoka-1 reactor	NT3	skagit-1 reactor
NT2	beloyarsk-1 reactor	NT3	hamaoka-2 reactor	NT3	skagit-2 reactor
NT2	beloyarsk-2 reactor	NT3	hamaoka-3 reactor	NT3	sl-1 reactor
NT2	beloyarsk-3 reactor	NT3	hamaoka-4 reactor	NT3	susquehanna-1 reactor
NT2	beloyarsk-4 reactor	NT3	hamaoka-5 reactor	NT3	susquehanna-2 reactor
NT2	bilibin reactor	NT3	hartsville-1 reactor	NT3	tarapur-1 reactor
NT2	bn-1600 reactor	NT3	hartsville-2 reactor	NT3	tarapur-2 reactor
NT2	bn-350 reactor	NT3	hartsville-3 reactor	NT3	tokai-2 reactor
NT2	bn-800 reactor	NT3	hartsville-4 reactor	NT3	tsuruga reactor
NT2	bohunice a-1 reactor	NT3	hatch-1 reactor	NT3	tullnerfeld reactor
NT2	bohunice a-2 reactor	NT3	hatch-2 reactor	NT3	vak reactor
NT2	bor-60 reactor	NT3	hdr reactor	NT3	vbwr reactor
NT2	borax-3 reactor	NT3	hope creek-1 reactor	NT3	vermont yankee reactor
NT2	borax-4 reactor	NT4	newbold island-1 reactor	NT3	verplanck-1 reactor
NT2	borax-5 reactor	NT3	hope creek-2 reactor	NT3	verplanck-2 reactor
NT2	bugey-1 reactor	NT4	newbold island-2 reactor	NT3	vk-50 reactor
NT2	bwr type reactors	NT3	humboldt bay reactor	NT3	wnp-2 reactor
NT3	allens creek-1 reactor	NT3	isar reactor	NT3	wuergassen reactor
NT3	allens creek-2 reactor	NT3	jpdr-2 reactor	NT3	zimmer-1 reactor
NT3	bailly-1 reactor	NT3	jpdr reactor	NT3	zimmer-2 reactor
NT3	barsebaeck-1 reactor	NT3	kaiseraugst reactor	NT2	cdfr reactor
NT3	barsebaeck-2 reactor	NT3	kashiwazaki-kariwa-1 reactor	NT2	chernobylsk-1 reactor
NT3	barton-1 reactor	NT3	kashiwazaki-kariwa-2 reactor	NT2	chernobylsk-2 reactor
NT3	barton-2 reactor	NT3	kashiwazaki-kariwa-3 reactor	NT2	chernobylsk-3 reactor
NT3	barton-3 reactor	NT3	kashiwazaki-kariwa-4 reactor	NT2	chernobylsk-4 reactor
NT3	barton-4 reactor	NT3	kashiwazaki-kariwa-5 reactor	NT2	chinon-1 reactor

NT2	chinon-2 reactor	NT2	pec brasimone reactor	NT4	nerva reactor
NT2	chinon-3 reactor	NT2	perryman-1 reactor	NT4	nrx-a1 reactor
NT2	clinch river breeder reactor	NT2	perryman-2 reactor	NT4	nrx-a2 reactor
NT2	connah quay-b reactor	NT2	pfr reactor	NT4	nrx-a3 reactor
NT2	dfr reactor	NT2	phenix reactor	NT4	nrx-a4-est reactor
NT2	dragon reactor	NT2	plbr reactor	NT4	nrx-a5 reactor
NT2	dungeness-b reactor	NT2	pnpf reactor	NT4	nrx-a6 reactor
NT2	ebor reactor	NT2	pressure tube reactors	NT4	nrx-a7 reactor
NT2	ebr-1 reactor	NT3	atucha-2 reactor	NT4	pewee-1 reactor
NT2	ebr-2 reactor	NT3	atucha reactor	NT4	pewee-2 reactor
NT2	egcr reactor	NT3	candu type reactors	NT4	pewee-3 reactor
NT2	enrico fermi-1 reactor	NT4	bruce-1 reactor	NT4	pewee-4 reactor
NT2	epec reactor	NT4	bruce-2 reactor	NT4	phoebus-1a reactor
NT2	escom reactor	NT4	bruce-3 reactor	NT4	phoebus-1b reactor
NT2	evsr reactor	NT4	bruce-4 reactor	NT4	phoebus-2a reactor
NT2	fessenheim-2 reactor	NT4	bruce-5 reactor	NT4	rover reactors
NT2	fulton-1 reactor	NT4	bruce-6 reactor	NT4	twmr reactor
NT2	fulton-2 reactor	NT4	bruce-7 reactor	NT4	xe-2 reactor
NT2	ga standard reactor	NT4	bruce-8 reactor	NT3	tory-2a reactor
NT2	gcre reactor	NT4	cernavoda-1 reactor	NT3	tory-2c reactor
NT2	ginna-2 reactor	NT4	cordoba reactor	NT3	xe-prime reactor
NT2	hartlepool reactor	NT4	darlington-1 reactor	NT2	pwr type reactors
NT2	hbwr reactor	NT4	darlington-2 reactor	NT3	aguirre reactor
NT2	heysham-a reactor	NT4	darlington-3 reactor	NT3	almaraz-1 reactor
NT2	heysham-b reactor	NT4	darlington-4 reactor	NT3	almaraz-2 reactor
NT2	hinkley point-b reactor	NT4	douglas point ontario reactor	NT3	angra-1 reactor
NT2	hnpf reactor	NT4	embalse reactor	NT3	angra-2 reactor
NT2	hokuriku-1 reactor	NT4	gentilly-2 reactor	NT3	angra-3 reactor
NT2	hre-2 reactor	NT4	gentilly reactor	NT3	ardennes b-1 reactor
NT2	hunterston-b reactor	NT4	kaiga-1 reactor	NT3	ardennes b-2 reactor
NT2	ignalina-1 reactor	NT4	kaiga-2 reactor	NT3	ardennes reactor
NT2	ignalina-2 reactor	NT4	kakrapar-1 reactor	NT3	arkansas-1 reactor
NT2	jervis bay reactor	NT4	kakrapar-2 reactor	NT3	arkansas-2 reactor
NT2	joyo reactor	NT4	kanupp reactor	NT3	asco-1 reactor
NT2	kaiga-3 reactor	NT4	npd reactor	NT3	asco-2 reactor
NT2	kaiga-4 reactor	NT4	pickering-1 reactor	NT3	atlantic-1 reactor
NT2	knk-2 reactor	NT4	pickering-2 reactor	NT3	atlantic-2 reactor
NT2	knk reactor	NT4	pickering-3 reactor	NT3	basf-1 reactor
NT2	kursk-1 reactor	NT4	pickering-4 reactor	NT3	basf-2 reactor
NT2	kursk-2 reactor	NT4	pickering-5 reactor	NT3	beaver valley-1 reactor
NT2	kursk-3 reactor	NT4	pickering-6 reactor	NT3	beaver valley-2 reactor
NT2	kursk-4 reactor	NT4	pickering-7 reactor	NT3	bellefonte-1 reactor
NT2	lampre-1 reactor	NT4	pickering-8 reactor	NT3	bellefonte-2 reactor
NT2	leningrad-1 reactor	NT4	point lepreau-1 reactor	NT3	belleville sur loire-1 reactor
NT2	leningrad-2 reactor	NT4	point lepreau-2 reactor	NT3	belleville sur loire-2 reactor
NT2	leningrad-3 reactor	NT4	qinshan-3-1 reactor	NT3	beznau-1 reactor
NT2	leningrad-4 reactor	NT4	qinshan-3-2 reactor	NT3	beznau-2 reactor
NT2	magnox type reactors	NT4	rajasthan-1 reactor	NT3	biblis-1 reactor
NT3	berkeley reactor	NT4	rajasthan-2 reactor	NT3	biblis-2 reactor
NT3	bradwell reactor	NT4	rajasthan-3 reactor	NT3	biblis-3 reactor
NT3	calder hall a-1 reactor	NT4	rajasthan-4 reactor	NT3	biblis-4 reactor
NT3	calder hall a-2 reactor	NT4	wolsung-1 reactor	NT3	blayais-1 reactor
NT3	calder hall b-3 reactor	NT4	wolsung-2 reactor	NT3	blue hills-1 reactor
NT3	calder hall b-4 reactor	NT4	wolsung-3 reactor	NT3	blue hills-2 reactor
NT3	chapelcross-1 reactor	NT4	wolsung-4 reactor	NT3	borssele reactor
NT3	chapelcross-2 reactor	NT3	cirene reactor	NT3	br-3 reactor
NT3	chapelcross-3 reactor	NT3	cvtr reactor	NT3	braidwood-1 reactor
NT3	chapelcross-4 reactor	NT3	el-4 reactor	NT3	braidwood-2 reactor
NT3	dungeness-a reactor	NT3	jatr reactor	NT3	brokdorf reactor
NT3	hinkley point-a reactor	NT3	kalpakkam-1 reactor	NT3	bugey-2 reactor
NT3	hunterston-a reactor	NT3	kalpakkam-2 reactor	NT3	bugey-3 reactor
NT3	latina reactor	NT3	lucens reactor	NT3	bugey-4 reactor
NT3	oldbury-a reactor	NT3	niederaichbach reactor	NT3	bugey-5 reactor
NT3	sizewell-a reactor	NT3	prtr reactor	NT3	bw standard reactor
NT3	tokai-mura reactor	NT3	sghwr reactor	NT3	byron-1 reactor
NT3	trawsfynydd reactor	NT2	propulsion reactors	NT3	byron-2 reactor
NT3	wylfa reactor	NT3	aircraft propulsion reactors	NT3	calhoun-1 reactor
NT2	marviken reactor	NT4	xma-1 reactor	NT3	calhoun-2 reactor
NT2	ml-1 reactor	NT3	ship propulsion reactors	NT3	callaway-1 reactor
NT2	monju reactor	NT4	efdr-50 reactor	NT3	callaway-2 reactor
NT2	msre reactor	NT4	lenin reactor	NT3	calvert cliffs-1 reactor
NT2	mzfr reactor	NT4	leonid brezhnev reactor	NT3	calvert cliffs-2 reactor
NT2	n-reactor	NT4	mutsu reactor	NT3	catawba-1 reactor
NT2	narora-1 reactor	NT4	otto hahn reactor	NT3	catawba-2 reactor
NT2	narora-2 reactor	NT4	savannah reactor	NT3	cattenom-1 reactor
NT2	okg-4 reactor	NT4	sibir reactor	NT3	cattenom-2 reactor
NT2	oldbury-b reactor	NT3	space propulsion reactors	NT3	cattenom-3 reactor
NT2	package reactors	NT4	kiwi reactors	NT3	cattenom-4 reactor
NT2	peach bottom-1 reactor	NT5	kiwi-tnt reactor	NT3	ce standard reactor

NT3	cherokee-1 reactor	NT3	jamesport-2 reactor	NT3	pm-2a reactor
NT3	cherokee-2 reactor	NT3	kewaunee reactor	NT3	pm-3a reactor
NT3	cherokee-3 reactor	NT3	koeberg-1 reactor	NT3	pnp-1 reactor
NT3	chinon-b1 reactor	NT3	koeberg-2 reactor	NT3	point beach-1 reactor
NT3	civaux-1 reactor	NT3	kori-1 reactor	NT3	point beach-2 reactor
NT3	civaux-2 reactor	NT3	kori-2 reactor	NT3	prairie island-1 reactor
NT3	comanche peak-1 reactor	NT3	kori-3 reactor	NT3	prairie island-2 reactor
NT3	comanche peak-2 reactor	NT3	kori-4 reactor	NT3	qinshan-1 reactor
NT3	connecticut yankee reactor	NT3	krsko reactor	NT3	qinshan-2-1 reactor
NT3	cook-1 reactor	NT3	lemoniz-1 reactor	NT3	qinshan-2-2 reactor
NT3	cook-2 reactor	NT3	lemoniz-2 reactor	NT3	quanicassee-1 reactor
NT3	cruas-2 reactor	NT3	lenin reactor	NT3	quanicassee-2 reactor
NT3	cruas-3 reactor	NT3	leonid brezhnev reactor	NT3	rancho seco-1 reactor
NT3	cruas-4 reactor	NT3	lingao-1 reactor	NT3	remerschen reactor
NT3	crystal river-3 reactor	NT3	lingao-2 reactor	NT3	rheinsberg akw1 reactor
NT3	crystal river-4 reactor	NT3	loft reactor	NT3	ringhals-2 reactor
NT3	dampierre-1 reactor	NT3	lucie-1 reactor	NT3	ringhals-3 reactor
NT3	dampierre-2 reactor	NT3	lucie-2 reactor	NT3	ringhals-4 reactor
NT3	dampierre-3 reactor	NT3	maanshan-1 reactor	NT3	robinson-2 reactor
NT3	dampierre-4 reactor	NT3	maine yankee reactor	NT3	rooppur reactor
NT3	davis besse-1 reactor	NT3	malibu-1 reactor	NT3	rowe yankee reactor
NT3	davis besse-2 reactor	NT3	marble hill-1 reactor	NT3	s1c prototype reactor
NT3	davis besse-3 reactor	NT3	marble hill-2 reactor	NT3	saint alban-1 reactor
NT3	daya bay-1 reactor	NT3	mc guire-1 reactor	NT3	saint alban-2 reactor
NT3	daya bay-2 reactor	NT3	mc guire-2 reactor	NT3	saint laurent-b1 reactor
NT3	diablo canyon-1 reactor	NT3	mh-1a reactor	NT3	salem-1 reactor
NT3	diablo canyon-2 reactor	NT3	midland-1 reactor	NT3	salem-2 reactor
NT3	doel-1 reactor	NT3	midland-2 reactor	NT3	san onofre-1 reactor
NT3	doel-2 reactor	NT3	mihama-1 reactor	NT3	san onofre-2 reactor
NT3	doel-3 reactor	NT3	mihama-2 reactor	NT3	san onofre-3 reactor
NT3	doel-4 reactor	NT3	mihama-3 reactor	NT3	savannah reactor
NT3	efdr-50 reactor	NT3	millstone-2 reactor	NT3	saxton reactor
NT3	emsland reactor	NT3	millstone-3 reactor	NT3	seabrook-1 reactor
NT3	erie-1 reactor	NT3	muelheim-kaerlich reactor	NT3	seabrook-2 reactor
NT3	erie-2 reactor	NT3	mutsu reactor	NT3	selni reactor
NT3	farley-1 reactor	NT3	neckar-1 reactor	NT3	sendai-1 reactor
NT3	farley-2 reactor	NT3	neckar-2 reactor	NT3	sendai-2 reactor
NT3	fessenheim-1 reactor	NT3	nep-1 reactor	NT3	sequoyah-1 reactor
NT3	flamanville-1 reactor	NT3	nep-2 reactor	NT3	sequoyah-2 reactor
NT3	flamanville-2 reactor	NT3	neupotz-1 reactor	NT3	shippingport reactor
NT3	forked river-1 reactor	NT3	neupotz-2 reactor	NT3	sizewell-b reactor
NT3	genkai-1 reactor	NT3	nogent sur seine-1 reactor	NT3	sm-1 reactor
NT3	genkai-2 reactor	NT3	nogent sur seine-2 reactor	NT3	sm-1a reactor
NT3	genkai-3 reactor	NT3	north anna-1 reactor	NT3	south texas project-1 reactor
NT3	genkai-4 reactor	NT3	north anna-2 reactor	NT3	south texas project-2 reactor
NT3	ginna-1 reactor	NT3	north anna-3 reactor	NT3	stade reactor
NT3	goesgen reactor	NT3	north anna-4 reactor	NT3	sterling-1 reactor
NT3	golfech-1 reactor	NT3	north coast-1 reactor	NT3	sterling-2 reactor
NT3	golfech-2 reactor	NT3	obrigheim reactor	NT3	summer-1 reactor
NT3	grafenrheinfeld reactor	NT3	oconee-1 reactor	NT3	sundesert-1 reactor
NT3	gravelines-1 reactor	NT3	oconee-2 reactor	NT3	sundesert-2 reactor
NT3	gravelines-2 reactor	NT3	oconee-3 reactor	NT3	surry-1 reactor
NT3	gravelines-3 reactor	NT3	oi-1 reactor	NT3	surry-2 reactor
NT3	gravelines-4 reactor	NT3	oi-2 reactor	NT3	surry-3 reactor
NT3	gravelines-5 reactor	NT3	oi-3 reactor	NT3	surry-4 reactor
NT3	gravelines-6 reactor	NT3	oi-4 reactor	NT3	takahama-1 reactor
NT3	greene county reactor	NT3	oktembryan-2 reactor	NT3	takahama-2 reactor
NT3	greenwood-2 reactor	NT3	olkiluoto-3 reactor	NT3	takahama-3 reactor
NT3	greenwood-3 reactor	NT3	otto hahn reactor	NT3	takahama-4 reactor
NT3	grohnde reactor	NT3	palisades-1 reactor	NT3	three mile island-1 reactor
NT3	hamm-uentrop reactor	NT3	palo verde-1 reactor	NT3	three mile island-2 reactor
NT3	harris-1 reactor	NT3	palo verde-2 reactor	NT3	tihange-2 reactor
NT3	harris-2 reactor	NT3	palo verde-3 reactor	NT3	tihange-3 reactor
NT3	harris-3 reactor	NT3	palo verde-4 reactor	NT3	tihange reactor
NT3	harris-4 reactor	NT3	palo verde-5 reactor	NT3	tomari-1 reactor
NT3	haven-1 reactor	NT3	paluel-1 reactor	NT3	tomari-2 reactor
NT4	koshkonong-1 reactor	NT3	paluel-2 reactor	NT3	tricastin-1 reactor
NT3	haven-2 reactor	NT3	paluel-3 reactor	NT3	tricastin-4 reactor
NT4	koshkonong-2 reactor	NT3	paluel-4 reactor	NT3	trillo-1 reactor
NT3	ikata-2 reactor	NT3	pat reactor	NT3	trojan reactor
NT3	ikata-3 reactor	NT3	pebble springs-1 reactor	NT3	tsuruga-2 reactor
NT3	ikata reactor	NT3	pebble springs-2 reactor	NT3	turkey point-3 reactor
NT3	indian point-1 reactor	NT3	penly-1 reactor	NT3	turkey point-4 reactor
NT3	indian point-2 reactor	NT3	perkins-1 reactor	NT3	tva-1 reactor
NT3	indian point-3 reactor	NT3	perkins-2 reactor	NT3	tva-2 reactor
NT3	iran-1 reactor	NT3	perkins-3 reactor	NT3	tyrone-1 reactor
NT3	iran-2 reactor	NT3	philippsburg-2 reactor	NT3	tyrone-2 reactor
NT3	isar-2 reactor	NT3	pilgrim-2 reactor	NT3	ulchin-1 reactor
NT3	jamesport-1 reactor	NT3	pilgrim-3 reactor	NT3	ulchin-2 reactor

- NT3** ulchin-3 reactor  
**NT3** ulchin-4 reactor  
**NT3** unterweser reactor  
**NT3** vahnum-1 reactor  
**NT3** vahnum-2 reactor  
**NT3** vandellos-2 reactor  
**NT3** vogtle-1 reactor  
**NT3** vogtle-2 reactor  
**NT3** vogtle-3 reactor  
**NT3** vogtle-4 reactor  
**NT3** waterford-3 reactor  
**NT3** waterford-4 reactor  
**NT3** watts bar-1 reactor  
**NT3** watts bar-2 reactor  
**NT3** westinghouse standard reactor  
**NT3** wnp-1 reactor  
**NT3** wnp-3 reactor  
**NT3** wnp-4 reactor  
**NT3** wnp-5 reactor  
**NT3** wolf creek-1 reactor  
**NT3** wup-3 reactor  
**NT3** wup-4 reactor  
**NT3** wup-5 reactor  
**NT3** wup-6 reactor  
**NT3** wwer type reactors  
**NT4** armenian-1 reactor  
**NT4** armenian-2 reactor  
**NT4** balakovo-1 reactor  
**NT4** balakovo-2 reactor  
**NT4** balakovo-3 reactor  
**NT4** balakovo-4 reactor  
**NT4** blahutovice-1 reactor  
**NT4** bohunice v-1 reactor  
**NT4** bohunice v-2 reactor  
**NT4** dukovany-1 reactor  
**NT4** dukovany-2 reactor  
**NT4** dukovany-3 reactor  
**NT4** dukovany-4 reactor  
**NT4** greifswald-1 reactor  
**NT4** greifswald-2 reactor  
**NT4** greifswald-3 reactor  
**NT4** greifswald-4 reactor  
**NT4** greifswald-5 reactor  
**NT4** greifswald-6 reactor  
**NT4** juragua-1 reactor  
**NT4** kalinin-1 reactor  
**NT4** kalinin-3 reactor  
**NT4** kecerovce-1 reactor  
**NT4** khmelnitskij-1 reactor  
**NT4** kola-1 reactor  
**NT4** kola-2 reactor  
**NT4** kola-3 reactor  
**NT4** kola-4 reactor  
**NT4** kozloduy-1 reactor  
**NT4** kozloduy-2 reactor  
**NT4** kozloduy-3 reactor  
**NT4** kozloduy-4 reactor  
**NT4** kozloduy-5 reactor  
**NT4** kozloduy-6 reactor  
**NT4** kudankulam-1 reactor  
**NT4** kudankulam-2 reactor  
**NT4** loviisa-1 reactor  
**NT4** loviisa-2 reactor  
**NT4** mochovce-1 reactor  
**NT4** mochovce-2 reactor  
**NT4** novovoronezh-1 reactor  
**NT4** novovoronezh-2 reactor  
**NT4** novovoronezh-3 reactor  
**NT4** novovoronezh-4 reactor  
**NT4** novovoronezh-5 reactor  
**NT4** paks-1 reactor  
**NT4** paks-2 reactor  
**NT4** paks-3 reactor  
**NT4** paks-4 reactor  
**NT4** rovno-1 reactor  
**NT4** rovno-2 reactor  
**NT4** rovno-3 reactor  
**NT4** rovno-4 reactor  
**NT4** rovno-5 reactor  
**NT4** south ukrainian-1 reactor  
**NT4** south ukrainian-2 reactor  
**NT4** south ukrainian-3 reactor  
**NT4** stendal-1 reactor  
**NT4** tatarian reactor  
**NT4** temelin-1 reactor  
**NT4** temelin-2 reactor  
**NT4** tianwan-1 reactor  
**NT4** zaporozhe-1 reactor  
**NT4** zaporozhe-2 reactor  
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**NT4** zaporozhe-5 reactor  
**NT4** zaporozhe-6 reactor  
**NT3** wyhl-1 reactor  
**NT3** wyhl-2 reactor  
**NT3** yellow creek-1 reactor  
**NT3** yellow creek-2 reactor  
**NT3** yonggwang-1 reactor  
**NT3** yonggwang-2 reactor  
**NT3** yonggwang-3 reactor  
**NT3** yonggwang-4 reactor  
**NT3** zion-1 reactor  
**NT3** zion-2 reactor  
**NT3** zorita-1 reactor  
**NT2** rajasthan-5 reactor  
**NT2** rajasthan-6 reactor  
**NT2** rancho seco-2 reactor  
**NT2** saint laurent-1 reactor  
**NT2** saint laurent-2 reactor  
**NT2** schmehausen-2 reactor  
**NT2** sefor reactor  
**NT2** smolensk-1 reactor  
**NT2** smolensk-2 reactor  
**NT2** smolensk-3 reactor  
**NT2** snr-2 reactor  
**NT2** snr reactor  
**NT2** space power reactors  
**NT3** snap reactors  
**NT4** snap 10 reactor  
**NT5** s10fs-1 reactor  
**NT5** s10fs-3 reactor  
**NT5** s10fs-4 reactor  
**NT4** snap 2 reactor  
**NT5** s2ds reactor  
**NT4** snap 50 reactor  
**NT4** snap 8 reactor  
**NT5** s8dr reactor  
**NT5** s8er reactor  
**NT3** space propulsion reactors  
**NT4** kiwi reactors  
**NT5** kiwi-tnt reactor  
**NT4** nerva reactor  
**NT4** nrx-a1 reactor  
**NT4** nrx-a2 reactor  
**NT4** nrx-a3 reactor  
**NT4** nrx-a4-est reactor  
**NT4** nrx-a5 reactor  
**NT4** nrx-a6 reactor  
**NT4** nrx-a7 reactor  
**NT4** pewee-1 reactor  
**NT4** pewee-2 reactor  
**NT4** pewee-3 reactor  
**NT4** pewee-4 reactor  
**NT4** phoebus-1a reactor  
**NT4** phoebus-1b reactor  
**NT4** phoebus-2a reactor  
**NT4** rover reactors  
**NT4** twmr reactor  
**NT4** xe-2 reactor  
**NT2** sre reactor  
**NT2** summit-1 reactor  
**NT2** summit-2 reactor  
**NT2** tarapur-3 reactor  
**NT2** tarapur-4 reactor  
**NT2** thermionic reactors  
**NT2** thermoelectric reactors  
**NT2** thtr-300 reactor  
**NT2** topaz reactor  
**NT2** torness reactor  
**NT2** vandellos reactor  
**NT2** vg-400 reactor  
**NT2** vgr-50 reactor  
**NT2** vhtr reactor  
**NT2** vidal-1 reactor  
**NT2** vidal-2 reactor  
**NT2** vrain reactor  
**NT2** wagr reactor  
**NT1** process heat reactors  
**NT2** agesta reactor  
**NT2** midland-1 reactor  
**NT2** midland-2 reactor  
**NT2** nhr-5 reactor  
**NT2** pm-2a reactor  
**NT2** ser reactor  
**NT2** sl-1 reactor  
**NT2** slowpoke-wnre reactor  
**NT2** sm-1a reactor  
**NT2** snap 10 reactor  
**NT3** s10fs-1 reactor  
**NT3** s10fs-3 reactor  
**NT3** s10fs-4 reactor  
**NT2** snap-tsrf reactor  
**NT2** thermos reactor  
**NT1** production reactors  
**NT2** plutonium production reactors  
**NT3** calder hall a-1 reactor  
**NT3** calder hall a-2 reactor  
**NT3** calder hall b-3 reactor  
**NT3** calder hall b-4 reactor  
**NT3** chapelcross-1 reactor  
**NT3** chapelcross-2 reactor  
**NT3** chapelcross-3 reactor  
**NT3** chapelcross-4 reactor  
**NT3** g-1 reactor  
**NT3** g-2 reactor  
**NT3** g-3 reactor  
**NT3** hanford production reactors  
**NT3** n-reactor  
**NT3** windscale production reactors  
**NT2** rtr reactor  
**NT2** special production reactors  
**NT3** c reactor  
**NT3** k reactor  
**NT3** l reactor  
**NT3** p reactor  
**NT3** r reactor  
**NT2** sr-305 reactor  
**NT1** pulsed reactors  
**NT2** acpr reactor  
**NT2** aprf reactor  
**NT2** atrp reactor  
**NT2** bigr reactor  
**NT2** bir reactor  
**NT2** fbrf reactor  
**NT2** fir-1 reactor  
**NT2** gidra reactor  
**NT2** hector reactor  
**NT2** hprr reactor  
**NT2** ibr-2 reactor  
**NT2** ibr-30 reactor  
**NT2** igr reactor  
**NT2** kalpakkam pfr reactor  
**NT2** nsrr reactor  
**NT2** ostr reactor  
**NT2** pbf reactor  
**NT2** sora reactor  
**NT2** spr-2 reactor  
**NT2** spr-3 reactor  
**NT2** spr-4 reactor  
**NT2** super kukla reactor  
**NT2** tibr reactor  
**NT2** triga-1-california reactor  
**NT2** triga-1-michigan reactor  
**NT2** triga-2-bangladesh reactor  
**NT2** triga-2-illinois reactor  
**NT2** triga-2-kansas reactor  
**NT2** triga-2-mainz reactor

- NT2** triga-2-pavia reactor  
**NT2** triga-2-pitesti reactor  
**NT2** triga-3-munich reactor  
**NT2** triga-texas reactor  
**NT2** ucbr reactor  
**NT2** viper reactor  
**NT2** wsur reactor  
**NT2** xapr reactor  
**NT1** research and test reactors  
**NT2** argonaut type reactors  
**NT3** aeg-pr-10 reactor  
**NT3** arbi reactor  
**NT3** argonaut reactor  
**NT3** argos reactor  
**NT3** athene reactor  
**NT3** jason reactor  
**NT3** lfr reactor  
**NT3** moata reactor  
**NT3** nestor reactor  
**NT3** queen mary college utr-b reactor  
**NT3** ra-1 reactor  
**NT3** rb-2 reactor  
**NT3** rien-1 reactor  
**NT3** srcc-utr-100 reactor  
**NT3** stark reactor  
**NT3** strasbourg-cronenbourg reactor  
**NT3** ufr reactor  
**NT3** ulyse reactor  
**NT3** urr reactor  
**NT3** utr-10-kinki reactor  
**NT3** vpi-utr-10 reactor  
**NT2** experimental reactors  
**NT3** aps reactor  
**NT3** arbus reactor  
**NT3** atrc reactor  
**NT3** bilibin reactor  
**NT3** bor-60 reactor  
**NT3** borax-1 reactor  
**NT3** borax-2 reactor  
**NT3** borax-3 reactor  
**NT3** borax-4 reactor  
**NT3** br-3-vn reactor  
**NT3** cefr reactor  
**NT3** cesar reactor  
**NT3** dfr reactor  
**NT3** dragon reactor  
**NT3** ebr-1 reactor  
**NT3** ebr-2 reactor  
**NT3** ebwr reactor  
**NT3** egcr reactor  
**NT3** el-1 reactor  
**NT3** eocr reactor  
**NT3** esada-vesr reactor  
**NT3** ewg-1 reactor  
**NT3** gcre reactor  
**NT3** hbwr reactor  
**NT3** hdr reactor  
**NT3** hre-2 reactor  
**NT3** htr-10 reactor  
**NT3** httr reactor  
**NT3** igr reactor  
**NT3** ir-100 reactor  
**NT3** joyo reactor  
**NT3** jpdr reactor  
**NT3** jules horowitz reactor  
**NT3** kiwi-tnt reactor  
**NT3** knk-2 reactor  
**NT3** knk reactor  
**NT3** lampre-1 reactor  
**NT3** mh-1a reactor  
**NT3** mir reactor  
**NT3** msre reactor  
**NT3** nrx-a1 reactor  
**NT3** nrx-a2 reactor  
**NT3** nrx-a3 reactor  
**NT3** nrx-a4-est reactor  
**NT3** nrx-a5 reactor  
**NT3** nrx-a6 reactor  
**NT3** nrx-a7 reactor  
**NT3** omre reactor  
**NT3** opal reactor  
**NT3** rover reactors  
**NT3** sefor reactor  
**NT3** spert-1 reactor  
**NT3** spert-2 reactor  
**NT3** spert-3 reactor  
**NT3** spert-4 reactor  
**NT3** sre reactor  
**NT3** subcritical assemblies  
**NT4** pse reactor  
**NT4** stsf assembly  
**NT3** topaz reactor  
**NT3** tory-2a reactor  
**NT3** tory-2c reactor  
**NT3** treat reactor  
**NT3** tz1 reactor  
**NT3** tz2 reactor  
**NT3** uhtrex reactor  
**NT3** venus reactor  
**NT3** vhr reactor  
**NT3** xe-2 reactor  
**NT3** xe-prime reactor  
**NT3** xma-1 reactor  
**NT3** zero power reactors  
**NT4** agata reactor  
**NT4** akr-1 reactor  
**NT4** anex reactor  
**NT4** anna reactor  
**NT4** apfa-3 reactor  
**NT4** aquilon reactor  
**NT4** bfs reactor  
**NT4** big ten reactor  
**NT4** cfmf reactor  
**NT4** cml reactor  
**NT4** coral-1 reactor  
**NT4** crocus reactor  
**NT4** dca reactor  
**NT4** dimple reactor  
**NT4** ecel reactor  
**NT4** ermine reactor  
**NT4** etrc reactor  
**NT4** fca reactor  
**NT4** flattop reactor  
**NT4** fr-0 reactor  
**NT4** godiva reactor  
**NT4** hero reactor  
**NT4** hitrex-1 reactor  
**NT4** horace reactor  
**NT4** hwzpr reactor  
**NT4** iea-zpr reactor  
**NT4** ifr reactor  
**NT4** ipen-mb-1 reactor  
**NT4** jezebel reactor  
**NT4** junco reactor  
**NT4** kahter reactor  
**NT4** kbr-1 reactor  
**NT4** kritz reactor  
**NT4** kuca reactor  
**NT4** lptf reactor  
**NT4** lr-0 reactor  
**NT4** lvr-15 reactor  
**NT4** marius reactor  
**NT4** maryla reactor  
**NT4** masurca reactor  
**NT4** minerve reactor  
**NT4** neptune reactor  
**NT4** nsf-rfp reactor  
**NT4** or-cef reactor  
**NT4** ornl-pca reactor  
**NT4** parka reactor  
**NT4** pdp reactor  
**NT4** peggy reactor  
**NT4** pelinduna reactor  
**NT4** plasma core assembly  
**NT4** prcf reactor  
**NT4** ptf-unc reactor  
**NT4** pumima-2 reactor  
**NT4** pumima reactor  
**NT4** r-b reactor  
**NT4** ra-0 reactor  
**NT4** ra-2 reactor  
**NT4** ra-8 reactor  
**NT4** rake-2 reactor  
**NT4** rb-1 reactor  
**NT4** rb-3 reactor  
**NT4** rensselaer critical facility  
**NT4** ritmo reactor  
**NT4** rospo reactor  
**NT4** saref reactor  
**NT4** shca reactor  
**NT4** silene reactor  
**NT4** siloette reactor  
**NT4** sneak reactor  
**NT4** split table reactor  
**NT4** sr-0a reactor  
**NT4** stacy reactor  
**NT4** tca reactor  
**NT4** tr-0 reactor  
**NT4** tracy reactor  
**NT4** vera reactor  
**NT4** zebra reactor  
**NT4** zeep reactor  
**NT4** zenith reactor  
**NT4** zephyr reactor  
**NT4** zerlina reactor  
**NT4** zlfr reactor  
**NT4** zppr reactor  
**NT4** zpr-3 reactor  
**NT4** zpr-6 reactor  
**NT4** zpr-9 reactor  
**NT4** zpr reactor  
**NT4** zr-6 reactor  
**NT3** zrr reactor  
**NT2** kalpakkam pfr reactor  
**NT2** kamini reactor  
**NT2** maple reactor  
**NT2** maple type reactors  
**NT2** maria reactor  
**NT2** nuclear furnace reactor  
**NT2** pumima-3 reactor  
**NT2** research reactors  
**NT3** aarr reactor  
**NT3** acpr reactor  
**NT3** aeg-pr-10 reactor  
**NT3** aérojet-general nucleonics reactors  
**NT3** afri reactor  
**NT3** afsr reactor  
**NT3** agata reactor  
**NT3** ai-1-77 reactor  
**NT3** alrr reactor  
**NT3** anna reactor  
**NT3** aprf reactor  
**NT3** apsara reactor  
**NT3** arbi reactor  
**NT3** argonaut reactor  
**NT3** argos reactor  
**NT3** argus reactor  
**NT3** armf-1 reactor  
**NT3** astra reactor  
**NT3** athene reactor  
**NT3** atrp reactor  
**NT3** atsr reactor  
**NT3** avogadro rs-1 reactor  
**NT3** barn reactor  
**NT3** bepo reactor  
**NT3** ber-2 reactor  
**NT3** bgrr reactor  
**NT3** bigr reactor  
**NT3** bir reactor  
**NT3** br-02 reactor  
**NT3** br-1 reactor  
**NT3** brr reactor  
**NT3** bsr-1 reactor  
**NT3** bsr-2 reactor  
**NT3** byu 1-77 reactor  
**NT3** cabri reactor



NT3	cesar reactor	NT3	irl reactor	NT3	phebus reactor
NT3	cesnef reactor	NT3	irr-1 reactor	NT3	pik physical model reactor
NT3	cirus reactor	NT3	irr-2 reactor	NT3	pik reactor
NT3	clementine reactor	NT3	irt-1 libya reactor	NT3	prnc-1-77 reactor
NT3	consort-2 reactor	NT3	irt-2000 djakarta reactor	NT3	proteus reactor
NT3	coral-1 reactor	NT3	irt-2000 moscow reactor	NT3	prtr reactor
NT3	cp-2 reactor	NT3	irt-baghdad reactor	NT3	pstr reactor
NT3	cp-3 reactor	NT3	irt-c reactor	NT3	ptr reactor
NT3	cp-3m reactor	NT3	irt-f reactor	NT3	pulstar-buffalo reactor
NT3	cp-5 reactor	NT3	irt-m reactor	NT3	pulstar-raleigh reactor
NT3	cp-6 reactor	NT3	irt reactor	NT3	r-1 reactor
NT3	crocus reactor	NT3	irt-sofia reactor	NT3	r-2 reactor
NT3	democritus reactor	NT3	isis reactor	NT3	r-a reactor
NT3	dhruva reactor	NT3	ispra-1 reactor	NT3	r2-0 reactor
NT3	dido reactor	NT3	ivv-2m reactor	NT3	ra-0 reactor
NT3	diorit reactor	NT3	ivv-7 reactor	NT3	ra-2 reactor
NT3	dmtr reactor	NT3	janus reactor	NT3	ra-3 reactor
NT3	dow triga-mk-1 reactor	NT3	jason reactor	NT3	ra-4 reactor
NT3	dr-1 reactor	NT3	jeep-2 reactor	NT3	ra-5 reactor
NT3	dr-2 reactor	NT3	jen-1 reactor	NT3	ra-6 reactor
NT3	dr-3 reactor	NT3	jen-2 reactor	NT3	ra-8 reactor
NT3	ebor reactor	NT3	jen reactor	NT3	rake-2 reactor
NT3	ebr-1 reactor	NT3	jmtr reactor	NT3	rana reactor
NT3	eco reactor	NT3	jrr-1 reactor	NT3	rb-1 reactor
NT3	el-1 reactor	NT3	jrr-2 reactor	NT3	rg-1m reactor
NT3	el-2 reactor	NT3	jrr-3 reactor	NT3	rien-1 reactor
NT3	el-3 reactor	NT3	jrr-3m reactor	NT3	rinsc reactor
NT3	eocr reactor	NT3	jrr-4 reactor	NT3	ritmo reactor
NT3	eole reactor	NT3	juno reactor	NT3	romashka reactor
NT3	es-salam reactor	NT3	kartini-ppny reactor	NT3	rp-10 reactor
NT3	etr reactor	NT3	king reactor	NT3	rpt reactor
NT3	etrc reactor	NT3	kstr reactor	NT3	rts-1 reactor
NT3	etrr-1 reactor	NT3	kuhfr reactor	NT3	rv-1 reactor
NT3	etrr-2 reactor	NT3	kur reactor	NT3	safari-1 reactor
NT3	ewa reactor	NT3	la reina rech-1 reactor	NT3	sbr-1 reactor
NT3	f-1 reactor	NT3	lfr reactor	NT3	sbr-2 reactor
NT3	fbrf reactor	NT3	lido reactor	NT3	sbr-5 reactor
NT3	fftf reactor	NT3	lo aguirre rech-2 reactor	NT3	scarabee reactor
NT3	fir-1 reactor	NT3	lpr reactor	NT3	silene reactor
NT3	fimrb reactor	NT3	lprr reactor	NT3	slowpoke type reactors
NT3	fmr reactor	NT3	ltir reactor	NT4	slowpoke-alberta reactor
NT3	fr-0 reactor	NT3	lvr-15 reactor	NT4	slowpoke-dalhousie reactor
NT3	fr-2 reactor	NT3	marius reactor	NT4	slowpoke-montreal reactor
NT3	frf reactor	NT3	maryla reactor	NT4	slowpoke-ottawa reactor
NT3	frg-1 reactor	NT3	melusine-1 reactor	NT4	slowpoke-toronto reactor
NT3	frg-2 reactor	NT3	merlin reactor	NT4	slowpoke-wnre reactor
NT3	frj-1 reactor	NT3	minerve reactor	NT3	sneak reactor
NT3	frj-2 reactor	NT3	mitr reactor	NT3	sora reactor
NT3	frm-ii reactor	NT3	mnr reactor	NT3	spert-1 reactor
NT3	frm reactor	NT3	mnsr type reactors	NT3	spr-2 reactor
NT3	frn reactor	NT4	gharr-1 reactor	NT3	spr-3 reactor
NT3	ga siwabessy reactor	NT4	mnsr-ciae reactor	NT3	spr-4 reactor
NT3	gidra reactor	NT4	mnsr-sd reactor	NT3	sr-1 reactor
NT3	gleep reactor	NT4	mnsr-sh reactor	NT3	sr-0a reactor
NT3	grenoble reactor	NT4	mnsr-sz reactor	NT3	srrc-utr-100 reactor
NT3	gtrr reactor	NT4	nirr-1 reactor	NT3	stf reactor
NT3	gulf triga-mk-3 reactor	NT4	parr-2 reactor	NT3	supo reactor
NT3	hanaro reactor	NT4	srr-1 reactor	NT3	swierk r-2 reactor
NT3	harmonie reactor	NT3	moata reactor	NT3	taiwan research reactor
NT3	hector reactor	NT3	mr reactor	NT3	tapiro reactor
NT3	herald reactor	NT3	mrr reactor	NT3	tca reactor
NT3	hero reactor	NT3	murr reactor	NT3	thetis reactor
NT3	hew-305 reactor	NT3	nbsr reactor	NT3	thor reactor
NT3	hfbr reactor	NT3	ncscr-1 reactor	NT3	tibr reactor
NT3	hfir reactor	NT3	nestor reactor	NT3	tory-2a reactor
NT3	hfr reactor	NT3	nhf-5 reactor	NT3	toshiba reactor
NT3	hifar reactor	NT3	nora reactor	NT3	tr-1 reactor
NT3	hor reactor	NT3	nru reactor	NT3	tr-2 reactor
NT3	horace reactor	NT3	nrx reactor	NT3	triga-1-michigan reactor
NT3	hprr reactor	NT3	nsrr reactor	NT3	triton reactor
NT3	hre-2 reactor	NT3	ntr reactor	NT3	trr-1 reactor
NT3	htlrr reactor	NT3	nur reactor	NT3	tsr-2 reactor
NT3	htr reactor	NT3	orphee reactor	NT3	ufr reactor
NT3	hwrr reactor	NT3	osiris reactor	NT3	uknr reactor
NT3	ian-r1 reactor	NT3	owr reactor	NT3	umne-1 reactor
NT3	ibr-2 reactor	NT3	parr-1 reactor	NT3	umrr reactor
NT3	ibr-30 reactor	NT3	pat reactor	NT3	utr-10-kinki reactor
NT3	iea-zpr reactor	NT3	pbr reactor	NT3	utr reactor
NT3	iear-1 reactor	NT3	petr reactor	NT3	uvar reactor

NT3	vera reactor	NT3	irt-baghdad reactor	NT3	melusine-1 reactor
NT3	viper reactor	NT3	ispra-1 reactor	NT3	merlin reactor
NT3	vpi-utr-10 reactor	NT3	jmtr reactor	NT3	mitr reactor
NT3	wrrr reactor	NT3	kalpakkam lmfbtr reactor	NT3	moata reactor
NT3	wsur reactor	NT3	loft reactor	NT3	murr reactor
NT3	wtr reactor	NT3	mzfr reactor	NT3	ncscr-1 reactor
NT3	wwr-2 reactor	NT3	netr reactor	NT3	nevada university reactor
NT3	wwr-k-almaty reactor	NT3	nru reactor	NT3	nscr reactor
NT3	wwr-m-kiev reactor	NT3	ntr reactor	NT3	ostr reactor
NT3	wwr-m-leningrad reactor	NT3	orphee reactor	NT3	osur reactor
NT3	wwr-s-bucharest reactor	NT3	owr reactor	NT3	prnc-1-77 reactor
NT3	wwr-s-cairo reactor	NT3	pat reactor	NT3	pstr reactor
NT3	wwr-s-moscow reactor	NT3	pegase reactor	NT3	pur-1 reactor
NT3	wwr-s-prague reactor	NT3	proteus reactor	NT3	queen mary college utr-b reactor
NT3	wwr-s-tashkent reactor	NT3	ra-3 reactor	NT3	r-b reactor
NT3	wwr-sm rossendorf reactor	NT3	ra-4 reactor	NT3	ra-1 reactor
NT3	wwr-z reactor	NT3	ra-5 reactor	NT3	rien-1 reactor
NT3	x-10 reactor	NT3	ra-6 reactor	NT3	rts-1 reactor
NT3	xapr reactor	NT3	ra-8 reactor	NT3	rv-1 reactor
NT3	zebra reactor	NT3	rapodie reactor	NT3	sr-3p reactor
NT3	zeep reactor	NT3	rts-1 reactor	NT3	src-utr-100 reactor
NT3	zenith reactor	NT3	slc prototype reactor	NT3	stark reactor
NT3	zerlina reactor	NT3	safari-1 reactor	NT3	strasbourg-cronenbourg reactor
NT3	zlfr reactor	NT3	sbr-5 reactor	NT3	sur-100 series reactor
NT3	zppr reactor	NT3	snaptran reactors	NT3	thetis reactor
NT2	super kukla reactor	NT3	stf reactor	NT3	thor reactor
NT2	test reactors	NT3	tapiro reactor	NT3	toshiba reactor
NT3	aipfr reactor	NT3	tory-2a reactor	NT3	tr-1 reactor
NT3	arbus reactor	NT3	tory-2c reactor	NT3	trico reactor
NT3	astr reactor	NT3	treat reactor	NT3	triga-1-michigan reactor
NT3	astra reactor	NT3	triga-1-michigan reactor	NT3	triga-2-pavia reactor
NT3	atpr reactor	NT3	triga-2-pavia reactor	NT3	trr-1 reactor
NT3	atr reactor	NT3	tsr-1 reactor	NT3	ucbrr reactor
NT3	barn reactor	NT3	tsr-2 reactor	NT3	ufr reactor
NT3	bawtr reactor	NT3	urr reactor	NT3	ulyse reactor
NT3	bgr reactor	NT3	uvar reactor	NT3	umne-1 reactor
NT3	borax-5 reactor	NT3	viper reactor	NT3	umrr reactor
NT3	br-02 reactor	NT3	wr-1 reactor	NT3	urr reactor
NT3	brr reactor	NT3	wtr reactor	NT3	utr-10-kinki reactor
NT3	cesnef reactor	NT2	training reactors	NT3	uvar reactor
NT3	cirus reactor	NT3	aerojet-general nucleonics reactors	NT3	uwnr reactor
NT3	cp-5 reactor	NT3	afri reactor	NT3	uwtr reactor
NT3	dhruva reactor	NT3	ai-1-77 reactor	NT3	vpi-utr-10 reactor
NT3	dimple reactor	NT3	akr-1 reactor	NT3	vr-1 reactor
NT3	diorit reactor	NT3	apsara reactor	NT3	wntr reactor
NT3	ebor reactor	NT3	arbi reactor	NT3	wpir reactor
NT3	ebr-1 reactor	NT3	argonaut reactor	NT3	wwr-s-budapest reactor
NT3	eco reactor	NT3	argos reactor	NT3	x-10 reactor
NT3	eocr reactor	NT3	athene reactor	NT3	zlfr reactor
NT3	esada-vesr reactor	NT3	atpr reactor	NT3	zpr reactor
NT3	essor reactor	NT3	bgr reactor	NT2	triga type reactors
NT3	etr reactor	NT3	budapest training reactor	NT3	afri reactor
NT3	etrc reactor	NT3	byu 1-77 reactor	NT3	atpr reactor
NT3	ffitf reactor	NT3	cesnef reactor	NT3	colorado triga-mk-3 reactor
NT3	fir-1 reactor	NT3	cirus reactor	NT3	cornell triga-mk-2 reactor
NT3	fimrb reactor	NT3	colorado triga-mk-3 reactor	NT3	dow triga-mk-1 reactor
NT3	fmr reactor	NT3	consort-2 reactor	NT3	fir-1 reactor
NT3	fr-2 reactor	NT3	cornell triga-mk-2 reactor	NT3	frf-2 reactor
NT3	frctf reactor	NT3	dow triga-mk-1 reactor	NT3	frn reactor
NT3	frg-1 reactor	NT3	dr-1 reactor	NT3	gulf triga-mk-3 reactor
NT3	frn reactor	NT3	es-salam reactor	NT3	kartini-ppny reactor
NT3	getr reactor	NT3	fir-1 reactor	NT3	lopra reactor
NT3	grenoble reactor	NT3	fmr reactor	NT3	nscr reactor
NT3	gtr reactor	NT3	fr-0 reactor	NT3	ostr reactor
NT3	gtrr reactor	NT3	frf reactor	NT3	prpr reactor
NT3	hanaro reactor	NT3	frg-1 reactor	NT3	pstr reactor
NT3	harmonie reactor	NT3	gleep reactor	NT3	rtp reactor
NT3	herald reactor	NT3	gtrr reactor	NT3	trico reactor
NT3	hero reactor	NT3	gulf triga-mk-3 reactor	NT3	triga-1-arizona reactor
NT3	hew-305 reactor	NT3	hor reactor	NT3	triga-1-california reactor
NT3	hfir reactor	NT3	htr reactor	NT3	triga-1-hanford reactor
NT3	hifar reactor	NT3	ian-r1 reactor	NT3	triga-1-hanover reactor
NT3	hre-2 reactor	NT3	iowa utr-10 reactor	NT3	triga-1-heidelberg reactor
NT3	hiltr reactor	NT3	ir-100 reactor	NT3	triga-1-michigan reactor
NT3	htr-10 reactor	NT3	jason reactor	NT3	triga-2-bandung reactor
NT3	irl reactor	NT3	jrr-1 reactor	NT3	triga-2-bangladesh reactor
NT3	irr-1 reactor	NT3	kur reactor	NT3	triga-2-dalat reactor
NT3	irt-2000 djakarta reactor	NT3	lfr reactor	NT3	triga-2-illinois reactor
NT3	irt-2000 moscow reactor			NT3	triga-2-kansas reactor

- NT3 triga-2-ljubljana reactor  
 NT3 triga-2-mainz reactor  
 NT3 triga-2-musashi reactor  
 NT3 triga-2-pavia reactor  
 NT3 triga-2-pitesti reactor  
 NT3 triga-2 reactor  
 NT3 triga-2-rikkyo reactor  
 NT3 triga-2-rome reactor  
 NT3 triga-2-seoul reactor  
 NT3 triga-2-vienna reactor  
 NT3 triga-3-la jolla reactor  
 NT3 triga-3-munich reactor  
 NT3 triga-3-salazar reactor  
 NT3 triga-3-seoul reactor  
 NT3 triga-brazil reactor  
 NT3 triga-texas reactor  
 NT3 triga-veterans reactor  
 NT3 ucbr reactor  
 NT3 uwnr reactor  
 NT3 wsur reactor  
 NT2 yayoi reactor  
 NT1 steam cooled reactors  
 NT1 tank type reactors  
 NT2 aarr reactor  
 NT2 alrr reactor  
 NT2 aquilon reactor  
 NT2 atr reactor  
 NT2 atsr reactor  
 NT2 borax-1 reactor  
 NT2 borax-2 reactor  
 NT2 borax-3 reactor  
 NT2 borax-4 reactor  
 NT2 borax-5 reactor  
 NT2 br-02 reactor  
 NT2 br-1 reactor  
 NT2 br-2 reactor  
 NT2 br-3-vn reactor  
 NT2 cirus reactor  
 NT2 cp-3 reactor  
 NT2 cp-3m reactor  
 NT2 cp-5 reactor  
 NT2 dca reactor  
 NT2 dido reactor  
 NT2 diorit reactor  
 NT2 dmtr reactor  
 NT2 dr-3 reactor  
 NT2 eco reactor  
 NT2 el-1 reactor  
 NT2 el-2 reactor  
 NT2 el-3 reactor  
 NT2 eocr reactor  
 NT2 eole reactor  
 NT2 esada-vesr reactor  
 NT2 essor reactor  
 NT2 etr reactor  
 NT2 etrr-1 reactor  
 NT2 ewa reactor  
 NT2 ewg-1 reactor  
 NT2 fir-1 reactor  
 NT2 fir-2 reactor  
 NT2 frj-2 reactor  
 NT2 getr reactor  
 NT2 grenoble reactor  
 NT2 gtrr reactor  
 NT2 hbwr reactor  
 NT2 hfb reactor  
 NT2 hfir reactor  
 NT2 hfi reactor  
 NT2 hifar reactor  
 NT2 hwctr reactor  
 NT2 igr reactor  
 NT2 irr-2 reactor  
 NT2 ispra-1 reactor  
 NT2 janus reactor  
 NT2 jeep-2 reactor  
 NT2 jmtr reactor  
 NT2 jrr-2 reactor  
 NT2 jrr-3 reactor  
 NT2 juno reactor  
 NT2 kamini reactor  
 NT2 litr reactor  
 NT2 loft reactor  
 NT2 lprr reactor  
 NT2 mir reactor  
 NT2 mitr reactor  
 NT2 mnsr type reactors  
 NT3 gharr-1 reactor  
 NT3 mnsr-ciae reactor  
 NT3 mnsr-sd reactor  
 NT3 mnsr-sh reactor  
 NT3 mnsr-sz reactor  
 NT3 niir-1 reactor  
 NT3 parr-2 reactor  
 NT3 srr-1 reactor  
 NT2 mrr reactor  
 NT2 mtr reactor  
 NT2 murr reactor  
 NT2 nbsr reactor  
 NT2 netr reactor  
 NT2 nora reactor  
 NT2 nru reactor  
 NT2 nrx reactor  
 NT2 ntr reactor  
 NT2 nuclear furnace reactor  
 NT2 orphee reactor  
 NT2 orr reactor  
 NT2 osiris reactor  
 NT2 owr reactor  
 NT2 pbf reactor  
 NT2 pbr reactor  
 NT2 pegase reactor  
 NT2 pelinduna reactor  
 NT2 pik reactor  
 NT2 pluto reactor  
 NT2 prcf reactor  
 NT2 prr reactor  
 NT2 pse reactor  
 NT2 pumima-3 reactor  
 NT2 r-1 reactor  
 NT2 r-2 reactor  
 NT2 r-a reactor  
 NT2 ra-0 reactor  
 NT2 ra-2 reactor  
 NT2 ra-3 reactor  
 NT2 ra-4 reactor  
 NT2 ra-5 reactor  
 NT2 rake-2 reactor  
 NT2 rb-3 reactor  
 NT2 rospo reactor  
 NT2 rpt reactor  
 NT2 safari-1 reactor  
 NT2 sm-2 reactor  
 NT2 spert-1 reactor  
 NT2 spert-2 reactor  
 NT2 spert-3 reactor  
 NT2 sr-1 reactor  
 NT2 sr-0a reactor  
 NT2 taiwan research reactor  
 NT2 tca reactor  
 NT2 thermos reactor  
 NT2 triga-1-michigan reactor  
 NT2 tsr-1 reactor  
 NT2 venus reactor  
 NT2 wntr reactor  
 NT2 wr-1 reactor  
 NT2 wtr reactor  
 NT2 wwr type reactors  
 NT3 budapest training reactor  
 NT3 irt-1 libya reactor  
 NT3 irt-baghdad reactor  
 NT3 lvr-15 reactor  
 NT3 wwr-2 reactor  
 NT3 wwr-k-almaty reactor  
 NT3 wwr-m-kiev reactor  
 NT3 wwr-m-leningrad reactor  
 NT3 wwr-s-bucharest reactor  
 NT3 wwr-s-budapest reactor  
 NT3 wwr-s-cairo reactor  
 NT3 wwr-s-moscow reactor  
 NT3 wwr-s-prague reactor  
 NT3 wwr-s-tashkent reactor  
 NT3 wwr-sm rossendorf reactor  
 NT3 wwr-z reactor  
 NT2 zed-2 reactor  
 NT2 zeep reactor  
 NT2 zlfr reactor  
 NT2 zpr reactor  
 NT1 thermal reactors  
 NT2 aeg-pr-10 reactor  
 NT2 aerogjet-general nucleonics reactors  
 NT2 afri reactor  
 NT2 agesta reactor  
 NT2 ai-l-77 reactor  
 NT2 akr-1 reactor  
 NT2 alrr reactor  
 NT2 anex reactor  
 NT2 anna reactor  
 NT2 aps reactor  
 NT2 apsara reactor  
 NT2 aquilon reactor  
 NT2 arbi reactor  
 NT2 arbus reactor  
 NT2 argonaut reactor  
 NT2 argos reactor  
 NT2 argus reactor  
 NT2 armf-1 reactor  
 NT2 astra reactor  
 NT2 athene reactor  
 NT2 atrp reactor  
 NT2 atr reactor  
 NT2 atrc reactor  
 NT2 atrs reactor  
 NT2 atucha-2 reactor  
 NT2 atucha reactor  
 NT2 avogadro rs-1 reactor  
 NT2 avr reactor  
 NT2 bawtr reactor  
 NT2 beloyarsk-1 reactor  
 NT2 beloyarsk-2 reactor  
 NT2 bepo reactor  
 NT2 ber-2 reactor  
 NT2 berkeley reactor  
 NT2 bgrr reactor  
 NT2 bilibin reactor  
 NT2 bohunice a-1 reactor  
 NT2 bohunice a-2 reactor  
 NT2 borax-1 reactor  
 NT2 borax-2 reactor  
 NT2 borax-3 reactor  
 NT2 borax-4 reactor  
 NT2 borax-5 reactor  
 NT2 br-02 reactor  
 NT2 br-1 reactor  
 NT2 br-2 reactor  
 NT2 bradwell reactor  
 NT2 brr reactor  
 NT2 bsr-1 reactor  
 NT2 bsr-2 reactor  
 NT2 budapest training reactor  
 NT2 bugey-1 reactor  
 NT2 bwr type reactors  
 NT3 allens creek-1 reactor  
 NT3 allens creek-2 reactor  
 NT3 bailly-1 reactor  
 NT3 barsebaeck-1 reactor  
 NT3 barsebaeck-2 reactor  
 NT3 barton-1 reactor  
 NT3 barton-2 reactor  
 NT3 barton-3 reactor  
 NT3 barton-4 reactor  
 NT3 bell reactor  
 NT3 big rock point reactor  
 NT3 black fox-1 reactor  
 NT3 black fox-2 reactor  
 NT3 bolsa chica-1 reactor  
 NT3 bolsa chica-2 reactor  
 NT3 bonus reactor

NT3	browns ferry-1 reactor	NT3	iacbwr reactor	NT3	bruce-7 reactor
NT3	browns ferry-2 reactor	NT3	laguna verde-1 reactor	NT3	bruce-8 reactor
NT3	browns ferry-3 reactor	NT3	laguna verde-2 reactor	NT3	cernavoda-1 reactor
NT3	brunsbuettel reactor	NT3	leibstadt reactor	NT3	cordoba reactor
NT3	brunswick-1 reactor	NT3	limerick-1 reactor	NT3	darlington-1 reactor
NT3	brunswick-2 reactor	NT3	limerick-2 reactor	NT3	darlington-2 reactor
NT3	chinshan-1 reactor	NT3	lingen reactor	NT3	darlington-3 reactor
NT3	chinshan-2 reactor	NT3	mendocino-1 reactor	NT3	darlington-4 reactor
NT3	clinton-1 reactor	NT3	mendocino-2 reactor	NT3	douglas point ontario reactor
NT3	clinton-2 reactor	NT3	millstone-1 reactor	NT3	embalse reactor
NT3	cofrentes reactor	NT3	montague-1 reactor	NT3	gentilly-2 reactor
NT3	cooper reactor	NT3	montague-2 reactor	NT3	gentilly reactor
NT3	dodewaard reactor	NT3	montalto di castro-1 reactor	NT3	kaiga-1 reactor
NT3	douglas point-1 reactor	NT3	montalto di castro-2 reactor	NT3	kaiga-2 reactor
NT3	douglas point-2 reactor	NT3	monticello reactor	NT3	kakrapar-1 reactor
NT3	dresden-1 reactor	NT3	muehleberg reactor	NT3	kakrapar-2 reactor
NT3	dresden-2 reactor	NT3	nine mile point-1 reactor	NT3	kanupp reactor
NT3	dresden-3 reactor	NT3	nine mile point-2 reactor	NT3	npd reactor
NT3	duane arnold-1 reactor	NT3	okg-1 reactor	NT3	pickering-1 reactor
NT3	ebwr reactor	NT3	okg-2 reactor	NT3	pickering-2 reactor
NT3	enel-4 reactor	NT3	okg-3 reactor	NT3	pickering-3 reactor
NT3	enrico fermi-2 reactor	NT3	olkiluoto-1 reactor	NT3	pickering-4 reactor
NT3	err reactor	NT3	olkiluoto-2 reactor	NT3	pickering-5 reactor
NT3	fitzpatrick reactor	NT3	onagawa-1 reactor	NT3	pickering-6 reactor
NT3	forsmark-1 reactor	NT3	onagawa-2 reactor	NT3	pickering-7 reactor
NT3	forsmark-2 reactor	NT3	onagawa-3 reactor	NT3	pickering-8 reactor
NT3	forsmark-3 reactor	NT3	oyster creek-1 reactor	NT3	point lepreau-1 reactor
NT3	fukushima-1 reactor	NT3	pathfinder reactor	NT3	point lepreau-2 reactor
NT3	fukushima-2 reactor	NT3	peach bottom-2 reactor	NT3	qinshan-3-1 reactor
NT3	fukushima-3 reactor	NT3	peach bottom-3 reactor	NT3	qinshan-3-2 reactor
NT3	fukushima-4 reactor	NT3	perry-1 reactor	NT3	rajasthan-1 reactor
NT3	fukushima-5 reactor	NT3	perry-2 reactor	NT3	rajasthan-2 reactor
NT3	fukushima-6 reactor	NT3	philippsburg-1 reactor	NT3	rajasthan-3 reactor
NT3	fukushima-ii-1 reactor	NT3	phipps bend-1 reactor	NT3	rajasthan-4 reactor
NT3	fukushima-ii-2 reactor	NT3	phipps bend-2 reactor	NT3	wolsung-1 reactor
NT3	fukushima-ii-3 reactor	NT3	pilgrim-1 reactor	NT3	wolsung-2 reactor
NT3	fukushima-ii-4 reactor	NT3	quad cities-1 reactor	NT3	wolsung-3 reactor
NT3	garigliano reactor	NT3	quad cities-2 reactor	NT3	wolsung-4 reactor
NT3	garona reactor	NT3	ringhals-1 reactor	NT2	cesar reactor
NT3	ge standard reactor	NT3	river bend-1 reactor	NT2	cesnef reactor
NT3	graben-1 reactor	NT3	river bend-2 reactor	NT2	chapelcross-1 reactor
NT3	graben-2 reactor	NT3	rwe-bayernwerk reactor	NT2	chapelcross-2 reactor
NT3	grand gulf-1 reactor	NT3	shika-1 reactor	NT2	chapelcross-3 reactor
NT3	grand gulf-2 reactor	NT3	shimane-1 reactor	NT2	chapelcross-4 reactor
NT3	gundremmingen-2 reactor	NT3	shimane-2 reactor	NT2	chernobylsk-1 reactor
NT3	gundremmingen-3 reactor	NT3	shoreham reactor	NT2	chernobylsk-2 reactor
NT3	hamaoka-1 reactor	NT3	skagit-1 reactor	NT2	chernobylsk-3 reactor
NT3	hamaoka-2 reactor	NT3	skagit-2 reactor	NT2	chernobylsk-4 reactor
NT3	hamaoka-3 reactor	NT3	sl-1 reactor	NT2	chinon-1 reactor
NT3	hamaoka-4 reactor	NT3	susquehanna-1 reactor	NT2	chinon-2 reactor
NT3	hamaoka-5 reactor	NT3	susquehanna-2 reactor	NT2	chinon-3 reactor
NT3	hartsville-1 reactor	NT3	tarapur-1 reactor	NT2	cirene reactor
NT3	hartsville-2 reactor	NT3	tarapur-2 reactor	NT2	cirus reactor
NT3	hartsville-3 reactor	NT3	tokai-2 reactor	NT2	consort-2 reactor
NT3	hartsville-4 reactor	NT3	tsuruga reactor	NT2	cp-2 reactor
NT3	hatch-1 reactor	NT3	tullnerfeld reactor	NT2	cp-3 reactor
NT3	hatch-2 reactor	NT3	vak reactor	NT2	cp-3m reactor
NT3	hdr reactor	NT3	vbwr reactor	NT2	cp-5 reactor
NT3	hope creek-1 reactor	NT3	vermont yankee reactor	NT2	cvtr reactor
NT4	newbold island-1 reactor	NT3	verplanck-1 reactor	NT2	democritus reactor
NT3	hope creek-2 reactor	NT3	verplanck-2 reactor	NT2	dhruva reactor
NT4	newbold island-2 reactor	NT3	vk-50 reactor	NT2	dido reactor
NT3	humboldt bay reactor	NT3	wnp-2 reactor	NT2	dimple reactor
NT3	isar reactor	NT3	wuergassen reactor	NT2	dmtr reactor
NT3	jpdr-2 reactor	NT3	zimmer-1 reactor	NT2	dow triga-mk-1 reactor
NT3	jpdr reactor	NT3	zimmer-2 reactor	NT2	dr-1 reactor
NT3	kaiseraugst reactor	NT2	byu l-77 reactor	NT2	dr-2 reactor
NT3	kashiwazaki-kariwa-1 reactor	NT2	cabri reactor	NT2	dr-3 reactor
NT3	kashiwazaki-kariwa-2 reactor	NT2	calder hall a-1 reactor	NT2	dragon reactor
NT3	kashiwazaki-kariwa-3 reactor	NT2	calder hall a-2 reactor	NT2	dungeness-a reactor
NT3	kashiwazaki-kariwa-4 reactor	NT2	calder hall b-3 reactor	NT2	dungeness-b reactor
NT3	kashiwazaki-kariwa-5 reactor	NT2	calder hall b-4 reactor	NT2	ebor reactor
NT3	kashiwazaki-kariwa-6 reactor	NT2	candu type reactors	NT2	eger reactor
NT3	kashiwazaki-kariwa-7 reactor	NT3	bruce-1 reactor	NT2	el-1 reactor
NT3	kruemmel reactor	NT3	bruce-2 reactor	NT2	el-2 reactor
NT3	kuosheng-1 reactor	NT3	bruce-3 reactor	NT2	el-4 reactor
NT3	kuosheng-2 reactor	NT3	bruce-4 reactor	NT2	eocr reactor
NT3	la salle county-1 reactor	NT3	bruce-5 reactor	NT2	es-salam reactor
NT3	la salle county-2 reactor	NT3	bruce-6 reactor	NT2	esada-vesr reactor

NT2	essor reactor	NT2	lfr reactor	NT3	beaver valley-2 reactor
NT2	etr reactor	NT2	lido reactor	NT3	bellefonte-1 reactor
NT2	etrc reactor	NT2	litr reactor	NT3	bellefonte-2 reactor
NT2	etrr-2 reactor	NT2	lpr reactor	NT3	belleville sur loire-1 reactor
NT2	ewg-1 reactor	NT2	lprr reactor	NT3	belleville sur loire-2 reactor
NT2	fir-1 reactor	NT2	lucens reactor	NT3	beznau-1 reactor
NT2	fnr reactor	NT2	lvr-15 reactor	NT3	beznau-2 reactor
NT2	fr-2 reactor	NT2	lwbr type reactors	NT3	biblis-1 reactor
NT2	frg-1 reactor	NT2	maria reactor	NT3	biblis-2 reactor
NT2	frm-ii reactor	NT2	marius reactor	NT3	biblis-3 reactor
NT2	fulton-1 reactor	NT2	melusine-1 reactor	NT3	biblis-4 reactor
NT2	fulton-2 reactor	NT2	merlin reactor	NT3	blayais-1 reactor
NT2	g-1 reactor	NT2	minerve reactor	NT3	blue hills-1 reactor
NT2	g-2 reactor	NT2	mir reactor	NT3	blue hills-2 reactor
NT2	g-3 reactor	NT2	mitr reactor	NT3	borssele reactor
NT2	ga siwabessy reactor	NT2	mnsr type reactors	NT3	br-3 reactor
NT2	ga standard reactor	NT3	gharr-1 reactor	NT3	braidwood-1 reactor
NT2	getr reactor	NT3	mnsr-ciae reactor	NT3	braidwood-2 reactor
NT2	gidra reactor	NT3	mnsr-sd reactor	NT3	brokdorf reactor
NT2	gleep reactor	NT3	mnsr-sh reactor	NT3	bugey-2 reactor
NT2	hartlepool reactor	NT3	mnsr-sz reactor	NT3	bugey-3 reactor
NT2	hbwr reactor	NT3	nirr-1 reactor	NT3	bugey-4 reactor
NT2	hector reactor	NT3	parr-2 reactor	NT3	bugey-5 reactor
NT2	herald reactor	NT3	srr-1 reactor	NT3	bw standard reactor
NT2	hew-305 reactor	NT2	mrr reactor	NT3	byron-1 reactor
NT2	heysham-a reactor	NT2	msre reactor	NT3	byron-2 reactor
NT2	heysham-b reactor	NT2	mtr reactor	NT3	calhoun-1 reactor
NT2	hfbr reactor	NT2	mzfr reactor	NT3	calhoun-2 reactor
NT2	hfetr reactor	NT2	nbsr reactor	NT3	callaway-1 reactor
NT2	hfir reactor	NT2	nescr-1 reactor	NT3	callaway-2 reactor
NT2	hfr reactor	NT2	nestor reactor	NT3	calvert cliffs-1 reactor
NT2	hifar reactor	NT2	netr reactor	NT3	calvert cliffs-2 reactor
NT2	hinkley point-a reactor	NT2	nevada university reactor	NT3	catawba-1 reactor
NT2	hinkley point-b reactor	NT2	nhr-5 reactor	NT3	catawba-2 reactor
NT2	hitrex-1 reactor	NT2	niederaichbach reactor	NT3	cattenom-1 reactor
NT2	hnpf reactor	NT2	nora reactor	NT3	cattenom-2 reactor
NT2	hor reactor	NT2	nrx reactor	NT3	cattenom-3 reactor
NT2	htr reactor	NT2	ntr reactor	NT3	cattenom-4 reactor
NT2	hunterston-a reactor	NT2	nur reactor	NT3	ce standard reactor
NT2	hunterston-b reactor	NT2	oldbury-a reactor	NT3	cherokee-1 reactor
NT2	hwctr reactor	NT2	oldbury-b reactor	NT3	cherokee-2 reactor
NT2	hwzpr reactor	NT2	opal reactor	NT3	cherokee-3 reactor
NT2	ian-r1 reactor	NT2	osiris reactor	NT3	chinon-b1 reactor
NT2	iear-1 reactor	NT2	owr reactor	NT3	civaux-1 reactor
NT2	ignalina-1 reactor	NT2	ptr reactor	NT3	civaux-2 reactor
NT2	ignalina-2 reactor	NT2	peach bottom-1 reactor	NT3	comanche peak-1 reactor
NT2	igr reactor	NT2	pegase reactor	NT3	comanche peak-2 reactor
NT2	irl reactor	NT2	pelinduna reactor	NT3	connecticut yankee reactor
NT2	irr-1 reactor	NT2	perryman-1 reactor	NT3	cook-1 reactor
NT2	irt-1 libya reactor	NT2	perryman-2 reactor	NT3	cook-2 reactor
NT2	irt-2000 djakarta reactor	NT2	phebus reactor	NT3	cruas-2 reactor
NT2	irt-2000 moscow reactor	NT2	pik physical model reactor	NT3	cruas-3 reactor
NT2	irt-baghdad reactor	NT2	pik reactor	NT3	cruas-4 reactor
NT2	irt-c reactor	NT2	pluto reactor	NT3	crystal river-3 reactor
NT2	irt-f reactor	NT2	pnpf reactor	NT3	crystal river-4 reactor
NT2	irt reactor	NT2	prr reactor	NT3	dampierre-1 reactor
NT2	irt-sofia reactor	NT2	pse reactor	NT3	dampierre-2 reactor
NT2	isis reactor	NT2	pstr reactor	NT3	dampierre-3 reactor
NT2	ivv-2m reactor	NT2	pur-1 reactor	NT3	dampierre-4 reactor
NT2	janus reactor	NT2	purnima-3 reactor	NT3	davis besse-1 reactor
NT2	jatr reactor	NT2	pwr type reactors	NT3	davis besse-2 reactor
NT2	jen-1 reactor	NT3	aguirre reactor	NT3	davis besse-3 reactor
NT2	jen reactor	NT3	almaraz-1 reactor	NT3	daya bay-1 reactor
NT2	jules horowitz reactor	NT3	almaraz-2 reactor	NT3	daya bay-2 reactor
NT2	juno reactor	NT3	angra-1 reactor	NT3	diablo canyon-1 reactor
NT2	kaiga-3 reactor	NT3	angra-2 reactor	NT3	diablo canyon-2 reactor
NT2	kaiga-4 reactor	NT3	angra-3 reactor	NT3	doel-1 reactor
NT2	kamini reactor	NT3	ardennes b-1 reactor	NT3	doel-2 reactor
NT2	knk reactor	NT3	ardennes b-2 reactor	NT3	doel-3 reactor
NT2	kuhfr reactor	NT3	ardennes reactor	NT3	doel-4 reactor
NT2	kursk-1 reactor	NT3	arkansas-1 reactor	NT3	efdr-50 reactor
NT2	kursk-2 reactor	NT3	arkansas-2 reactor	NT3	ensland reactor
NT2	kursk-3 reactor	NT3	asco-1 reactor	NT3	erie-1 reactor
NT2	kursk-4 reactor	NT3	asco-2 reactor	NT3	erie-2 reactor
NT2	latina reactor	NT3	atlantic-1 reactor	NT3	farley-1 reactor
NT2	leningrad-1 reactor	NT3	atlantic-2 reactor	NT3	farley-2 reactor
NT2	leningrad-2 reactor	NT3	basf-1 reactor	NT3	fessenheim-1 reactor
NT2	leningrad-3 reactor	NT3	basf-2 reactor	NT3	flamanville-1 reactor
NT2	leningrad-4 reactor	NT3	beaver valley-1 reactor	NT3	flamanville-2 reactor

NT3	forked river-1 reactor	NT3	neupotz-2 reactor	NT3	sizewell-b reactor
NT3	genkai-1 reactor	NT3	nogent sur seine-1 reactor	NT3	sm-1 reactor
NT3	genkai-2 reactor	NT3	nogent sur seine-2 reactor	NT3	sm-1a reactor
NT3	genkai-3 reactor	NT3	north anna-1 reactor	NT3	south texas project-1 reactor
NT3	genkai-4 reactor	NT3	north anna-2 reactor	NT3	south texas project-2 reactor
NT3	ginna-1 reactor	NT3	north anna-3 reactor	NT3	stade reactor
NT3	goesgen reactor	NT3	north anna-4 reactor	NT3	sterling-1 reactor
NT3	golfech-1 reactor	NT3	north coast-1 reactor	NT3	sterling-2 reactor
NT3	golfech-2 reactor	NT3	obrigheim reactor	NT3	summer-1 reactor
NT3	grafenrheinfeld reactor	NT3	oconee-1 reactor	NT3	sundesert-1 reactor
NT3	gravelines-1 reactor	NT3	oconee-2 reactor	NT3	sundesert-2 reactor
NT3	gravelines-2 reactor	NT3	oconee-3 reactor	NT3	surry-1 reactor
NT3	gravelines-3 reactor	NT3	oi-1 reactor	NT3	surry-2 reactor
NT3	gravelines-4 reactor	NT3	oi-2 reactor	NT3	surry-3 reactor
NT3	gravelines-5 reactor	NT3	oi-3 reactor	NT3	surry-4 reactor
NT3	gravelines-6 reactor	NT3	oi-4 reactor	NT3	takahama-1 reactor
NT3	greene county reactor	NT3	oktemberyan-2 reactor	NT3	takahama-2 reactor
NT3	greenwood-2 reactor	NT3	olkiluoto-3 reactor	NT3	takahama-3 reactor
NT3	greenwood-3 reactor	NT3	otto hahn reactor	NT3	takahama-4 reactor
NT3	grohnde reactor	NT3	palisades-1 reactor	NT3	three mile island-1 reactor
NT3	hamm-uentrop reactor	NT3	palo verde-1 reactor	NT3	three mile island-2 reactor
NT3	harris-1 reactor	NT3	palo verde-2 reactor	NT3	tihange-2 reactor
NT3	harris-2 reactor	NT3	palo verde-3 reactor	NT3	tihange-3 reactor
NT3	harris-3 reactor	NT3	palo verde-4 reactor	NT3	tihange reactor
NT3	harris-4 reactor	NT3	palo verde-5 reactor	NT3	tomari-1 reactor
NT3	haven-1 reactor	NT3	paluel-1 reactor	NT3	tomari-2 reactor
NT4	koshkonong-1 reactor	NT3	paluel-2 reactor	NT3	tricastin-1 reactor
NT3	haven-2 reactor	NT3	paluel-3 reactor	NT3	tricastin-4 reactor
NT4	koshkonong-2 reactor	NT3	paluel-4 reactor	NT3	trillo-1 reactor
NT3	ikata-2 reactor	NT3	pat reactor	NT3	trojan reactor
NT3	ikata-3 reactor	NT3	pebble springs-1 reactor	NT3	tsuruga-2 reactor
NT3	ikata reactor	NT3	pebble springs-2 reactor	NT3	turkey point-3 reactor
NT3	indian point-1 reactor	NT3	penly-1 reactor	NT3	turkey point-4 reactor
NT3	indian point-2 reactor	NT3	perkins-1 reactor	NT3	tva-1 reactor
NT3	indian point-3 reactor	NT3	perkins-2 reactor	NT3	tva-2 reactor
NT3	iran-1 reactor	NT3	perkins-3 reactor	NT3	tyrone-1 reactor
NT3	iran-2 reactor	NT3	philippsburg-2 reactor	NT3	tyrone-2 reactor
NT3	isar-2 reactor	NT3	pilgrim-2 reactor	NT3	ulchin-1 reactor
NT3	jamesport-1 reactor	NT3	pilgrim-3 reactor	NT3	ulchin-2 reactor
NT3	jamesport-2 reactor	NT3	pm-2a reactor	NT3	ulchin-3 reactor
NT3	kewaunee reactor	NT3	pm-3a reactor	NT3	ulchin-4 reactor
NT3	koeberg-1 reactor	NT3	pnp-1 reactor	NT3	unterweser reactor
NT3	koeberg-2 reactor	NT3	point beach-1 reactor	NT3	vahnum-1 reactor
NT3	kori-1 reactor	NT3	point beach-2 reactor	NT3	vahnum-2 reactor
NT3	kori-2 reactor	NT3	prairie island-1 reactor	NT3	vandellos-2 reactor
NT3	kori-3 reactor	NT3	prairie island-2 reactor	NT3	vogtle-1 reactor
NT3	kori-4 reactor	NT3	qinshan-1 reactor	NT3	vogtle-2 reactor
NT3	krsko reactor	NT3	qinshan-2-1 reactor	NT3	vogtle-3 reactor
NT3	lemoniz-1 reactor	NT3	qinshan-2-2 reactor	NT3	vogtle-4 reactor
NT3	lemoniz-2 reactor	NT3	quancassee-1 reactor	NT3	waterford-3 reactor
NT3	lenin reactor	NT3	quancassee-2 reactor	NT3	waterford-4 reactor
NT3	leonid brezhnev reactor	NT3	rancho seco-1 reactor	NT3	watts bar-1 reactor
NT3	lingao-1 reactor	NT3	remerschen reactor	NT3	watts bar-2 reactor
NT3	lingao-2 reactor	NT3	rheinsberg akw1 reactor	NT3	westinghouse standard reactor
NT3	loft reactor	NT3	ringhals-2 reactor	NT3	wnp-1 reactor
NT3	lucie-1 reactor	NT3	ringhals-3 reactor	NT3	wnp-3 reactor
NT3	lucie-2 reactor	NT3	ringhals-4 reactor	NT3	wnp-4 reactor
NT3	maanshan-1 reactor	NT3	robinson-2 reactor	NT3	wnp-5 reactor
NT3	maine yankee reactor	NT3	rooppur reactor	NT3	wolf creek-1 reactor
NT3	malibu-1 reactor	NT3	rowe yankee reactor	NT3	wup-3 reactor
NT3	marble hill-1 reactor	NT3	slc prototype reactor	NT3	wup-4 reactor
NT3	marble hill-2 reactor	NT3	saint alban-1 reactor	NT3	wup-5 reactor
NT3	mc guire-1 reactor	NT3	saint alban-2 reactor	NT3	wup-6 reactor
NT3	mc guire-2 reactor	NT3	saint laurent-b1 reactor	NT3	wwer type reactors
NT3	mh-1a reactor	NT3	salem-1 reactor	NT4	armenian-1 reactor
NT3	midland-1 reactor	NT3	salem-2 reactor	NT4	armenian-2 reactor
NT3	midland-2 reactor	NT3	san onofre-1 reactor	NT4	balakovo-1 reactor
NT3	mihama-1 reactor	NT3	san onofre-2 reactor	NT4	balakovo-2 reactor
NT3	mihama-2 reactor	NT3	san onofre-3 reactor	NT4	balakovo-3 reactor
NT3	mihama-3 reactor	NT3	savannah reactor	NT4	balakovo-4 reactor
NT3	millstone-2 reactor	NT3	saxton reactor	NT4	blahutovice-1 reactor
NT3	millstone-3 reactor	NT3	seabrook-1 reactor	NT4	bohunice v-1 reactor
NT3	muelheim-kaerlich reactor	NT3	seabrook-2 reactor	NT4	bohunice v-2 reactor
NT3	mutsu reactor	NT3	selni reactor	NT4	dukovany-1 reactor
NT3	nekar-1 reactor	NT3	sendai-1 reactor	NT4	dukovany-2 reactor
NT3	nekar-2 reactor	NT3	sendai-2 reactor	NT4	dukovany-3 reactor
NT3	nep-1 reactor	NT3	sequoyah-1 reactor	NT4	dukovany-4 reactor
NT3	nep-2 reactor	NT3	sequoyah-2 reactor	NT4	greifswald-1 reactor
NT3	neupotz-1 reactor	NT3	shippingport reactor	NT4	greifswald-2 reactor

NT4	greifswald-3 reactor	NT2	saphir reactor	NT2	uvar reactor
NT4	greifswald-4 reactor	NT2	scarabee reactor	NT2	uwnr reactor
NT4	greifswald-5 reactor	NT2	shgwr reactor	NT2	uwtr reactor
NT4	greifswald-6 reactor	NT2	shca reactor	NT2	vandellos reactor
NT4	juragua-1 reactor	NT2	siloe reactor	NT2	venus reactor
NT4	kalinin-1 reactor	NT2	silhouette reactor	NT2	vg-400 reactor
NT4	kalinin-3 reactor	NT2	sizewell-a reactor	NT2	vgr-50 reactor
NT4	kecerovce-1 reactor	NT2	sm-2 reactor	NT2	vhtr reactor
NT4	khmel'nitskij-1 reactor	NT2	smolensk-1 reactor	NT2	vidal-1 reactor
NT4	kola-1 reactor	NT2	smolensk-2 reactor	NT2	vidal-2 reactor
NT4	kola-2 reactor	NT2	smolensk-3 reactor	NT2	voronezh ast-500 reactor
NT4	kola-3 reactor	NT2	spert-1 reactor	NT2	vpi-utr-10 reactor
NT4	kola-4 reactor	NT2	spert-2 reactor	NT2	vr-1 reactor
NT4	kozloduy-1 reactor	NT2	spert-3 reactor	NT2	wagr reactor
NT4	kozloduy-2 reactor	NT2	spert-4 reactor	NT2	windscale production reactors
NT4	kozloduy-3 reactor	NT2	spr-2 reactor	NT2	wpir reactor
NT4	kozloduy-4 reactor	NT2	sr-1 reactor	NT2	wr-1 reactor
NT4	kozloduy-5 reactor	NT2	sr-305 reactor	NT2	wrrr reactor
NT4	kozloduy-6 reactor	NT2	sr-3p reactor	NT2	wsur reactor
NT4	kudankulam-1 reactor	NT2	sre reactor	NT2	wtr reactor
NT4	kudankulam-2 reactor	NT2	src-utr-100 reactor	NT2	wwr-2 reactor
NT4	loviisa-1 reactor	NT2	stark reactor	NT2	wwr-k-almaty reactor
NT4	loviisa-2 reactor	NT2	stek reactor	NT2	wwr-m-kiiev reactor
NT4	mochovce-1 reactor	NT2	stir reactor	NT2	wwr-m-leningrad reactor
NT4	mochovce-2 reactor	NT2	supo reactor	NT2	wwr-s-bucharest reactor
NT4	novovoronezh-1 reactor	NT2	sur-100 series reactor	NT2	wwr-s-budapest reactor
NT4	novovoronezh-2 reactor	NT2	taiwan research reactor	NT2	wwr-s-cairo reactor
NT4	novovoronezh-3 reactor	NT2	tarapur-3 reactor	NT2	wwr-s-moscow reactor
NT4	novovoronezh-4 reactor	NT2	tarapur-4 reactor	NT2	wwr-s-prague reactor
NT4	novovoronezh-5 reactor	NT2	thermos reactor	NT2	wwr-s-tashkent reactor
NT4	paks-1 reactor	NT2	thetis reactor	NT2	wwr-sm rossendorf reactor
NT4	paks-2 reactor	NT2	thtr-300 reactor	NT2	wwr-z reactor
NT4	paks-3 reactor	NT2	tokai-mura reactor	NT2	wylfa reactor
NT4	paks-4 reactor	NT2	torness reactor	NT2	x-10 reactor
NT4	rovno-1 reactor	NT2	toshiba reactor	NT2	zed-2 reactor
NT4	rovno-2 reactor	NT2	tr-1 reactor	NT2	zenith reactor
NT4	rovno-3 reactor	NT2	tr-2 reactor	NT2	zerlina reactor
NT4	rovno-4 reactor	NT2	trawsfynydd reactor	NT2	zlf reactor
NT4	rovno-5 reactor	NT2	treat reactor	NT2	zpr reactor
NT4	south ukrainian-1 reactor	NT2	trico reactor	NT1	thorium reactors
NT4	south ukrainian-2 reactor	NT2	triga-1-california reactor	NT2	avr reactor
NT4	south ukrainian-3 reactor	NT2	triga-1-hanover reactor	NT2	borax-4 reactor
NT4	stendal-1 reactor	NT2	triga-1-heidelberg reactor	NT2	dragon reactor
NT4	tatarian reactor	NT2	triga-1-michigan reactor	NT2	err reactor
NT4	temelin-1 reactor	NT2	triga-2-bandung reactor	NT2	sre reactor
NT4	temelin-2 reactor	NT2	triga-2-bangladesh reactor	NT2	thtr-300 reactor
NT4	tianwan-1 reactor	NT2	triga-2-dalat reactor	NT1	transportable reactors
NT4	zaporozhe-1 reactor	NT2	triga-2-illinois reactor	NT2	package reactors
NT4	zaporozhe-2 reactor	NT2	triga-2-kansas reactor	NT2	tibr reactor
NT4	zaporozhe-3 reactor	NT2	triga-2-ljubljana reactor	NT1	water cooled reactors
NT4	zaporozhe-4 reactor	NT2	triga-2-mainz reactor	NT2	aarr reactor
NT4	zaporozhe-5 reactor	NT2	triga-2-musashi reactor	NT2	acpr reactor
NT4	zaporozhe-6 reactor	NT2	triga-2-pavia reactor	NT2	anna reactor
NT3	wyhl-1 reactor	NT2	triga-2-pitesti reactor	NT2	aqueous homogeneous reactors
NT3	wyhl-2 reactor	NT2	triga-2 reactor	NT3	ai-1-77 reactor
NT3	yellow creek-1 reactor	NT2	triga-2-rikkyo reactor	NT3	argus reactor
NT3	yellow creek-2 reactor	NT2	triga-2-rome reactor	NT3	ber-2 reactor
NT3	yonggwang-1 reactor	NT2	triga-2-seoul reactor	NT3	byu 1-77 reactor
NT3	yonggwang-2 reactor	NT2	triga-2-vienna reactor	NT3	cesnef reactor
NT3	yonggwang-3 reactor	NT2	triga-3-munich reactor	NT3	dr-1 reactor
NT3	yonggwang-4 reactor	NT2	triga-3-salazar reactor	NT3	frf reactor
NT3	zion-1 reactor	NT2	triga-3-seoul reactor	NT3	gidra reactor
NT3	zion-2 reactor	NT2	triga-brazil reactor	NT3	hre-2 reactor
NT3	zorita-1 reactor	NT2	triga-texas reactor	NT3	jrr-1 reactor
NT2	r-1 reactor	NT2	triga-veterans reactor	NT3	kewb reactor
NT2	r-a reactor	NT2	triton reactor	NT3	ksfr reactor
NT2	ra-5 reactor	NT2	trr-1 reactor	NT3	ncscr-1 reactor
NT2	ra-6 reactor	NT2	tz1 reactor	NT3	nevada university reactor
NT2	ra-8 reactor	NT2	tz2 reactor	NT3	prnc-1-77 reactor
NT2	rajasthan-5 reactor	NT2	ucbrr reactor	NT3	supo reactor
NT2	rajasthan-6 reactor	NT2	ufr reactor	NT3	wrrr reactor
NT2	rb-1 reactor	NT2	uhtrex reactor	NT2	argonaut type reactors
NT2	rb-2 reactor	NT2	uknr reactor	NT3	aeg-pr-10 reactor
NT2	rg-1m reactor	NT2	ulyse reactor	NT3	arbi reactor
NT2	ritmo reactor	NT2	umne-1 reactor	NT3	argonaut reactor
NT2	rts-1 reactor	NT2	umrr reactor	NT3	argos reactor
NT2	safari-1 reactor	NT2	urr reactor	NT3	athene reactor
NT2	saint laurent-1 reactor	NT2	utr-10-kinki reactor	NT3	jason reactor
NT2	saint laurent-2 reactor	NT2	utr reactor	NT3	lfr reactor

NT3	moata reactor	NT3	garigliano reactor	NT3	quad cities-2 reactor
NT3	nestor reactor	NT3	garona reactor	NT3	ringhals-1 reactor
NT3	queen mary college utr-b reactor	NT3	ge standard reactor	NT3	river bend-1 reactor
NT3	ra-1 reactor	NT3	graben-1 reactor	NT3	river bend-2 reactor
NT3	rb-2 reactor	NT3	graben-2 reactor	NT3	rwe-bayernwerk reactor
NT3	rien-1 reactor	NT3	grand gulf-1 reactor	NT3	shika-1 reactor
NT3	srcc-utr-100 reactor	NT3	grand gulf-2 reactor	NT3	shimane-1 reactor
NT3	stark reactor	NT3	gundremmingen-2 reactor	NT3	shimane-2 reactor
NT3	strasbourg-cronenbourg reactor	NT3	gundremmingen-3 reactor	NT3	shoreham reactor
NT3	uftr reactor	NT3	hamaoka-1 reactor	NT3	skagit-1 reactor
NT3	ulyse reactor	NT3	hamaoka-2 reactor	NT3	skagit-2 reactor
NT3	urr reactor	NT3	hamaoka-3 reactor	NT3	sl-1 reactor
NT3	utr-10-kinki reactor	NT3	hamaoka-4 reactor	NT3	susquehanna-1 reactor
NT3	vpi-utr-10 reactor	NT3	hamaoka-5 reactor	NT3	susquehanna-2 reactor
NT2	astr reactor	NT3	hartsville-1 reactor	NT3	tarapur-1 reactor
NT2	atr reactor	NT3	hartsville-2 reactor	NT3	tarapur-2 reactor
NT2	atsr reactor	NT3	hartsville-3 reactor	NT3	tokai-2 reactor
NT2	borax-1 reactor	NT3	hartsville-4 reactor	NT3	tsuruga reactor
NT2	borax-2 reactor	NT3	hatch-1 reactor	NT3	tullnerfeld reactor
NT2	borax-3 reactor	NT3	hatch-2 reactor	NT3	vak reactor
NT2	borax-4 reactor	NT3	hdr reactor	NT3	vbwr reactor
NT2	borax-5 reactor	NT3	hope creek-1 reactor	NT3	vermont yankee reactor
NT2	br-02 reactor	NT4	newbold island-1 reactor	NT3	verplanck-1 reactor
NT2	br-2 reactor	NT3	hope creek-2 reactor	NT3	verplanck-2 reactor
NT2	br-3-vn reactor	NT4	newbold island-2 reactor	NT3	vk-50 reactor
NT2	bwr type reactors	NT3	humboldt bay reactor	NT3	wnp-2 reactor
NT3	allens creek-1 reactor	NT3	isar reactor	NT3	wurgassen reactor
NT3	allens creek-2 reactor	NT3	jpdr-2 reactor	NT3	zimmer-1 reactor
NT3	bailly-1 reactor	NT3	jpdr reactor	NT3	zimmer-2 reactor
NT3	barsebaeck-1 reactor	NT3	kaiseraugst reactor	NT2	ciurus reactor
NT3	barsebaeck-2 reactor	NT3	kashiwazaki-kariwa-1 reactor	NT2	esada-vesr reactor
NT3	barton-1 reactor	NT3	kashiwazaki-kariwa-2 reactor	NT2	etr reactor
NT3	barton-2 reactor	NT3	kashiwazaki-kariwa-3 reactor	NT2	evsr reactor
NT3	barton-3 reactor	NT3	kashiwazaki-kariwa-4 reactor	NT2	ewa reactor
NT3	barton-4 reactor	NT3	kashiwazaki-kariwa-5 reactor	NT2	ewg-1 reactor
NT3	bell reactor	NT3	kashiwazaki-kariwa-6 reactor	NT2	getr reactor
NT3	big rock point reactor	NT3	kashiwazaki-kariwa-7 reactor	NT2	hclwr type reactors
NT3	black fox-1 reactor	NT3	kruemmel reactor	NT2	hfetr reactor
NT3	black fox-2 reactor	NT3	kuosheng-1 reactor	NT2	hfir reactor
NT3	bolsa chica-1 reactor	NT3	kuosheng-2 reactor	NT2	hfr reactor
NT3	bolsa chica-2 reactor	NT3	la salle county-1 reactor	NT2	hwlwr type reactors
NT3	bonus reactor	NT3	la salle county-2 reactor	NT3	ciurus reactor
NT3	browns ferry-1 reactor	NT3	labwr reactor	NT3	gentilly reactor
NT3	browns ferry-2 reactor	NT3	laguna verde-1 reactor	NT3	jatr reactor
NT3	browns ferry-3 reactor	NT3	laguna verde-2 reactor	NT2	igr reactor
NT3	brunsbuettel reactor	NT3	leibstadt reactor	NT2	iowa utr-10 reactor
NT3	brunswick-1 reactor	NT3	limerick-1 reactor	NT2	janus reactor
NT3	brunswick-2 reactor	NT3	limerick-2 reactor	NT2	jmtr reactor
NT3	chinshan-1 reactor	NT3	lingen reactor	NT2	kamini reactor
NT3	chinshan-2 reactor	NT3	mendocino-1 reactor	NT2	kuhfr reactor
NT3	clinton-1 reactor	NT3	mendocino-2 reactor	NT2	litr reactor
NT3	clinton-2 reactor	NT3	millstone-1 reactor	NT2	lwbr type reactors
NT3	cofrentes reactor	NT3	montague-1 reactor	NT2	lwgr type reactors
NT3	cooper reactor	NT3	montague-2 reactor	NT3	aps reactor
NT3	dodewaard reactor	NT3	montalto di castro-1 reactor	NT3	beloyarsk-1 reactor
NT3	douglas point-1 reactor	NT3	montalto di castro-2 reactor	NT3	beloyarsk-2 reactor
NT3	douglas point-2 reactor	NT3	monticello reactor	NT3	bilibin reactor
NT3	dresden-1 reactor	NT3	muehleberg reactor	NT3	chernobylsk-1 reactor
NT3	dresden-2 reactor	NT3	nine mile point-1 reactor	NT3	chernobylsk-2 reactor
NT3	dresden-3 reactor	NT3	nine mile point-2 reactor	NT3	chernobylsk-3 reactor
NT3	duane arnold-1 reactor	NT3	okg-1 reactor	NT3	chernobylsk-4 reactor
NT3	ebwr reactor	NT3	okg-2 reactor	NT3	ignalina-1 reactor
NT3	enel-4 reactor	NT3	okg-3 reactor	NT3	ignalina-2 reactor
NT3	enrico fermi-2 reactor	NT3	olkiluoto-1 reactor	NT3	kursk-1 reactor
NT3	err reactor	NT3	olkiluoto-2 reactor	NT3	kursk-2 reactor
NT3	fitzpatrick reactor	NT3	onagawa-1 reactor	NT3	kursk-3 reactor
NT3	forsmark-1 reactor	NT3	onagawa-2 reactor	NT3	kursk-4 reactor
NT3	forsmark-2 reactor	NT3	onagawa-3 reactor	NT3	leningrad-1 reactor
NT3	forsmark-3 reactor	NT3	oyster creek-1 reactor	NT3	leningrad-2 reactor
NT3	fukushima-1 reactor	NT3	pathfinder reactor	NT3	leningrad-3 reactor
NT3	fukushima-2 reactor	NT3	peach bottom-2 reactor	NT3	leningrad-4 reactor
NT3	fukushima-3 reactor	NT3	peach bottom-3 reactor	NT3	n-reactor
NT3	fukushima-4 reactor	NT3	perry-1 reactor	NT3	rpt reactor
NT3	fukushima-5 reactor	NT3	perry-2 reactor	NT3	smolensk-1 reactor
NT3	fukushima-6 reactor	NT3	philippsburg-1 reactor	NT3	smolensk-2 reactor
NT3	fukushima-ii-1 reactor	NT3	phipps bend-1 reactor	NT3	smolensk-3 reactor
NT3	fukushima-ii-2 reactor	NT3	phipps bend-2 reactor	NT3	uwtr reactor
NT3	fukushima-ii-3 reactor	NT3	pilgrim-1 reactor	NT2	maple reactor
NT3	fukushima-ii-4 reactor	NT3	quad cities-1 reactor	NT2	maple type reactors



- NT2 mir reactor
- NT2 mnsr type reactors
  - NT3 gharr-1 reactor
  - NT3 mnsr-ciae reactor
  - NT3 mnsr-sd reactor
  - NT3 mnsr-sh reactor
  - NT3 mnsr-sz reactor
  - NT3 nirr-1 reactor
  - NT3 parr-2 reactor
  - NT3 srr-1 reactor
- NT2 mrr reactor
- NT2 mtr reactor
- NT2 murr reactor
- NT2 netr reactor
- NT2 nhr-5 reactor
- NT2 nsrr reactor
- NT2 ntr reactor
- NT2 orphee reactor
- NT2 orr reactor
- NT2 osiris reactor
- NT2 ovr reactor
- NT2 pbr reactor
- NT2 pegase reactor
- NT2 peggy reactor
- NT2 perryman-1 reactor
- NT2 perryman-2 reactor
- NT2 pool type reactors
  - NT3 agata reactor
  - NT3 apsara reactor
  - NT3 armf-1 reactor
  - NT3 astra reactor
  - NT3 atrc reactor
  - NT3 avogadro rs-1 reactor
  - NT3 bam reactor
  - NT3 bawtr reactor
  - NT3 ber-2 reactor
  - NT3 brr reactor
  - NT3 bsr-1 reactor
  - NT3 bsr-2 reactor
  - NT3 cabri reactor
  - NT3 consort-2 reactor
  - NT3 cp-6 reactor
  - NT3 crocus reactor
  - NT3 democritus reactor
  - NT3 dr-2 reactor
  - NT3 etrc reactor
  - NT3 etrr-2 reactor
  - NT3 fmrb reactor
  - NT3 fnr reactor
  - NT3 frg-1 reactor
  - NT3 frg-2 reactor
  - NT3 frj-1 reactor
  - NT3 frm-ii reactor
  - NT3 frm reactor
  - NT3 frn reactor
  - NT3 ga siwabessy reactor
  - NT3 gtr reactor
  - NT3 gulf triga-mk-3 reactor
  - NT3 hanaro reactor
  - NT3 herald reactor
  - NT3 hor reactor
  - NT3 horace reactor
  - NT3 htr reactor
  - NT3 ian-r1 reactor
  - NT3 iear-1 reactor
  - NT3 ir-100 reactor
  - NT3 irl reactor
  - NT3 irr-1 reactor
  - NT3 irt-2000 djakarta reactor
  - NT3 irt-2000 moscow reactor
  - NT3 irt-c reactor
  - NT3 irt-f reactor
  - NT3 irt reactor
  - NT3 irt-sofia reactor
  - NT3 isis reactor
  - NT3 ivv-2m reactor
  - NT3 ivv-7 reactor
  - NT3 jen-1 reactor
  - NT3 jen-2 reactor
- NT3 jen reactor
- NT3 jrr-3m reactor
- NT3 jrr-4 reactor
- NT3 jules horowitz reactor
- NT3 kur reactor
- NT3 la reina rech-1 reactor
- NT3 lido reactor
- NT3 lo aguirre rech-2 reactor
- NT3 lpr reactor
- NT3 lptr reactor
- NT3 lr-0 reactor
- NT3 ltir reactor
- NT3 maria reactor
- NT3 maryla reactor
- NT3 melusine-1 reactor
- NT3 merlin reactor
- NT3 minerve reactor
- NT3 mnr reactor
- NT3 nscr reactor
- NT3 nur reactor
- NT3 opal reactor
- NT3 osur reactor
- NT3 parr-1 reactor
- NT3 phebus reactor
- NT3 pik physical model reactor
- NT3 prpr reactor
- NT3 prr-1 reactor
- NT3 pstr reactor
- NT3 ptr reactor
- NT3 pulstar-buffalo reactor
- NT3 pulstar-raleigh reactor
- NT3 pur-1 reactor
- NT3 r2-0 reactor
- NT3 ra-6 reactor
- NT3 ra-8 reactor
- NT3 rana reactor
- NT3 rinsc reactor
- NT3 ritmo reactor
- NT3 rp-10 reactor
- NT3 rts-1 reactor
- NT3 rv-1 reactor
- NT3 saphir reactor
- NT3 scarabee reactor
- NT3 siloe reactor
- NT3 siloette reactor
- NT3 slowpoke type reactors
  - NT4 slowpoke-alberta reactor
  - NT4 slowpoke-dalhousie reactor
  - NT4 slowpoke-montreal reactor
  - NT4 slowpoke-ottawa reactor
  - NT4 slowpoke-toronto reactor
  - NT4 slowpoke-wnre reactor
- NT3 spert-4 reactor
- NT3 stek reactor
- NT3 stir reactor
- NT3 swierk r-2 reactor
- NT3 thetis reactor
- NT3 thor reactor
- NT3 toshiba reactor
- NT3 tr-1 reactor
- NT3 tr-2 reactor
- NT3 triton reactor
- NT3 trr-1 reactor
- NT3 tz1 reactor
- NT3 tz2 reactor
- NT3 uknr reactor
- NT3 umne-1 reactor
- NT3 umrr reactor
- NT3 utrr reactor
- NT3 uvar reactor
- NT3 uwnr reactor
- NT3 vr-1 reactor
- NT3 wpir reactor
- NT3 wsur reactor
- NT3 xapr reactor
- NT2 pumima-3 reactor
- NT2 pwr type reactors
  - NT3 aguirre reactor
  - NT3 almaraz-1 reactor
- NT3 almaraz-2 reactor
- NT3 angra-1 reactor
- NT3 angra-2 reactor
- NT3 angra-3 reactor
- NT3 ardennes b-1 reactor
- NT3 ardennes b-2 reactor
- NT3 ardennes reactor
- NT3 arkansas-1 reactor
- NT3 arkansas-2 reactor
- NT3 asco-1 reactor
- NT3 asco-2 reactor
- NT3 atlantic-1 reactor
- NT3 atlantic-2 reactor
- NT3 basf-1 reactor
- NT3 basf-2 reactor
- NT3 beaver valley-1 reactor
- NT3 beaver valley-2 reactor
- NT3 bellefonte-1 reactor
- NT3 bellefonte-2 reactor
- NT3 belleville sur loire-1 reactor
- NT3 belleville sur loire-2 reactor
- NT3 beznau-1 reactor
- NT3 beznau-2 reactor
- NT3 biblis-1 reactor
- NT3 biblis-2 reactor
- NT3 biblis-3 reactor
- NT3 biblis-4 reactor
- NT3 blayais-1 reactor
- NT3 blue hills-1 reactor
- NT3 blue hills-2 reactor
- NT3 borssele reactor
- NT3 br-3 reactor
- NT3 braidwood-1 reactor
- NT3 braidwood-2 reactor
- NT3 brokdorf reactor
- NT3 bugey-2 reactor
- NT3 bugey-3 reactor
- NT3 bugey-4 reactor
- NT3 bugey-5 reactor
- NT3 bw standard reactor
- NT3 byron-1 reactor
- NT3 byron-2 reactor
- NT3 calhoun-1 reactor
- NT3 calhoun-2 reactor
- NT3 callaway-1 reactor
- NT3 callaway-2 reactor
- NT3 calvert cliffs-1 reactor
- NT3 calvert cliffs-2 reactor
- NT3 catawba-1 reactor
- NT3 catawba-2 reactor
- NT3 cattenom-1 reactor
- NT3 cattenom-2 reactor
- NT3 cattenom-3 reactor
- NT3 cattenom-4 reactor
- NT3 ce standard reactor
- NT3 cherokee-1 reactor
- NT3 cherokee-2 reactor
- NT3 cherokee-3 reactor
- NT3 chinon-b1 reactor
- NT3 civaux-1 reactor
- NT3 civaux-2 reactor
- NT3 comanche peak-1 reactor
- NT3 comanche peak-2 reactor
- NT3 connecticut yankee reactor
- NT3 cook-1 reactor
- NT3 cook-2 reactor
- NT3 cruas-2 reactor
- NT3 cruas-3 reactor
- NT3 cruas-4 reactor
- NT3 crystal river-3 reactor
- NT3 crystal river-4 reactor
- NT3 dampierre-1 reactor
- NT3 dampierre-2 reactor
- NT3 dampierre-3 reactor
- NT3 dampierre-4 reactor
- NT3 davis besse-1 reactor
- NT3 davis besse-2 reactor
- NT3 davis besse-3 reactor
- NT3 daya bay-1 reactor

<b>NT3</b> daya bay-2 reactor	<b>NT3</b> mc guire-2 reactor	<b>NT3</b> saint laurent-b1 reactor
<b>NT3</b> diablo canyon-1 reactor	<b>NT3</b> mh-1a reactor	<b>NT3</b> salem-1 reactor
<b>NT3</b> diablo canyon-2 reactor	<b>NT3</b> midland-1 reactor	<b>NT3</b> salem-2 reactor
<b>NT3</b> doel-1 reactor	<b>NT3</b> midland-2 reactor	<b>NT3</b> san onofre-1 reactor
<b>NT3</b> doel-2 reactor	<b>NT3</b> mihama-1 reactor	<b>NT3</b> san onofre-2 reactor
<b>NT3</b> doel-3 reactor	<b>NT3</b> mihama-2 reactor	<b>NT3</b> san onofre-3 reactor
<b>NT3</b> doel-4 reactor	<b>NT3</b> mihama-3 reactor	<b>NT3</b> savannah reactor
<b>NT3</b> efdr-50 reactor	<b>NT3</b> millstone-2 reactor	<b>NT3</b> saxton reactor
<b>NT3</b> emsland reactor	<b>NT3</b> millstone-3 reactor	<b>NT3</b> seabrook-1 reactor
<b>NT3</b> erie-1 reactor	<b>NT3</b> muelheim-kaerlich reactor	<b>NT3</b> seabrook-2 reactor
<b>NT3</b> erie-2 reactor	<b>NT3</b> mutsu reactor	<b>NT3</b> selni reactor
<b>NT3</b> farley-1 reactor	<b>NT3</b> neckar-1 reactor	<b>NT3</b> sendai-1 reactor
<b>NT3</b> farley-2 reactor	<b>NT3</b> neckar-2 reactor	<b>NT3</b> sendai-2 reactor
<b>NT3</b> fessenheim-1 reactor	<b>NT3</b> nep-1 reactor	<b>NT3</b> sequoyah-1 reactor
<b>NT3</b> flamanville-1 reactor	<b>NT3</b> nep-2 reactor	<b>NT3</b> sequoyah-2 reactor
<b>NT3</b> flamanville-2 reactor	<b>NT3</b> neupotz-1 reactor	<b>NT3</b> shippingport reactor
<b>NT3</b> forked river-1 reactor	<b>NT3</b> neupotz-2 reactor	<b>NT3</b> sizewell-b reactor
<b>NT3</b> genkai-1 reactor	<b>NT3</b> nogent sur seine-1 reactor	<b>NT3</b> sm-1 reactor
<b>NT3</b> genkai-2 reactor	<b>NT3</b> nogent sur seine-2 reactor	<b>NT3</b> sm-1a reactor
<b>NT3</b> genkai-3 reactor	<b>NT3</b> north anna-1 reactor	<b>NT3</b> south texas project-1 reactor
<b>NT3</b> genkai-4 reactor	<b>NT3</b> north anna-2 reactor	<b>NT3</b> south texas project-2 reactor
<b>NT3</b> ginna-1 reactor	<b>NT3</b> north anna-3 reactor	<b>NT3</b> stade reactor
<b>NT3</b> goesgen reactor	<b>NT3</b> north anna-4 reactor	<b>NT3</b> sterling-1 reactor
<b>NT3</b> golfech-1 reactor	<b>NT3</b> north coast-1 reactor	<b>NT3</b> sterling-2 reactor
<b>NT3</b> golfech-2 reactor	<b>NT3</b> obrigheim reactor	<b>NT3</b> summer-1 reactor
<b>NT3</b> grafenrheinfeld reactor	<b>NT3</b> oconee-1 reactor	<b>NT3</b> sundesert-1 reactor
<b>NT3</b> gravelines-1 reactor	<b>NT3</b> oconee-2 reactor	<b>NT3</b> sundesert-2 reactor
<b>NT3</b> gravelines-2 reactor	<b>NT3</b> oconee-3 reactor	<b>NT3</b> surry-1 reactor
<b>NT3</b> gravelines-3 reactor	<b>NT3</b> oi-1 reactor	<b>NT3</b> surry-2 reactor
<b>NT3</b> gravelines-4 reactor	<b>NT3</b> oi-2 reactor	<b>NT3</b> surry-3 reactor
<b>NT3</b> gravelines-5 reactor	<b>NT3</b> oi-3 reactor	<b>NT3</b> surry-4 reactor
<b>NT3</b> gravelines-6 reactor	<b>NT3</b> oi-4 reactor	<b>NT3</b> takahama-1 reactor
<b>NT3</b> greene county reactor	<b>NT3</b> oktembryan-2 reactor	<b>NT3</b> takahama-2 reactor
<b>NT3</b> greenwood-2 reactor	<b>NT3</b> olkiluoto-3 reactor	<b>NT3</b> takahama-3 reactor
<b>NT3</b> greenwood-3 reactor	<b>NT3</b> otto hahn reactor	<b>NT3</b> takahama-4 reactor
<b>NT3</b> grohnde reactor	<b>NT3</b> palisades-1 reactor	<b>NT3</b> three mile island-1 reactor
<b>NT3</b> hamm-uentrop reactor	<b>NT3</b> palo verde-1 reactor	<b>NT3</b> three mile island-2 reactor
<b>NT3</b> harris-1 reactor	<b>NT3</b> palo verde-2 reactor	<b>NT3</b> tihange-2 reactor
<b>NT3</b> harris-2 reactor	<b>NT3</b> palo verde-3 reactor	<b>NT3</b> tihange-3 reactor
<b>NT3</b> harris-3 reactor	<b>NT3</b> palo verde-4 reactor	<b>NT3</b> tihange reactor
<b>NT3</b> harris-4 reactor	<b>NT3</b> palo verde-5 reactor	<b>NT3</b> tomari-1 reactor
<b>NT3</b> haven-1 reactor	<b>NT3</b> paluel-1 reactor	<b>NT3</b> tomari-2 reactor
<b>NT4</b> koshkonong-1 reactor	<b>NT3</b> paluel-2 reactor	<b>NT3</b> tricastin-1 reactor
<b>NT3</b> haven-2 reactor	<b>NT3</b> paluel-3 reactor	<b>NT3</b> tricastin-4 reactor
<b>NT4</b> koshkonong-2 reactor	<b>NT3</b> paluel-4 reactor	<b>NT3</b> trillo-1 reactor
<b>NT3</b> ikata-2 reactor	<b>NT3</b> pat reactor	<b>NT3</b> trojan reactor
<b>NT3</b> ikata-3 reactor	<b>NT3</b> pebble springs-1 reactor	<b>NT3</b> tsuruga-2 reactor
<b>NT3</b> ikata reactor	<b>NT3</b> pebble springs-2 reactor	<b>NT3</b> turkey point-3 reactor
<b>NT3</b> indian point-1 reactor	<b>NT3</b> penly-1 reactor	<b>NT3</b> turkey point-4 reactor
<b>NT3</b> indian point-2 reactor	<b>NT3</b> perkins-1 reactor	<b>NT3</b> tva-1 reactor
<b>NT3</b> indian point-3 reactor	<b>NT3</b> perkins-2 reactor	<b>NT3</b> tva-2 reactor
<b>NT3</b> iran-1 reactor	<b>NT3</b> perkins-3 reactor	<b>NT3</b> tyrone-1 reactor
<b>NT3</b> iran-2 reactor	<b>NT3</b> philippsburg-2 reactor	<b>NT3</b> tyrone-2 reactor
<b>NT3</b> isar-2 reactor	<b>NT3</b> pilgrim-2 reactor	<b>NT3</b> ulchin-1 reactor
<b>NT3</b> jamesport-1 reactor	<b>NT3</b> pilgrim-3 reactor	<b>NT3</b> ulchin-2 reactor
<b>NT3</b> jamesport-2 reactor	<b>NT3</b> pm-2a reactor	<b>NT3</b> ulchin-3 reactor
<b>NT3</b> kewaunee reactor	<b>NT3</b> pm-3a reactor	<b>NT3</b> ulchin-4 reactor
<b>NT3</b> koeborg-1 reactor	<b>NT3</b> pnpp-1 reactor	<b>NT3</b> unterweser reactor
<b>NT3</b> koeborg-2 reactor	<b>NT3</b> point beach-1 reactor	<b>NT3</b> vahnum-1 reactor
<b>NT3</b> kori-1 reactor	<b>NT3</b> point beach-2 reactor	<b>NT3</b> vahnum-2 reactor
<b>NT3</b> kori-2 reactor	<b>NT3</b> prairie island-1 reactor	<b>NT3</b> vandellos-2 reactor
<b>NT3</b> kori-3 reactor	<b>NT3</b> prairie island-2 reactor	<b>NT3</b> vogtle-1 reactor
<b>NT3</b> kori-4 reactor	<b>NT3</b> qinshan-1 reactor	<b>NT3</b> vogtle-2 reactor
<b>NT3</b> krsko reactor	<b>NT3</b> qinshan-2-1 reactor	<b>NT3</b> vogtle-3 reactor
<b>NT3</b> lemoniz-1 reactor	<b>NT3</b> qinshan-2-2 reactor	<b>NT3</b> vogtle-4 reactor
<b>NT3</b> lemoniz-2 reactor	<b>NT3</b> quancassee-1 reactor	<b>NT3</b> waterford-3 reactor
<b>NT3</b> lenin reactor	<b>NT3</b> quancassee-2 reactor	<b>NT3</b> waterford-4 reactor
<b>NT3</b> leonid brezhnev reactor	<b>NT3</b> rancho seco-1 reactor	<b>NT3</b> watts bar-1 reactor
<b>NT3</b> lingao-1 reactor	<b>NT3</b> remerschen reactor	<b>NT3</b> watts bar-2 reactor
<b>NT3</b> lingao-2 reactor	<b>NT3</b> rheinsberg akw1 reactor	<b>NT3</b> westinghouse standard reactor
<b>NT3</b> loft reactor	<b>NT3</b> ringhals-2 reactor	<b>NT3</b> wnp-1 reactor
<b>NT3</b> lucie-1 reactor	<b>NT3</b> ringhals-3 reactor	<b>NT3</b> wnp-3 reactor
<b>NT3</b> lucie-2 reactor	<b>NT3</b> ringhals-4 reactor	<b>NT3</b> wnp-4 reactor
<b>NT3</b> maanshan-1 reactor	<b>NT3</b> robinson-2 reactor	<b>NT3</b> wnp-5 reactor
<b>NT3</b> maine yankee reactor	<b>NT3</b> rooppur reactor	<b>NT3</b> wolf creek-1 reactor
<b>NT3</b> malibu-1 reactor	<b>NT3</b> rowe yankee reactor	<b>NT3</b> wup-3 reactor
<b>NT3</b> marble hill-1 reactor	<b>NT3</b> slc prototype reactor	<b>NT3</b> wup-4 reactor
<b>NT3</b> marble hill-2 reactor	<b>NT3</b> saint alban-1 reactor	<b>NT3</b> wup-5 reactor
<b>NT3</b> mc guire-1 reactor	<b>NT3</b> saint alban-2 reactor	<b>NT3</b> wup-6 reactor

- NT3** wwer type reactors  
**NT4** armenian-1 reactor  
**NT4** armenian-2 reactor  
**NT4** balakovo-1 reactor  
**NT4** balakovo-2 reactor  
**NT4** balakovo-3 reactor  
**NT4** balakovo-4 reactor  
**NT4** blahutovice-1 reactor  
**NT4** bohunice v-1 reactor  
**NT4** bohunice v-2 reactor  
**NT4** dukovany-1 reactor  
**NT4** dukovany-2 reactor  
**NT4** dukovany-3 reactor  
**NT4** dukovany-4 reactor  
**NT4** greifswald-1 reactor  
**NT4** greifswald-2 reactor  
**NT4** greifswald-3 reactor  
**NT4** greifswald-4 reactor  
**NT4** greifswald-5 reactor  
**NT4** greifswald-6 reactor  
**NT4** juragua-1 reactor  
**NT4** kalinin-1 reactor  
**NT4** kalinin-3 reactor  
**NT4** kecerovce-1 reactor  
**NT4** khmelnitskij-1 reactor  
**NT4** kola-1 reactor  
**NT4** kola-2 reactor  
**NT4** kola-3 reactor  
**NT4** kola-4 reactor  
**NT4** kozloduy-1 reactor  
**NT4** kozloduy-2 reactor  
**NT4** kozloduy-3 reactor  
**NT4** kozloduy-4 reactor  
**NT4** kozloduy-5 reactor  
**NT4** kozloduy-6 reactor  
**NT4** kudankulam-1 reactor  
**NT4** kudankulam-2 reactor  
**NT4** loviisa-1 reactor  
**NT4** loviisa-2 reactor  
**NT4** mochovce-1 reactor  
**NT4** mochovce-2 reactor  
**NT4** novovoronezh-1 reactor  
**NT4** novovoronezh-2 reactor  
**NT4** novovoronezh-3 reactor  
**NT4** novovoronezh-4 reactor  
**NT4** novovoronezh-5 reactor  
**NT4** paks-1 reactor  
**NT4** paks-2 reactor  
**NT4** paks-3 reactor  
**NT4** paks-4 reactor  
**NT4** rovno-1 reactor  
**NT4** rovno-2 reactor  
**NT4** rovno-3 reactor  
**NT4** rovno-4 reactor  
**NT4** rovno-5 reactor  
**NT4** south ukrainian-1 reactor  
**NT4** south ukrainian-2 reactor  
**NT4** south ukrainian-3 reactor  
**NT4** stendal-1 reactor  
**NT4** tatarian reactor  
**NT4** temelin-1 reactor  
**NT4** temelin-2 reactor  
**NT4** tianwan-1 reactor  
**NT4** zaporozhe-1 reactor  
**NT4** zaporozhe-2 reactor  
**NT4** zaporozhe-3 reactor  
**NT4** zaporozhe-4 reactor  
**NT4** zaporozhe-5 reactor  
**NT4** zaporozhe-6 reactor  
**NT3** wyhl-1 reactor  
**NT3** wyhl-2 reactor  
**NT3** yellow creek-1 reactor  
**NT3** yellow creek-2 reactor  
**NT3** yonggwang-1 reactor  
**NT3** yonggwang-2 reactor  
**NT3** yonggwang-3 reactor  
**NT3** yonggwang-4 reactor  
**NT3** zion-1 reactor  
**NT3** zion-2 reactor
- NT3** zorita-1 reactor  
**NT2** r-2 reactor  
**NT2** ra-5 reactor  
**NT2** rg-1m reactor  
**NT2** safari-1 reactor  
**NT2** shgwr reactor  
**NT2** sm-2 reactor  
**NT2** spert-2 reactor  
**NT2** spert-3 reactor  
**NT2** sr-1 reactor  
**NT2** sr-3p reactor  
**NT2** sr-oa reactor  
**NT2** tca reactor  
**NT2** triga type reactors  
**NT3** afri reactor  
**NT3** atrp reactor  
**NT3** colorado triga-mk-3 reactor  
**NT3** cornell triga-mk-2 reactor  
**NT3** dow triga-mk-1 reactor  
**NT3** fir-1 reactor  
**NT3** frf-2 reactor  
**NT3** frm reactor  
**NT3** gulf triga-mk-3 reactor  
**NT3** kartini-ppny reactor  
**NT3** lopera reactor  
**NT3** nscr reactor  
**NT3** ostr reactor  
**NT3** pprp reactor  
**NT3** pstr reactor  
**NT3** rtp reactor  
**NT3** trico reactor  
**NT3** triga-1-arizona reactor  
**NT3** triga-1-california reactor  
**NT3** triga-1-hanford reactor  
**NT3** triga-1-hanover reactor  
**NT3** triga-1-heidelberg reactor  
**NT3** triga-1-michigan reactor  
**NT3** triga-2-bandung reactor  
**NT3** triga-2-bangladesh reactor  
**NT3** triga-2-dalat reactor  
**NT3** triga-2-illinois reactor  
**NT3** triga-2-kansas reactor  
**NT3** triga-2-ljubljana reactor  
**NT3** triga-2-mainz reactor  
**NT3** triga-2-musashi reactor  
**NT3** triga-2-pavia reactor  
**NT3** triga-2-pitesti reactor  
**NT3** triga-2 reactor  
**NT3** triga-2-rikkyo reactor  
**NT3** triga-2-rome reactor  
**NT3** triga-2-seoul reactor  
**NT3** triga-2-vienna reactor  
**NT3** triga-3-la jolla reactor  
**NT3** triga-3-munich reactor  
**NT3** triga-3-salazar reactor  
**NT3** triga-3-seoul reactor  
**NT3** triga-brazil reactor  
**NT3** triga-texas reactor  
**NT3** triga-veterans reactor  
**NT3** ucbr reactor  
**NT3** uwnr reactor  
**NT3** wsur reactor  
**NT2** tsr-2 reactor  
**NT2** venus reactor  
**NT2** voronezh ast-500 reactor  
**NT2** wntr reactor  
**NT2** wtr reactor  
**NT2** wwr type reactors  
**NT3** budapest training reactor  
**NT3** irt-1 libya reactor  
**NT3** irt-baghdad reactor  
**NT3** lvr-15 reactor  
**NT3** wwr-2 reactor  
**NT3** wwr-k-almaty reactor  
**NT3** wwr-m-kiev reactor  
**NT3** wwr-m-leningrad reactor  
**NT3** wwr-s-bucharest reactor  
**NT3** wwr-s-budapest reactor  
**NT3** wwr-s-cairo reactor
- NT3** wwr-s-moscow reactor  
**NT3** wwr-s-prague reactor  
**NT3** wwr-s-tashkent reactor  
**NT3** wwr-sm rossendorf reactor  
**NT3** wwr-z reactor  
**NT2** zlfr reactor  
**NT2** zr-6 reactor  
**NT1** water moderated reactors  
**NT2** aarr reactor  
**NT2** acpr reactor  
**NT2** anna reactor  
**NT2** aqueous homogeneous reactors  
**NT3** ai-l-77 reactor  
**NT3** argus reactor  
**NT3** ber-2 reactor  
**NT3** byu l-77 reactor  
**NT3** cesnef reactor  
**NT3** dr-1 reactor  
**NT3** frf reactor  
**NT3** gidra reactor  
**NT3** hre-2 reactor  
**NT3** jrr-1 reactor  
**NT3** kewb reactor  
**NT3** kstr reactor  
**NT3** ncsr-1 reactor  
**NT3** nevada university reactor  
**NT3** prnc-l-77 reactor  
**NT3** supo reactor  
**NT3** wrrr reactor  
**NT2** argonaut type reactors  
**NT3** aeg-pr-10 reactor  
**NT3** arbi reactor  
**NT3** argonaut reactor  
**NT3** argos reactor  
**NT3** athene reactor  
**NT3** jason reactor  
**NT3** lfr reactor  
**NT3** moata reactor  
**NT3** nestor reactor  
**NT3** queen mary college utr-b reactor  
**NT3** ra-1 reactor  
**NT3** rb-2 reactor  
**NT3** rien-1 reactor  
**NT3** src-utr-100 reactor  
**NT3** stark reactor  
**NT3** strasbourg-cronenbourg reactor  
**NT3** uftr reactor  
**NT3** ulyse reactor  
**NT3** urr reactor  
**NT3** utr-10-kinki reactor  
**NT3** vpi-utr-10 reactor  
**NT2** astr reactor  
**NT2** atr reactor  
**NT2** atsr reactor  
**NT2** borax-1 reactor  
**NT2** borax-2 reactor  
**NT2** borax-3 reactor  
**NT2** borax-4 reactor  
**NT2** borax-5 reactor  
**NT2** br-02 reactor  
**NT2** br-2 reactor  
**NT2** br-3-vn reactor  
**NT2** bwr type reactors  
**NT3** allens creek-1 reactor  
**NT3** allens creek-2 reactor  
**NT3** bailly-1 reactor  
**NT3** barsebaeck-1 reactor  
**NT3** barsebaeck-2 reactor  
**NT3** barton-1 reactor  
**NT3** barton-2 reactor  
**NT3** barton-3 reactor  
**NT3** barton-4 reactor  
**NT3** bell reactor  
**NT3** big rock point reactor  
**NT3** black fox-1 reactor  
**NT3** black fox-2 reactor  
**NT3** bolsa chica-1 reactor  
**NT3** bolsa chica-2 reactor  
**NT3** bonus reactor

<b>NT3</b>	browns ferry-1 reactor	<b>NT3</b>	iabwv reactor	<b>NT2</b>	jmtr reactor
<b>NT3</b>	browns ferry-2 reactor	<b>NT3</b>	laguna verde-1 reactor	<b>NT2</b>	juno reactor
<b>NT3</b>	browns ferry-3 reactor	<b>NT3</b>	laguna verde-2 reactor	<b>NT2</b>	kamini reactor
<b>NT3</b>	brunsbuettel reactor	<b>NT3</b>	leibstadt reactor	<b>NT2</b>	kuca reactor
<b>NT3</b>	brunswick-1 reactor	<b>NT3</b>	limerick-1 reactor	<b>NT2</b>	kuhfr reactor
<b>NT3</b>	brunswick-2 reactor	<b>NT3</b>	limerick-2 reactor	<b>NT2</b>	litr reactor
<b>NT3</b>	chinshan-1 reactor	<b>NT3</b>	lingen reactor	<b>NT2</b>	lwbr type reactors
<b>NT3</b>	chinshan-2 reactor	<b>NT3</b>	mendocino-1 reactor	<b>NT2</b>	lwor type reactors
<b>NT3</b>	clinton-1 reactor	<b>NT3</b>	mendocino-2 reactor	<b>NT2</b>	maple reactor
<b>NT3</b>	clinton-2 reactor	<b>NT3</b>	millstone-1 reactor	<b>NT2</b>	maple type reactors
<b>NT3</b>	cofrentes reactor	<b>NT3</b>	montague-1 reactor	<b>NT2</b>	mir reactor
<b>NT3</b>	cooper reactor	<b>NT3</b>	montague-2 reactor	<b>NT2</b>	ml-1 reactor
<b>NT3</b>	dodewaard reactor	<b>NT3</b>	montalto di castro-1 reactor	<b>NT2</b>	mnsr type reactors
<b>NT3</b>	douglas point-1 reactor	<b>NT3</b>	montalto di castro-2 reactor	<b>NT3</b>	gharr-1 reactor
<b>NT3</b>	douglas point-2 reactor	<b>NT3</b>	monticello reactor	<b>NT3</b>	mnsr-ciae reactor
<b>NT3</b>	dresden-1 reactor	<b>NT3</b>	muehleberg reactor	<b>NT3</b>	mnsr-sd reactor
<b>NT3</b>	dresden-2 reactor	<b>NT3</b>	nine mile point-1 reactor	<b>NT3</b>	mnsr-sh reactor
<b>NT3</b>	dresden-3 reactor	<b>NT3</b>	nine mile point-2 reactor	<b>NT3</b>	mnsr-sz reactor
<b>NT3</b>	duane arnold-1 reactor	<b>NT3</b>	okg-1 reactor	<b>NT3</b>	nirr-1 reactor
<b>NT3</b>	ebwr reactor	<b>NT3</b>	okg-2 reactor	<b>NT3</b>	parr-2 reactor
<b>NT3</b>	enel-4 reactor	<b>NT3</b>	okg-3 reactor	<b>NT3</b>	srr-1 reactor
<b>NT3</b>	enrico fermi-2 reactor	<b>NT3</b>	olkiluoto-1 reactor	<b>NT2</b>	mrr reactor
<b>NT3</b>	err reactor	<b>NT3</b>	olkiluoto-2 reactor	<b>NT2</b>	mtr reactor
<b>NT3</b>	fitzpatrick reactor	<b>NT3</b>	onagawa-1 reactor	<b>NT2</b>	murr reactor
<b>NT3</b>	forsmark-1 reactor	<b>NT3</b>	onagawa-2 reactor	<b>NT2</b>	netr reactor
<b>NT3</b>	forsmark-2 reactor	<b>NT3</b>	onagawa-3 reactor	<b>NT2</b>	nhf-5 reactor
<b>NT3</b>	forsmark-3 reactor	<b>NT3</b>	oyster creek-1 reactor	<b>NT2</b>	nsrr reactor
<b>NT3</b>	fukushima-1 reactor	<b>NT3</b>	pathfinder reactor	<b>NT2</b>	ntr reactor
<b>NT3</b>	fukushima-2 reactor	<b>NT3</b>	peach bottom-2 reactor	<b>NT2</b>	nuclear furnace reactor
<b>NT3</b>	fukushima-3 reactor	<b>NT3</b>	peach bottom-3 reactor	<b>NT2</b>	orr reactor
<b>NT3</b>	fukushima-4 reactor	<b>NT3</b>	perry-1 reactor	<b>NT2</b>	osiris reactor
<b>NT3</b>	fukushima-5 reactor	<b>NT3</b>	perry-2 reactor	<b>NT2</b>	owr reactor
<b>NT3</b>	fukushima-6 reactor	<b>NT3</b>	philippsburg-1 reactor	<b>NT2</b>	pbr reactor
<b>NT3</b>	fukushima-ii-1 reactor	<b>NT3</b>	phipps bend-1 reactor	<b>NT2</b>	pegase reactor
<b>NT3</b>	fukushima-ii-2 reactor	<b>NT3</b>	phipps bend-2 reactor	<b>NT2</b>	peggy reactor
<b>NT3</b>	fukushima-ii-3 reactor	<b>NT3</b>	pilgrim-1 reactor	<b>NT2</b>	perryman-1 reactor
<b>NT3</b>	fukushima-ii-4 reactor	<b>NT3</b>	quad cities-1 reactor	<b>NT2</b>	perryman-2 reactor
<b>NT3</b>	garigliano reactor	<b>NT3</b>	quad cities-2 reactor	<b>NT2</b>	pool type reactors
<b>NT3</b>	garona reactor	<b>NT3</b>	ringhals-1 reactor	<b>NT3</b>	agata reactor
<b>NT3</b>	ge standard reactor	<b>NT3</b>	river bend-1 reactor	<b>NT3</b>	apsara reactor
<b>NT3</b>	graben-1 reactor	<b>NT3</b>	river bend-2 reactor	<b>NT3</b>	armf-1 reactor
<b>NT3</b>	graben-2 reactor	<b>NT3</b>	rwe-bayernwerk reactor	<b>NT3</b>	astra reactor
<b>NT3</b>	grand gulf-1 reactor	<b>NT3</b>	shika-1 reactor	<b>NT3</b>	atrc reactor
<b>NT3</b>	grand gulf-2 reactor	<b>NT3</b>	shimane-1 reactor	<b>NT3</b>	avogadro rs-1 reactor
<b>NT3</b>	gundremmingen-2 reactor	<b>NT3</b>	shimane-2 reactor	<b>NT3</b>	bam reactor
<b>NT3</b>	gundremmingen-3 reactor	<b>NT3</b>	shoreham reactor	<b>NT3</b>	bawtr reactor
<b>NT3</b>	hamaoka-1 reactor	<b>NT3</b>	skagit-1 reactor	<b>NT3</b>	ber-2 reactor
<b>NT3</b>	hamaoka-2 reactor	<b>NT3</b>	skagit-2 reactor	<b>NT3</b>	brr reactor
<b>NT3</b>	hamaoka-3 reactor	<b>NT3</b>	sl-1 reactor	<b>NT3</b>	bsr-1 reactor
<b>NT3</b>	hamaoka-4 reactor	<b>NT3</b>	susquehanna-1 reactor	<b>NT3</b>	bsr-2 reactor
<b>NT3</b>	hamaoka-5 reactor	<b>NT3</b>	susquehanna-2 reactor	<b>NT3</b>	cabri reactor
<b>NT3</b>	hartsville-1 reactor	<b>NT3</b>	tarapur-1 reactor	<b>NT3</b>	consort-2 reactor
<b>NT3</b>	hartsville-2 reactor	<b>NT3</b>	tarapur-2 reactor	<b>NT3</b>	cp-6 reactor
<b>NT3</b>	hartsville-3 reactor	<b>NT3</b>	tokai-2 reactor	<b>NT3</b>	crocus reactor
<b>NT3</b>	hartsville-4 reactor	<b>NT3</b>	tsuruga reactor	<b>NT3</b>	democritus reactor
<b>NT3</b>	hatch-1 reactor	<b>NT3</b>	tullnerfeld reactor	<b>NT3</b>	dr-2 reactor
<b>NT3</b>	hatch-2 reactor	<b>NT3</b>	vak reactor	<b>NT3</b>	etrc reactor
<b>NT3</b>	hdr reactor	<b>NT3</b>	vbwr reactor	<b>NT3</b>	etrr-2 reactor
<b>NT3</b>	hope creek-1 reactor	<b>NT3</b>	vermont yankee reactor	<b>NT3</b>	fmr reactor
<b>NT4</b>	newbold island-1 reactor	<b>NT3</b>	verplanck-1 reactor	<b>NT3</b>	fmr reactor
<b>NT3</b>	hope creek-2 reactor	<b>NT3</b>	verplanck-2 reactor	<b>NT3</b>	fig-1 reactor
<b>NT4</b>	newbold island-2 reactor	<b>NT3</b>	vk-50 reactor	<b>NT3</b>	fig-2 reactor
<b>NT3</b>	humboldt bay reactor	<b>NT3</b>	wnp-2 reactor	<b>NT3</b>	frj-1 reactor
<b>NT3</b>	isar reactor	<b>NT3</b>	wuergassen reactor	<b>NT3</b>	frm-ii reactor
<b>NT3</b>	jpdr-2 reactor	<b>NT3</b>	zimmer-1 reactor	<b>NT3</b>	frm reactor
<b>NT3</b>	jpdr reactor	<b>NT3</b>	zimmer-2 reactor	<b>NT3</b>	frn reactor
<b>NT3</b>	kaiseraugst reactor	<b>NT2</b>	esada-vesr reactor	<b>NT3</b>	ga siwabessy reactor
<b>NT3</b>	kashiwazaki-kariwa-1 reactor	<b>NT2</b>	etr reactor	<b>NT3</b>	gtr reactor
<b>NT3</b>	kashiwazaki-kariwa-2 reactor	<b>NT2</b>	evsr reactor	<b>NT3</b>	gulf triga-mk-3 reactor
<b>NT3</b>	kashiwazaki-kariwa-3 reactor	<b>NT2</b>	ewa reactor	<b>NT3</b>	hanaro reactor
<b>NT3</b>	kashiwazaki-kariwa-4 reactor	<b>NT2</b>	ewg-1 reactor	<b>NT3</b>	herald reactor
<b>NT3</b>	kashiwazaki-kariwa-5 reactor	<b>NT2</b>	gcre reactor	<b>NT3</b>	hor reactor
<b>NT3</b>	kashiwazaki-kariwa-6 reactor	<b>NT2</b>	getr reactor	<b>NT3</b>	horace reactor
<b>NT3</b>	kashiwazaki-kariwa-7 reactor	<b>NT2</b>	hclwr type reactors	<b>NT3</b>	htr reactor
<b>NT3</b>	kruemmel reactor	<b>NT2</b>	hfetr reactor	<b>NT3</b>	ian-r1 reactor
<b>NT3</b>	kuosheng-1 reactor	<b>NT2</b>	hfir reactor	<b>NT3</b>	iear-1 reactor
<b>NT3</b>	kuosheng-2 reactor	<b>NT2</b>	hfr reactor	<b>NT3</b>	ir-100 reactor
<b>NT3</b>	la salle county-1 reactor	<b>NT2</b>	igr reactor	<b>NT3</b>	irl reactor
<b>NT3</b>	la salle county-2 reactor	<b>NT2</b>	janus reactor	<b>NT3</b>	irr-1 reactor

NT3	irt-2000 djakarta reactor	NT3	utrr reactor	NT3	cruas-4 reactor
NT3	irt-2000 moscow reactor	NT3	uvar reactor	NT3	crystal river-3 reactor
NT3	irt-c reactor	NT3	uwnr reactor	NT3	crystal river-4 reactor
NT3	irt-f reactor	NT3	vr-1 reactor	NT3	dampierre-1 reactor
NT3	irt reactor	NT3	wpir reactor	NT3	dampierre-2 reactor
NT3	irt-sofia reactor	NT3	wsur reactor	NT3	dampierre-3 reactor
NT3	isis reactor	NT3	xapr reactor	NT3	dampierre-4 reactor
NT3	ivv-2m reactor	NT2	pumima-3 reactor	NT3	davis besse-1 reactor
NT3	ivv-7 reactor	NT2	pwr type reactors	NT3	davis besse-2 reactor
NT3	jen-1 reactor	NT3	aguirre reactor	NT3	davis besse-3 reactor
NT3	jen-2 reactor	NT3	almaraz-1 reactor	NT3	daya bay-1 reactor
NT3	jen reactor	NT3	almaraz-2 reactor	NT3	daya bay-2 reactor
NT3	jrr-3m reactor	NT3	angra-1 reactor	NT3	diablo canyon-1 reactor
NT3	jrr-4 reactor	NT3	angra-2 reactor	NT3	diablo canyon-2 reactor
NT3	jules horowitz reactor	NT3	angra-3 reactor	NT3	doel-1 reactor
NT3	kur reactor	NT3	ardennes b-1 reactor	NT3	doel-2 reactor
NT3	la reina rech-1 reactor	NT3	ardennes b-2 reactor	NT3	doel-3 reactor
NT3	lido reactor	NT3	ardennes reactor	NT3	doel-4 reactor
NT3	lo aguirre rech-2 reactor	NT3	arkansas-1 reactor	NT3	efdr-50 reactor
NT3	lpr reactor	NT3	arkansas-2 reactor	NT3	emsland reactor
NT3	lptr reactor	NT3	asco-1 reactor	NT3	erie-1 reactor
NT3	lr-0 reactor	NT3	asco-2 reactor	NT3	erie-2 reactor
NT3	ltir reactor	NT3	atlantic-1 reactor	NT3	farley-1 reactor
NT3	maria reactor	NT3	atlantic-2 reactor	NT3	farley-2 reactor
NT3	maryla reactor	NT3	basf-1 reactor	NT3	fessenheim-1 reactor
NT3	melusine-1 reactor	NT3	basf-2 reactor	NT3	flamanville-1 reactor
NT3	merlin reactor	NT3	beaver valley-1 reactor	NT3	flamanville-2 reactor
NT3	minerve reactor	NT3	beaver valley-2 reactor	NT3	forked river-1 reactor
NT3	mnr reactor	NT3	bellefonte-1 reactor	NT3	genkai-1 reactor
NT3	nscr reactor	NT3	bellefonte-2 reactor	NT3	genkai-2 reactor
NT3	nur reactor	NT3	belleville sur loire-1 reactor	NT3	genkai-3 reactor
NT3	opal reactor	NT3	belleville sur loire-2 reactor	NT3	genkai-4 reactor
NT3	osur reactor	NT3	beznau-1 reactor	NT3	ginna-1 reactor
NT3	parr-1 reactor	NT3	beznau-2 reactor	NT3	goesgen reactor
NT3	phebus reactor	NT3	biblis-1 reactor	NT3	golfech-1 reactor
NT3	pik physical model reactor	NT3	biblis-2 reactor	NT3	golfech-2 reactor
NT3	prpr reactor	NT3	biblis-3 reactor	NT3	grafenrheinfeld reactor
NT3	prr-1 reactor	NT3	biblis-4 reactor	NT3	gravelines-1 reactor
NT3	pstr reactor	NT3	blayais-1 reactor	NT3	gravelines-2 reactor
NT3	ptr reactor	NT3	blue hills-1 reactor	NT3	gravelines-3 reactor
NT3	pulstar-buffalo reactor	NT3	blue hills-2 reactor	NT3	gravelines-4 reactor
NT3	pulstar-raleigh reactor	NT3	borsele reactor	NT3	gravelines-5 reactor
NT3	pur-1 reactor	NT3	br-3 reactor	NT3	gravelines-6 reactor
NT3	r2-0 reactor	NT3	braidwood-1 reactor	NT3	greene county reactor
NT3	ra-6 reactor	NT3	braidwood-2 reactor	NT3	greenwood-2 reactor
NT3	ra-8 reactor	NT3	brokdorf reactor	NT3	greenwood-3 reactor
NT3	rana reactor	NT3	bugey-2 reactor	NT3	grohnde reactor
NT3	rinsc reactor	NT3	bugey-3 reactor	NT3	hamm-uentrop reactor
NT3	ritmo reactor	NT3	bugey-4 reactor	NT3	harris-1 reactor
NT3	rp-10 reactor	NT3	bugey-5 reactor	NT3	harris-2 reactor
NT3	rts-1 reactor	NT3	bw standard reactor	NT3	harris-3 reactor
NT3	rv-1 reactor	NT3	byron-1 reactor	NT3	harris-4 reactor
NT3	saphir reactor	NT3	byron-2 reactor	NT3	haven-1 reactor
NT3	scarabee reactor	NT3	calhoun-1 reactor	NT4	koshkonong-1 reactor
NT3	siloe reactor	NT3	calhoun-2 reactor	NT3	haven-2 reactor
NT3	siloette reactor	NT3	callaway-1 reactor	NT4	koshkonong-2 reactor
NT3	slowpoke type reactors	NT3	callaway-2 reactor	NT3	ikata-2 reactor
NT4	slowpoke-alberta reactor	NT3	calvert cliffs-1 reactor	NT3	ikata-3 reactor
NT4	slowpoke-dalhousie reactor	NT3	calvert cliffs-2 reactor	NT3	ikata reactor
NT4	slowpoke-montreal reactor	NT3	catawba-1 reactor	NT3	indian point-1 reactor
NT4	slowpoke-ottawa reactor	NT3	catawba-2 reactor	NT3	indian point-2 reactor
NT4	slowpoke-toronto reactor	NT3	cattenom-1 reactor	NT3	indian point-3 reactor
NT4	slowpoke-wmre reactor	NT3	cattenom-2 reactor	NT3	iran-1 reactor
NT3	spert-4 reactor	NT3	cattenom-3 reactor	NT3	iran-2 reactor
NT3	stek reactor	NT3	cattenom-4 reactor	NT3	isar-2 reactor
NT3	stir reactor	NT3	ce standard reactor	NT3	jamesport-1 reactor
NT3	swierk r-2 reactor	NT3	cherokee-1 reactor	NT3	jamesport-2 reactor
NT3	thetis reactor	NT3	cherokee-2 reactor	NT3	kewaunee reactor
NT3	thor reactor	NT3	cherokee-3 reactor	NT3	koeberg-1 reactor
NT3	toshiba reactor	NT3	chinon-b1 reactor	NT3	koeberg-2 reactor
NT3	tr-1 reactor	NT3	civaux-1 reactor	NT3	kori-1 reactor
NT3	tr-2 reactor	NT3	civaux-2 reactor	NT3	kori-2 reactor
NT3	triton reactor	NT3	comanche peak-1 reactor	NT3	kori-3 reactor
NT3	trr-1 reactor	NT3	comanche peak-2 reactor	NT3	kori-4 reactor
NT3	tz1 reactor	NT3	connecticut yankee reactor	NT3	krsko reactor
NT3	tz2 reactor	NT3	cook-1 reactor	NT3	lemoniz-1 reactor
NT3	uknr reactor	NT3	cook-2 reactor	NT3	lemoniz-2 reactor
NT3	umne-1 reactor	NT3	cruas-2 reactor	NT3	lenin reactor
NT3	umrr reactor	NT3	cruas-3 reactor	NT3	leonid brezhnev reactor

NT3	lingao-1 reactor	NT3	remerschen reactor	NT3	watts bar-2 reactor
NT3	lingao-2 reactor	NT3	rheinsberg akw1 reactor	NT3	westinghouse standard reactor
NT3	loft reactor	NT3	ringhals-2 reactor	NT3	wnp-1 reactor
NT3	lucie-1 reactor	NT3	ringhals-3 reactor	NT3	wnp-3 reactor
NT3	lucie-2 reactor	NT3	ringhals-4 reactor	NT3	wnp-4 reactor
NT3	maanshan-1 reactor	NT3	robinson-2 reactor	NT3	wnp-5 reactor
NT3	maine yankee reactor	NT3	rooppur reactor	NT3	wolf creek-1 reactor
NT3	malibu-1 reactor	NT3	rowe yankee reactor	NT3	wup-3 reactor
NT3	marble hill-1 reactor	NT3	s1c prototype reactor	NT3	wup-4 reactor
NT3	marble hill-2 reactor	NT3	saint alban-1 reactor	NT3	wup-5 reactor
NT3	mc guire-1 reactor	NT3	saint alban-2 reactor	NT3	wup-6 reactor
NT3	mc guire-2 reactor	NT3	saint laurent-b1 reactor	NT3	wwer type reactors
NT3	mh-1a reactor	NT3	salem-1 reactor	NT4	armenian-1 reactor
NT3	midland-1 reactor	NT3	salem-2 reactor	NT4	armenian-2 reactor
NT3	midland-2 reactor	NT3	san onofre-1 reactor	NT4	balakovo-1 reactor
NT3	mihama-1 reactor	NT3	san onofre-2 reactor	NT4	balakovo-2 reactor
NT3	mihama-2 reactor	NT3	san onofre-3 reactor	NT4	balakovo-3 reactor
NT3	mihama-3 reactor	NT3	savannah reactor	NT4	balakovo-4 reactor
NT3	millstone-2 reactor	NT3	saxton reactor	NT4	blahutovice-1 reactor
NT3	millstone-3 reactor	NT3	seabrook-1 reactor	NT4	bohunice v-1 reactor
NT3	muelheim-kaerlich reactor	NT3	seabrook-2 reactor	NT4	bohunice v-2 reactor
NT3	mutsu reactor	NT3	selni reactor	NT4	dukovany-1 reactor
NT3	neckar-1 reactor	NT3	sendai-1 reactor	NT4	dukovany-2 reactor
NT3	neckar-2 reactor	NT3	sendai-2 reactor	NT4	dukovany-3 reactor
NT3	nep-1 reactor	NT3	sequoyah-1 reactor	NT4	dukovany-4 reactor
NT3	nep-2 reactor	NT3	sequoyah-2 reactor	NT4	greifswald-1 reactor
NT3	neupotz-1 reactor	NT3	shippingport reactor	NT4	greifswald-2 reactor
NT3	neupotz-2 reactor	NT3	sizewell-b reactor	NT4	greifswald-3 reactor
NT3	nogent sur seine-1 reactor	NT3	sm-1 reactor	NT4	greifswald-4 reactor
NT3	nogent sur seine-2 reactor	NT3	sm-1a reactor	NT4	greifswald-5 reactor
NT3	north anna-1 reactor	NT3	south texas project-1 reactor	NT4	greifswald-6 reactor
NT3	north anna-2 reactor	NT3	south texas project-2 reactor	NT4	juragua-1 reactor
NT3	north anna-3 reactor	NT3	stade reactor	NT4	kalinin-1 reactor
NT3	north anna-4 reactor	NT3	sterling-1 reactor	NT4	kalinin-3 reactor
NT3	north coast-1 reactor	NT3	sterling-2 reactor	NT4	kecerovce-1 reactor
NT3	obrigheim reactor	NT3	summer-1 reactor	NT4	khmelnitskij-1 reactor
NT3	oconee-1 reactor	NT3	sundesert-1 reactor	NT4	kola-1 reactor
NT3	oconee-2 reactor	NT3	sundesert-2 reactor	NT4	kola-2 reactor
NT3	oconee-3 reactor	NT3	surry-1 reactor	NT4	kola-3 reactor
NT3	oi-1 reactor	NT3	surry-2 reactor	NT4	kola-4 reactor
NT3	oi-2 reactor	NT3	surry-3 reactor	NT4	kozloduy-1 reactor
NT3	oi-3 reactor	NT3	surry-4 reactor	NT4	kozloduy-2 reactor
NT3	oi-4 reactor	NT3	takahama-1 reactor	NT4	kozloduy-3 reactor
NT3	oktemberyan-2 reactor	NT3	takahama-2 reactor	NT4	kozloduy-4 reactor
NT3	olkiluoto-3 reactor	NT3	takahama-3 reactor	NT4	kozloduy-5 reactor
NT3	otto hahn reactor	NT3	takahama-4 reactor	NT4	kozloduy-6 reactor
NT3	palisades-1 reactor	NT3	three mile island-1 reactor	NT4	kudankulam-1 reactor
NT3	palo verde-1 reactor	NT3	three mile island-2 reactor	NT4	kudankulam-2 reactor
NT3	palo verde-2 reactor	NT3	tihange-2 reactor	NT4	loviisa-1 reactor
NT3	palo verde-3 reactor	NT3	tihange-3 reactor	NT4	loviisa-2 reactor
NT3	palo verde-4 reactor	NT3	tihange reactor	NT4	mochovce-1 reactor
NT3	palo verde-5 reactor	NT3	tomari-1 reactor	NT4	mochovce-2 reactor
NT3	paluel-1 reactor	NT3	tomari-2 reactor	NT4	novovoronezh-1 reactor
NT3	paluel-2 reactor	NT3	tricastin-1 reactor	NT4	novovoronezh-2 reactor
NT3	paluel-3 reactor	NT3	tricastin-4 reactor	NT4	novovoronezh-3 reactor
NT3	paluel-4 reactor	NT3	trillo-1 reactor	NT4	novovoronezh-4 reactor
NT3	pat reactor	NT3	trojan reactor	NT4	novovoronezh-5 reactor
NT3	pebble springs-1 reactor	NT3	tsuruga-2 reactor	NT4	paks-1 reactor
NT3	pebble springs-2 reactor	NT3	turkey point-3 reactor	NT4	paks-2 reactor
NT3	penly-1 reactor	NT3	turkey point-4 reactor	NT4	paks-3 reactor
NT3	perkins-1 reactor	NT3	tva-1 reactor	NT4	paks-4 reactor
NT3	perkins-2 reactor	NT3	tva-2 reactor	NT4	rovno-1 reactor
NT3	perkins-3 reactor	NT3	tyrone-1 reactor	NT4	rovno-2 reactor
NT3	philippsburg-2 reactor	NT3	tyrone-2 reactor	NT4	rovno-3 reactor
NT3	pilgrim-2 reactor	NT3	ulchin-1 reactor	NT4	rovno-4 reactor
NT3	pilgrim-3 reactor	NT3	ulchin-2 reactor	NT4	rovno-5 reactor
NT3	pm-2a reactor	NT3	ulchin-3 reactor	NT4	south ukrainian-1 reactor
NT3	pm-3a reactor	NT3	ulchin-4 reactor	NT4	south ukrainian-2 reactor
NT3	pnp-1 reactor	NT3	unterweser reactor	NT4	south ukrainian-3 reactor
NT3	point beach-1 reactor	NT3	vahnum-1 reactor	NT4	stendal-1 reactor
NT3	point beach-2 reactor	NT3	vahnum-2 reactor	NT4	tatarian reactor
NT3	prairie island-1 reactor	NT3	vandellos-2 reactor	NT4	temelin-1 reactor
NT3	prairie island-2 reactor	NT3	vogle-1 reactor	NT4	temelin-2 reactor
NT3	qinshan-1 reactor	NT3	vogle-2 reactor	NT4	tianwan-1 reactor
NT3	qinshan-2-1 reactor	NT3	vogle-3 reactor	NT4	zaporozhe-1 reactor
NT3	qinshan-2-2 reactor	NT3	vogle-4 reactor	NT4	zaporozhe-2 reactor
NT3	quanicassee-1 reactor	NT3	waterford-3 reactor	NT4	zaporozhe-3 reactor
NT3	quanicassee-2 reactor	NT3	waterford-4 reactor	NT4	zaporozhe-4 reactor
NT3	rancho seco-1 reactor	NT3	watts bar-1 reactor	NT4	zaporozhe-5 reactor

NT4 zaporozhe-6 reactor  
NT3 wyhl-1 reactor  
NT3 wyhl-2 reactor  
NT3 yellow creek-1 reactor  
NT3 yellow creek-2 reactor  
NT3 yongggwang-1 reactor  
NT3 yongggwang-2 reactor  
NT3 yongggwang-3 reactor  
NT3 yongggwang-4 reactor  
NT3 zion-1 reactor  
NT3 zion-2 reactor  
NT3 zorita-1 reactor  
NT2 r-2 reactor  
NT2 ra-5 reactor  
NT2 rake-2 reactor  
NT2 rg-1m reactor  
NT2 safari-1 reactor  
NT2 sm-2 reactor  
NT2 spert-1 reactor  
NT2 spert-2 reactor  
NT2 spert-3 reactor  
NT2 sr-1 reactor  
NT2 sr-0a reactor  
NT2 tca reactor  
NT2 triga type reactors  
NT3 affri reactor  
NT3 atrp reactor  
NT3 colorado triga-mk-3 reactor  
NT3 cornell triga-mk-2 reactor  
NT3 dow triga-mk-1 reactor  
NT3 fir-1 reactor  
NT3 fir-2 reactor  
NT3 frm reactor  
NT3 gulf triga-mk-3 reactor  
NT3 kartini-ppny reactor  
NT3 lopra reactor  
NT3 nscr reactor  
NT3 ostr reactor  
NT3 prpr reactor  
NT3 pstr reactor  
NT3 rtp reactor  
NT3 trico reactor  
NT3 triga-1-arizona reactor  
NT3 triga-1-california reactor  
NT3 triga-1-hanford reactor  
NT3 triga-1-hanover reactor  
NT3 triga-1-heidelberg reactor  
NT3 triga-1-michigan reactor  
NT3 triga-2-bandung reactor  
NT3 triga-2-bangladesh reactor  
NT3 triga-2-dalat reactor  
NT3 triga-2-illinois reactor  
NT3 triga-2-kansas reactor  
NT3 triga-2-ljubljana reactor  
NT3 triga-2-mainz reactor  
NT3 triga-2-musashi reactor  
NT3 triga-2-pavia reactor  
NT3 triga-2-pitesti reactor  
NT3 triga-2 reactor  
NT3 triga-2-rikkyo reactor  
NT3 triga-2-rome reactor  
NT3 triga-2-seoul reactor  
NT3 triga-2-vienna reactor  
NT3 triga-3-la jolla reactor  
NT3 triga-3-munich reactor  
NT3 triga-3-salazar reactor  
NT3 triga-3-seoul reactor  
NT3 triga-brazil reactor  
NT3 triga-texas reactor  
NT3 triga-veterans reactor  
NT3 ucbr reactor  
NT3 uwnr reactor  
NT3 wsur reactor  
NT2 tsr-2 reactor  
NT2 twmr reactor  
NT2 venus reactor  
NT2 voronezh ast-500 reactor  
NT2 wntr reactor  
NT2 wtr reactor

NT2 wwr type reactors  
NT3 budapest training reactor  
NT3 irt-1 libya reactor  
NT3 irt-baghdad reactor  
NT3 lvr-15 reactor  
NT3 wwr-2 reactor  
NT3 wwr-k-almaty reactor  
NT3 wwr-m-kiev reactor  
NT3 wwr-m-leningrad reactor  
NT3 wwr-s-bucharest reactor  
NT3 wwr-s-budapest reactor  
NT3 wwr-s-cairo reactor  
NT3 wwr-s-moscow reactor  
NT3 wwr-s-prague reactor  
NT3 wwr-s-tashkent reactor  
NT3 wwr-sm rossendorf reactor  
NT3 wwr-z reactor  
NT2 zlfr reactor  
RT criticality  
RT excursions  
RT fission  
RT fission products  
RT fuel elements  
RT hybrid reactors  
RT natural nuclear reactors  
RT nuclear engineering  
RT nuclear fuels  
RT reactor safety  
RT reactor technology  
RT spent fuels

### READOUT SYSTEMS

RT data acquisition systems  
RT recording systems

### REAGENTS

1996-10-23

NT1 1-nitroso-2-naphthol  
NT1 acetylacetone  
NT1 alizarin  
NT1 arsenazo  
NT1 bromosulfophthalein  
NT1 cupferron  
NT1 dimethylglyoxime  
NT1 dithiols  
NT2 dimercaprol  
NT2 unithiol  
NT1 dithizone  
NT1 evans blue  
NT1 ferroin  
NT1 ferrous  
NT1 morin  
NT1 phenanthroline-ortho  
NT1 pyridylazoresorcinol  
NT1 rhodamines  
NT1 rhodizonic acid  
NT1 rose bengal  
NT1 sensitizers  
NT1 starch  
NT1 thionalide  
NT1 thiorin  
NT1 tiron  
RT reducing agents

### REAKTORSICHERHEITSKOMMISSION

INIS: 1978-01-13; ETDE: 1978-03-03

\*BT1 german fr organizations

### REAL TIME SYSTEMS

NT1 mwd systems  
RT analog systems  
RT computer architecture  
RT computer networks  
RT computers  
RT control systems  
RT on-line control systems  
RT on-line systems  
RT process computers  
RT transfer functions

### REARING

NT1 mass rearing  
RT animal growth  
RT diet  
RT domestic animals  
RT insects  
RT nutrition

### reattore bologna-1

USE rb-1 reactor

### reattore bologna-2

USE rb-2 reactor

### reattore bologna-3

USE rb-3 reactor

### reattore casaccia-1

USE triga-2-rome reactor

### reattore casaccia-4

USE ritmo reactor

### reattore organico sperimentale

#### potenza zero

2000-04-12

USE rospo reactor

### RECEIPTS

INIS: 2000-04-12; ETDE: 1980-08-12

RT fuel supplies  
RT trade

### receivers (solar)

INIS: 1992-05-29; ETDE: 1979-09-26

USE solar receivers

### RECEPTORS

INIS: 1978-04-21; ETDE: 1978-07-06

\*BT1 membrane proteins  
RT biochemistry  
RT bioelectricity  
RT calmodulin  
RT central nervous system  
RT endocrine glands  
RT enzymes  
RT hippocampus  
RT hormones  
RT immunity  
RT nerve cells  
RT radioreceptor assay  
RT sense organs  
RT tamoxifen

### RECESSIVE MUTATIONS

BT1 mutations

### recharge

INIS: 2000-04-12; ETDE: 1995-05-09

SEE groundwater recharge

### reciprocal translocations

USE chromosomal aberrations

### RECIPROCAL V LAW

INIS: 1975-09-26; ETDE: 1975-10-28

UF  $1/v$  law  
RT cross sections

### reclamation

INIS: 2000-04-12; ETDE: 1979-12-10

SEE land reclamation

### recoil chemistry

USE hot atom chemistry

### recoil distance method

INIS: 1984-01-18; ETDE: 1984-02-10

Method for the determination of lifetimes of nuclear levels.

USE charge plunger method

**RECOILLESS FRACTION**

2000-04-12

RT moessbauer effect

**RECOILS**

1995-05-09

RT chemical state  
 RT delta rays  
 RT fission  
 RT hot atom chemistry  
 RT knock-on  
 RT knock-out reactions  
 RT moessbauer effect  
 RT proton detection  
 RT proton recoil detectors  
 RT radiation effects

**RECOMBINANT DNA**

INIS: 1984-07-20; ETDE: 1981-04-17

\*BT1 dna  
 RT biotechnology  
 RT crossing-over  
 RT dna hybridization  
 RT gene amplification  
 RT gene mutations  
 RT gene recombination  
 RT oligonucleotides

**RECOMBINATION***Of electrons, holes, ions, radicals or atoms.*

UF neutralization (physical)  
 RT electron capture  
 RT radiation chemistry

**recombination (genetic)**

USE gene recombination

**RECOMBINERS**

RT reactor cooling systems  
 RT water

**RECOMMENDATIONS**

UF guidelines  
 UF radiation protection guides  
 RT agreements  
 RT cen  
 RT compliance  
 RT iaea  
 RT icrp  
 RT icru  
 RT implementation  
 RT inspection  
 RT international electrotechnical commission  
 RT iso  
 RT legal aspects  
 RT licensing  
 RT manuals  
 RT radiation protection  
 RT reference man  
 RT regulations  
 RT regulatory guides  
 RT research programs  
 RT safety standards  
 RT solas convention

**recorded information**

2000-03-28

SEE data

**RECORDING SYSTEMS**

RT counting techniques  
 RT data acquisition  
 RT data acquisition systems  
 RT data processing  
 RT electrocardiograms  
 RT electronic equipment  
 RT measuring instruments  
 RT readout systems

**RECORDS MANAGEMENT**

INIS: 1992-04-02; ETDE: 1983-11-09

BT1 management  
 RT information

**records retrieval**

USE information retrieval

**recovery**

2000-04-12

(Prior to June 1992 this was a valid ETDE descriptor.)

SEE biological recovery  
 SEE energy recovery  
 SEE enhanced recovery  
 SEE materials recovery  
 SEE primary recovery  
 SEE seed recovery  
 SEE tritium recovery

**recovery (biological)**

USE biological recovery

**recovery (tritium)**

ETDE: 1975-09-11

USE tritium recovery

**RECREATIONAL AREAS**

INIS: 1985-09-09; ETDE: 1977-06-21

SF parks  
 RT aesthetics  
 RT environment  
 RT land use  
 RT public lands  
 RT recreational vehicles  
 RT sport facilities  
 RT tourism

**RECREATIONAL VEHICLES**

INIS: 2000-04-12; ETDE: 1979-07-18

BT1 vehicles  
 RT motorboats  
 RT occupants  
 RT recreational areas

**RECRYSTALLIZATION**

RT annealing  
 RT crystallization  
 RT grain growth  
 RT heat treatments

**RECTAL ADMINISTRATION**

INIS: 1975-10-29; ETDE: 1976-08-24

BT1 intake  
 RT intestinal absorption  
 RT uptake

**RECTANGULAR CONFIGURATION**

BT1 configuration  
 NT1 square configuration  
 RT plates

**RECTENNAS**

2000-04-12

*A device that converts microwave energy into direct current.*

\*BT1 antennas  
 RT microwave power transmission

**RECTIFIER TUBES**

1996-06-26

(Prior to June 1996 CAPACITRONS was a valid ETDE descriptor.)

UF capacitrons  
 BT1 electron tubes  
 \*BT1 rectifiers  
 NT1 ignitrons  
 RT thyratrons

**RECTIFIERS**

UF ac to dc converters  
 \*BT1 electrical equipment

NT1 rectifier tubes  
 NT2 ignitrons  
 NT1 semiconductor rectifiers  
 RT dc to dc converters  
 RT thyristors

**RECTISOL PROCESS**

2000-04-12

*Process using methanol as solvent for removal of carbon dioxide, hydrogen sulfide, ammonia, HCN, gum formers, higher hydrocarbons, and other impurities from crude gas produced by coal gasification for syngas or sng manufacture; removal of hydrogen sulfide, COS and carbon dioxide from reformed gas, in particular from gas produced by partial oxidation of hydrocarbons, to yield synthesis gas; and integration of gas purification with low-temperature plants (liquefaction and fractionation) for removal of moderate contents of acidic components.*

\*BT1 desulfurization  
 RT sasol-ii process

**RECTUM**

\*BT1 large intestine  
 RT feces  
 RT pelvis  
 RT proctitis

**recurrence relations**

INIS: 1984-04-04; ETDE: 2002-05-03

USE recursion relations

**RECURSION RELATIONS**

UF recurrence relations  
 RT differential equations  
 RT functions

**recycle (nuclear fuel)**

USE fuel cycle

**RECYCLING**

INIS: 1981-05-11; ETDE: 1975-11-11

RT energy conservation  
 RT materials handling  
 RT materials recovery  
 RT resource conservation  
 RT scrap  
 RT thermonuclear fuels  
 RT waste oil refineries  
 RT waste oils  
 RT waste processing  
 RT wastes

**recycling (nuclear fuel)**

2000-04-12

USE reprocessing

**RED DWARF STARS**

\*BT1 dwarf stars

**RED GIANT STARS**

\*BT1 giant stars  
 RT helium burning

**red level-3 reactor**

ETDE: 2002-05-03

USE crystal river-3 reactor

**red level-4 reactor**

ETDE: 2002-05-03

USE crystal river-4 reactor

**red peppers**

INIS: 1984-04-04; ETDE: 2001-01-23

USE peppers

**RED SEA**

\*BT1 seas  
 NT1 gulf of suex  
 RT egyptian arab republic  
 RT sudan



**RED SHIFT**

INIS: 1975-10-31; ETDE: 1975-12-17

- RT astrophysics
- RT cosmology
- RT doppler effect
- RT einstein effect
- RT hubble effect

**red wing prairie island-1 reactor**

INIS: 1993-11-09; ETDE: 2002-05-03

USE prairie island-1 reactor

**red wing prairie island-2 reactor**

INIS: 1993-11-09; ETDE: 2002-05-03

USE prairie island-2 reactor

**red mud event**

INIS: 2000-04-12; ETDE: 1979-12-10

A test made during OPERATION FULCRUM.

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE nuclear explosions
- USE underground explosions

**REDOX FUEL CELLS**

INIS: 1992-05-20; ETDE: 1975-08-19

- \*BT1 regenerative fuel cells
- RT off-peak energy storage

**REDOX POTENTIAL**

- UF eh (redox potential)
- RT oxidation
- RT potentiometry
- RT reduction
- RT valence

**REDOX PROCESS**

- \*BT1 reprocessing
- RT ascorbic acid
- RT coenzymes
- RT cytochromes
- RT oxidoreductases
- RT solvent extraction

**REDOX REACTIONS**

1992-01-21

- BT1 chemical reactions
- RT hydroaromatics
- RT oxidation
- RT reduction

**reduced nicotinamide-adenine dinucleotide**

INIS: 2000-04-12; ETDE: 1980-06-22

USE nadh2

**REDUCING AGENTS**

INIS: 1980-11-07; ETDE: 1976-09-14

- RT reagents
- RT reduction

**reductases**

USE oxidoreductases

**REDUCTION**

For chemical reactions only; for size or volume change, see COMPRESSION, SHRINKAGE, or CONTRACTION.

- UF deoxidation
- UF disproportionation
- BT1 chemical reactions
- NT1 bomb reduction
- NT1 selective catalytic reduction
- NT1 thermite process
- RT jones reductor
- RT kroll process
- RT methanation
- RT oxidation
- RT oxidoreductases
- RT pyrometallurgy
- RT redox potential
- RT redox reactions

RT reducing agents

**REDUCTIVE EXTRACTION**

1999-07-14

- \*BT1 extraction
- RT molten salt reactors

**reductive perturbation method**

USE perturbation theory

**REDUNDANCY**

2004-02-18

The existence of more than one means in a system to accomplish a certain purpose, in order to increase reliability; e.g. parallel devices in an engineered system, multiple organs in a biological system, several copies of data in an information system. Coordinate with specific descriptor for the system/organ/data that is redundant.

- RT biological evolution
- RT communications
- RT computerized control systems
- RT data
- RT failure mode analysis
- RT information theory
- RT reliability

**REDWING PROJECT**

- UF project redwing
- RT atmospheric explosions
- RT bikini
- RT nuclear explosions
- RT nuclear weapons
- RT surface explosions

**REEDS**

INIS: 2000-04-06; ETDE: 1986-01-14

- \*BT1 gramineae
- NT1 sugar cane

**REEFS**

INIS: 1992-06-04; ETDE: 1980-04-14

Chains of rocks or sand near the surface of water.

- BT1 geologic structures
- RT rocks
- RT sand
- RT seas

**REENTRY**

- UF re-entry
- RT ablation
- RT aerodynamics
- RT missiles
- RT parachutes
- RT plasma sheath
- RT rockets
- RT space flight
- RT space vehicles

**REENTRY VEHICLES**

INIS: 1993-03-23; ETDE: 1975-12-16

- \*BT1 space vehicles
- RT flight testing
- RT missiles

**REFERENCE MAN**

- UF standard man
- RT adults
- RT icrp
- RT man
- RT radiation protection
- RT recommendations

**reference materials (bio mark)**

INIS: 1984-10-23; ETDE: 1984-11-08

USE biological markers

**reference materials (standard)**

INIS: 1984-10-23; ETDE: 1984-11-08

USE calibration standards

**REFERENCE THETA PINCH REACTOR**

- \*BT1 pulsed d-t reactors
- RT theta pinch
- RT toroidal theta pinch devices

**refinement (grain)**

USE grain refinement

**refiner-marketers**

INIS: 1992-04-03; ETDE: 1979-10-03

USE marketers

**REFINERY GASES**

INIS: 2000-04-12; ETDE: 1976-01-23

Boiling point range -160 to 0 degrees C.

- UF still gas
- \*BT1 gases
- \*BT1 petroleum fractions
- BT1 petroleum products
- RT fuel gas
- RT natural gas
- RT petroleum refineries

**REFINING**

2000-02-01

- UF aurabon process
- BT1 processing
- NT1 electrorefining
- NT1 gulf hds process
- NT1 zone refining
- RT catalytic reforming
- RT chloride volatility process
- RT dewaxing
- RT enrichment
- RT extractive metallurgy
- RT fluoride volatility process
- RT ore processing
- RT petroleum products
- RT purification
- RT separation processes
- RT sublimation

**reflectance (spectral)**

INIS: 1984-04-04; ETDE: 2002-05-03

USE spectral reflectance

**REFLECTION**

- NT1 bragg reflection
- NT1 optical reflection
- RT albedo
- RT backscattering
- RT electrostatic mirrors
- RT greenhouse effect
- RT incidence angle
- RT mirrors
- RT parabolic reflectors

**REFLECTIVE COATINGS**

INIS: 1985-01-17; ETDE: 1979-02-23

- BT1 coatings
- RT antireflection coatings
- RT heat mirrors
- RT optical properties
- RT solar control films

**REFLECTIVITY**

1992-02-23

- \*BT1 optical properties
- BT1 surface properties
- RT scanning light microscopy
- RT spectral reflectance
- RT visible radiation

**REFLECTOR SAVINGS**

A measure of the decrease in the critical size of a reactor as a consequence of the reflector.

- RT configuration control
- RT critical mass
- RT critical size
- RT criticality



**NT1** technetium compounds  
**NT2** pertechnetates  
**NT2** technetates  
**NT2** technetium bromides  
**NT2** technetium carbides  
**NT2** technetium chlorides  
**NT2** technetium fluorides  
**NT2** technetium hydrides  
**NT2** technetium iodides  
**NT2** technetium oxides  
**NT2** technetium phosphates  
**NT2** technetium selenides  
**NT2** technetium sulfides  
**NT1** tungsten compounds  
**NT2** tungstates  
**NT3** aluminium tungstates  
**NT3** ammonium tungstates  
**NT3** barium tungstates  
**NT3** bismuth tungstates  
**NT3** cadmium tungstates  
**NT3** calcium tungstates  
**NT3** cerium tungstates  
**NT3** cesium tungstates  
**NT3** cobalt tungstates  
**NT3** copper tungstates  
**NT3** dysprosium tungstates  
**NT3** erbium tungstates  
**NT3** gadolinium tungstates  
**NT3** indium tungstates  
**NT3** iron tungstates  
**NT3** lanthanum tungstates  
**NT3** lead tungstates  
**NT3** lithium tungstates  
**NT3** lutetium tungstates  
**NT3** manganese tungstates  
**NT3** neodymium tungstates  
**NT3** nickel tungstates  
**NT3** potassium tungstates  
**NT3** praseodymium tungstates  
**NT3** rubidium tungstates  
**NT3** samarium tungstates  
**NT3** scandium tungstates  
**NT3** silver tungstates  
**NT3** sodium tungstates  
**NT3** strontium tungstates  
**NT3** tantalum tungstates  
**NT3** thallium tungstates  
**NT3** tin tungstates  
**NT3** titanium tungstates  
**NT3** ytterbium tungstates  
**NT3** yttrium tungstates  
**NT3** zinc tungstates  
**NT3** zirconium tungstates  
**NT2** tungsten borides  
**NT2** tungsten bromides  
**NT2** tungsten carbides  
**NT2** tungsten chlorides  
**NT2** tungsten fluorides  
**NT2** tungsten hydrides  
**NT2** tungsten hydroxides  
**NT2** tungsten iodides  
**NT2** tungsten nitrides  
**NT2** tungsten oxides  
**NT3** sodium tungsten bronze  
**NT2** tungsten phosphides  
**NT2** tungsten selenides  
**NT2** tungsten silicides  
**NT2** tungsten sulfides  
**NT2** tungsten tellurides  
**NT2** tungstophosphates  
**NT2** tungstophosphoric acid

**REFRACTORY METALS**

*INIS: 2000-03-27; ETDE: 1977-06-02*

\*BT1 metals

**NT1** hafnium  
**NT2** hafnium-alpha  
**NT2** hafnium-beta  
**NT1** iridium

**NT1** molybdenum  
**NT1** niobium  
**NT2** niobium-alpha  
**NT2** niobium-beta  
**NT1** osmium  
**NT1** rhenium  
**NT1** rhodium  
**NT1** ruthenium  
**NT1** tantalum  
**NT1** technetium  
**NT1** tungsten  
**NT2** tungsten-alpha  
**RT** heat resisting alloys  
**RT** refractories

**REFRIGERANTS**

*INIS: 1978-04-21; ETDE: 1977-11-09*

\*BT1 working fluids  
**RT** ammonia  
**RT** chlorofluorocarbons  
**RT** coolants  
**RT** cryogenic fluids  
**RT** freons  
**RT** halogenated aliphatic hydrocarbons  
**RT** hydrocarbons  
**RT** organic coolants  
**RT** organic halogen compounds  
**RT** refrigeration

**REFRIGERATING MACHINERY**

*INIS: 1992-03-10; ETDE: 1975-11-11*

*Machinery for cooling a volume to a temperature below that of the surrounding environment.*

\*BT1 machinery  
**RT** absorption refrigeration cycle  
**RT** air conditioners  
**RT** air conditioning  
**RT** coefficient of performance  
**RT** cooling systems  
**RT** refrigeration  
**RT** refrigerators  
**RT** vapor compression refrigeration cycle

**REFRIGERATION**

(From May 1981 to February 1997 COLD RECOVERY was a valid ETDE descriptor.)

**SF** cold recovery  
**BT1** cooling  
**NT1** geothermal refrigeration  
**NT1** helium dilution refrigeration  
**NT1** solar refrigeration  
**RT** absorption refrigeration cycle  
**RT** heat pumps  
**RT** magnetic refrigerators  
**RT** refrigerants  
**RT** refrigerating machinery  
**RT** refrigerators  
**RT** vapor compression refrigeration cycle

**REFRIGERATORS**

*INIS: 1980-04-02; ETDE: 1975-10-01*

*Insulated containments cooled by refrigerating machinery.*

**NT1** helium dilution refrigerators  
**NT1** magnetic refrigerators  
**NT1** solar refrigerators  
**NT1** thermoelectric refrigerators  
**RT** absorption refrigeration cycle  
**RT** coefficient of performance  
**RT** cooling systems  
**RT** cryostats  
**RT** electric appliances  
**RT** freezers  
**RT** gas appliances  
**RT** helium dilution refrigeration  
**RT** refrigerating machinery  
**RT** refrigeration  
**RT** vapor compression refrigeration cycle  
**RT** water coolers

**refueling water systems**

2000-04-12

USE auxiliary water systems

**refuse**

USE solid wastes

**REFUSE DERIVED FUELS**

*INIS: 1992-04-09; ETDE: 1976-11-01*

*Fuels prepared from solid municipal or industrial wastes by removing all non-combustible materials, and put into burnable form.*

**UF** rdf  
**BT1** fuels  
**RT** industrial wastes  
**RT** municipal wastes  
**RT** refuse-fueled power plants  
**RT** resource recovery facilities  
**RT** solid wastes  
**RT** synthetic fuels

**REFUSE-FUELED BOILERS**

*INIS: 1992-05-18; ETDE: 1979-05-09*

**UF** waste-fueled boilers  
**BT1** boilers  
**RT** refuse-fueled power plants

**REFUSE-FUELED POWER PLANTS**

*INIS: 1992-04-09; ETDE: 1979-03-27*

**UF** waste-fueled power plants  
 \*BT1 thermal power plants  
**RT** cogeneration  
**RT** dual-purpose power plants  
**RT** power generation  
**RT** refuse derived fuels  
**RT** refuse-fueled boilers  
**RT** steam generation

**regenerating liver**

USE biological regeneration

**REGENERATION**

1981-11-26

**SF** reactivation  
**RT** heat storage  
**RT** particle production  
**RT** solar heat engines  
**RT** stirling engines  
**RT** waste processing

**regeneration (biological)**

USE biological regeneration

**REGENERATIVE BRAKING**

*INIS: 2000-04-12; ETDE: 1976-03-11*

**RT** brakes  
**RT** electric-powered vehicles

**REGENERATIVE FUEL CELLS**

1992-05-20

\*BT1 fuel cells  
**NT1** redox fuel cells  
**RT** proton exchange membrane fuel cells

**REGENERATORS**

1986-04-04

**NT1** solar regenerators  
**RT** energy storage systems  
**RT** heat exchangers  
**RT** heat storage  
**RT** solar heat engines  
**RT** stirling engines

**REGGE CALCULUS**

**RT** mathematics  
**RT** regge poles  
**RT** relativity theory

**REGGE CUTS**

**RT** regge poles

**REGGE POLES**

- RT abfst equation
- RT conspiracy relations
- RT exchange degeneracy
- RT linear absorption models
- RT lorentz poles
- RT pomeranchuk particles
- RT pomeranchuk poles
- RT quantum field theory
- RT regge calculus
- RT regge cuts
- RT regge trajectories
- RT scattering amplitudes
- RT van hove model

**REGGE TRAJECTORIES**

- RT regge poles

**region i**

INIS: 2000-04-12; ETDE: 1978-07-06

- USE usa

**region ii**

INIS: 2000-04-12; ETDE: 1978-07-06

- USE usa

**region iii**

INIS: 2000-04-12; ETDE: 1978-07-06

- USE usa

**region iv**

INIS: 2000-04-12; ETDE: 1978-07-06

- USE usa

**region ix**

INIS: 2000-04-12; ETDE: 1978-07-06

- USE usa

**region v**

INIS: 2000-04-12; ETDE: 1978-07-06

- USE usa

**region vi**

INIS: 2000-04-12; ETDE: 1978-07-06

- USE usa

**region vii**

INIS: 2000-04-12; ETDE: 1978-07-06

- USE usa

**region viii**

INIS: 2000-04-12; ETDE: 1978-07-06

- USE usa

**region x**

INIS: 2000-04-12; ETDE: 1978-07-06

- USE usa

**REGIONAL ANALYSIS**

Evaluation of the characteristics of a region and their economic, ecological, or social implications.

- RT ecology
- RT economic analysis
- RT economics
- RT environment
- RT fallout
- RT geology
- RT geomorphology
- RT human populations
- RT input-output analysis
- RT land use
- RT regional cooperation
- RT sociology
- RT water use

**REGIONAL COOPERATION**

INIS: 1996-05-06; ETDE: 1978-04-06

- BT1 cooperation
- RT decision making
- RT energy policy
- RT government policies

- RT land use
- RT local government
- RT management
- RT planning
- RT regional analysis
- RT state government

**regional electric reliability councils**

INIS: 2000-04-12; ETDE: 1979-09-27

- USE electric reliability councils

**regolith**

INIS: 2000-03-28; ETDE: 1976-02-20  
(Prior to December 1990, this was a valid descriptor.)

- SEE overburden

**REGRESSION ANALYSIS**

INIS: 1981-07-08; ETDE: 1979-05-09

- \*BT1 statistics
- RT correlations
- RT economic analysis
- RT forecasting

**REGULATING RODS**

UF fine control rods

- \*BT1 control elements
- RT neutron absorbers

**REGULATIONS**

(From August 1979 till March 1997 LEGAL INCENTIVES was a valid ETDE descriptor.)

- SF legal incentives
- BT1 laws
- NT1 building codes
- NT1 contamination regulations
- NT2 maximum acceptable contamination
- NT1 international regulations
- NT2 oecd mcmsdrw
- NT1 licensing regulations
- NT1 packaging rules
- NT1 pollution regulations
- NT1 pricing regulations
- NT1 safeguard regulations
- NT1 transport regulations
- RT administrative procedures
- RT afudc
- RT agreements
- RT amendments
- RT compliance
- RT consumer protection
- RT deregulation
- RT enforcement
- RT executive orders
- RT government policies
- RT horizontal divestiture
- RT implementation
- RT iso
- RT land leasing
- RT legal aspects
- RT legislation
- RT legislative text
- RT licensing
- RT local government
- RT national government
- RT public policy
- RT radiation protection
- RT recommendations
- RT regulatory guides
- RT reporting requirements
- RT resource recovery acts
- RT safety standards
- RT solas convention
- RT state government
- RT us ferc
- RT us public utility regulatory policies act
- RT vertical divestiture
- RT violations

**regulators (voltage)**

- USE voltage regulators

**REGULATORY GUIDES**

Should be used to index all pieces of literature which are regulatory guides.

- BT1 document types
- RT legal aspects
- RT recommendations
- RT regulations
- RT us aec

**REICH-MOORE FORMULA**

- RT nuclear reactions
- RT resonance

**REID POTENTIAL**

- \*BT1 nucleon-nucleon potential
- RT nucleon-nucleon interactions

**reimbursement**

INIS: 2000-04-12; ETDE: 1983-03-23

- USE cost recovery

**reindeer**

- USE deer

**REINFORCED CONCRETE**

- \*BT1 composite materials
- \*BT1 concretes
- \*BT1 reinforced materials
- RT concrete stringers

**REINFORCED MATERIALS**

- UF materials (reinforced)
- BT1 materials
- NT1 reinforced concrete
- NT1 reinforced plastics
- RT building materials
- RT composite materials

**REINFORCED PLASTICS**

- \*BT1 plastics
- \*BT1 reinforced materials

**REINJECTION**

INIS: 2000-04-12; ETDE: 1977-03-08

- RT injection wells
- RT liquid wastes
- RT underground disposal
- RT waste disposal
- RT waste water

**reinluft process**

2000-04-12

Reduction of emission of oxides of sulfur from coal by adsorption of sulfur dioxide on activated char at 300 degrees F, followed by cooling of flue gas to 220 degrees F where sulfur dioxide is oxidized to sulfur trioxide which is then adsorbed on char; sulfur trioxide combines with adsorbed water forming sulfuric acid.

(Prior to March 1994, this was a valid ETDE descriptor.)

- USE desulfurization

**relative biological effectiveness**

- USE rbe

**RELATIVISTIC BEAM INJECTION**

- BT1 beam injection

**relativistic heavy ion collider (bnl)**

INIS: 1993-11-09; ETDE: 2002-05-03

- USE brookhaven rhic

**RELATIVISTIC PLASMA**

- BT1 plasma

**RELATIVISTIC RANGE**

- BT1 energy range
- RT relativity theory

**RELATIVITY THEORY**

NTI general relativity theory  
 NTI special relativity theory  
 RT light cone  
 RT metrics  
 RT minkowski space  
 RT regge calculus  
 RT relativistic range  
 RT space-time

**RELAXATION**

NTI muon spin relaxation  
 NTI spin-lattice relaxation  
 NTI spin-spin relaxation  
 NTI stress relaxation  
 RT de-excitation  
 RT relaxation losses  
 RT relaxation time

**relaxation (stress)**

USE stress relaxation

**RELAXATION LOSSES**

\*BT1 energy losses  
 RT dielectric properties  
 RT dipoles  
 RT relaxation

**RELAXATION TIME**

INIS: 1981-08-18; ETDE: 1980-03-29  
 RT relaxation  
 RT time dependence

**RELAYS**

\*BT1 electrical equipment  
 RT equipment protection devices  
 RT switches  
 RT switching circuits

**release (fission product)**

1980-11-07  
 USE fission product release

**RELEASE LIMITS**

RT radiation hazards  
 RT radioactive wastes  
 RT stack disposal

**releasing factors**

INIS: 1983-02-03; ETDE: 1983-03-07  
 USE liberins

**releasing hormones**

INIS: 1983-02-03; ETDE: 1983-03-07  
 USE liberins

**RELIABILITY**

RT accuracy  
 RT amoeba effect  
 RT errors  
 RT failure mode analysis  
 RT failures  
 RT fault tolerant computers  
 RT hazards  
 RT outages  
 RT performance  
 RT quality assurance  
 RT quality control  
 RT radiation protection  
 RT reactor safety  
 RT redundancy  
 RT risk assessment  
 RT safety margins  
 RT specifications  
 RT systems analysis  
 RT var control systems

**relic radiation**

INIS: 1984-04-25; ETDE: 1984-05-23  
 USE relict radiation

**RELICT RADIATION**

INIS: 1984-04-25; ETDE: 1984-05-23  
*Thermal microwave background radiation of the universe believed to date from the early universe.*  
 UF cmb radiation  
 UF cosmic microwave background  
 UF relic radiation  
 \*BT1 microwave radiation  
 RT background radiation  
 RT cosmic radiation  
 RT universe

**RELIEF VALVES**

1986-04-04  
 UF rupture disks  
 UF safety valves  
 \*BT1 valves

**relieving (stress)**

USE stress relaxation

**RELOADABLE FUEL ASSEMBLIES**

2003-10-21  
*Ring-shaped elements, which can carry different replaceable inner parts; after replacement of the replaceable parts, they can be reloaded into the core for further operation.*  
 BT1 fuel assemblies

**rem**

*For studies concerning units, concepts, or definitions. See also dose equivalents.*  
 USE radiation dose units

**REMEDIATION ACTION**

INIS: 1985-04-23; ETDE: 1984-06-29  
*Activities conducted to reduce potential exposure of people to hazardous materials or ionizing radiation, and potential harm to the environment from hazardous materials contamination.*

UF site rehabilitation  
 SF mine site rehabilitation  
 NTI bioremediation  
 RT abandoned sites  
 RT contamination  
 RT decommissioning  
 RT decontamination  
 RT environmental engineering  
 RT land reclamation  
 RT natural attenuation  
 RT radiation doses  
 RT radiation protection  
 RT tailings  
 RT us superfund

**REMERSCHEN REACTOR**

INIS: 1976-07-19; ETDE: 1976-09-15  
 \*BT1 pwr type reactors

**REMOTE AREAS**

INIS: 1994-10-13; ETDE: 1978-06-14  
 UF isolated locations  
 RT rural areas

**REMOTE CONTROL**

BT1 control  
 RT hydraulic control devices  
 RT remote handling  
 RT servomechanisms

**REMOTE HANDLING**

RT automation  
 RT clean rooms  
 RT contact handling  
 RT distance  
 RT gloveboxes  
 RT hot cells  
 RT hot labs

RT man-machine systems  
 RT manipulators  
 RT materials handling  
 RT materials handling equipment  
 RT periscopes  
 RT radiation protection  
 RT reactor charging machines  
 RT reactor fueling  
 RT remote control  
 RT remote handling equipment  
 RT sample changers  
 RT sample holders  
 RT work

**REMOTE HANDLING EQUIPMENT**

(From August 1979 till March 1997

RETRIEVAL SYSTEMS was a valid ETDE descriptor.)

SF retrieval systems  
 \*BT1 materials handling equipment

NTI cranes

NTI manipulators

RT auxiliary systems

RT hot cells

RT laboratory equipment

RT remote handling

RT remote viewing equipment

RT robots

**REMOTE MULTIPLEXING SYSTEMS**

INIS: 2000-04-12; ETDE: 1978-01-23

*Systems for the remote transmission of data and control signals in power plants or process equipment.*

RT multiplexers

RT on-line control systems

**REMOTE SENSING**

1978-09-28

*Techniques for conducting measurements from aeroplanes or satellites such as for geologic exploration.*

RT acoustic radar

RT aerial monitoring

RT aerial prospecting

RT aerial surveying

RT exploration

RT geophysical surveys

RT geos satellites

RT goes satellites

RT ground truth measurements

RT landsat satellites

RT multispectral photography

RT optical radar

RT satellites

RT seasat satellites

RT thermography

**REMOTE VIEWING EQUIPMENT**

BT1 equipment

RT hot cells

RT laboratory equipment

RT lighting systems

RT optical systems

RT remote handling equipment

RT television

RT video tapes

**REMOVAL**

1991-08-14

UF tioga nitrogen removal process

NTI after-heat removal

NTI cuttings removal

NTI reactor poison removal

NTI water removal

RT deashing

RT fission product release

**removal (after-heat)**

USE after-heat removal

**removal (reactor poison)**

USE reactor poison removal

**RENAL CLEARANCE**

UF clearance (renal)

- \*BT1 excretion
- RT glomeruli
- RT kidneys
- RT metabolism
- RT renography
- RT tubules

**RENE-100**

INIS: 2000-04-12; ETDE: 1978-12-20

- \*BT1 aluminium alloys
- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel base alloys
- \*BT1 titanium alloys

**RENE 41**

1993-10-03

- \*BT1 alloy-ni55cr19co11mo10ti3
- \*BT1 carbon additions
- \*BT1 iron alloys

**RENE 80**

INIS: 1993-10-03; ETDE: 1978-12-20

- \*BT1 aluminium alloys
- \*BT1 boron additions
- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 molybdenum alloys
- \*BT1 nickel base alloys
- \*BT1 titanium alloys
- \*BT1 tungsten alloys
- \*BT1 zirconium additions

**RENE 95**

INIS: 1993-10-03; ETDE: 1976-02-19

- \*BT1 aluminium alloys
- \*BT1 carbon additions
- \*BT1 chromium alloys
- \*BT1 cobalt alloys
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- \*BT1 iron additions
- \*BT1 molybdenum alloys
- \*BT1 nickel base alloys
- \*BT1 niobium alloys
- \*BT1 titanium alloys
- \*BT1 tungsten alloys
- \*BT1 zirconium additions

**RENEWABLE ENERGY SOURCES**

INIS: 1981-02-27; ETDE: 1977-09-19

(From December 1978 till May 1996 RENEWABLE RESOURCES was a valid ETDE descriptor.)

- SF renewable resources
- BT1 energy sources
- NT1 biomass
- NT1 geothermal energy
- NT1 hydroelectric power
- NT1 solar energy
- NT1 tidal power
- NT1 wave power
- NT1 wind power
- RT appropriate technology
- RT plants
- RT synthetic fuels corporation

**renewable resources**

INIS: 2000-04-12; ETDE: 1978-12-11

Organic compounds currently produced by photosynthesis or derived from products of photosynthesis that are utilized by man in the form of plant or animal products.

(Prior to May 1996 this was a valid ETDE descriptor.)

- SEE biomass
- SEE materials
- SEE organic compounds
- SEE renewable energy sources
- SEE resources

**RENIN**

Code numbers 3.4.99.1, 3.4.99.2, and 3.4.99.3.

- \*BT1 nonspecific peptidases
- RT blood pressure
- RT kidneys

**RENOGRAPHY**

1980-05-14

- \*BT1 biomedical radiography
- RT kidneys
- RT renal clearance
- RT tracer techniques

**RENORMALIZATION**

- NT1 charge renormalization
- NT1 mass renormalization
- RT quantum field theory

**RENSSELAER CRITICAL FACILITY**

Rensselaer Polytechnic Inst., Troy, New York, USA.

- \*BT1 zero power reactors

**REPAIR**

- NT1 biological repair
- NT2 dna repair
- NT3 excision repair
- NT2 host-cell reactivation
- NT2 photoreactivation
- RT maintenance
- RT reactor maintenance
- RT reactor operation

**repair (biological)**

- USE biological repair

**repair pathways**

INIS: 1978-11-24; ETDE: 1978-12-20

- USE biological pathways

**REPEALS**

INIS: 2000-04-12; ETDE: 1981-05-18

- RT laws
- RT legal aspects

**REPLACEABLE FUEL ASSEMBLIES**

2003-10-21

Inner parts of annular fuel elements, which can be replaced while the outer parts continue to be operated.

- BT1 fuel assemblies

**REPLICA TECHNIQUES**

- RT ceramography
- RT replicas

**REPLICAS**

- RT crystal models
- RT electron microscopy
- RT replica techniques

**REPLICONS**

INIS: 2000-04-12; ETDE: 1987-04-24

Chromosomal elements which serve as an initiation point for DNA synthesis during cell replication.

- BT1 genes

- RT cell cycle
- RT cell proliferation

**REPORTING REQUIREMENTS**

INIS: 1986-04-03; ETDE: 1980-03-29

Also includes the reports generated as a result of the requirements.

- UF reports required
- UF required reports
- RT administrative procedures
- RT data acquisition
- RT documentation
- RT information needs
- RT regulations

**reports required**

INIS: 1986-04-04; ETDE: 2002-05-03

- USE reporting requirements

**repowering**

INIS: 2000-04-12; ETDE: 1980-10-07

- SEE solar repowering

**representations (irreducible)**

- USE irreducible representations

**representations (nonunitary)**

- USE nonunitary representations

**repressuring**

INIS: 1984-12-04; ETDE: 1976-07-07

- USE pressurization

**REPROCESSING**

1996-07-18

(CARBOX PROCESS, DAREX PROCESS, FLUOROX PROCESS, FLUREX PROCESS, HERMEX PROCESS, NEPTEX PROCESS, PROMEX PROCESS, RAHYD PROCESS, SULFEX PROCESS, and THERMOX PROCESS have been valid descriptors.)

- UF carbox process
- UF darex process
- UF fluorox process
- UF flurex process
- UF fuel reprocessing
- UF hermex process
- UF neptex process
- UF proliferation resistant molten salt/metal extraction
- UF promex process
- UF rahyd process
- UF recycling (nuclear fuel)
- UF sulfex process
- UF thermox process
- SF arco process
- BT1 separation processes
- NT1 airox process
- NT1 amex process
- NT1 chloride volatility process
- NT1 civex process
- NT1 csrex process
- NT1 dapex process
- NT1 diamex process
- NT1 eurex process
- NT1 fluoride volatility process
- NT1 iodox process
- NT1 purex process
- NT1 pyrochemical reprocessing
- NT1 redox process
- NT1 sesame process
- NT1 talspeak process
- NT1 thorex process
- NT1 tramex process
- NT1 truxex process
- NT1 zirflex process
- RT consolidated fuel reprocessing program
- RT decladding
- RT denitration
- RT eurochemic

RT fuel cycle  
 RT fuel reprocessing plants  
 RT head end processes  
 RT nuclear materials management  
 RT process control  
 RT sol-gel process  
 RT solvent extraction  
 RT spent fuel elements  
 RT wackersdorf reprocessing plant  
 RT wak  
 RT zone refining

**REPRODUCTION**

UF *parthenogenesis*  
 RT adults  
 RT animal breeding  
 RT embryos  
 RT female genitals  
 RT fertility  
 RT fertilization  
 RT flowers  
 RT gonads  
 RT life cycle  
 RT male genitals  
 RT mating  
 RT mutations  
 RT nests  
 RT oogenesis  
 RT ovulation  
 RT physiology  
 RT plant breeding  
 RT pollen  
 RT population dynamics  
 RT pregnancy  
 RT progeny  
 RT reproductive disorders  
 RT sex  
 RT spermatogenesis  
 RT spores  
 RT vegetative propagation  
 RT viability  
 RT zygotes

**REPRODUCTIVE DISORDERS**

\*BT1 urogenital system diseases  
 RT abortion  
 RT castration  
 RT endocrine diseases  
 RT fertility  
 RT menstruation disorders  
 RT pregnancy  
 RT reproduction  
 RT sterility

**REPTILES**

1997-06-17

\*BT1 vertebrates  
 NT1 alligators  
 NT1 lizards  
 NT1 snakes  
 NT1 turtles

**REPUBLIC OF GEORGIA**

INIS: 1997-08-20; ETDE: 1993-04-08

(Until January 1993, this was indexed by USSR.)

UF *georgia (republic of)*  
 SF *soviet union*  
 SF *union of soviet socialist republics*  
 SF *ussr*  
 BT1 asia  
 RT black sea  
 RT caucasus

**REPUBLIC OF KOREA**

UF *korea (south)*  
 UF *south korea*  
 BT1 asia  
 BT1 developing countries  
 RT oecd

**REPUBLIC OF SEYCHELLES**

2003-05-20

UF *seychelles (republic of)*

BT1 africa  
 BT1 developing countries

**republic of zaire**

(Prior to September 1997 ZAIRE REPUBLIC was used for this concept in ETDE.)

USE democratic republic of the congo

**republikove uloziste radioaktivnych odpadov v mochovciach**

2002-12-17

USE mochovce radioactive waste repository

**required reports**

INIS: 1986-04-03; ETDE: 2002-05-03

USE reporting requirements

**RESCATTERING**

BT1 scattering  
 RT nuclear reaction kinetics  
 RT nuclear reactions  
 RT strong interactions

**RESCUE OPERATIONS**

INIS: 2000-04-12; ETDE: 1978-09-11

NT1 mine rescue

**RESEARCH AND TEST REACTORS**

BT1 reactors  
 NT1 argonaut type reactors  
 NT2 aeg-pr-10 reactor  
 NT2 arbi reactor  
 NT2 argonaut reactor  
 NT2 argos reactor  
 NT2 athene reactor  
 NT2 jason reactor  
 NT2 lfr reactor  
 NT2 moata reactor  
 NT2 nector reactor  
 NT2 queen mary college utr-b reactor  
 NT2 ra-1 reactor  
 NT2 rb-2 reactor  
 NT2 rien-1 reactor  
 NT2 srrc-utr-100 reactor  
 NT2 stark reactor  
 NT2 strasbourg-cronenbourg reactor  
 NT2 uft reactor  
 NT2 ulyse reactor  
 NT2 urr reactor  
 NT2 utr-10-kinki reactor  
 NT2 vpi-utr-10 reactor  
 NT1 experimental reactors  
 NT2 aps reactor  
 NT2 arbus reactor  
 NT2 atrc reactor  
 NT2 bilibin reactor  
 NT2 bor-60 reactor  
 NT2 borax-1 reactor  
 NT2 borax-2 reactor  
 NT2 borax-3 reactor  
 NT2 borax-4 reactor  
 NT2 br-3-vn reactor  
 NT2 cefr reactor  
 NT2 cesar reactor  
 NT2 dfr reactor  
 NT2 dragon reactor  
 NT2 ebr-1 reactor  
 NT2 ebr-2 reactor  
 NT2 ebwr reactor  
 NT2 egr reactor  
 NT2 el-1 reactor  
 NT2 eocr reactor  
 NT2 esada-vesr reactor  
 NT2 ewg-1 reactor  
 NT2 gcre reactor  
 NT2 hbwr reactor  
 NT2 hdr reactor  
 NT2 hre-2 reactor  
 NT2 htr-10 reactor  
 NT2 httr reactor  
 NT2 igr reactor  
 NT2 ir-100 reactor  
 NT2 joyo reactor  
 NT2 jpdr reactor  
 NT2 jules horowitz reactor  
 NT2 kiwi-tnt reactor  
 NT2 knk-2 reactor  
 NT2 knk reactor  
 NT2 lampre-1 reactor  
 NT2 mh-1a reactor  
 NT2 mir reactor  
 NT2 msre reactor  
 NT2 nrx-a1 reactor  
 NT2 nrx-a2 reactor  
 NT2 nrx-a3 reactor  
 NT2 nrx-a4-est reactor  
 NT2 nrx-a5 reactor  
 NT2 nrx-a6 reactor  
 NT2 nrx-a7 reactor  
 NT2 omre reactor  
 NT2 opal reactor  
 NT2 rover reactors  
 NT2 sefor reactor  
 NT2 spert-1 reactor  
 NT2 spert-2 reactor  
 NT2 spert-3 reactor  
 NT2 spert-4 reactor  
 NT2 sre reactor  
 NT2 subcritical assemblies  
 NT3 pse reactor  
 NT3 stsf assembly  
 NT2 topaz reactor  
 NT2 tory-2a reactor  
 NT2 tory-2c reactor  
 NT2 treat reactor  
 NT2 tz1 reactor  
 NT2 tz2 reactor  
 NT2 uhtrex reactor  
 NT2 venus reactor  
 NT2 vhtr reactor  
 NT2 xe-2 reactor  
 NT2 xe-prime reactor  
 NT2 xma-1 reactor  
 NT2 zero power reactors  
 NT3 agata reactor  
 NT3 akr-1 reactor  
 NT3 anex reactor  
 NT3 anna reactor  
 NT3 apfa-3 reactor  
 NT3 aquilon reactor  
 NT3 bfs reactor  
 NT3 big ten reactor  
 NT3 cfmf reactor  
 NT3 cml reactor  
 NT3 coral-1 reactor  
 NT3 crocus reactor  
 NT3 dca reactor  
 NT3 dimple reactor  
 NT3 ecel reactor  
 NT3 ermine reactor  
 NT3 etrc reactor  
 NT3 fca reactor  
 NT3 flattop reactor  
 NT3 fr-0 reactor  
 NT3 godiva reactor  
 NT3 hero reactor  
 NT3 hitrex-1 reactor  
 NT3 horace reactor  
 NT3 hwzpr reactor  
 NT3 iea-zpr reactor  
 NT3 ifr reactor  
 NT3 ipen-mb-1 reactor  
 NT3 jezebel reactor  
 NT3 juno reactor  
 NT3 kahter reactor

NT3	kbr-1 reactor
NT3	kritz reactor
NT3	kuca reactor
NT3	lptf reactor
NT3	lr-0 reactor
NT3	lvr-15 reactor
NT3	marius reactor
NT3	maryla reactor
NT3	masurca reactor
NT3	minerve reactor
NT3	neptune reactor
NT3	nsf-rfp reactor
NT3	or-cef reactor
NT3	ornl-pca reactor
NT3	parka reactor
NT3	pdp reactor
NT3	peggy reactor
NT3	pelinduna reactor
NT3	plasma core assembly
NT3	prcf reactor
NT3	ptf-unc reactor
NT3	purnima-2 reactor
NT3	purnima reactor
NT3	r-b reactor
NT3	ra-0 reactor
NT3	ra-2 reactor
NT3	ra-8 reactor
NT3	rake-2 reactor
NT3	rb-1 reactor
NT3	rb-3 reactor
NT3	rensselaer critical facility
NT3	ritmo reactor
NT3	rosopo reactor
NT3	saref reactor
NT3	shca reactor
NT3	silene reactor
NT3	silhouette reactor
NT3	sneak reactor
NT3	split table reactor
NT3	sr-0a reactor
NT3	stacy reactor
NT3	tca reactor
NT3	tr-0 reactor
NT3	tracy reactor
NT3	vera reactor
NT3	zebra reactor
NT3	zeep reactor
NT3	zenith reactor
NT3	zephyr reactor
NT3	zerlina reactor
NT3	zlfcr reactor
NT3	zppr reactor
NT3	zpr-3 reactor
NT3	zpr-6 reactor
NT3	zpr-9 reactor
NT3	zpr reactor
NT3	zr-6 reactor
NT2	zrr reactor
NT1	kalpakkam pfr reactor
NT1	kamini reactor
NT1	maple reactor
NT1	maple type reactors
NT1	maria reactor
NT1	nuclear furnace reactor
NT1	purnima-3 reactor
NT1	research reactors
NT2	aarr reactor
NT2	acpr reactor
NT2	aeg-pr-10 reactor
NT2	aerojet-general nucleonics reactors
NT2	afrrr reactor
NT2	afsr reactor
NT2	agata reactor
NT2	ai-1-77 reactor
NT2	alrr reactor
NT2	anna reactor
NT2	aprf reactor
NT2	apsara reactor
NT2	arbi reactor
NT2	argonaut reactor
NT2	argos reactor
NT2	argus reactor
NT2	armf-1 reactor
NT2	astra reactor
NT2	athene reactor
NT2	atpr reactor
NT2	atsr reactor
NT2	avogadro rs-1 reactor
NT2	bam reactor
NT2	bepo reactor
NT2	ber-2 reactor
NT2	bgrr reactor
NT2	bigr reactor
NT2	bir reactor
NT2	br-02 reactor
NT2	br-1 reactor
NT2	brr reactor
NT2	bsr-1 reactor
NT2	bsr-2 reactor
NT2	byu 1-77 reactor
NT2	cabri reactor
NT2	cesar reactor
NT2	cesnef reactor
NT2	cirus reactor
NT2	clementine reactor
NT2	consort-2 reactor
NT2	coral-1 reactor
NT2	cp-2 reactor
NT2	cp-3 reactor
NT2	cp-3m reactor
NT2	cp-5 reactor
NT2	cp-6 reactor
NT2	crocus reactor
NT2	democritus reactor
NT2	dhruva reactor
NT2	dido reactor
NT2	diorit reactor
NT2	dmtr reactor
NT2	dow triga-mk-1 reactor
NT2	dr-1 reactor
NT2	dr-2 reactor
NT2	dr-3 reactor
NT2	ebor reactor
NT2	ebr-1 reactor
NT2	eco reactor
NT2	el-1 reactor
NT2	el-2 reactor
NT2	el-3 reactor
NT2	eocr reactor
NT2	eole reactor
NT2	es-salam reactor
NT2	etr reactor
NT2	etrc reactor
NT2	etr-1 reactor
NT2	etr-2 reactor
NT2	ewa reactor
NT2	f-1 reactor
NT2	fbrf reactor
NT2	fftf reactor
NT2	fir-1 reactor
NT2	fmrbr reactor
NT2	fmr reactor
NT2	fr-0 reactor
NT2	fr-2 reactor
NT2	frf reactor
NT2	frg-1 reactor
NT2	frg-2 reactor
NT2	frj-1 reactor
NT2	frj-2 reactor
NT2	frm-ii reactor
NT2	frm reactor
NT2	frn reactor
NT2	ga siwabessy reactor
NT2	gidra reactor
NT2	gleep reactor
NT2	grenoble reactor
NT2	gtrr reactor
NT2	gulf triga-mk-3 reactor
NT2	hanaro reactor
NT2	harmonie reactor
NT2	hector reactor
NT2	herald reactor
NT2	hero reactor
NT2	hew-305 reactor
NT2	hfbr reactor
NT2	hfir reactor
NT2	hfr reactor
NT2	hifar reactor
NT2	hor reactor
NT2	horace reactor
NT2	hprr reactor
NT2	hre-2 reactor
NT2	hlttr reactor
NT2	htr reactor
NT2	hwrr reactor
NT2	ian-r1 reactor
NT2	ibr-2 reactor
NT2	ibr-30 reactor
NT2	iea-zpr reactor
NT2	iear-1 reactor
NT2	irl reactor
NT2	irr-1 reactor
NT2	irr-2 reactor
NT2	irt-1 libya reactor
NT2	irt-2000 djakarta reactor
NT2	irt-2000 moscow reactor
NT2	irt-baghdad reactor
NT2	irt-c reactor
NT2	irt-f reactor
NT2	irt-m reactor
NT2	irt reactor
NT2	irt-sofia reactor
NT2	isis reactor
NT2	ispra-1 reactor
NT2	ivv-2m reactor
NT2	ivv-7 reactor
NT2	janus reactor
NT2	jason reactor
NT2	jeep-2 reactor
NT2	jen-1 reactor
NT2	jen-2 reactor
NT2	jen reactor
NT2	jmtr reactor
NT2	jrr-1 reactor
NT2	jrr-2 reactor
NT2	jrr-3 reactor
NT2	jrr-3m reactor
NT2	jrr-4 reactor
NT2	juno reactor
NT2	kartini-ppny reactor
NT2	king reactor
NT2	kstr reactor
NT2	kuhfr reactor
NT2	kur reactor
NT2	la reina rech-1 reactor
NT2	lfr reactor
NT2	lido reactor
NT2	lo aguirre rech-2 reactor
NT2	lpr reactor
NT2	lprr reactor
NT2	ltir reactor
NT2	lvr-15 reactor
NT2	marius reactor
NT2	maryla reactor
NT2	melusine-1 reactor
NT2	merlin reactor
NT2	minerve reactor
NT2	mitr reactor
NT2	mnr reactor
NT2	mnsr type reactors
NT3	gharr-1 reactor
NT3	mnsr-ciae reactor
NT3	mnsr-sd reactor
NT3	mnsr-sh reactor
NT3	mnsr-sz reactor
NT3	nirr-1 reactor
NT3	parr-2 reactor



NT3	srr-1 reactor	NT2	swierk r-2 reactor	NT2	fr-2 reactor
NT2	moata reactor	NT2	taiwan research reactor	NT2	frctf reactor
NT2	mr reactor	NT2	tapiro reactor	NT2	frg-1 reactor
NT2	mrr reactor	NT2	tca reactor	NT2	frn reactor
NT2	murr reactor	NT2	thetis reactor	NT2	getr reactor
NT2	nbsr reactor	NT2	thor reactor	NT2	grenoble reactor
NT2	ncscr-1 reactor	NT2	tibr reactor	NT2	gtr reactor
NT2	nestor reactor	NT2	tory-2a reactor	NT2	gtrr reactor
NT2	nhr-5 reactor	NT2	toshiba reactor	NT2	hanaro reactor
NT2	nora reactor	NT2	tr-1 reactor	NT2	harmonie reactor
NT2	nru reactor	NT2	tr-2 reactor	NT2	herald reactor
NT2	nrx reactor	NT2	triga-1-michigan reactor	NT2	hero reactor
NT2	nsrr reactor	NT2	triton reactor	NT2	hew-305 reactor
NT2	ntr reactor	NT2	trr-1 reactor	NT2	hfir reactor
NT2	nur reactor	NT2	tsr-2 reactor	NT2	hifar reactor
NT2	orphee reactor	NT2	ufr reactor	NT2	hre-2 reactor
NT2	osiris reactor	NT2	uknr reactor	NT2	htlrr reactor
NT2	owr reactor	NT2	umne-1 reactor	NT2	htr-10 reactor
NT2	parr-1 reactor	NT2	umrr reactor	NT2	irl reactor
NT2	pat reactor	NT2	utr-10-kinki reactor	NT2	irr-1 reactor
NT2	pbr reactor	NT2	utrr reactor	NT2	irt-2000 djakarta reactor
NT2	pctr reactor	NT2	uvar reactor	NT2	irt-2000 moscow reactor
NT2	phebus reactor	NT2	vera reactor	NT2	irt-baghdad reactor
NT2	pik physical model reactor	NT2	viper reactor	NT2	ispra-1 reactor
NT2	pik reactor	NT2	vpi-utr-10 reactor	NT2	jmtr reactor
NT2	prnc-1-77 reactor	NT2	wrrr reactor	NT2	kalpakkam lmfr reactor
NT2	proteus reactor	NT2	wsur reactor	NT2	loft reactor
NT2	prtr reactor	NT2	wtr reactor	NT2	mzfr reactor
NT2	pstr reactor	NT2	wwr-2 reactor	NT2	netr reactor
NT2	ptr reactor	NT2	wwr-k-almaty reactor	NT2	nru reactor
NT2	pulstar-buffalo reactor	NT2	wwr-m-kiev reactor	NT2	ntr reactor
NT2	pulstar-raleigh reactor	NT2	wwr-m-leningrad reactor	NT2	orphee reactor
NT2	r-1 reactor	NT2	wwr-s-bucharest reactor	NT2	owr reactor
NT2	r-2 reactor	NT2	wwr-s-cairo reactor	NT2	pat reactor
NT2	r-a reactor	NT2	wwr-s-moscow reactor	NT2	pegase reactor
NT2	r2-0 reactor	NT2	wwr-s-prague reactor	NT2	proteus reactor
NT2	ra-0 reactor	NT2	wwr-s-tashkent reactor	NT2	ra-3 reactor
NT2	ra-2 reactor	NT2	wwr-sm rossendorf reactor	NT2	ra-4 reactor
NT2	ra-3 reactor	NT2	wwr-z reactor	NT2	ra-5 reactor
NT2	ra-4 reactor	NT2	x-10 reactor	NT2	ra-6 reactor
NT2	ra-5 reactor	NT2	xapr reactor	NT2	ra-8 reactor
NT2	ra-6 reactor	NT2	zebra reactor	NT2	rapso die reactor
NT2	ra-8 reactor	NT2	zeep reactor	NT2	rts-1 reactor
NT2	rake-2 reactor	NT2	zenith reactor	NT2	s1c prototype reactor
NT2	rana reactor	NT2	zarlina reactor	NT2	safari-1 reactor
NT2	rb-1 reactor	NT2	zlfr reactor	NT2	sbr-5 reactor
NT2	rg-1m reactor	NT2	zppr reactor	NT2	snaptran reactors
NT2	rien-1 reactor	NT1	super kukla reactor	NT2	stf reactor
NT2	rinsc reactor	NT1	test reactors	NT2	tapiro reactor
NT2	ritmo reactor	NT2	aipfr reactor	NT2	tory-2a reactor
NT2	romashka reactor	NT2	arbus reactor	NT2	tory-2c reactor
NT2	rp-10 reactor	NT2	astr reactor	NT2	treat reactor
NT2	rpt reactor	NT2	astra reactor	NT2	triga-1-michigan reactor
NT2	rts-1 reactor	NT2	atpr reactor	NT2	triga-2-pavia reactor
NT2	rv-1 reactor	NT2	atr reactor	NT2	tsr-1 reactor
NT2	safari-1 reactor	NT2	barn reactor	NT2	tsr-2 reactor
NT2	sbr-1 reactor	NT2	bawtr reactor	NT2	urr reactor
NT2	sbr-2 reactor	NT2	bgrr reactor	NT2	uvar reactor
NT2	sbr-5 reactor	NT2	borax-5 reactor	NT2	viper reactor
NT2	scarabee reactor	NT2	br-02 reactor	NT2	wr-1 reactor
NT2	silene reactor	NT2	brr reactor	NT2	wtr reactor
NT2	slowpoke type reactors	NT2	cesnef reactor	NT1	training reactors
NT3	slowpoke-alberta reactor	NT2	cirus reactor	NT2	aerojet-general nucleonics reactors
NT3	slowpoke-dalhousie reactor	NT2	cp-5 reactor	NT2	afirri reactor
NT3	slowpoke-montreal reactor	NT2	dhruva reactor	NT2	ai-1-77 reactor
NT3	slowpoke-ottawa reactor	NT2	dimple reactor	NT2	akr-1 reactor
NT3	slowpoke-toronto reactor	NT2	diorit reactor	NT2	apsara reactor
NT3	slowpoke-wnre reactor	NT2	ebor reactor	NT2	arbi reactor
NT2	sneak reactor	NT2	ebr-1 reactor	NT2	argonaut reactor
NT2	sora reactor	NT2	eco reactor	NT2	argos reactor
NT2	spert-1 reactor	NT2	eocr reactor	NT2	athene reactor
NT2	spr-2 reactor	NT2	esada-vesr reactor	NT2	atpr reactor
NT2	spr-3 reactor	NT2	essor reactor	NT2	bgrr reactor
NT2	spr-4 reactor	NT2	etr reactor	NT2	budapest training reactor
NT2	sr-1 reactor	NT2	etrc reactor	NT2	byu 1-77 reactor
NT2	sr-0a reactor	NT2	fffr reactor	NT2	cesnef reactor
NT2	srrc-utr-100 reactor	NT2	fir-1 reactor	NT2	cirus reactor
NT2	stf reactor	NT2	fmrbr reactor	NT2	colorado triga-mk-3 reactor
NT2	supo reactor	NT2	fmr reactor	NT2	consort-2 reactor

NT2 cornell triga-mk-2 reactor  
 NT2 dow triga-mk-1 reactor  
 NT2 dr-1 reactor  
 NT2 es-salam reactor  
 NT2 fir-1 reactor  
 NT2 fir reactor  
 NT2 fr-0 reactor  
 NT2 frf reactor  
 NT2 frg-1 reactor  
 NT2 gleep reactor  
 NT2 gtrr reactor  
 NT2 gulf triga-mk-3 reactor  
 NT2 hor reactor  
 NT2 htr reactor  
 NT2 ian-r1 reactor  
 NT2 iowa utr-10 reactor  
 NT2 ir-100 reactor  
 NT2 jason reactor  
 NT2 jr-1 reactor  
 NT2 kur reactor  
 NT2 lfr reactor  
 NT2 melusine-1 reactor  
 NT2 merlin reactor  
 NT2 mitr reactor  
 NT2 moata reactor  
 NT2 murr reactor  
 NT2 nscr-1 reactor  
 NT2 nevada university reactor  
 NT2 nscr reactor  
 NT2 ostr reactor  
 NT2 osur reactor  
 NT2 prnc-1-77 reactor  
 NT2 pstr reactor  
 NT2 pur-1 reactor  
 NT2 queen mary college utr-b reactor  
 NT2 r-b reactor  
 NT2 ra-1 reactor  
 NT2 rien-1 reactor  
 NT2 rts-1 reactor  
 NT2 rv-1 reactor  
 NT2 sr-3p reactor  
 NT2 src-utr-100 reactor  
 NT2 stark reactor  
 NT2 strasbourg-cronenbourg reactor  
 NT2 sur-100 series reactor  
 NT2 thetis reactor  
 NT2 thor reactor  
 NT2 toshiba reactor  
 NT2 tr-1 reactor  
 NT2 trico reactor  
 NT2 triga-1-michigan reactor  
 NT2 triga-2-pavia reactor  
 NT2 tr-1 reactor  
 NT2 ucbr reactor  
 NT2 ufr reactor  
 NT2 ulyse reactor  
 NT2 umne-1 reactor  
 NT2 umrr reactor  
 NT2 urr reactor  
 NT2 utr-10-kinki reactor  
 NT2 uvar reactor  
 NT2 uwnr reactor  
 NT2 uwtr reactor  
 NT2 vpi-utr-10 reactor  
 NT2 vr-1 reactor  
 NT2 wntr reactor  
 NT2 wpir reactor  
 NT2 wwr-s-budapest reactor  
 NT2 x-10 reactor  
 NT2 zlfr reactor  
 NT2 zpr reactor  
 NT1 triga type reactors  
 NT2 afrri reactor  
 NT2 atrp reactor  
 NT2 colorado triga-mk-3 reactor  
 NT2 cornell triga-mk-2 reactor  
 NT2 dow triga-mk-1 reactor  
 NT2 fir-1 reactor  
 NT2 firf-2 reactor

NT2 frm reactor  
 NT2 gulf triga-mk-3 reactor  
 NT2 kartini-ppny reactor  
 NT2 lopra reactor  
 NT2 nscr reactor  
 NT2 ostr reactor  
 NT2 prpr reactor  
 NT2 pstr reactor  
 NT2 rtp reactor  
 NT2 trico reactor  
 NT2 triga-1-arizona reactor  
 NT2 triga-1-california reactor  
 NT2 triga-1-hanford reactor  
 NT2 triga-1-hanover reactor  
 NT2 triga-1-heidelberg reactor  
 NT2 triga-1-michigan reactor  
 NT2 triga-2-bandung reactor  
 NT2 triga-2-bangladesh reactor  
 NT2 triga-2-dalat reactor  
 NT2 triga-2-illinois reactor  
 NT2 triga-2-kansas reactor  
 NT2 triga-2-ljubljana reactor  
 NT2 triga-2-mainz reactor  
 NT2 triga-2-musashi reactor  
 NT2 triga-2-pavia reactor  
 NT2 triga-2-pitesti reactor  
 NT2 triga-2 reactor  
 NT2 triga-2-rikkyo reactor  
 NT2 triga-2-rome reactor  
 NT2 triga-2-seoul reactor  
 NT2 triga-2-vienna reactor  
 NT2 triga-3-la jolla reactor  
 NT2 triga-3-munich reactor  
 NT2 triga-3-salazar reactor  
 NT2 triga-3-seoul reactor  
 NT2 triga-brazil reactor  
 NT2 triga-texas reactor  
 NT2 triga-veterans reactor  
 NT2 ucbr reactor  
 NT2 uwnr reactor  
 NT2 wsur reactor  
 NT1 yayoi reactor

### research center nuclear physics cyclotron

INIS: 1993-11-09; ETDE: 2002-05-03  
 Research Center for Nuclear Physics, Osaka University.  
 USE rcnp cyclotron

### research establishment risoe

INIS: 1977-03-14; ETDE: 2002-05-03  
 USE risoe research establishment

### research licenses

INIS: 1990-12-15; ETDE: 1996-02-09  
 (Prior to December 1990, this was a valid descriptor.)  
 USE licenses

### RESEARCH PROGRAMS

To be used jointly with descriptor(s) for subject field and/or organization concerned.

UF energy research advisory board  
 NT1 coordinated research programs  
 NT2 consolidated fuel reprocessing program  
 NT2 ifip  
 RT demonstration programs  
 RT experiment planning  
 RT historical aspects  
 RT information needs  
 RT laboratories  
 RT planning  
 RT program management  
 RT recommendations  
 RT reviews  
 RT us napap  
 RT us national program plans

### RESEARCH REACTORS

1996-01-24

UF la reina reactor  
 SF berkeley nuclear laboratory reactor  
 SF bnl reactor  
 \*BT1 research and test reactors  
 NT1 aarr reactor  
 NT1 acpr reactor  
 NT1 aeg-pr-10 reactor  
 NT1 aerogjet-general nucleonics reactors  
 NT1 afrri reactor  
 NT1 afsr reactor  
 NT1 agata reactor  
 NT1 ai-1-77 reactor  
 NT1 alrr reactor  
 NT1 anna reactor  
 NT1 aprf reactor  
 NT1 apsara reactor  
 NT1 arbi reactor  
 NT1 argonaut reactor  
 NT1 argos reactor  
 NT1 argus reactor  
 NT1 armf-1 reactor  
 NT1 astra reactor  
 NT1 athene reactor  
 NT1 atrp reactor  
 NT1 atrs reactor  
 NT1 avogadro rs-1 reactor  
 NT1 barn reactor  
 NT1 bepo reactor  
 NT1 ber-2 reactor  
 NT1 bgrr reactor  
 NT1 bigr reactor  
 NT1 bir reactor  
 NT1 br-02 reactor  
 NT1 br-1 reactor  
 NT1 brr reactor  
 NT1 bsr-1 reactor  
 NT1 bsr-2 reactor  
 NT1 byu 1-77 reactor  
 NT1 cabri reactor  
 NT1 cesar reactor  
 NT1 cesnef reactor  
 NT1 cirus reactor  
 NT1 clementine reactor  
 NT1 consort-2 reactor  
 NT1 coral-1 reactor  
 NT1 cp-2 reactor  
 NT1 cp-3 reactor  
 NT1 cp-3m reactor  
 NT1 cp-5 reactor  
 NT1 cp-6 reactor  
 NT1 crocus reactor  
 NT1 democritus reactor  
 NT1 dhruva reactor  
 NT1 dido reactor  
 NT1 diorit reactor  
 NT1 dmtr reactor  
 NT1 dow triga-mk-1 reactor  
 NT1 dr-1 reactor  
 NT1 dr-2 reactor  
 NT1 dr-3 reactor  
 NT1 ebor reactor  
 NT1 ebr-1 reactor  
 NT1 eco reactor  
 NT1 el-1 reactor  
 NT1 el-2 reactor  
 NT1 el-3 reactor  
 NT1 eocr reactor  
 NT1 eole reactor  
 NT1 es-salam reactor  
 NT1 etr reactor  
 NT1 etrc reactor  
 NT1 etrr-1 reactor  
 NT1 etrr-2 reactor  
 NT1 ewa reactor  
 NT1 f-1 reactor  
 NT1 fbrf reactor  
 NT1 ffff reactor

NT1	fir-1 reactor	NT1	lpr reactor	NT1	silene reactor
NT1	fmr reactor	NT1	lptr reactor	NT1	slowpoke type reactors
NT1	fmr reactor	NT1	ltir reactor	NT2	slowpoke-alberta reactor
NT1	fr-0 reactor	NT1	lvr-15 reactor	NT2	slowpoke-dalhousie reactor
NT1	fr-2 reactor	NT1	marius reactor	NT2	slowpoke-montreal reactor
NT1	frf reactor	NT1	maryla reactor	NT2	slowpoke-ottawa reactor
NT1	frg-1 reactor	NT1	melusine-1 reactor	NT2	slowpoke-toronto reactor
NT1	frg-2 reactor	NT1	merlin reactor	NT2	slowpoke-wnre reactor
NT1	frj-1 reactor	NT1	minerve reactor	NT1	sneak reactor
NT1	frj-2 reactor	NT1	mitr reactor	NT1	sora reactor
NT1	frm-ii reactor	NT1	mnr reactor	NT1	spert-1 reactor
NT1	frm reactor	NT1	mnsr type reactors	NT1	spr-2 reactor
NT1	frn reactor	NT2	gharr-1 reactor	NT1	spr-3 reactor
NT1	ga siwabessy reactor	NT2	mnsr-ciae reactor	NT1	spr-4 reactor
NT1	gidra reactor	NT2	mnsr-sd reactor	NT1	sr-1 reactor
NT1	gleep reactor	NT2	mnsr-sh reactor	NT1	sr-0a reactor
NT1	grenoble reactor	NT2	mnsr-sz reactor	NT1	srrc-utr-100 reactor
NT1	gtrr reactor	NT2	nirr-1 reactor	NT1	stf reactor
NT1	gulf triga-mk-3 reactor	NT2	parr-2 reactor	NT1	supo reactor
NT1	hanaro reactor	NT2	srr-1 reactor	NT1	swierk r-2 reactor
NT1	harmonie reactor	NT1	moata reactor	NT1	taiwan research reactor
NT1	hector reactor	NT1	mr reactor	NT1	tapiro reactor
NT1	herald reactor	NT1	mrr reactor	NT1	tca reactor
NT1	hero reactor	NT1	murr reactor	NT1	thetis reactor
NT1	hew-305 reactor	NT1	nbsr reactor	NT1	thor reactor
NT1	hfbr reactor	NT1	ncscr-1 reactor	NT1	tibr reactor
NT1	hfir reactor	NT1	nestor reactor	NT1	tory-2a reactor
NT1	hfr reactor	NT1	nhr-5 reactor	NT1	toshiba reactor
NT1	hifar reactor	NT1	nora reactor	NT1	tr-1 reactor
NT1	hor reactor	NT1	nru reactor	NT1	tr-2 reactor
NT1	horace reactor	NT1	nrx reactor	NT1	triga-1-michigan reactor
NT1	hpr reactor	NT1	nsrr reactor	NT1	triton reactor
NT1	hre-2 reactor	NT1	ntr reactor	NT1	trr-1 reactor
NT1	htl reactor	NT1	nur reactor	NT1	tsr-2 reactor
NT1	htr reactor	NT1	orphee reactor	NT1	ufr reactor
NT1	hwrr reactor	NT1	osiris reactor	NT1	uknr reactor
NT1	ian-r1 reactor	NT1	owr reactor	NT1	umne-1 reactor
NT1	ibr-2 reactor	NT1	parr-1 reactor	NT1	umrr reactor
NT1	ibr-30 reactor	NT1	pat reactor	NT1	utr-10-kinki reactor
NT1	iea-zpr reactor	NT1	pbr reactor	NT1	utr reactor
NT1	iear-1 reactor	NT1	ptr reactor	NT1	uvar reactor
NT1	irl reactor	NT1	phebus reactor	NT1	vera reactor
NT1	irr-1 reactor	NT1	pik physical model reactor	NT1	viper reactor
NT1	irr-2 reactor	NT1	pik reactor	NT1	vpi-utr-10 reactor
NT1	irt-1 libya reactor	NT1	prnc-l-77 reactor	NT1	wrrr reactor
NT1	irt-2000 djakarta reactor	NT1	proteus reactor	NT1	wsur reactor
NT1	irt-2000 moscow reactor	NT1	ptrr reactor	NT1	wtr reactor
NT1	irt-baghdad reactor	NT1	pstr reactor	NT1	wwr-2 reactor
NT1	irt-c reactor	NT1	ptr reactor	NT1	wwr-k-almaty reactor
NT1	irt-f reactor	NT1	pulstar-buffalo reactor	NT1	wwr-m-kiev reactor
NT1	irt-m reactor	NT1	pulstar-raleigh reactor	NT1	wwr-m-leningrad reactor
NT1	irt reactor	NT1	r-1 reactor	NT1	wwr-s-bucharest reactor
NT1	irt-sofia reactor	NT1	r-2 reactor	NT1	wwr-s-cairo reactor
NT1	isis reactor	NT1	r-a reactor	NT1	wwr-s-moscow reactor
NT1	ispra-1 reactor	NT1	r2-0 reactor	NT1	wwr-s-prague reactor
NT1	ivv-2m reactor	NT1	ra-0 reactor	NT1	wwr-s-tashkent reactor
NT1	ivv-7 reactor	NT1	ra-2 reactor	NT1	wwr-sm rossendorf reactor
NT1	janus reactor	NT1	ra-3 reactor	NT1	wwr-z reactor
NT1	jason reactor	NT1	ra-4 reactor	NT1	x-10 reactor
NT1	jeep-2 reactor	NT1	ra-5 reactor	NT1	xapr reactor
NT1	jen-1 reactor	NT1	ra-6 reactor	NT1	zebra reactor
NT1	jen-2 reactor	NT1	ra-8 reactor	NT1	zeep reactor
NT1	jen reactor	NT1	rake-2 reactor	NT1	zenith reactor
NT1	jmtr reactor	NT1	rana reactor	NT1	zerlina reactor
NT1	jrr-1 reactor	NT1	rb-1 reactor	NT1	zlf reactor
NT1	jrr-2 reactor	NT1	rg-1m reactor	NT1	zppr reactor
NT1	jrr-3 reactor	NT1	rien-1 reactor		
NT1	jrr-3m reactor	NT1	rinsc reactor		
NT1	jrr-4 reactor	NT1	ritmo reactor		
NT1	juno reactor	NT1	romashka reactor		
NT1	kartini-ppny reactor	NT1	rp-10 reactor		
NT1	king reactor	NT1	rpt reactor		
NT1	kstr reactor	NT1	rts-1 reactor		
NT1	kuhfr reactor	NT1	rv-1 reactor		
NT1	kur reactor	NT1	safari-1 reactor		
NT1	la reina rech-1 reactor	NT1	sbr-1 reactor		
NT1	lfr reactor	NT1	sbr-2 reactor		
NT1	lido reactor	NT1	sbr-5 reactor		
NT1	lo aguirre rech-2 reactor	NT1	scarabee reactor		

## RESELLERS

INIS: 1992-04-03; ETDE: 1979-09-28

UF wholesale buyers

UF wholesale sellers

UF wholesalers

BT1 marketers

RT commercial sector

RT competition

RT economics

RT industry

RT market

**RESERPINE**

- \*BT1 alkaloids
- \*BT1 antihypertensive agents
- \*BT1 hypnotics and sedatives
- \*BT1 indoles
- \*BT1 sympatholytics
- \*BT1 tranquilizers

**reserve capacity**

INIS: 1982-12-03; ETDE: 1977-06-02  
USE capacity

**RESERVES**

1995-04-06

Available and economically recoverable natural resources.

- UF fossil fuel reserves
- UF ore reserves
- BT1 resources
- NT1 coal reserves
- NT1 strategic petroleum reserve
- NT1 thorium reserves
- NT1 uranium reserves
- NT1 us naval oil shale reserves
- NT1 us naval petroleum reserves
- RT natural gas deposits
- RT oil sand deposits
- RT oil shale deposits
- RT petroleum deposits
- RT resource assessment
- RT resource exploitation
- RT stockpiles

**RESERVOIR ENGINEERING**

INIS: 1992-05-21; ETDE: 1977-03-04

- BT1 engineering
- RT reservoir rock
- RT water reservoirs

**RESERVOIR FLUIDS**

INIS: 1992-04-08; ETDE: 1979-03-27

- BT1 fluids
- RT drawdown
- RT interstitial water
- RT natural gas fields
- RT oil fields

**reservoir gas saturation**

INIS: 2000-01-05; ETDE: 1977-06-02  
USE gas saturation

**RESERVOIR PRESSURE**

INIS: 2000-01-24; ETDE: 1978-09-11

- UF datum pressure
- UF formation pressure
- UF initial reservoir pressure
- UF sand pressure
- UF shutin pressure
- UF static reservoir pressure
- NT1 well pressure
- RT aquifers
- RT geologic formations
- RT geopressured systems
- RT ground water

**RESERVOIR ROCK**

INIS: 1992-01-20; ETDE: 1976-03-11

Porous and permeable rock containing producible oil, gas, or geothermal fluid in its pore spaces.

- RT carbonate rocks
- RT formation damage
- RT fractured reservoirs
- RT gas saturation
- RT heterogeneous effects
- RT interstitial water
- RT natural gas fields
- RT oil fields
- RT oil saturation
- RT plugging
- RT plugging agents

- RT reservoir engineering
- RT rocks
- RT sand
- RT source rocks
- RT water influx
- RT water saturation

**RESERVOIR TEMPERATURE**

INIS: 1992-07-21; ETDE: 1978-12-11

- NT1 well temperature
- RT temperature measurement

**reservoirs (water)**

USE water reservoirs

**resid**

INIS: 1992-04-02; ETDE: 1976-01-23

- USE petroleum residues

**RESIDENCE HALF-TIME**

1982-12-08

- UF residence time distribution
- RT earth atmosphere
- RT fallout
- RT half-life
- RT radioactivity

**residence time distribution**

2005-05-20

- USE distribution functions
- USE residence half-time

**residences**

2000-04-12

- USE houses

**RESIDENTIAL BUILDINGS**

INIS: 1992-03-04; ETDE: 1978-04-06

- UF dormitories
- BT1 buildings
- NT1 apartment buildings
- NT1 houses
- NT1 mobile homes
- RT hotels
- RT households
- RT toilets

**RESIDENTIAL SECTOR**

INIS: 1993-03-24; ETDE: 1976-04-19

- SF end use sector
- RT commercial sector
- RT communities
- RT households
- RT human populations
- RT mobile homes
- RT rural areas
- RT sectoral analysis
- RT service sector
- RT urban areas

**residual fuel oil**

INIS: 1992-05-21; ETDE: 1976-01-23

- USE residual fuels

**RESIDUAL FUELS**

INIS: 1992-05-21; ETDE: 1976-01-23

- UF bunker oils
- UF heavy fuels
- UF nos. 4, 5, and 6 fuel oils
- UF nos. 5 and 6 burner oils
- UF residual fuel oil
- UF residuums
- \*BT1 fuel oils
- RT petroleum residues
- RT rose process

**residual heat removal**

2000-04-12

- USE rhr systems

**residual-heat removal**

INIS: 1975-12-19; ETDE: 2002-05-03  
USE after-heat removal

**RESIDUAL INTERACTIONS**

- BT1 interactions

**residual oils**

INIS: 1992-04-02; ETDE: 1977-10-20  
USE petroleum residues

**RESIDUAL PETROLEUM**

INIS: 1992-10-01; ETDE: 1976-07-07

Liquid petroleum remaining in the formation at the end of a specified production process.

- \*BT1 petroleum

**RESIDUAL POWER**

ETDE: 1975-09-11

Radiation power released by decaying fission products in irradiated nuclear fuel after irradiation has ceased, e.g., after reactor shutdown.

- \*BT1 nuclear power
- RT after-heat
- RT reactor shutdown

**RESIDUAL STRESSES**

- BT1 stresses

**RESIDUES**

- NT1 ashes
- NT2 fly ash
- NT1 gangue
- NT1 smokes
- NT2 tobacco smokes
- RT wastes

**residues (mathematical)**

- USE integral calculus
- USE singularity

**residues (radioactive)**

- USE radioactive wastes

**residuums**

INIS: 1992-05-21; ETDE: 1976-01-23  
USE residual fuels

**RESINITE**

INIS: 1997-06-19; ETDE: 1996-03-29  
BT1 macerals

**RESINS**

- \*BT1 organic polymers
- \*BT1 petrochemicals
- RT araldite
- RT bakelite
- RT desiccants
- RT epoxides
- RT ion exchange chromatography
- RT ion exchange materials
- RT matrix materials

**resist**

INIS: 2000-04-12; ETDE: 1980-03-29  
SEE masking

**resistal**

2000-04-12  
USE copper base alloys

**resistance heating**

INIS: 2000-04-12; ETDE: 1977-04-14  
(Prior to March 1997 this was a valid ETDE descriptor.)  
USE electric heating

**RESISTANCE WELDING**

1996-07-23

(Prior to March 1997 PROJECTION WELDING was a valid ETDE descriptor.)

- UF projection welding

\*BT1 welding  
 NT1 flash welding  
**resistivity (electric)**  
 USE electric conductivity  
**RESISTIVITY LOGGING**  
*INIS: 2000-06-27; ETDE: 1976-06-07*  
 UF focussed logging  
 UF guard logging  
 UF laterologging  
 \*BT1 electric logging  
 RT electrical surveys  
 RT induction logging

**RESISTIVITY SURVEYS**  
*INIS: 1999-03-03; ETDE: 1980-03-04*  
*Surveys of ground resistivity.*  
 (Until March 1999 this concept was indexed by ELECTRICAL SURVEYS.)  
 \*BT1 electrical surveys

**RESISTORS**  
 1996-07-08  
 (Prior to August 1996 RHEOSTATS was a valid ETDE descriptor.)  
 UF potentiometers (variable resistors)  
 UF rheostats  
 \*BT1 electrical equipment  
 NT1 photoresistors  
 NT1 semiconductor resistors  
 RT conductor devices  
 RT potentiometers  
 RT thermistors  
 RT voltage drop

**RESOLUTION**  
 NT1 energy resolution  
 NT1 linear momentum resolution  
 NT1 mass resolution  
 NT1 spatial resolution  
 NT1 time resolution  
 RT accuracy  
 RT comparative evaluations  
 RT electron microscopy  
 RT errors  
 RT particle discrimination  
 RT performance  
 RT sensitivity  
 RT signal-to-noise ratio

**RESONANCE**  
 UF analog resonances (isobaric)  
 NT1 cyclotron resonance  
 NT2 azbel-kaner resonance  
 NT2 electron cyclotron-resonance  
 NT2 ion cyclotron-resonance  
 NT1 electric resonance  
 NT2 paraelectric resonance  
 NT1 fermi resonance  
 NT1 giant resonance  
 NT1 helicon resonance  
 NT1 hybrid resonance  
 NT1 intermediate resonance  
 NT1 level mixing resonance  
 NT1 magnetic resonance  
 NT2 eldor  
 NT2 electron spin resonance  
 NT3 acoustic esr  
 NT2 endor  
 NT2 ferrimagnetic resonance  
 NT2 ferromagnetic resonance  
 NT2 nuclear magnetic resonance  
 NT3 acoustic nmr  
 NT3 td-nmr  
 NT1 nuclear quadrupole resonance  
 RT bump-in-tail instability  
 RT giant resonance model  
 RT harmonics  
 RT mode conversion  
 RT multilevel analysis

RT reich-moore formula  
 RT resonance fluorescence  
 RT resonance integrals  
 RT resonance particles  
 RT resonance scattering  
 RT resonators  
 RT synchronization  
 RT tuning

**RESONANCE ABSORPTION**  
 \*BT1 absorption

**resonance cavities**  
 USE cavity resonators

**RESONANCE ESCAPE PROBABILITY**  
 RT dancoff correction  
 RT multiplication factors

**RESONANCE FLUORESCENCE**  
*INIS: 1980-07-24; ETDE: 1980-08-12*  
 \*BT1 fluorescence  
 RT moessbauer effect  
 RT resonance  
 RT resonance scattering

**RESONANCE INTEGRALS**  
 BT1 integrals  
 RT resonance

**RESONANCE IONIZATION MASS SPECTROSCOPY**  
*INIS: 1986-03-04; ETDE: 1985-04-24*  
 SF rims  
 \*BT1 mass spectroscopy  
 RT icp mass spectroscopy

**RESONANCE NEUTRONS**  
 1996-01-24  
 \*BT1 neutrons  
 RT fission ratio  
 RT intermediate neutrons  
 RT intermediate reactors

**RESONANCE PARTICLES**  
 \*BT1 hadrons  
 NT1 exotic resonances  
 RT dalitz plot  
 RT deck effect  
 RT prism plot  
 RT resonance

**RESONANCE SCATTERING**  
 \*BT1 inelastic scattering  
 RT acoustic esr  
 RT acoustic nmr  
 RT deep inelastic scattering  
 RT resonance  
 RT resonance fluorescence

**resonance states**  
 USE energy levels

**resonance test reactor savannah**  
 USE rtr reactor

**RESONATING-GROUP METHOD**  
 \*BT1 variational methods  
 RT nuclear reaction kinetics  
 RT nucleon-nucleon potential  
 RT scattering  
 RT two-body problem

**RESONATORS**  
*INIS: 1999-07-05; ETDE: 1979-02-27*  
 \*BT1 electronic equipment  
 NT1 cavity resonators  
 NT2 superconducting cavity resonators  
 RT microwave equipment  
 RT oscillators  
 RT pulse techniques  
 RT resonance

RT rf systems

**resorcin**  
 USE resorcinol

**RESORCINOL**  
 UF 1,3-dihydroxybenzene  
 UF dihydroxybenzene-meta  
 UF resorcin  
 BT1 developers  
 \*BT1 polyphenols

**RESOURCE ASSESSMENT**  
*INIS: 1993-02-18; ETDE: 1977-11-09*  
*Techniques to determine resource potential.*  
 RT energy source development  
 RT probabilistic estimation  
 RT rangelands  
 RT reserves

**RESOURCE CONSERVATION**  
*INIS: 1982-12-03; ETDE: 1975-09-11*  
 UF conservation (resource)  
 UF conservation (resources)  
 NT1 soil conservation  
 RT energy conservation  
 RT environmental protection  
 RT interchangeability  
 RT life cycle assessment  
 RT recycling  
 RT resource depletion  
 RT resource recovery acts  
 RT resources

**RESOURCE DEPLETION**  
*INIS: 1995-04-06; ETDE: 1977-07-23*  
 RT resource conservation  
 RT resource exploitation  
 RT resources  
 RT severance tax  
 RT sustainable development  
 RT us depletion allowances

**RESOURCE DEVELOPMENT**  
*INIS: 1992-03-12; ETDE: 1978-12-11*  
 NT1 sustainable development  
 RT economic development  
 RT energy source development  
 RT resources

**RESOURCE EXPLOITATION**  
*INIS: 1995-04-07; ETDE: 1995-05-09*  
 SF exploitation  
 RT leasing  
 RT mining  
 RT petroleum industry  
 RT reserves  
 RT resource depletion  
 RT sustainable development

**RESOURCE MANAGEMENT**  
*INIS: 1992-04-13; ETDE: 1985-06-21*  
 BT1 management  
 RT energy management  
 RT energy source development  
 RT mineral resources  
 RT property management  
 RT resources  
 RT sustainable development

**RESOURCE POTENTIAL**  
*INIS: 1993-04-07; ETDE: 1978-06-14*  
*Capability of resources for development.*  
 RT energy source development  
 RT exploration  
 RT mineral resources  
 RT resources

**RESOURCE RECOVERY ACTS**

1992-06-04

(Prior to February 1992 this was a valid ETDE descriptor.)

*UF us resource recovery acts*

BT1 laws  
 RT energy conservation  
 RT regulations  
 RT resource conservation  
 RT waste disposal acts

**RESOURCE RECOVERY FACILITIES**

INIS: 1992-07-09; ETDE: 1979-03-27

*UF facilities (resource recovery)*

BT1 energy facilities  
 \*BT1 waste processing plants  
 RT energy recovery  
 RT materials recovery  
 RT refuse derived fuels

**RESOURCES**

1978-04-21

*The totality of the discovered and undiscovered quantities of a particular mineral or similar commodity.**SF renewable resources*

NT1 cultural resources  
 NT1 geothermal resources  
 NT1 land resources  
 NT1 mineral resources  
 NT2 coal deposits  
 NT3 coal seams  
 NT2 natural gas deposits  
 NT3 natural gas fields  
 NT4 gas condensate fields  
 NT2 oil shale deposits  
 NT3 us naval oil shale reserves  
 NT2 petroleum deposits  
 NT3 gas condensate fields  
 NT3 oil fields  
 NT3 us naval petroleum reserves  
 NT2 uranium deposits  
 NT3 blizzard deposit  
 NT3 erzgebirge deposit  
 NT3 jabiluka deposit  
 NT3 koongarra deposit  
 NT3 nabarlek deposit  
 NT3 ranger deposit  
 NT3 ranstad deposit  
 NT3 roxby downs deposit  
 NT3 south alligator deposit  
 NT3 yeelirrie deposit  
 NT1 nature reserves  
 NT1 reserves  
 NT2 coal reserves  
 NT2 strategic petroleum reserve  
 NT2 thorium reserves  
 NT2 uranium reserves  
 NT2 us naval oil shale reserves  
 NT2 us naval petroleum reserves  
 NT1 water resources  
 RT raw materials  
 RT resource conservation  
 RT resource depletion  
 RT resource development  
 RT resource management  
 RT resource potential

**RESOX PROCESS**  
 INIS: 2000-04-12; ETDE: 1977-04-12  
*Proprietary process developed by Foster Wheeler using anthracite coal as catalyst and reducing agent to convert 90% of inlet sulfur dioxide to elemental sulfur.*  
 \*BT1 desulfurization  
 RT materials recovery  
 RT sulfur  
 RT waste processing

**respirable dusts**

INIS: 2000-04-12; ETDE: 1977-06-24

USE dusts

**RESPIRATION**

*UF breathing*  
 RT air  
 RT anoxia  
 RT blood  
 RT breath  
 RT capillaries  
 RT carboxyhemoglobin  
 RT diaphragm  
 RT hemoglobin  
 RT inhalation  
 RT krebs cycle  
 RT lungs  
 RT metabolism  
 RT methemoglobin  
 RT oxidoreductases  
 RT physiology  
 RT respirators  
 RT respiratory system  
 RT respiratory system diseases

**RESPIRATORS**

*UF masks*  
*UF respiratory equipment*  
 RT aerosols  
 RT air  
 RT breath  
 RT dusts  
 RT face  
 RT filters  
 RT inhalation  
 RT life support systems  
 RT protective clothing  
 RT radiation protection  
 RT respiration  
 RT respiratory system

**respiratory equipment**

USE respirators

**RESPIRATORY SYSTEM**

NT1 bronchi  
 NT1 gills  
 NT1 larynx  
 NT1 lungs  
 NT1 nose  
 NT1 pharynx  
 NT1 trachea  
 RT air  
 RT breath  
 RT chest  
 RT inhalation  
 RT lavage  
 RT lung clearance  
 RT organs  
 RT respiration  
 RT respirators  
 RT respiratory system diseases

**RESPIRATORY SYSTEM DISEASES**

*UF bronchogenic carcinoma*  
 BT1 diseases  
 NT1 asthma  
 NT1 bronchitis  
 NT1 emphysema  
 NT1 pneumoconioses  
 NT2 berylliosis  
 NT1 pneumonia  
 NT2 bronchopneumonia  
 RT breath  
 RT respiration  
 RT respiratory system

**RESPIRATORY TRACT CELLS**

INIS: 1978-11-24; ETDE: 1977-11-28

*UF lung cells*

\*BT1 somatic cells

RT bronchi  
 RT lungs

**RESPONSE FUNCTIONS***Describing the response of a system to external action.*

BT1 functions  
 RT electronic circuits  
 RT mathematical models  
 RT measuring instruments  
 RT mechanical structures  
 RT parametric analysis  
 RT sensitivity analysis  
 RT structural models

**RESPONSE MATRIX METHOD**

BT1 calculation methods  
 \*BT1 reactor kinetics equations  
 RT criticality

**RESPONSE MODIFYING FACTORS***For biological effects.**UF oxygen effect (radiobiology)**UF protective chemicals**SF tumor necrosis factor*

NT1 radioprotective substances  
 NT2 beta-aminoethyl isothiouraea  
 NT2 cystamine  
 NT2 cystaphos  
 NT2 cysteamine  
 NT2 dimercaprol  
 NT2 dtpa  
 NT2 gammaphos  
 NT2 glutathione  
 NT2 hydroxytryptophan  
 NT2 kallikrein  
 NT2 mercaptoethylguanidine  
 NT2 mercaptopropylamine  
 NT2 mexamine  
 NT2 mpg  
 NT2 penicillamine  
 NT2 serotonin  
 NT3 bufotenine  
 NT1 radiosensitizers  
 NT2 fudr  
 NT2 metronidazole  
 NT2 misonidazole  
 NT2 nem  
 NT2 triacetoneamine-n-oxyl  
 RT adrenalectomy  
 RT biological effects  
 RT biological recovery  
 RT mitogens  
 RT oxygen enhancement ratio  
 RT radiation effects  
 RT radiosensitivity

**REST MASS**

BT1 mass  
 RT special relativity theory

**RESTAURANTS**

INIS: 2000-04-12; ETDE: 1978-07-05

*UF cafeterias*  
*UF dining halls*  
 RT commercial buildings  
 RT commercial sector  
 RT food  
 RT food industry  
 RT small businesses

**restoration**

USE biological recovery

**RESTRAINTS**

INIS: 1981-02-27; ETDE: 1975-07-29

*UF pipe restraints*  
 NT1 reactor core restraints  
 RT damping  
 RT fasteners

- RT pipe fittings
- RT pipes
- RT reactor cooling systems
- RT shock absorbers
- RT supports

**resuspension**

INIS: 2000-04-12; ETDE: 1977-05-07  
USE particle resuspension

**resuspension (particles)**

INIS: 1981-02-27; ETDE: 2002-05-03  
USE particle resuspension

**retail buyers**

INIS: 2000-04-12; ETDE: 1979-05-09  
USE retailers

**RETAIL PRICES**

INIS: 1993-02-19; ETDE: 1979-06-06  
(From September 1979 until March 1996 CONSUMER PRICE INDEX was a valid ETDE descriptor.)  
UF consumer price index  
UF consumer prices  
BT1 prices  
RT retailers  
RT wholesale prices

**retail sellers**

INIS: 2000-04-12; ETDE: 1979-05-09  
USE retailers

**RETAILERS**

INIS: 1992-04-03; ETDE: 1979-05-09  
Persons or organizations engaged in the sale of commodities or goods in small quantities to ultimate consumers.  
UF retail buyers  
UF retail sellers  
BT1 marketers  
NT1 gasoline service stations  
RT commercial sector  
RT competition  
RT economics  
RT industry  
RT market  
RT marketing  
RT prices  
RT retail prices  
RT small businesses

**RETENTION**

In living organisms.  
RT animal tissues  
RT biological availability  
RT biological hot spots  
RT biological localization  
RT body  
RT compartments  
RT critical organs  
RT deposition  
RT edema  
RT excretion  
RT hot atom chemistry  
RT maximum permissible body burden  
RT organs  
RT radionuclide kinetics  
RT retention functions  
RT uptake  
RT whole-body counting

**RETENTION FUNCTIONS**

UF excretion functions  
BT1 functions  
RT compartments  
RT radionuclide kinetics  
RT retention  
RT time dependence

**reticular cells**

USE reticuloendothelial system

**RETICULOCYTES**

\*BT1 erythrocytes

**RETICULOENDOTHELIAL SYSTEM**

UF kupffer cells  
UF reticular cells  
\*BT1 animal tissues  
RT bone marrow  
RT connective tissue  
RT immune system diseases  
RT liver  
RT lymph nodes  
RT lymphatic system  
RT macrophages  
RT phagocytosis  
RT spleen

**RETINA**

\*BT1 eyes  
RT nervous system  
RT rhodopsin

**retinal pigment**

INIS: 1986-03-04; ETDE: 2002-05-03  
USE rhodopsin

**RETINOIC ACID**

INIS: 2000-04-12; ETDE: 1982-05-24  
\*BT1 carboxylic acid esters  
RT vitamin a

**retinol**

INIS: 2000-04-12; ETDE: 1982-05-24  
USE vitamin a

**retorted shales**

INIS: 1992-04-13; ETDE: 1979-07-18  
USE spent shales

**RETORTING**

1980-07-24  
The process of extracting a desirable substance from a naturally occurring deposit.  
SF fushun process  
\*BT1 decomposition  
\*BT1 ore processing  
NT1 in-situ retorting  
RT coking  
RT destructive distillation  
RT heating  
RT hydrotorting process  
RT hytort process  
RT in-situ processing  
RT lurgi-ruhrgas process  
RT modified in-situ processes  
RT ntu process  
RT oil shales  
RT process heat  
RT pyrolysis  
RT retorts  
RT rope process  
RT shell pellet heat exchanger retorting  
RT t3 process

**RETORTS**

2000-07-11  
UF pumpherston retort  
BT1 chemical reactors  
\*BT1 distillation equipment  
RT retorting

**RETREAT MINING**

INIS: 2000-04-12; ETDE: 1979-09-27  
\*BT1 underground mining  
RT coal mining

**retrieval systems**

INIS: 2000-04-12; ETDE: 1979-08-07  
For retrieval of information, see INFORMATION RETRIEVAL.  
(Prior to March 1997 this was a valid ETDE descriptor.)  
SEE materials handling  
SEE remote handling equipment  
SEE waste retrieval

**RETROFITTING**

INIS: 1979-04-27; ETDE: 1975-11-11  
UF backfitting  
RT buildings  
RT construction  
RT licensing regulations  
RT modifications  
RT safety standards  
RT solar repowering

**REUNION ISLAND**

2004-05-28  
\*BT1 france  
BT1 islands  
RT indian ocean

**REVEGETATION**

1976-07-16  
Process of providing a new vegetative cover for land previously stripped of vegetation.  
RT deforestation  
RT erosion control  
RT ground cover  
RT land reclamation  
RT plants  
RT preferred species  
RT soil conservation

**REVERSE COMBUSTION**

INIS: 2000-04-12; ETDE: 1976-05-13  
\*BT1 combustion  
RT in-situ combustion

**REVERSE-FIELD PINCH**

INIS: 1975-12-19; ETDE: 1976-01-26  
UF trx-1  
BT1 pinch effect  
RT artemis device  
RT hbtx devices  
RT magnetic field reversal  
RT magnetic reconnection  
RT mst device  
RT reversed-field mirrors  
RT rfx device  
RT stx devices  
RT tpe-1rm15 device  
RT zt-40 devices  
RT zt-p devices

**reverse osmosis**

USE osmosis

**REVERSED-FIELD MIRRORS**

INIS: 1982-11-30; ETDE: 1991-10-29  
UF field-reversed mirror reactors  
UF field-reversed mirrors  
\*BT1 magnetic mirrors  
RT magnetic field reversal  
RT reverse-field pinch

**REVERSED-FIELD PINCH DEVICES**

1994-03-15  
\*BT1 toroidal pinch devices  
NT1 artemis device  
NT1 extrap-t2 device  
NT1 hbtx devices  
NT1 mst device  
NT1 rfx device  
NT1 tpe-1rm15 device  
NT1 tpe-rx device  
NT1 zt-40 devices

**NT1** zt-p devices  
*RT* beta ratio  
*RT* electric currents  
*RT* magnetic field configurations  
*RT* rotational transform  
*RT* toroidal configuration

**REVERSED SHEAR**

*INIS: 1999-07-26; ETDE: 1999-09-03*  
*RT* rotational transform  
*RT* shear

**reversible turbines**

*INIS: 2000-04-12; ETDE: 1980-01-24*  
 USE pump turbines

**REVERTANTS**

*INIS: 1978-11-24; ETDE: 1978-12-20*  
 \*BT1 mutants  
*RT* mutations

**REVIEWS**

*Critical assessment of work and data usually accompanied by an extensive bibliography.*  
 \*BT1 document types  
*RT* research programs

**REWETTING**

*INIS: 1975-08-22; ETDE: 1976-08-24*  
*RT* dryout  
*RT* heat transfer  
*RT* hot spots  
*RT* surfaces

**rexco process**

2000-04-12  
*Process for manufacturing smokeless fuel.*  
 SEE coal

**REYNOLDS NUMBER**

\*BT1 dimensionless numbers  
**NT1** magnetic reynolds number  
*RT* boundary layers  
*RT* friction factor  
*RT* turbulent flow  
*RT* viscous flow

**rez lr-0 reactor**

*INIS: 1998-07-07; ETDE: 1995-01-03*  
 USE lr-0 reactor

**rez tr-0 reactor**

USE tr-0 reactor

**rezistal**

2000-04-12  
 (Prior to February 1995, this was a valid ETDE descriptor.)  
 USE chromium alloys  
 USE iron base alloys  
 USE nickel alloys

**RF SYSTEMS**

*UF* radiofrequency systems  
*RT* cavity resonators  
*RT* cyclic accelerators  
*RT* gyrocons  
*RT* klystrons  
*RT* lasertrons  
*RT* magnetrons  
*RT* microwave power transmission  
*RT* power supplies  
*RT* radio equipment  
*RT* radiowave radiation  
*RT* resonators  
*RT* squid devices  
*RT* superconducting cavity resonators  
*RT* travelling wave tubes  
*RT* tuning

**RFLPS**

*INIS: 2000-01-11; ETDE: 1987-10-22*  
*Restriction Fragment Length Polymorphisms.*  
*RT* chromosomes  
*RT* endonucleases  
*RT* genes  
*RT* genetic mapping  
*RT* genetic variability  
*RT* human chromosomes

**rfq (accelerators)**

*INIS: 1991-10-09; ETDE: 2002-05-03*  
 USE quadrupole linacs

**RFX DEVICE**

1994-03-15  
*Reversed-Field Experiment at the University of Padua, Italy.*  
 \*BT1 reversed-field pinch devices  
*RT* reverse-field pinch

**RG-1M REACTOR**

*UF* norilsk research reactor rg-1m  
 \*BT1 enriched uranium reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors

**RHABDOMYOSARCOMAS**

\*BT1 myosarcomas

**rhagoletis cerasi**

*INIS: 1996-07-23; ETDE: 1976-01-26*  
 (Until July 1996 this was a valid descriptor.)  
 USE fruit flies

**RHEINSBERG AKW1 REACTOR**

*Gransee, Rheinsberg, Federal Republic of Germany.*  
*UF* akw1 rheinsberg reactor  
*UF* atomkraftwerk rheinsberg akw1 reaktor  
 \*BT1 pwr type reactors

**RHENATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*  
 \*BT1 oxygen compounds  
 \*BT1 rhenium compounds  
*RT* rhenium oxides

**RHENIUM**

\*BT1 refractory metals  
 \*BT1 transition elements

**RHENIUM 161**

*INIS: 1979-09-18; ETDE: 1979-10-23*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rhenium isotopes

**RHENIUM 162**

*INIS: 1979-09-18; ETDE: 1979-10-23*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rhenium isotopes

**RHENIUM 163**

*INIS: 1979-09-18; ETDE: 1979-10-23*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rhenium isotopes

**RHENIUM 164**

*INIS: 1979-09-18; ETDE: 1979-10-23*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 rhenium isotopes

**RHENIUM 165**

*INIS: 1983-09-01; ETDE: 1983-07-07*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 rhenium isotopes  
 \*BT1 seconds living radioisotopes

**RHENIUM 166**

*INIS: 1979-04-27; ETDE: 1979-05-25*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 rhenium isotopes  
 \*BT1 seconds living radioisotopes

**RHENIUM 167**

*INIS: 1979-04-27; ETDE: 1979-05-25*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rhenium isotopes  
 \*BT1 seconds living radioisotopes

**RHENIUM 168**

*INIS: 1978-11-24; ETDE: 1978-12-20*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 rhenium isotopes  
 \*BT1 seconds living radioisotopes

**RHENIUM 169**

*INIS: 1978-11-24; ETDE: 1978-12-20*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 odd-even nuclei  
 \*BT1 rhenium isotopes  
 \*BT1 seconds living radioisotopes

**RHENIUM 170**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 rhenium isotopes  
 \*BT1 seconds living radioisotopes

**RHENIUM 171**

*INIS: 1987-09-22; ETDE: 1987-10-02*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 rhenium isotopes  
 \*BT1 seconds living radioisotopes

**RHENIUM 172**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 rhenium isotopes  
 \*BT1 seconds living radioisotopes

**RHENIUM 173**

\*BT1 electron capture radioisotopes  
 \*BT1 intermediate mass nuclei



- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhenium isotopes

**RHENIUM 174**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhenium isotopes

**RHENIUM 175**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhenium isotopes

**RHENIUM 176**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhenium isotopes

**RHENIUM 177**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhenium isotopes

**RHENIUM 178**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhenium isotopes

**RHENIUM 179**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhenium isotopes

**RHENIUM 180**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhenium isotopes

**RHENIUM 181**

- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhenium isotopes

**RHENIUM 182**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhenium isotopes

**RHENIUM 183**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 odd-even nuclei

- \*BT1 rhenium isotopes

**RHENIUM 184**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhenium isotopes

**RHENIUM 184 TARGET**

*INIS: 1979-09-18; ETDE: 1977-04-12*

- BT1 targets

**RHENIUM 185**

- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 rhenium isotopes
- \*BT1 stable isotopes

**RHENIUM 185 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**RHENIUM 186**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhenium isotopes
- \*BT1 years living radioisotopes

**RHENIUM 186 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**RHENIUM 187**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-even nuclei
- \*BT1 rhenium isotopes
- \*BT1 stable isotopes
- \*BT1 years living radioisotopes

**RHENIUM 187 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**RHENIUM 188**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhenium isotopes

**RHENIUM 189**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhenium isotopes

**RHENIUM 190**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 hours living radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhenium isotopes

**RHENIUM 191**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei

- \*BT1 rhenium isotopes

**RHENIUM 192**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 rhenium isotopes
- \*BT1 seconds living radioisotopes

**RHENIUM ADDITIONS**

*Alloys containing not more than 1% Re are listed here.*

- \*BT1 rhenium alloys

**RHENIUM ALLOYS**

*1995-02-27*

*Alloys containing more than 1% Re.*

- \*BT1 transition element alloys
- NT1 rhenium additions
- NT1 rhenium base alloys

**RHENIUM BASE ALLOYS**

- \*BT1 rhenium alloys

**RHENIUM BORIDES**

- \*BT1 borides
- \*BT1 rhenium compounds

**RHENIUM BROMIDES**

- \*BT1 bromides
- \*BT1 rhenium halides

**RHENIUM CARBIDES**

- \*BT1 carbides
- \*BT1 rhenium compounds

**RHENIUM CARBONATES**

*2000-04-12*

- \*BT1 carbonates
- \*BT1 rhenium compounds

**RHENIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 rhenium halides

**RHENIUM COMPLEXES**

- \*BT1 transition element complexes

**RHENIUM COMPOUNDS**

*1997-06-19*

- UF rhenium hydroxides*
- BT1 refractory metal compounds
- BT1 transition element compounds
- NT1 perhenates
- NT1 rhenates
- NT1 rhenium borides
- NT1 rhenium carbides
- NT1 rhenium carbonates
- NT1 rhenium halides
- NT2 rhenium bromides
- NT2 rhenium chlorides
- NT2 rhenium fluorides
- NT2 rhenium iodides
- NT1 rhenium hydrides
- NT1 rhenium nitrides
- NT1 rhenium oxides
- NT1 rhenium selenides
- NT1 rhenium silicides
- NT1 rhenium sulfates
- NT1 rhenium sulfides
- NT1 rhenium tellurides

**RHENIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 rhenium halides

**RHENIUM HALIDES**

*INIS: 1991-09-16; ETDE: 1975-07-29*

- \*BT1 halides
- \*BT1 rhenium compounds
- NT1 rhenium bromides
- NT1 rhenium chlorides
- NT1 rhenium fluorides

NT1 rhenium iodides

## RHENIUM HYDRIDES

1979-11-02

\*BT1 hydrides  
\*BT1 rhenium compounds

### *rhenium hydroxides*

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE hydroxides  
USE rhenium compounds

## RHENIUM IODIDES

INIS: 1979-01-18; ETDE: 1976-12-15

\*BT1 iodides  
\*BT1 rhenium halides

## RHENIUM IONS

\*BT1 ions

## RHENIUM ISOTOPES

1999-07-16

BT1 isotopes  
NT1 rhenium 161  
NT1 rhenium 162  
NT1 rhenium 163  
NT1 rhenium 164  
NT1 rhenium 165  
NT1 rhenium 166  
NT1 rhenium 167  
NT1 rhenium 168  
NT1 rhenium 169  
NT1 rhenium 170  
NT1 rhenium 171  
NT1 rhenium 172  
NT1 rhenium 173  
NT1 rhenium 174  
NT1 rhenium 175  
NT1 rhenium 176  
NT1 rhenium 177  
NT1 rhenium 178  
NT1 rhenium 179  
NT1 rhenium 180  
NT1 rhenium 181  
NT1 rhenium 182  
NT1 rhenium 183  
NT1 rhenium 184  
NT1 rhenium 185  
NT1 rhenium 186  
NT1 rhenium 187  
NT1 rhenium 188  
NT1 rhenium 189  
NT1 rhenium 190  
NT1 rhenium 191  
NT1 rhenium 192

## RHENIUM NITRIDES

1977-06-13

\*BT1 nitrides  
\*BT1 rhenium compounds

### *rhenium ores*

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE ores

## RHENIUM OXIDES

\*BT1 oxides  
\*BT1 rhenium compounds  
RT perrhenates  
RT rhenates

## RHENIUM SELENIDES

1991-09-16

\*BT1 rhenium compounds  
\*BT1 selenides

## RHENIUM SILICIDES

INIS: 1978-11-24; ETDE: 1978-12-20

\*BT1 rhenium compounds  
\*BT1 silicides

## RHENIUM SULFATES

INIS: 1977-03-01; ETDE: 1977-04-12

\*BT1 rhenium compounds  
\*BT1 sulfates

## RHENIUM SULFIDES

\*BT1 rhenium compounds  
\*BT1 sulfides

## RHENIUM TELLURIDES

2000-04-12

\*BT1 rhenium compounds  
\*BT1 tellurides

## RHEOLOGY

INIS: 1982-10-29; ETDE: 1975-09-11

*Study of deformation and flow of matter.*

RT deformation  
RT fluid flow  
RT matter  
RT mechanical properties  
RT thixotropy  
RT viscosity

### *rheostats*

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE resistors

### *rhesus monkeys*

USE macacus

## RHEUMATIC DISEASES

1999-09-20

UF arthritis  
UF rheumatoid diseases  
NT1 spondylitis  
RT bone joints  
RT bone tissues  
RT skeletal diseases

### *rheumatoid diseases*

USE rheumatic diseases

### *rhic (brookhaven)*

INIS: 1986-05-23; ETDE: 2002-05-11

USE brookhaven rhic

## RHINE RIVER

\*BT1 rivers  
RT austria  
RT federal republic of germany  
RT france  
RT netherlands  
RT switzerland

## RHIZOBIUM

INIS: 1992-05-05; ETDE: 1986-01-24

\*BT1 bacteria  
RT leguminosae  
RT nitrogen fixation  
RT symbiosis

### *rhizopterin*

USE folic acid

## RHIZOPUS

\*BT1 eumycota

### *rho-1250 mesons*

INIS: 1995-08-07; ETDE: 1988-01-28

(From December 1987 until July 1995 this was a valid term.)

USE rho-1450 mesons

### *rho-1250 resonances*

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE rho-1450 mesons

## RHO-1450 MESONS

1995-08-07

(Until December 1987 this concept was indexed by RHO-1250 RESONANCES; from then until July 1995 it was indexed by RHO-1250 MESONS.)

UF rho-1250 mesons

UF rho-1250 resonances

\*BT1 vector mesons

### *rho-1500 resonances*

INIS: 1988-03-08; ETDE: 1975-10-28

(Prior to December 1987 this was a valid descriptor.)

USE mesons

### *rho-1600 mesons*

INIS: 1995-08-07; ETDE: 1988-02-01

(From December 1987 until July 1995 this was a valid term.)

USE rho-1700 mesons

### *rho-1600 resonances*

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE rho-1700 mesons

### *rho-1670 resonances*

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE rho3-1690 mesons

## RHO-1700 MESONS

1995-08-07

(Until December 1987 this concept was indexed by RHO-1600 RESONANCES; from then until July 1995 it was indexed by RHO-1600 MESONS.)

UF rho-1600 mesons

UF rho-1600 resonances

UF rho-prime resonances

\*BT1 vector mesons

### *rho-1700 resonances*

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE mesons

## RHO-2150 MESONS

INIS: 1987-12-21; ETDE: 1988-02-01

\*BT1 vector mesons

### *rho-765 resonances*

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE rho-770 mesons

## RHO-770 MESONS

INIS: 1987-12-21; ETDE: 1988-01-25

(Prior to December 1987 this concept was indexed by RHO-765 RESONANCES.)

UF rho-765 resonances

\*BT1 vector mesons

### *rho-prime resonances*

USE rho-1700 mesons

## RHO3-1690 MESONS

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by RHO-1670 RESONANCES.)

UF g resonances

UF rho-1670 resonances

\*BT1 tensor mesons

**RHO3-2250 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*  
(Prior to December 1987 this concept was indexed by T-2200RESONANCES.)  
*UF t-2200 resonances*

\*BT1 tensor mesons

**RHO5-2350 MESONS**

*INIS: 1987-12-21; ETDE: 1988-02-01*  
\*BT1 tensor mesons

**RHODAMINES**

\*BT1 amines  
BT1 dyes  
\*BT1 heterocyclic acids  
\*BT1 organic oxygen compounds  
BT1 reagents  
*RT* phthalic acid

**rhodanates**

USE thiocyanates

**rhodanides**

USE thiocyanates

**RHODE ISLAND**

\*BT1 usa  
*RT* us east coast

**rhode island nuclear science center reactor**

USE rinsc reactor

**rhodesia (northern)**

USE zambia

**rhodesia (southern)**

USE southern rhodesia

**RHODIUM**

\*BT1 platinum metals  
\*BT1 refractory metals

**RHODIUM 100**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rhodium isotopes

**RHODIUM 101**

\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 odd-even nuclei  
\*BT1 rhodium isotopes  
\*BT1 years living radioisotopes

**RHODIUM 102**

\*BT1 beta-minus decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 rhodium isotopes

**RHODIUM 103**

\*BT1 intermediate mass nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rhodium isotopes  
\*BT1 stable isotopes

**RHODIUM 103 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**RHODIUM 104**

\*BT1 beta-minus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rhodium isotopes  
\*BT1 seconds living radioisotopes

**RHODIUM 105**

\*BT1 beta-minus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 odd-even nuclei  
\*BT1 rhodium isotopes  
\*BT1 seconds living radioisotopes

**RHODIUM 106**

\*BT1 beta-minus decay radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 rhodium isotopes  
\*BT1 seconds living radioisotopes

**RHODIUM 107**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rhodium isotopes

**RHODIUM 108**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rhodium isotopes  
\*BT1 seconds living radioisotopes

**RHODIUM 109**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rhodium isotopes

**RHODIUM 110**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 rhodium isotopes  
\*BT1 seconds living radioisotopes

**RHODIUM 111**

*INIS: 1979-01-18; ETDE: 1979-02-23*

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 rhodium isotopes  
\*BT1 seconds living radioisotopes

**RHODIUM 112**

*1985-01-17*

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 rhodium isotopes  
\*BT1 seconds living radioisotopes

**RHODIUM 113**

*INIS: 1988-11-16; ETDE: 1988-12-02*

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei

\*BT1 rhodium isotopes  
\*BT1 seconds living radioisotopes

**RHODIUM 114**

*INIS: 1988-06-22; ETDE: 1988-07-15*

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 rhodium isotopes  
\*BT1 seconds living radioisotopes

**RHODIUM 115**

*INIS: 1988-11-16; ETDE: 1988-12-02*

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rhodium isotopes

**RHODIUM 116**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rhodium isotopes

**RHODIUM 117**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 rhodium isotopes  
\*BT1 seconds living radioisotopes

**RHODIUM 118**

*2000-12-28*

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rhodium isotopes

**RHODIUM 90**

*2004-12-20*

\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 nanoseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rhodium isotopes  
\*BT1 seconds living radioisotopes

**RHODIUM 91**

*2004-11-30*

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 nanoseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rhodium isotopes  
\*BT1 seconds living radioisotopes

**RHODIUM 92**

*1999-03-23*

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rhodium isotopes  
\*BT1 seconds living radioisotopes

**RHODIUM 93**

*2004-11-30*

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 rhodium isotopes  
\*BT1 seconds living radioisotopes

**RHODIUM 94**

\*BT1 beta-plus decay radioisotopes  
\*BT1 intermediate mass nuclei

- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes
- \*BT1 seconds living radioisotopes

**RHODIUM 95**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes

**RHODIUM 96**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes

**RHODIUM 96 TARGET**

*INIS: 1975-11-27; ETDE: 1976-07-12*  
BT1 targets

**RHODIUM 97**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes

**RHODIUM 98**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rhodium isotopes

**RHODIUM 99**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rhodium isotopes

**RHODIUM ADDITIONS**

*Alloys containing not more than 1% Rh are listed here.*

- \*BT1 rhodium alloys

**RHODIUM ALLOYS**

*Alloys containing more than 1% Rh.*

- \*BT1 platinum metal alloys
- NT1 rhodium additions
- NT1 rhodium base alloys

**RHODIUM BASE ALLOYS**

- \*BT1 rhodium alloys

**RHODIUM BORIDES**

*1977-09-06*

- \*BT1 borides
- \*BT1 rhodium compounds

**RHODIUM BROMIDES**

*INIS: 1976-02-05; ETDE: 1975-11-26*

- \*BT1 bromides
- \*BT1 rhodium compounds

**RHODIUM CARBIDES**

- \*BT1 carbides
- \*BT1 rhodium compounds

**RHODIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 rhodium compounds

**RHODIUM COMPLEXES**

- \*BT1 transition element complexes

**RHODIUM COMPOUNDS**

*1997-06-19*

- UF rhodium hydroxides
- UF rhodium nitrides
- BT1 refractory metal compounds
- BT1 transition element compounds
- NT1 rhodium borides
- NT1 rhodium bromides
- NT1 rhodium carbides
- NT1 rhodium chlorides
- NT1 rhodium fluorides
- NT1 rhodium hydrides
- NT1 rhodium oxides
- NT1 rhodium phosphides
- NT1 rhodium selenides
- NT1 rhodium silicides
- NT1 rhodium sulfides
- NT1 rhodium tellurides

**RHODIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 rhodium compounds

**RHODIUM HYDRIDES**

*1978-11-24*

- \*BT1 hydrides
- \*BT1 rhodium compounds

**rhodium hydroxides**

*INIS: 1996-07-23; ETDE: 1975-11-26*

(Until July 1996 this was a valid descriptor.)  
USE hydroxides  
USE rhodium compounds

**RHODIUM IONS**

- \*BT1 ions

**RHODIUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 rhodium 100
- NT1 rhodium 101
- NT1 rhodium 102
- NT1 rhodium 103
- NT1 rhodium 104
- NT1 rhodium 105
- NT1 rhodium 106
- NT1 rhodium 107
- NT1 rhodium 108
- NT1 rhodium 109
- NT1 rhodium 110
- NT1 rhodium 111
- NT1 rhodium 112
- NT1 rhodium 113
- NT1 rhodium 114
- NT1 rhodium 115
- NT1 rhodium 116
- NT1 rhodium 117
- NT1 rhodium 118
- NT1 rhodium 119
- NT1 rhodium 90
- NT1 rhodium 91
- NT1 rhodium 92
- NT1 rhodium 93
- NT1 rhodium 94
- NT1 rhodium 95
- NT1 rhodium 96
- NT1 rhodium 97
- NT1 rhodium 98
- NT1 rhodium 99

**rhodium nitrides**

*INIS: 2000-04-12; ETDE: 1975-12-16*  
(Prior to January 1993, this was a valid ETDE descriptor.)

- USE nitrides
- USE rhodium compounds

**RHODIUM OXIDES**

- \*BT1 oxides
- \*BT1 rhodium compounds

**RHODIUM PHOSPHIDES**

*INIS: 2000-04-12; ETDE: 1976-07-07*

- \*BT1 phosphides
- \*BT1 rhodium compounds

**RHODIUM SELENIDES**

*INIS: 2000-04-12; ETDE: 1976-03-22*

- \*BT1 rhodium compounds
- \*BT1 selenides

**RHODIUM SILICIDES**

*INIS: 1987-08-27; ETDE: 1985-07-18*

- \*BT1 rhodium compounds
- \*BT1 silicides

**RHODIUM SULFIDES**

*INIS: 1991-09-16; ETDE: 1975-11-11*

- \*BT1 rhodium compounds
- \*BT1 sulfides

**RHODIUM TELLURIDES**

*INIS: 1991-09-16; ETDE: 1976-07-07*

- \*BT1 rhodium compounds
- \*BT1 tellurides

**RHODIZONIC ACID**

- \*BT1 hydroxy compounds
- \*BT1 quinones
- BT1 reagents
- RT organic acids

**RHODOCOCCUS**

*INIS: 2000-04-12; ETDE: 1992-11-20*

- \*BT1 sulfur-oxidizing bacteria
- RT coal preparation
- RT desulfurization

**RHODOPHYCOTA**

*INIS: 1991-12-13; ETDE: 1988-12-20*

- \*BT1 algae
- NT1 porphyra

**RHODOPSEUDOMONAS**

- \*BT1 photosynthetic bacteria

**RHODOPSIN**

*INIS: 1986-03-04; ETDE: 1983-09-15*

*A brilliant red photosensitive pigment.*

- UF retinal pigment
- UF visual purple
- BT1 pigments
- \*BT1 proteins
- RT retina

**RHODOSPIRILLUM**

- \*BT1 photosynthetic bacteria

**rhombohedral lattices**

- USE trigonal lattices

**RHONE RIVER**

- \*BT1 rivers
- RT france
- RT switzerland

**rhr**

*INIS: 1975-12-19; ETDE: 2002-05-11*

*Residual heat removal.*

- USE after-heat removal

**RHR SYSTEMS**

*2000-04-12*

- UF residual heat removal

\*BT1 reactor cooling systems  
RT after-heat removal

**RHYOLITES**

INIS: 1978-08-30; ETDE: 1975-11-11

A group of extrusive igneous rocks generally porphyritic and containing small phenocrysts of quartz and alkali feldspar set in a glassy or cryptocrystalline ground mass.

(From April 1975 till March 1997 PUMICE was a valid ETDE descriptor.)

SF pumice

\*BT1 volcanic rocks  
RT feldspars  
RT granites  
RT perlite  
RT silicon oxides

**RHYTHMICITY**

RT estrous cycle  
RT menstrual cycle

**ria (radioimmunoassay)**

INIS: 1984-04-04; ETDE: 2002-05-11

USE radioimmunoassay

**ria (reactor accidents)**

INIS: 1984-04-04; ETDE: 2002-05-11

Reactivity Initiated Accidents.

SEE reactor accidents

**RIBBON-TO-RIBBON METHOD**

INIS: 2000-04-12; ETDE: 1980-02-11

A float-zone crystal growth method where the polycrystalline ribbon is fed into a preheated region, melted, and recrystallized.

UF rtr method

BT1 crystal growth methods  
RT crystal growth  
RT ribbon-to-sheet method  
RT sheets  
RT zone melting

**RIBBON-TO-SHEET METHOD**

INIS: 2000-04-12; ETDE: 1981-07-18

BT1 crystal growth methods  
RT ribbon-to-ribbon method  
RT sheets

**RIBOFLAVIN**

UF vitamin b-2

\*BT1 vitamin b group  
RT ribose

**ribonuclease**

USE rna-ase

**ribonucleic acid**

USE rna

**RIBOSE**

\*BT1 aldehydes

\*BT1 pentoses  
RT riboflavin

**RIBOSIDES**

NT1 nucleosides  
NT2 adenosine  
NT2 budr  
NT2 cytidine  
NT2 deoxycytidine  
NT2 deoxyuridine  
NT2 fudr  
NT2 guanosine  
NT2 inosine  
NT2 iododeoxyuridine  
NT2 thymidine  
NT2 uridine

RT deoxyribose  
RT nucleic acids  
RT pentoses

**RIBOSOMAL RNA**

INIS: 1990-04-19; ETDE: 1985-11-19

UF r-rna

\*BT1 rna  
RT nucleoli  
RT ribosomes

**RIBOSOMES**

1999-04-20

BT1 cell constituents  
NT1 microsomes  
RT codons  
RT ribosomal rna  
RT rna  
RT subcellular distribution

**RIBULOSE**

\*BT1 ketones  
\*BT1 pentoses

**RIBULOSE DIPHOSPHATE****CARBOXYLASE**

INIS: 2000-04-12; ETDE: 1985-10-25

\*BT1 carboxy-lyases  
RT carbon cycle  
RT carbon dioxide fixation  
RT chloroplasts  
RT photosynthesis

**RIC PROCESS**

2000-04-12

\*BT1 desulfurization

**RICCATI EQUATION**

\*BT1 differential equations

**RICCI TENSOR**

BT1 tensors  
RT riemann space

**RICE**

UF oryza

\*BT1 cereals

**RICE STEM BORERS**

\*BT1 moths

**richardson-dushman equation**

USE richardson equation

**RICHARDSON EQUATION**

UF richardson-dushman equation

BT1 equations  
RT thermionics

**RICHARDSON NUMBER**

BT1 dimensionless numbers  
RT convection  
RT shear  
RT turbulent flow  
RT two-phase flow

**RICHLAND**

INIS: 1999-03-03; ETDE: 1979-03-05

BT1 urban areas  
\*BT1 washington

**richland fff reactor**

USE fff reactor

**richland npr reactor**

USE n-reactor

**richland physical constants test reactor**

1993-11-09

USE petr reactor

**richland power-plutonium production reactor**

INIS: 1993-11-09; ETDE: 2002-05-11

USE n-reactor

**ricinum communis**

USE castor

**RICKETS**

UF rachitis

\*BT1 metabolic diseases  
\*BT1 skeletal diseases  
RT bone tissues  
RT vitamin d

**RICKETTSIAE**

BT1 microorganisms  
RT insects  
RT rickettsial diseases  
RT typhus

**RICKETTSIAL DISEASES**

INIS: 1982-12-08; ETDE: 1981-01-12

\*BT1 infectious diseases

NT1 typhus  
RT host  
RT rickettsiae

**ridesharing**

INIS: 2000-04-12; ETDE: 1980-08-25

SEE carpooling  
SEE vanpooling

**riehl-schon model**

2000-04-12

Photovoltaic and photoconductive effects in crystals.

(Prior to February 1995, this was a valid ETDE descriptor.)

USE crystals  
USE photovoltaic effect

**riemann curvature tensor**

USE riemann space

**RIEMANN FUNCTION**

BT1 functions  
RT differential equations

**riemann geometry**

USE riemann space

**riemann manifolds**

USE riemann space

**riemann metric**

USE riemann space

**RIEMANN SHEET**

1997-08-20

UF riemann surface  
RT functions

**RIEMANN SPACE**

1997-08-20

UF riemann curvature tensor  
UF riemann geometry  
UF riemann manifolds  
UF riemann metric  
UF riemann sphere  
\*BT1 mathematical space  
NT1 euclidean space  
RT curvilinear coordinates  
RT ricci tensor  
RT smooth manifolds

**riemann sphere**

USE riemann space

**riemann surface**

1997-08-20

USE riemann sheet

**riemann waves**

USE shock waves

**RIEN-1 REACTOR**

*Instituto de Energenharia Nuclear/Nuclebras, Rio de Janeiro, Brazil.*

UF argonauta rien-1 reactor

UF argonauta rio reactor

UF instituto engenheria nuclear rio reactor

\*BT1 argonaut type reactors

\*BT1 research reactors

\*BT1 training reactors

**RIFT ZONES**

INIS: 1992-06-16; ETDE: 1975-09-11

(Until June 1992, this concept was indexed by GEOLOGIC FAULTS.)

UF zones (rift)

BT1 geologic structures

RT geologic faults

RT rio grande rift

**RIGHI-LEDUC EFFECT**

RT hall effect

RT heat transfer

RT magnetic fields

RT thermal conductivity

**RIGHTS-OF-WAY**

INIS: 1993-06-04; ETDE: 1979-03-29

RT eminent domain

RT land use

RT legal aspects

RT pipelines

RT power transmission lines

**riken linac**

INIS: 1986-05-23; ETDE: 2002-05-11

USE rilac

**riken ssc**

INIS: 1983-10-14; ETDE: 1983-11-09

USE ipcr cyclotron

**rikkyo university triga-mk-2 reactor**

INIS: 1993-11-09; ETDE: 2002-05-11

USE triga-2-rikkyo reactor

**rikkyo university triga-mk-ii reactor**

2000-04-12

USE triga-2-rikkyo reactor

**RILAC**

INIS: 1986-05-23; ETDE: 1986-11-18

*Frequency-tunable heavy ion linac at Institute of Physical and Chemical Research, Saitama, Japan.*

UF inst phys chem res rilac

UF ipcr linac

UF riken linac

UF saitama tunable heavy ion linac

\*BT1 heavy ion accelerators

\*BT1 linear accelerators

**riley-morgan process**

INIS: 2000-04-12; ETDE: 1977-08-24

*Redesign of the old Morgan fixed-bed gasifier for industrial plant gas supply.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal gasification

**rims**

INIS: 2000-04-12; ETDE: 1985-04-24

SEE resonance ionization mass spectroscopy

**rinderpest**

INIS: 1991-09-19; ETDE: 2002-05-11

USE viral diseases

**RING CHROMOSOMES**

BT1 chromosomes

**RING CURRENTS**

\*BT1 electric currents

RT electrojets

**RING LASERS**

INIS: 1992-08-18; ETDE: 1982-06-07

BT1 lasers

**ring oven method**

2000-04-12

*Concentration of solutes from a single drop in concentric rings on a disc of filter paper for the qualitative detection of elements.*

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE chemical analysis

**RINGHALS-1 REACTOR**

*Ringhals, Vaeroebacka, Sweden.*

\*BT1 bwr type reactors

**RINGHALS-2 REACTOR**

*Ringhals, Vaeroebacka, Sweden.*

\*BT1 pwr type reactors

**RINGHALS-3 REACTOR**

*Ringhals, Vaeroebacka, Sweden.*

\*BT1 pwr type reactors

**RINGHALS-4 REACTOR**

INIS: 1982-10-28; ETDE: 1982-11-30

\*BT1 pwr type reactors

**ringotron**

USE electron-ring accelerators

**RINGS**

RT configuration

RT shape

RT tori

**rings (storage)**

USE storage rings

**RINSC REACTOR**

*Rhode Island Atomic Energy Commission,*

*Rhode Island Nuclear Science Center,*

*Narragansett, Rhode Island, USA.*

UF rhode island nuclear science center reactor

\*BT1 pool type reactors

\*BT1 research reactors

**RIO BLANCO EVENT**

BT1 plowshare project

\*BT1 toggle operation

RT natural gas

**RIO BLANCO OIL SHALE PROJECT**

INIS: 2000-04-12; ETDE: 1976-03-11

UF tract c-a prototype oil shale project

RT colorado

RT oil shales

**RIO DECLARATION**

2000-01-03

*Rio Declaration on Environment and Development.*

\*BT1 multilateral agreements

RT climatic change

RT emissions tax

RT emissions trading

RT environmental impacts

RT environmental policy

RT environmental protection

RT greenhouse effect

**RIO GRANDE RIFT**

INIS: 1992-06-16; ETDE: 1976-08-24

RT colorado

RT new mexico

RT rift zones

**RIO GRANDE RIVER**

INIS: 1992-06-04; ETDE: 1980-09-04

\*BT1 rivers

RT colorado

RT mexico

RT new mexico

RT texas

**RIOMETERS**

BT1 measuring instruments

**RIPENING**

RT age dependence

RT growth

RT life cycle

RT physiology

**risa**

USE albumins

USE organic iodine compounds

**RISE**

2000-04-12

*Rise is a modified in-situ method of processing oil shale in which 20% of the mined shale is removed for retorting on the surface, the remainder is retorted in place making use of hot gas generated continuously from combustion of a portion of the oil shale, using an air stream. Rubble in-situ extraction.*

BT1 modified in-situ processes

RT in-situ retorting

RT oil shales

**rise time**

USE pulse rise time

**riser cracking**

INIS: 2000-04-12; ETDE: 1976-10-13

USE coal liquefaction

**rishon model**

INIS: 2000-04-12; ETDE: 1984-10-10

(Prior to January 1995, this was a valid ETDE descriptor.)

USE composite models

**risk analysis**

INIS: 1985-07-19; ETDE: 1978-04-27

(Prior to August 1985 this was a valid descriptor.)

USE risk assessment

**RISK ASSESSMENT**

INIS: 1985-07-19; ETDE: 1977-09-19

(Prior to August 1985 RISK ANALYSIS was used.)

UF deterministic safety assessment

UF probabilistic safety assessment

UF risk analysis

RT alara

RT deterministic estimation

RT energy source development

RT fuel cycle

RT fuel reprocessing plants

RT hazards

RT licensing regulations

RT nuclear power plants

RT probabilistic estimation

RT probability

RT radioactive waste management

RT reliability

RT safety analysis

RT safety margins

RT seismicity

RT source terms

**risks**

USE hazards

**RISOE NATIONAL LABORATORY**

INIS: 1978-04-21; ETDE: 1978-07-06

(Prior to 1978 known as RISOE RESEARCH ESTABLISHMENT, and documents written before that date should be so indexed.)

\*BT1 danish organizations

NT1 risoe research establishment

**RISOE RESEARCH ESTABLISHMENT**

INIS: 1977-03-14; ETDE: 1977-06-03

Name changed in early 1978 to RISOE NATIONAL LABORATORY, and documents written after that date should be so indexed.

UF research establishment risoe

\*BT1 risoe national laboratory

**RITAC DOSEMETERS**

Passive solid-state dosimeters based on Radiation Induced Thermally Activated Current.

\*BT1 dosimeters

RT ritad dosimeters

**RITAD DOSEMETERS**

Integral solid-state dosimeters based on Radiation Induced Thermally Activated Depolarization.

\*BT1 dosimeters

RT dielectric materials

RT ritac dosimeters

**ritchie-eldridge theory**

2000-04-12

(Prior to August 1996 this was a valid ETDE descriptor.)

SEE perturbation theory

**RITMO REACTOR**

National Nuclear Energy Committee, Rome, Italy.

UF rc-4 reactor casaccia

UF reattore casaccia-4

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 zero power reactors

**RITZ METHOD**

UF rayleigh-ritz method

UF ritz-rayleigh method

UF ritz variation method

BT1 calculation methods

RT variational methods

**ritz-rayleigh method**

USE ritz method

**ritz variation method**

USE ritz method

**RIVER BEND-1 REACTOR**

Entergy Operations, Inc., St. Francisville, Louisiana, USA.

\*BT1 bwr type reactors

**RIVER BEND-2 REACTOR**

Gulf States Utilities Co., St. Francisville, Louisiana, USA. Canceled in 1984 after construction began (1975).

\*BT1 bwr type reactors

**RIVER DELTAS**

INIS: 1992-06-04; ETDE: 1983-08-25

BT1 coastal regions

RT rivers

RT sediments

RT shores

RT wetlands

**RIVERS**

1997-06-19

Bodies of flowing water, generally wide, contained within channels.

UF alaska river

UF crystal river

UF scioto river

BT1 surface waters

NT1 allegheny river

NT1 altamaha river

NT1 amazon river

NT1 arkansas river

NT1 au sable river

NT1 blind river

NT1 brahmaputra river

NT1 brazos river

NT1 cape fear river

NT1 chattahoochee river

NT1 clinch river

NT1 colorado river

NT1 columbia river

NT1 connecticut river

NT1 cumberland river

NT1 danube river

NT1 delaware river

NT1 detroit river

NT1 dnier river

NT1 dudvah river

NT1 fraser river

NT1 ganga river

NT1 grand river

NT1 gunnison river

NT1 hron river

NT1 hudson river

NT1 james river

NT1 kennebec river

NT1 lewis river

NT1 little tennessee river

NT1 menominee river

NT1 mississippi river

NT1 missouri river

NT1 mohawk river

NT1 nelson river

NT1 niagara river

NT1 niger river

NT1 Nile river

NT1 north platte river

NT1 ohio river

NT1 ottawa river

NT1 peace river

NT1 piceance creek

NT1 po river

NT1 potomac river

NT1 pripet river

NT1 rhine river

NT1 rhone river

NT1 rio grande river

NT1 saginaw river

NT1 saint clair river

NT1 saint john river

NT1 santee river

NT1 savannah river

NT1 severn river

NT1 skagit river

NT1 st lawrence river

NT1 streams

NT1 susquehanna river

NT1 techa river

NT1 tennessee river

NT1 thames river

NT1 tigris river

NT1 vah river

NT1 volga river

NT1 white river

NT1 yangtze river

NT1 yellow creek

NT1 yellow river

NT1 yukon river

RT drainage

RT estuaries

RT flood control

RT fresh water

RT hydrology

RT inland waterways

RT river deltas

RT water currents

RT watersheds

**riveting**

USE fastening

**rivets**

USE fasteners

**rjh reactor**

2005-02-11

USE jules horowitz reactor

**rkr method**

USE rydberg-klein-rees method

**rmprocess**

INIS: 2000-04-12; ETDE: 1976-07-07

Methanation process which catalytically converts mixtures of carbon oxides obtained from coal or naphtha gasification to methane at high temperatures without recycle.

(Prior to July 1993, this was a valid ETDE descriptor.)

USE sng processes

**RNA**

1996-05-03

UF ribonucleic acid

\*BT1 nucleic acids

NT1 messenger-rna

NT1 ribosomal rna

NT1 transfer rna

RT gene operons

RT in-situ hybridization

RT introns

RT microsomes

RT nucleoli

RT ribosomes

RT rna polymerases

RT splicing

RT strand breaks

**RNA-ASE**

1995-01-10

Code number 3.1.4.22 and 3.1.4.34.

UF nuclease (ribonuclease)

UF ribonuclease

\*BT1 nucleases

RT rna processing

**RNA POLYMERASES**

INIS: 1995-01-10; ETDE: 1984-01-27

\*BT1 polymerases

RT dna polymerases

RT messenger-rna

RT nucleoproteins

RT rna

RT rna processing

RT transcription

RT transcription factors

**RNA PROCESSING**

INIS: 1995-01-10; ETDE: 1987-12-17

Extensive modifications newly transcribed messenger-RNA's undergo before they are used as templates for protein synthesis. Also the editing of primary transcripts of ribosomal RNA and transfer RNA's.

NT1 splicing

RT messenger-rna

RT nucleoproteins

RT rna-ase

RT rna polymerases

**rnpp-rooppur reactor**

USE rooppur reactor

**ro-07-0582**

INIS: 1981-08-06; ETDE: 1981-09-22

USE misonidazole

**ROAD OILS**

INIS: 2000-04-12; ETDE: 1979-12-10

*Oils or petroleum residues intended for cold application to road surfaces.*

\*BT1 oils

RT asphalts

RT petroleum

RT petroleum distillates

RT petroleum residues

**ROAD TESTS**

INIS: 2000-04-12; ETDE: 1977-05-07

BT1 testing

RT automobiles

RT buses

RT trucks

RT vehicles

**ROAD TRANSPORT**

INIS: 1981-03-10; ETDE: 1981-04-17

UF truck transport

\*BT1 land transport

RT motor vehicle accidents

RT roads

RT routing

RT vehicles

**ROADS**

1992-03-05

UF highways

UF streets

RT bridges

RT carpooling

RT pavements

RT road transport

RT roadway-powered electric vehicles

RT transport

RT vanpooling

**ROADWAY-POWERED ELECTRIC VEHICLES**

INIS: 2000-04-12; ETDE: 1981-04-17

\*BT1 electric-powered vehicles

RT roads

**roadways (mines)**

INIS: 1993-03-15; ETDE: 1978-05-03

USE mine roadways

**ROASTING**

\*BT1 oxidation

RT pyrometallurgy

**robert e. ginna-1 reactor**

USE ginna-1 reactor

**robert e. ginna-2 reactor**

USE ginna-2 reactor

**robinia pseudoacacia**

INIS: 2000-04-12; ETDE: 1986-04-29

USE locust trees

**ROBINSON-2 REACTOR***Carolina Power and Light Co., Hartsville, South Carolina, USA.*

UF carolina power light robinson-2

reactor

UF hb robinson-2

\*BT1 pwr type reactors

**ROBOTS**

INIS: 1984-04-04; ETDE: 1982-12-01

BT1 equipment

RT control equipment

RT control systems

RT materials handling equipment

RT remote handling equipment

**ROCHE EQUIPOTENTIALS**

UF roche lobes

BT1 potentials

RT binary stars

RT gravitational fields

**roche lobes**

USE roche equipotentials

**ROCHELLE SALT**

\*BT1 potassium compounds

\*BT1 sodium compounds

\*BT1 tartrates

RT tartaric acid

**ROCK BEDS**

INIS: 2000-04-12; ETDE: 1975-09-12

RT cold storage

RT heat storage

RT sensible heat storage

**ROCK BURSTS**

INIS: 1992-01-21; ETDE: 1977-05-09

*Explosive release of energy in rock strained beyond its elastic limit.*

UF gas bursts

RT hazards

RT mining

RT precursor

RT rock mechanics

RT seismic events

**ROCK CAVERNS**

INIS: 1998-10-01; ETDE: 1979-04-11

BT1 cavities

RT caves

RT rocks

**ROCK DRILLING**

UF drilling (rock)

BT1 drilling

\*BT1 materials drilling

RT boreholes

RT drills

RT rotary drilling

RT rotary drills

RT spark drills

RT subterrene penetrators

RT well drilling

**ROCK DUSTING**

INIS: 2000-04-12; ETDE: 1977-10-20

*Dusting of underground areas with powdered limestone or other nearly inert dusts to dilute coal dust to reduce explosion hazards.*

RT coal mines

RT dusts

**ROCK FALLS**

INIS: 2000-07-20; ETDE: 1988-01-21

RT rock mechanics

RT soil mechanics

RT strata movement

**ROCK-FLUID INTERACTIONS**

INIS: 1986-04-04; ETDE: 1975-11-11

RT chemical reactions

RT ground water

RT hydrothermal alteration

RT rocks

RT waste-rock interactions

**rock intrusion**

INIS: 1985-07-23; ETDE: 2002-05-11

*Process of emplacement of fluid material into pre-existing rock. Coordinate the descriptor below with other appropriate descriptor(s), e.g. POSITIONING, PETROGENESIS.*

USE plutonic rocks

**ROCK MECHANICS***Application of principles of mechanics and geology to quantify the response of rock to environmental forces.*

BT1 mechanics

RT dilatancy

RT geology

RT mechanical properties

RT mining

RT overburden

RT rock bursts

RT rock falls

RT rocks

RT soil mechanics

RT strata control

RT strata movement

**rock salt**

INIS: 2000-04-12; ETDE: 1981-11-10

USE salt deposits

**ROCK SPRINGS SITES**

2000-04-12

\*BT1 wyoming

RT oil shale deposits

**ROCKET ENGINES**

1994-08-26

\*BT1 heat engines

RT rockets

**rocket reactor experiment phoebus-1a**

1993-11-09

USE phoebus-1a reactor

**rocket reactor experiment phoebus-1b**

1993-11-09

USE phoebus-1b reactor

**rocket reactor experiment phoebus-2a**

1993-11-09

USE phoebus-2a reactor

**rocket reactor experiment rover**

2000-04-12

USE rover reactors

**ROCKETS**

1996-07-16

*(Prior to August 1996 ATLAS ROCKETS was a valid ETDE descriptor.)*

UF atlas rockets

RT ammunition

RT electronic guidance

RT launching

RT missile launching sites

RT missiles

RT navigational instruments

RT projectiles

RT propulsion systems

RT reentry

RT rocket engines

RT space flight

RT space vehicles



**rockgas process**

2000-04-12

Process for the gasification of coal using the partial oxidation of coal in a molten sodium carbonate medium to produce a low-btu fuel gas for consumption at the site of the gasification plant.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal gasification

**rocking curve**

INIS: 1984-04-04; ETDE: 2002-05-11

USE neutron diffraction

**ROCKS**

- NT1 caldasite
- NT1 igneous rocks
  - NT2 lava
  - NT2 plutonic rocks
    - NT3 diorites
    - NT3 gabbros
      - NT4 anorthosites
    - NT3 granites
      - NT4 aplites
      - NT4 granodiorites
      - NT4 quartz monzonite
    - NT3 pegmatites
    - NT3 peridotites
      - NT4 kimberlites
    - NT3 syenites
  - NT2 volcanic rocks
    - NT3 andesites
      - NT3 basalt
        - NT4 diabases
      - NT3 lamprophyres
        - NT4 kimberlites
      - NT3 nepheline basalts
      - NT3 perlite
      - NT3 rhyolites
      - NT3 trachytes
      - NT3 tuff
- NT1 metamorphic rocks
  - NT2 amphibolites
  - NT2 gneisses
  - NT2 granulites
  - NT2 marble
  - NT2 quartzites
  - NT2 schists
  - NT2 serpentinites
- NT1 sedimentary rocks
  - NT2 carbonate rocks
    - NT3 limestone
      - NT4 travertine
    - NT2 chert
    - NT2 conglomerates
      - NT3 calcretes
    - NT2 evaporites
    - NT2 phosphate rocks
      - NT3 phosphorites
    - NT2 sandstones
      - NT3 graywacke
    - NT2 shales
      - NT3 argillite
        - NT3 oil shales
          - NT4 black shales
    - NT2 siltstones
      - NT2 sinters
  - NT1 synthetic rocks
    - RT aquicludes
    - RT aquifers
    - RT basement rock
    - RT cap rock
    - RT concretions
    - RT environmental materials
    - RT geobarometry
    - RT geologic strata
    - RT lithology
    - RT lunar materials

- RT minerals
- RT orogenesis
- RT overburden
- RT petrogenesis
- RT petrology
- RT reefs
- RT reservoir rock
- RT rock caverns
- RT rock-fluid interactions
- RT rock mechanics
- RT source rocks
- RT stone meteorites
- RT tectonics
- RT waste-rock interactions

**rockwell flash hydroliquefaction****process**

2000-04-12

USE cs-r process

**ROCKWELL HARDNESS**

RT hardness

**rockwell international process**

INIS: 2000-04-12; ETDE: 1979-02-23

SEE molten salt coal gasification process  
SEE molten salt waste gasification process

**ROCKY FLATS PLANT**

- \*BT1 us aec
- \*BT1 us doe
- \*BT1 us erda
- RT colorado

**rocky flats plant nuclear safety facility**

1993-11-09

USE nsf-rfp reactor

**rocky mountain overthrust belt**

INIS: 2000-04-12; ETDE: 1982-07-27

USE western us overthrust belt

**rocky mountain region**

INIS: 2000-04-12; ETDE: 1977-10-20

(Prior to June 1982 this was a valid ETDE descriptor.)  
USE usa

**ROCKY MOUNTAINS**

- BT1 mountains
- RT canada
- RT usa

**rod bundles**

INIS: 1976-07-30; ETDE: 1975-07-29

(Prior to January 1995, this was a valid ETDE descriptor.)  
USE fuel element clusters

**ROD DROP ACCIDENTS**

- BT1 reactivity insertions
- \*BT1 reactor accidents
- RT control elements

**ROD DROP METHOD**

- RT control elements
- RT reactivity
- RT reactor kinetics

**ROD EJECTION ACCIDENTS**

- \*BT1 reactor accidents
- RT control elements
- RT reactivity insertions

**ROD PUMPS**

INIS: 2000-04-12; ETDE: 1984-03-19

- UF plunger pumps
- UF sucker rod pumps
- \*BT1 pumps
- RT natural gas wells

**RODENTS**

1996-11-13

(Prior to March 1997 CHIPMUNKS was a valid ETDE descriptor.)

- UF chipmunks
- UF kangaroo rat
- \*BT1 mammals
  - NT1 gerbils
  - NT1 guinea pigs
  - NT1 hamsters
  - NT1 mice
    - NT2 transgenic mice
  - NT1 prairie dogs
  - NT1 rats
  - NT1 squirrels
  - NT1 voles
- RT disease vectors
- RT pest control

**RODS**

- RT cylinders
- RT shape
- RT wires

**rods (control)**

USE control elements

**rods (fuel)**

USE fuel rods

**roentgen (exposure unit)**

For studies concerning units, concepts, or definitions. See also DOSE EQUIVALENTS.  
USE radiation dose units

**roentgen equivalent man**

For studies concerning units, concepts, or definitions. See also DOSE EQUIVALENTS.  
USE radiation dose units

**ROENTGENIUM**

2006-01-11

(Prior to January 2006 ELEMENT 111 was used for this element.)

- UF aka-gold
- UF element 111
- UF ununium
- \*BT1 transactinide elements

**ROENTGENIUM 272**

2006-01-11

(Prior to January 2006 ELEMENT 111 272 was used for this concept.)

- UF element 111 272
- \*BT1 alpha decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 roentgenium isotopes

**ROENTGENIUM 279**

2006-01-11

- \*BT1 alpha decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 roentgenium isotopes

**ROENTGENIUM 280**

2006-01-11

- \*BT1 alpha decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 odd-odd nuclei
- \*BT1 roentgenium isotopes
- \*BT1 seconds living radioisotopes

**ROENTGENIUM COMPOUNDS**

2006-01-11

(Prior to January 2006 ELEMENT 111 COMPOUNDS was used for this concept.)

- UF element 111 compounds
- \*BT1 transactinide compounds

**ROENTGENIUM ISOTOPES**

2006-01-11

(Prior to January 2006 ELEMENT 111 ISOTOPES was used for this concept.)

UF *element 111 isotopes*

BT1 isotopes

NT1 roentgenium 272

NT1 roentgenium 279

NT1 roentgenium 280

**ROGOWSKI COIL**

\*BT1 electric coils

**ROKKASHO REPROCESSING****PLANT**

2006-04-19

\*BT1 fuel reprocessing plants

**roll welding**

USE forge welding

**rolla research reactor**

INIS: 1984-06-21; ETDE: 2002-05-11

USE umrr reactor

**ROLLED-IN PRICING**

INIS: 2000-04-12; ETDE: 1980-05-23

*Weighted average cost of fuels; higher cost fuels averaged in with lower cost fuels.*

BT1 prices

RT fuel substitution

RT fuels

RT marginal-cost pricing

**ROLLER BEARINGS**

BT1 bearings

**ROLLING**

\*BT1 materials working

RT cladding

RT cold working

RT compacting

RT hot working

RT plating

**ROLLING FRICTION**

BT1 friction

RT gears

RT wear

**rolphton npd-2 reactor**

1977-01-25

(Prior to July 1985 this was valid ETDE descriptor.)

USE npd reactor

**ROMANIA**UF *rumania*

BT1 developing countries

\*BT1 eastern europe

RT black sea

RT centrally planned economies

RT danube river

**ROMANIAN ORGANIZATIONS**

1999-05-11

BT1 national organizations

**romanian wwr-c reactor**

USE wwr-s-bucharest reactor

**ROMASHKA REACTOR***Kurchatov Inst., Russian Federation.*UF *kurchatov institute romashka reactor*

\*BT1 research reactors

\*BT1 solid homogeneous reactors

**rombach process**

2000-04-12

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

**rome triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-05-11

USE triga-2-rome reactor

**romeo event**

INIS: 1994-10-14; ETDE: 1984-05-23

*A test made during PROJECT CASTLE.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE atmospheric explosions

USE nuclear explosions

**ROOF BOLTS**

INIS: 1999-05-19; ETDE: 1976-07-07

\*BT1 mining equipment

RT strata control

RT supports

**ROOF PONDS**

INIS: 2000-05-08; ETDE: 1979-02-27

\*BT1 passive solar cooling systems

\*BT1 passive solar heating systems

\*BT1 solar ponds

RT roofs

**ROOFS**

INIS: 1986-04-04; ETDE: 1975-09-11

UF *building envelope*

BT1 mechanical structures

RT buildings

RT roof ponds

**ROOM AND PILLAR MINING**

INIS: 1992-08-28; ETDE: 1977-07-23

\*BT1 underground mining

RT coal mining

**ROOPPUR REACTOR**UF *rnpp-rooppur reactor*

\*BT1 pwr type reactors

**ROOSEVELT HOT SPRINGS**

INIS: 2000-04-12; ETDE: 1979-01-30

BT1 kgra

\*BT1 utah

RT geothermal fields

**ROOT ABSORPTION**UF *absorption (root)*

\*BT1 absorption

BT1 uptake

RT roots

**ROOTS**

RT plants

RT root absorption

RT soils

**ROPE PROCESS**

INIS: 2000-04-12; ETDE: 1989-10-06

*Recycle oil pyrolysis extraction.*

RT oil sands

RT oil shales

RT pyrolysis

RT retorting

**roper resonance**

USE n-1440 baryons

**ROPES**

INIS: 2000-04-12; ETDE: 1978-10-30

RT cables

RT chains

RT wires

**rort**

INIS: 2000-04-12; ETDE: 1978-10-23

USE radial-outflow reaction turbines

**ROSACEAE**

INIS: 1992-01-13; ETDE: 1989-06-05

*Rose family.*

\*BT1 magnoliopsida

NT1 strawberries

RT apples

RT apricots

RT cherries

RT peaches

RT pears

RT plums

RT raspberries

**ROSE BENGAL**

BT1 dyes

\*BT1 hydroxy acids

BT1 indicators

\*BT1 organic chlorine compounds

\*BT1 organic iodine compounds

BT1 reagents

RT phthalic acid

**ROSE-METAL**

2000-04-12

\*BT1 bismuth alloys

\*BT1 lead alloys

\*BT1 tin alloys

**ROSE PROCESS**

INIS: 2000-04-12; ETDE: 1976-08-25

*Residium Oil Supercritical Extraction process involves use of variety of selective solvents for extractive treatment of reduced crude oils and vacuum residues.*

RT residual fuels

**rosenblum counters**

USE spark counters

**ROSENBLUTH FORMULA**

RT cross sections

RT elastic scattering

RT four momentum transfer

**rosenbluth-nelkin model**

1996-07-23

(Until July 1996 this was a valid descriptor.)

SEE neutron transport theory

**ROSENFELD FORCE**UF *rosenfeld mixture*

RT nucleon-nucleon potential

RT nucleons

RT potentials

**rosenfeld mixture**

USE rosenfeld force

**ROSPO REACTOR**

1986-10-29

UF *casaccia rospo reactor*UF *reattore organico sperimentale**potenza zero*

\*BT1 enriched uranium reactors

\*BT1 organic moderated reactors

\*BT1 tank type reactors

\*BT1 zero power reactors

**ROSSELAND APPROXIMATION**

\*BT1 approximations

RT boundary layers

RT heat transfer

RT thermal radiation

**rossendorf assembly for critical experiments**

INIS: 1993-11-09; ETDE: 1975-09-11

USE rake-2 reactor

**rossendorf wwr-sm reactor**

INIS: 1984-06-21; ETDE: 2002-05-11

USE wwr-sm rossendorf reactor

**rossendorf zfk**

1991-05-02

USE zfk rossendorf

**ROSSI ALPHA METHOD**

*RT* reactor period

**ROTAMAK DEVICES**

*INIS: 1986-08-19; ETDE: 1986-09-05*

*A compact torus device in which a rotating magnetic field is used to maintain the toroidal plasma current.*

\*BT1 compact torus

**ROTARY DRILLING**

*INIS: 2000-04-12; ETDE: 1977-03-08*

BT1 drilling  
*RT* drilling equipment  
*RT* drilling fluids  
*RT* rock drilling  
*RT* well drilling

**ROTARY DRILLS**

*INIS: 1997-06-19; ETDE: 1977-03-08*

\*BT1 drills  
 NT1 turbodrills  
*RT* drill bits  
*RT* rock drilling  
*RT* well drilling

**ROTARY ENGINES**

*INIS: 2000-04-12; ETDE: 1975-10-01*

*SF* krov machine  
 \*BT1 internal combustion engines  
 NT1 wankel engines  
*RT* helical rotary screw expander

**ROTARY SEPARATOR TURBINES**

*INIS: 2000-04-12; ETDE: 1980-03-04*

\*BT1 turbines  
*RT* total flow systems

**ROTATING CRYSTAL METHOD**

BT1 diffraction methods  
*RT* weissenberg method

**ROTATING DISK REMOVAL SYSTEMS**

*INIS: 2000-04-12; ETDE: 1978-01-23*

\*BT1 pollution control equipment  
*RT* oil spills  
*RT* water pollution control

**ROTATING GENERATORS**

*1999-06-30*

\*BT1 electric generators  
 NT1 superconducting generators

**ROTATING PLASMA**

*INIS: 1981-08-31; ETDE: 1981-09-22*

BT1 plasma

**ROTATION**

BT1 motion  
*RT* angular momentum  
*RT* backbending  
*RT* coriolis force  
*RT* guiding-center approximation  
*RT* gyroscopes  
*RT* moment of inertia  
*RT* precession

**ROTATION-VIBRATION MODEL**

*INIS: 1991-09-25; ETDE: 1991-12-05*

\*BT1 collective model  
*RT* deformed nuclei  
*RT* rotational states  
*RT* vibrational states

**rotational band**

USE rotational states

**ROTATIONAL INVARIANCE**

BT1 invariance principles  
*RT* axial symmetry

**ROTATIONAL STATES**

*UF* collective states (rotational)  
*UF* rotational band  
 \*BT1 excited states  
*RT* backbending  
*RT* rotation-vibration model

**ROTATIONAL TRANSFORM**

*1999-07-26*

*The displacement of a magnetic line of force in a single circuit about a toroidal tube so that it does not close upon itself.*

*RT* magnetic confinement  
*RT* magnetic field configurations  
*RT* magnetic fields  
*RT* magnetic flux coordinates  
*RT* magnetic surfaces  
*RT* reversed-field pinch devices  
*RT* reversed shear  
*RT* sawtooth oscillations  
*RT* shear  
*RT* thermonuclear devices  
*RT* tori  
*RT* toroidal configuration

**ROTIFERA**

*INIS: 1993-07-19; ETDE: 1983-04-28*

*A phylum of multicellular animals in the subkingdom eumetazoa.*

BT1 aquatic organisms  
 \*BT1 invertebrates  
*RT* aquatic ecosystems  
*RT* fresh water

**rotliegende epoch**

*INIS: 2000-04-12; ETDE: 1977-10-20*

USE permian period

**ROTONS**

BT1 quasi particles  
*RT* landau liquid helium theory

**ROTORS**

*SF* krov machine  
 NT1 darrius rotors  
 NT1 flywheels  
 NT1 madaras rotors  
 NT1 savonius rotors  
 NT1 tipvane rotors  
*RT* armatures  
*RT* machine parts  
*RT* stators

**rotterdam spot market**

*INIS: 1992-01-29; ETDE: 1979-12-10*

USE spot market

**rough vacuum**

SEE pressure range kilo pa  
 SEE pressure range pa

**ROUGHNESS**

*UF* smoothness  
 BT1 surface properties

**rous sarcoma virus**

*INIS: 1976-03-25; ETDE: 1975-08-19*

USE oncogenic viruses

**ROUTING**

*INIS: 1984-01-18; ETDE: 1983-09-15*

*UF* transportation routes  
*RT* evacuation  
*RT* external zones  
*RT* rail transport  
*RT* road transport  
*RT* waste transportation

**ROVER REACTORS**

*UF* rocket reactor experiment rover  
 \*BT1 experimental reactors  
 \*BT1 hydrogen cooled reactors

\*BT1 space propulsion reactors

**ROVNO-1 REACTOR**

*INIS: 1984-08-23; ETDE: 1978-04-06*

\*BT1 wwer type reactors

**ROVNO-2 REACTOR**

*INIS: 1984-08-23; ETDE: 1978-04-06*

\*BT1 wwer type reactors

**ROVNO-3 REACTOR**

*INIS: 1984-08-23; ETDE: 1978-04-06*

\*BT1 wwer type reactors

**ROVNO-4 REACTOR**

*INIS: 1984-08-23; ETDE: 1984-09-20*

\*BT1 wwer type reactors

**ROVNO-5 REACTOR**

*INIS: 1984-08-23; ETDE: 1984-09-20*

\*BT1 wwer type reactors

**ROWE YANKEE REACTOR**

*Yankee Atomic Electric, Rowe, Massachusetts, USA. Shut down in 1991; decommissioned in 1995.*

*UF* yankee rowe reactor

\*BT1 pwr type reactors

**ROXBYS DOWNS DEPOSIT**

*INIS: 1980-12-01; ETDE: 1981-01-09*

\*BT1 uranium deposits  
*RT* olympic dam mine  
*RT* south australia  
*RT* uranium ores

**royal jelly**

*2000-04-12*

*(Prior to August 1996 this was a valid ETDE descriptor.)*

SEE radioprotective substances

**ROYALTIES**

*INIS: 1999-03-04; ETDE: 1978-11-14*

*Payment to the owner or grantor as a share of the product or profit from the use of a property.*

BT1 income  
*RT* economics  
*RT* mineral resources  
*RT* profits

**RP-10 REACTOR**

*INIS: 1987-08-27; ETDE: 1987-10-02*

*Peruvian Nuclear Energy Institute, lima, Peru.*

\*BT1 pool type reactors  
 \*BT1 research reactors

**RPL DOSEMETERS**

*UF* fluorod  
*UF* glass dosimeters  
*UF* radiophotoluminescent dosimeters  
 \*BT1 luminescent dosimeters  
*RT* phosphate glass

**RPT REACTOR**

*Moscow, Russian Federation.*

*UF* mr-2 moscow reactor  
*UF* physical and technical research reactor moscow  
 \*BT1 enriched uranium reactors  
 \*BT1 lwgr type reactors  
 \*BT1 mixed spectrum reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors

**rra**

*INIS: 1984-04-04; ETDE: 2002-05-11*

USE radioreceptor assay

**rrc, kalpakkam**

*INIS: 1977-03-14; ETDE: 2002-05-11*

USE igcar

**rscw reactor**

USE wsur reactor

**rsi avogadro reactor**

USE avogadro rs-1 reactor

**RTP REACTOR**

1984-12-04

Reaktor Triga Puspati.

UF puspati triga reactor

UF reactor triga puspati

UF triga puspati reactor

\*BT1 isotope production reactors

\*BT1 triga type reactors

**RTP TOKAMAK**

1993-08-03

Rijnhuizen Tokamak Project, Netherlands.

\*BT1 tokamak devices

**rtr method**

INIS: 2000-04-12; ETDE: 1980-02-11

USE ribbon-to-ribbon method

**RTR REACTOR**

Savannah River Plant, Aiken, South Carolina, USA.

UF resonance test reactor savannah

UF savannah river lab rtr reactor

\*BT1 heavy water moderated reactors

\*BT1 production reactors

**RTS-1 REACTOR**

Centre for Military Applications of Nuclear Energy, Pisa, Italy.

UF galileo galilei italy

UF san piero a grado pisa reactor

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 training reactors

**rubber (natural)**

USE natural rubber

**RUBBER INDUSTRY**

INIS: 1993-09-01; ETDE: 1980-05-23

BT1 industry

RT rubbers

**RUBBER TREES**

1997-06-17

\*BT1 euphorbia

\*BT1 trees

NT1 guayule

NT1 hevea

RT natural rubber

**RUBBERS**

\*BT1 elastomers

\*BT1 organic polymers

NT1 buna

NT1 latex

NT1 natural rubber

NT1 silastic

NT1 viton

RT dielectric materials

RT ethylene propylene diene polymers

RT plasticizers

RT rubber industry

RT synthetic materials

RT vulcanization

**rubella virus**

INIS: 1980-04-02; ETDE: 1980-05-06

USE measles virus

**rubeola**

INIS: 1976-06-23; ETDE: 1976-08-24

USE measles

**rubeola virus**

INIS: 1980-04-02; ETDE: 1980-05-06

USE measles virus

**RUBIDIUM**

\*BT1 alkali metals

**RUBIDIUM 100**

INIS: 1976-03-02; ETDE: 1975-11-11

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rubidium isotopes

**RUBIDIUM 101**

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 rubidium isotopes

**RUBIDIUM 102**

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 rubidium isotopes

**RUBIDIUM 103**

INIS: 1982-06-09; ETDE: 1982-07-08

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 rubidium isotopes

**RUBIDIUM 73**

INIS: 1992-09-23; ETDE: 1980-06-22

\*BT1 beta-plus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 rubidium isotopes

**RUBIDIUM 74**

INIS: 1977-06-14; ETDE: 1977-10-20

\*BT1 beta-plus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rubidium isotopes

**RUBIDIUM 75**

\*BT1 beta-plus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 rubidium isotopes

\*BT1 seconds living radioisotopes

**RUBIDIUM 76**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 microseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rubidium isotopes

\*BT1 seconds living radioisotopes

**RUBIDIUM 77**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 rubidium isotopes

**RUBIDIUM 78**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rubidium isotopes

**RUBIDIUM 79**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 rubidium isotopes

**RUBIDIUM 80**

\*BT1 beta-plus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 rubidium isotopes

\*BT1 seconds living radioisotopes

**RUBIDIUM 81**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 internal conversion radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 rubidium isotopes

**RUBIDIUM 82**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rubidium isotopes

**RUBIDIUM 83**

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 rubidium isotopes

**RUBIDIUM 84**

\*BT1 beta-minus decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rubidium isotopes

**RUBIDIUM 84 TARGET**

INIS: 1976-07-06; ETDE: 1976-08-24

BT1 targets

**RUBIDIUM 85**

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 nanoseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 rubidium isotopes

\*BT1 stable isotopes

**RUBIDIUM 85 TARGET**

ETDE: 1976-07-09

BT1 targets

**RUBIDIUM 86**

\*BT1 beta-minus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 rubidium isotopes

**RUBIDIUM 87**

\*BT1 beta-minus decay radioisotopes

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes
- \*BT1 years living radioisotopes

**RUBIDIUM 87 TARGET***ETDE: 1976-07-09*

- BT1 targets

**RUBIDIUM 88**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 88 TARGET***INIS: 1980-07-24; ETDE: 1980-08-12*

- BT1 targets

**RUBIDIUM 89**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 90**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 91**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes
- \*BT1 seconds living radioisotopes

**RUBIDIUM 92**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes
- \*BT1 seconds living radioisotopes

**RUBIDIUM 93**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes
- \*BT1 seconds living radioisotopes

**RUBIDIUM 94**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes
- \*BT1 seconds living radioisotopes

**RUBIDIUM 95**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 96**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 97**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 98**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM 99**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rubidium isotopes

**RUBIDIUM ADDITIONS***Alloys containing not more than 1% Rb are listed here.*

- \*BT1 rubidium alloys

**RUBIDIUM ALLOYS***Alloys containing more than 1% Rb.*

- BT1 alloys
- NT1 rubidium additions
- NT1 rubidium base alloys

**RUBIDIUM BASE ALLOYS**

- \*BT1 rubidium alloys

**RUBIDIUM BROMIDES**

- \*BT1 bromides
- \*BT1 rubidium compounds

**RUBIDIUM CARBIDES***INIS: 1981-02-27; ETDE: 1976-03-22*

- \*BT1 carbides
- \*BT1 rubidium compounds

**RUBIDIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 rubidium compounds

**RUBIDIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 rubidium compounds

**RUBIDIUM COMPLEXES**

- \*BT1 alkali metal complexes

**RUBIDIUM COMPOUNDS***1997-06-19*

- BT1 alkali metal compounds
- NT1 rubidium bromides
- NT1 rubidium carbides
- NT1 rubidium carbonates
- NT1 rubidium chlorides
- NT1 rubidium fluorides
- NT1 rubidium hydrides
- NT1 rubidium hydroxides
- NT1 rubidium iodides
- NT1 rubidium nitrates
- NT1 rubidium oxides
- NT1 rubidium perchlorates
- NT1 rubidium phosphates
- NT1 rubidium selenides
- NT1 rubidium silicates
- NT1 rubidium silicides
- NT1 rubidium sulfates
- NT1 rubidium sulfides
- NT1 rubidium tellurides
- NT1 rubidium tungstates
- NT1 rubidium uranates

**RUBIDIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 rubidium compounds

**RUBIDIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 rubidium compounds

**RUBIDIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 rubidium compounds

**RUBIDIUM IODIDES**

- \*BT1 iodides
- \*BT1 rubidium compounds

**RUBIDIUM IONS**

- \*BT1 ions

**RUBIDIUM ISOTOPES***1999-07-16*

- BT1 isotopes
- NT1 rubidium 100
- NT1 rubidium 101
- NT1 rubidium 102
- NT1 rubidium 103
- NT1 rubidium 73
- NT1 rubidium 74
- NT1 rubidium 75
- NT1 rubidium 76
- NT1 rubidium 77
- NT1 rubidium 78
- NT1 rubidium 79
- NT1 rubidium 80
- NT1 rubidium 81
- NT1 rubidium 82
- NT1 rubidium 83
- NT1 rubidium 84
- NT1 rubidium 85
- NT1 rubidium 86
- NT1 rubidium 87
- NT1 rubidium 88
- NT1 rubidium 89
- NT1 rubidium 90
- NT1 rubidium 91
- NT1 rubidium 92
- NT1 rubidium 93
- NT1 rubidium 94
- NT1 rubidium 95
- NT1 rubidium 96
- NT1 rubidium 97
- NT1 rubidium 98
- NT1 rubidium 99

**RUBIDIUM NITRATES**

- \*BT1 nitrates
- \*BT1 rubidium compounds

**RUBIDIUM OXIDES**

- \*BT1 oxides
- \*BT1 rubidium compounds

**RUBIDIUM PERCHLORATES***2000-04-12*

- \*BT1 perchlorates
- \*BT1 rubidium compounds

**RUBIDIUM PHOSPHATES**

- \*BT1 phosphates
- \*BT1 rubidium compounds

**RUBIDIUM SELENIDES***INIS: 1991-09-16; ETDE: 1980-09-05*

- \*BT1 rubidium compounds
- \*BT1 selenides

**RUBIDIUM SILICATES***INIS: 1977-01-26; ETDE: 1976-11-01*

- \*BT1 rubidium compounds
- \*BT1 silicates

**RUBIDIUM SILICIDES***INIS: 1991-09-16; ETDE: 1977-01-10*

- \*BT1 rubidium compounds
- \*BT1 silicides

**RUBIDIUM SULFATES**

- \*BT1 rubidium compounds
- \*BT1 sulfates

**RUBIDIUM SULFIDES***INIS: 1991-09-16; ETDE: 1976-02-19*

- \*BT1 rubidium compounds
- \*BT1 sulfides

**RUBIDIUM TELLURIDES**

INIS: 2000-04-12; ETDE: 1979-05-03

- \*BT1 rubidium compounds
- \*BT1 tellurides

**RUBIDIUM TUNGSTATES**

1978-05-19

- \*BT1 rubidium compounds
- \*BT1 tungstates

**RUBIDIUM URANATES**

INIS: 1975-11-27; ETDE: 1975-08-19

- \*BT1 rubidium compounds
- \*BT1 uranates

**RUBREDOXIN**

INIS: 2000-04-12; ETDE: 1982-08-24

- \*BT1 metalloproteins
- RT ferredoxin
- RT iron complexes

**RUBY**

- \*BT1 corundum

**RUBY LASERS**

- \*BT1 solid state lasers

**RUDERMAN-KITTEL COUPLING**

- BT1 coupling

**RUDSTAM FORMULA**

- RT spallation

**RUHR 100 GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1983-04-07

*The Ruhr 100 gasifier is basically a Lurgi type gasifier with modifications for high pressure operation.*

- \*BT1 coal gasification

**rulison event**

1994-10-14

*A test made during OPERATION MANDREL.*

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE nuclear explosions
- USE underground explosions

**RUM JUNGLE MINE**

INIS: 1999-10-28; ETDE: 1999-11-01

(Until October 1999 this was spelled RUM JUNGLE.)

- UF *rum jungle project*
- \*BT1 uranium mines
- RT australia

**rum jungle project**

2000-04-12

- USE rum jungle mine

**rumania**

- USE romania

**rumen**

- USE ruminants
- USE stomach

**RUMINANTS**

1996-11-13

(Prior to March 1997 ANTELOPES was a valid ETDE descriptor.)

- UF *antelopes*
- UF *rumen*
- \*BT1 mammals
- NT1 buffalo
- NT1 camels
- NT1 cattle
- NT2 calves
- NT2 cows

- NT1 deer
- NT1 goats
- NT1 llamas
- NT1 sheep

**runaway (reactor accident)**

- USE excursions

**RUNAWAY ELECTRONS**

- \*BT1 electrons
- RT tail electrons

**RUNGE-KUTTA METHOD**

INIS: 1981-03-23; ETDE: 1978-08-07

*A self-optimizing interpolation method.*

- \*BT1 iterative methods
- \*BT1 numerical solution
- RT differential equations
- RT interpolation
- RT mathematics

**RUNOFF**

INIS: 1992-02-23; ETDE: 1978-07-05

- \*BT1 environmental transport
- RT atmospheric precipitations
- RT drainage
- RT floods
- RT interception
- RT rain water
- RT settling ponds
- RT storms
- RT throughfall
- RT watersheds

**rupture disks**

1986-04-04

- USE relief valves

**RUPTURES**

- BT1 failures
- RT fracture properties
- RT fractures

**RURAL AREAS**

- RT boom towns
- RT remote areas
- RT residential sector
- RT rural energy centers
- RT rural populations

**rural electrification administration**

INIS: 2000-04-12; ETDE: 1979-09-06

- USE us rea

**RURAL ENERGY CENTERS**

INIS: 2000-04-12; ETDE: 1977-08-09

*Centers to improve the basic living environment by exploiting renewable energy at the rural level.*

- RT developing countries
- RT energy facilities
- RT energy parks
- RT rural areas

**RURAL POPULATIONS**

- \*BT1 human populations
- RT rural areas

**russell-saunders coupling**

- USE l-s coupling

**russellville-1 arkansas reactor**

1993-11-09

- USE arkansas-1 reactor

**russellville-2 arkansas reactor**

1993-11-09

- USE arkansas-2 reactor

**RUSSIAN FEDERATION**

INIS: 1997-08-20; ETDE: 1992-12-03

(Until January 1993, this was indexed by USSR.)

- SF *soviet union*
- SF *union of soviet socialist republics*
- SF *ussr*
- \*BT1 eastern europe

- NT1 dubna
- NT1 kamchatka
- NT1 kurile islands
- NT1 lovozero
- NT1 novaya zemlya
- NT1 siberia
- RT caspian sea
- RT caucasus
- RT kyshtym plant
- RT mayak plant
- RT techa river
- RT urals
- RT volga river

**RUSSIAN ORGANIZATIONS**

1997-07-30

(Until July 1997 this concept was indexed to USSR ORGANIZATIONS.)

- UF *ussr organizations*
- BT1 national organizations
- NT1 gosatomnadzor rossii
- NT1 ihep
- NT1 st petersburg institute of nuclear physics

**russian state nuclear and radiation safety authority**

INIS: 2000-04-12; ETDE: 1997-08-23

- USE gosatomnadzor rossii

**russian thistle**

INIS: 2000-04-12; ETDE: 1981-04-17

(Prior to March 1997 TUMBLEWEEDS was used for this concept in ETDE.)

- USE magnoliopsida

**RUTHENIUM**

- \*BT1 platinum metals
- \*BT1 refractory metals

**RUTHENIUM 100**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 stable isotopes

**RUTHENIUM 100 TARGET**

ETDE: 1976-07-09

- BT1 targets

**RUTHENIUM 101**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 stable isotopes

**RUTHENIUM 101 TARGET**

INIS: 1976-10-07; ETDE: 1976-11-01

- BT1 targets

**RUTHENIUM 102**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 stable isotopes

**RUTHENIUM 102 TARGET**

INIS: 1975-10-23; ETDE: 1976-07-09

- BT1 targets

**RUTHENIUM 103**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes

**RUTHENIUM 103 TARGET**

INIS: 1984-02-23; ETDE: 1981-08-21

- BT1 targets

**RUTHENIUM 104**

- \*BT1 even-even nuclei

- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 stable isotopes

**RUTHENIUM 104 REACTIONS**

*INIS: 1984-08-23; ETDE: 1984-09-20*  
\*BT1 heavy ion reactions

**RUTHENIUM 104 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**RUTHENIUM 105**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes

**RUTHENIUM 106**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 years living radioisotopes

**RUTHENIUM 107**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 ruthenium isotopes

**RUTHENIUM 108**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 ruthenium isotopes

**RUTHENIUM 109**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 seconds living radioisotopes

**RUTHENIUM 110**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 seconds living radioisotopes

**RUTHENIUM 111**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 seconds living radioisotopes

**RUTHENIUM 112**

*1979-01-18*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 ruthenium isotopes  
\*BT1 seconds living radioisotopes

**RUTHENIUM 113**

*INIS: 1979-01-18; ETDE: 1979-02-23*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 ruthenium isotopes  
\*BT1 seconds living radioisotopes

**RUTHENIUM 114**

*1993-03-09*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes

- \*BT1 ruthenium isotopes

**RUTHENIUM 88**

*1995-02-27*  
\*BT1 beta-plus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 ruthenium isotopes

**RUTHENIUM 89**

*1999-09-22*  
\*BT1 beta-plus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 ruthenium isotopes  
\*BT1 seconds living radioisotopes

**RUTHENIUM 90**

*INIS: 1996-11-27; ETDE: 1996-01-12*  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 ruthenium isotopes  
\*BT1 seconds living radioisotopes

**RUTHENIUM 91**

*1983-09-05*  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 ruthenium isotopes  
\*BT1 seconds living radioisotopes

**RUTHENIUM 92**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 ruthenium isotopes

**RUTHENIUM 93**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 ruthenium isotopes  
\*BT1 seconds living radioisotopes

**RUTHENIUM 94**

\*BT1 electron capture radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 ruthenium isotopes

**RUTHENIUM 95**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 ruthenium isotopes

**RUTHENIUM 96**

\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 ruthenium isotopes  
\*BT1 stable isotopes

**RUTHENIUM 96 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**RUTHENIUM 97**

\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 ruthenium isotopes

**RUTHENIUM 98**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 stable isotopes

**RUTHENIUM 98 TARGET**

*1979-02-21*  
BT1 targets

**RUTHENIUM 99**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 ruthenium isotopes
- \*BT1 stable isotopes

**RUTHENIUM 99 TARGET**

*INIS: 1978-11-24; ETDE: 1978-12-20*  
BT1 targets

**RUTHENIUM ADDITIONS**

*Alloys containing not more than 1% Ru are listed here.*  
\*BT1 ruthenium alloys

**RUTHENIUM ALLOYS**

*Alloys containing more than 1% Ru.*  
\*BT1 platinum metal alloys  
NT1 ruthenium additions  
NT1 ruthenium base alloys

**RUTHENIUM ARSENIDES**

*INIS: 2000-04-12; ETDE: 1984-06-14*  
\*BT1 arsenides  
\*BT1 ruthenium compounds

**RUTHENIUM BASE ALLOYS**

- \*BT1 ruthenium alloys

**RUTHENIUM BORIDES**

*1976-02-05*  
\*BT1 borides  
\*BT1 ruthenium compounds

**RUTHENIUM BROMIDES**

*INIS: 1977-06-13; ETDE: 1977-10-20*  
\*BT1 bromides  
\*BT1 ruthenium compounds

**RUTHENIUM CARBIDES**

- \*BT1 carbides
- \*BT1 ruthenium compounds

**RUTHENIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 ruthenium compounds

**RUTHENIUM COMPLEXES**

- \*BT1 transition element complexes

**RUTHENIUM COMPOUNDS**

*1997-06-19*  
BT1 refractory metal compounds  
BT1 transition element compounds  
NT1 ruthenium arsenides  
NT1 ruthenium borides  
NT1 ruthenium bromides  
NT1 ruthenium carbides  
NT1 ruthenium chlorides  
NT1 ruthenium fluorides  
NT1 ruthenium hydrides  
NT1 ruthenium hydroxides  
NT1 ruthenium nitrates  
NT1 ruthenium nitrides  
NT1 ruthenium nitrosyls  
NT1 ruthenium oxides  
NT1 ruthenium phosphides  
NT1 ruthenium selenides  
NT1 ruthenium silicides  
NT1 ruthenium sulfates  
NT1 ruthenium sulfides  
NT1 ruthenium tellurides

**RUTHENIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 ruthenium compounds

**RUTHENIUM HYDRIDES**

INIS: 1976-02-05; ETDE: 1975-10-28

- \*BT1 hydrides
- \*BT1 ruthenium compounds

**RUTHENIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 ruthenium compounds

**RUTHENIUM IONS**

- \*BT1 ions

**RUTHENIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 ruthenium 100
- NT1 ruthenium 101
- NT1 ruthenium 102
- NT1 ruthenium 103
- NT1 ruthenium 104
- NT1 ruthenium 105
- NT1 ruthenium 106
- NT1 ruthenium 107
- NT1 ruthenium 108
- NT1 ruthenium 109
- NT1 ruthenium 110
- NT1 ruthenium 111
- NT1 ruthenium 112
- NT1 ruthenium 113
- NT1 ruthenium 114
- NT1 ruthenium 88
- NT1 ruthenium 89
- NT1 ruthenium 90
- NT1 ruthenium 91
- NT1 ruthenium 92
- NT1 ruthenium 93
- NT1 ruthenium 94
- NT1 ruthenium 95
- NT1 ruthenium 96
- NT1 ruthenium 97
- NT1 ruthenium 98
- NT1 ruthenium 99

**RUTHENIUM NITRATES**

- \*BT1 nitrates
- \*BT1 ruthenium compounds

**RUTHENIUM NITRIDES**

INIS: 2000-04-12; ETDE: 1975-12-16

- \*BT1 nitrides
- \*BT1 ruthenium compounds

**RUTHENIUM NITROSYLS**

- \*BT1 ruthenium compounds

**RUTHENIUM OXIDES**

- \*BT1 oxides
- \*BT1 ruthenium compounds

**RUTHENIUM PHOSPHIDES**

1978-07-03

- \*BT1 phosphides
- \*BT1 ruthenium compounds

**RUTHENIUM SELENIDES**

INIS: 1991-09-16; ETDE: 1976-04-19

- \*BT1 ruthenium compounds
- \*BT1 selenides

**RUTHENIUM SILICIDES**

INIS: 1986-07-09; ETDE: 1985-10-25

- \*BT1 ruthenium compounds
- \*BT1 silicides

**RUTHENIUM SULFATES**

- \*BT1 ruthenium compounds
- \*BT1 sulfates

**RUTHENIUM SULFIDES**

INIS: 1978-11-24; ETDE: 1978-12-20

- \*BT1 ruthenium compounds
- \*BT1 sulfides

**RUTHENIUM TELLURIDES**

INIS: 1991-09-16; ETDE: 1977-03-04

- \*BT1 ruthenium compounds
- \*BT1 tellurides

**rutherford backscattering****spectrometry**

2002-11-25

- USE rutherford backscattering spectroscopy

**RUTHERFORD BACKSCATTERING SPECTROSCOPY**

2002-11-25

(Prior to Dec 2002 RUTHERFORD SCATTERING + BACKSCATTERING was used for this concept.)

- UF rbs
- UF rutherford backscattering spectrometry
- BT1 spectroscopy
- RT backscattering
- RT ion spectroscopy
- RT rutherford scattering

**RUTHERFORD SCATTERING**

- \*BT1 elastic scattering
- RT rutherford backscattering spectroscopy

**rutherfordite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE carbonate minerals
- USE uranium minerals

**RUTHERFORDIUM**

2004-03-12

(Prior to March 2004 ELEMENT 104 was used for this element.)

- UF eka-hafnium
- UF element 104
- UF kurchatovium
- UF unnilquadium
- \*BT1 transactinide elements

**RUTHERFORDIUM 253**

2004-03-12

(Prior to March 2004 ELEMENT 104 253 was used for this concept.)

- UF element 104 253
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 rutherfordium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 254**

2004-03-12

(Prior to March 2004 ELEMENT 104 254 was used for this concept.)

- UF element 104 254
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 rutherfordium isotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 255**

2004-03-12

(Prior to March 2004 ELEMENT 104 255 was used for this concept.)

- UF element 104 255
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 rutherfordium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 256**

2004-03-12

(Prior to March 2004 ELEMENT 104 256 was used for this concept.)

- UF element 104 256
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 rutherfordium isotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 257**

2004-03-12

(Prior to March 2004 ELEMENT 104 257 was used for this concept.)

- UF element 104 257
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 rutherfordium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 258**

2004-03-12

(Prior to March 2004 ELEMENT 104 258 was used for this concept.)

- UF element 104 258
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 rutherfordium isotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 259**

2004-03-12

(Prior to March 2004 ELEMENT 104 259 was used for this concept.)

- UF element 104 259
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 rutherfordium isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 260**

2004-03-12

(Prior to March 2004 ELEMENT 104 260 was used for this concept.)

- UF element 104 260
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 rutherfordium isotopes
- \*BT1 spontaneous fission radioisotopes

**RUTHERFORDIUM 261**

2004-03-12

(Prior to March 2004 ELEMENT 104 261 was used for this concept.)

- UF element 104 261
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rutherfordium isotopes



\*BT1 spontaneous fission radioisotopes

## RUTHERFORDIUM 262

2004-03-15

(Prior to March 2004 ELEMENT 104 262 was used for this concept.)

UF *element 104 262*

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 rutherfordium isotopes

\*BT1 seconds living radioisotopes

\*BT1 spontaneous fission radioisotopes

## RUTHERFORDIUM 263

2004-03-15

(Prior to March 2004 ELEMENT 104 263 was used for this concept.)

UF *element 104 263*

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 rutherfordium isotopes

\*BT1 spontaneous fission radioisotopes

## RUTHERFORDIUM CHLORIDES

2004-03-15

(Prior to March 2004 ELEMENT 104 CHLORIDES was used for this concept.)

UF *element 104 chlorides*

\*BT1 chlorides

\*BT1 rutherfordium compounds

## RUTHERFORDIUM COMPLEXES

2004-03-15

(Prior to March 2004 ELEMENT 104 COMPLEXES was used for this concept.)

UF *element 104 complexes*

BT1 complexes

## RUTHERFORDIUM COMPOUNDS

2004-03-15

(Prior to March 2004 ELEMENT 104 COMPOUNDS was used for this concept.)

UF *element 104 compounds*

\*BT1 transactinide compounds

NT1 rutherfordium chlorides

## RUTHERFORDIUM ISOTOPES

2004-03-12

(Prior to March 2004 ELEMENT 104 ISOTOPES was used for this concept.)

UF *element 104 isotopes*

BT1 isotopes

NT1 rutherfordium 253

NT1 rutherfordium 254

NT1 rutherfordium 255

NT1 rutherfordium 256

NT1 rutherfordium 257

NT1 rutherfordium 258

NT1 rutherfordium 259

NT1 rutherfordium 260

NT1 rutherfordium 261

NT1 rutherfordium 262

NT1 rutherfordium 263

## RUTILE

\*BT1 oxide minerals

\*BT1 radioactive minerals

RT titanium oxides

## RV-1 REACTOR

*Venezuelan Scientific Research Institute, IVIC, Caracas, Venezuela.*

UF *reactor venezolano-1*

\*BT1 enriched uranium reactors

\*BT1 materials testing reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 training reactors

## RWANDA

INIS: 1991-10-22; ETDE: 1979-12-10

BT1 africa

BT1 developing countries

## rwe-bayernwerk-a reactor

INIS: 1975-08-20; ETDE: 2002-05-11

USE rwe-bayernwerk reactor

## rwe-bayernwerk-b reactor

INIS: 1975-08-20; ETDE: 1976-05-19

USE gundremmingen-2 reactor

## rwe-bayernwerk-c reactor

INIS: 1975-08-20; ETDE: 1976-05-19

USE gundremmingen-3 reactor

## RWE-BAYERNWERK REACTOR

UF *gundremmingen-1 reactor*

UF *gundremminger krb reactor*

UF *kernkraftwerk rwe-bayernwerk*

UF *krb reactor*

UF *rwe-bayernwerk-a reactor*

\*BT1 bwr type reactors

## rwsu reactor

USE wsur reactor

## rydberg constant

(Prior to March 1997 this was a valid ETDE descriptor.)

USE fundamental constants

## RYDBERG CORRECTION

BT1 corrections

RT balmer lines

RT energy levels

RT energy spectra

RT rydberg states

## RYDBERG EQUATION

BT1 equations

## RYDBERG-KLEIN-REES METHOD

UF *rkr method*

BT1 calculation methods

RT electronic structure

RT spectra

RT vibrational states

## RYDBERG STATES

1981-04-03

(Prior to April 1981, this concept in ETDE was indexed to RYDBERG CORRECTION.)

\*BT1 excited states

RT electronic structure

RT rydberg correction

## RYE

1996-07-18

UF *secale*

\*BT1 cereals

## s-1000 resonances

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE mesons

## s-1930 resonances

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE x-1935 mesons

## s-993 resonances

INIS: 1987-12-21; ETDE: 1979-09-26

(Prior to December 1987 this was a valid descriptor.)

USE f0-980 mesons

## S CENTERS

INIS: 1978-04-21; ETDE: 1978-07-06

\*BT1 color centers

## S CHANNEL

RT mandelstam representation

RT particle interactions

RT t channel

RT u channel

## S CODES

BT1 computer codes

## S MATRIX

UF *collision matrix*

UF *t matrix*

BT1 matrices

RT analytic functions

RT detailed balance principle

RT landau curves

RT quantum field theory

RT scattering

RT scattering amplitudes

RT singularity

RT unitarity

RT unitary pole approximation

RT yang-feldman formalism

## S-N DIAGRAM

\*BT1 diagrams

RT fatigue

RT materials testing

RT stresses

## S PROCESS

*Slow process in stellar nucleosynthesis.*

\*BT1 star evolution

RT nucleosynthesis

RT stars

## S QUARKS

INIS: 1995-09-08; ETDE: 1995-10-03

\*BT1 quarks

\*BT1 strange particles

RT strangeonium

## S STATES

BT1 energy levels

## S WAVES

*For seismic waves use SEISMIC S WAVES.*

BT1 partial waves

RT angular momentum

RT quantum mechanics

## s waves (seismic)

INIS: 1980-05-14; ETDE: 1976-11-17

USE seismic s waves

## S10FS-1 REACTOR

*Atomics International Div., Rockwell International, Canoga Park, California, USA.*

UF *snap-10a flight system test-1*

\*BT1 nak cooled reactors

\*BT1 snap 10 reactor

## S10FS-3 REACTOR

*Atomics International Div., Rockwell International, Canoga Park, California, USA.*

UF *snap-10a flight system test-3*

\*BT1 nak cooled reactors

\*BT1 snap 10 reactor

## S10FS-4 REACTOR

*Atomics International Div., Rockwell International, Canoga Park, California, USA.*

UF *snap-10a flight system test-4*

\*BT1 nak cooled reactors

\*BT1 snap 10 reactor

## S1C PROTOTYPE REACTOR

*KAPL, Niskayuna, New York, USA.*

\*BT1 mobile reactors

\*BT1 pwr type reactors

\*BT1 test reactors

## S2DS REACTOR

*Atomics International Div., Rockwell International, Canoga Park, California, USA.*  
*UF snap-2 developmental system*

\*BT1 nak cooled reactors

\*BT1 snap 2 reactor

## s4 reactor

2000-04-12

SEE snap reactors

## S8DR REACTOR

*Atomics International Div., Rockwell International, Canoga Park, California, USA.*  
*UF snap-8 developmental reactor*

\*BT1 nak cooled reactors

\*BT1 snap 8 reactor

## S8ER REACTOR

*Atomics International Div., Rockwell International, Canoga Park, California, USA.*  
*UF snap-8 experimental reactor*

\*BT1 nak cooled reactors

\*BT1 snap 8 reactor

## s8g prototype reactor

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

USE ship propulsion reactors

## SAARBERG-HOLTER PROCESS

*INIS: 2000-04-12; ETDE: 1979-05-09*  
*A wet lime scrubbing process with additives; gypsum by-product.*

\*BT1 desulfurization

RT waste processing

## SAARBERG-OTTO GASIFICATION PROCESS

*INIS: 2000-04-12; ETDE: 1977-11-09*  
*High-temperature process with concurrent flow carburetor operating at 25 bar and below the melting point of slag.*

\*BT1 coal gasification

## saas

*INIS: 1991-05-02; ETDE: 1985-08-09*  
 (Prior to May 1991, this was a valid descriptor.)

USE bundesamt fuer strahlenschutz

## SABOTAGE

(From May 1987 till March 1997 terrorism was a valid ETDE descriptor.)

SF terrorism

RT hazards

RT human intrusion

RT physical protection

RT safety

RT secrecy protection

RT security

RT security personnel

RT theft

RT vulnerability

## SABUGALITE

2000-04-12

\*BT1 uranium minerals

RT aluminium phosphates

RT uranium phosphates

## SACCHARIDES

1996-06-28

UF amino sugars

UF aminoglycides

UF glycides

UF sugars

\*BT1 carbohydrates

NT1 glycolipids

NT2 cerebroside

NT2 gangliosides

NT1 glycoproteins

NT2 avidin

NT2 glucoproteins

NT3 lactoferrin

NT3 ovalbumin

NT2 luteinizing hormone

NT1 monosaccharides

NT2 erythritol

NT2 hexoses

NT3 fructose

NT3 galactose

NT3 glucose

NT3 hexosamines

NT4 glucosamine

NT3 mannose

NT3 sorbose

NT2 inositols

NT3 inositol

NT2 pentoses

NT3 arabinose

NT3 deoxyribose

NT3 ribose

NT3 ribulose

NT3 xylose

NT2 sorbitol

NT1 oligosaccharides

NT2 disaccharides

NT3 cellobiose

NT3 lactose

NT3 maltose

NT3 saccharose

NT2 raffinose

NT1 polysaccharides

NT2 agar

NT2 alginate acid

NT2 cellophane

NT2 cellulose

NT2 dextran

NT2 dextrin

NT2 glycogen

NT2 gum acacia

NT2 hemicellulose

NT3 xylans

NT2 inulin

NT2 lignin

NT2 lipopolysaccharides

NT2 mucopolysaccharides

NT3 chitin

NT3 chondroitin

NT3 heparin

NT3 hyaluronic acid

NT2 mucoproteins

NT3 haptoglobins

NT3 intrinsic factor

NT3 phytohemagglutinin

NT2 nitrocellulose

NT2 pectins

NT2 rayon

NT2 starch

NT2 viscose

NT2 xanthan gum

RT glycolysis

RT hyperglycemia

RT molasses

RT sugar industry

## SACCHARIFICATION

*INIS: 2000-04-12; ETDE: 1980-06-06*

*Hydrolysis into a simple soluble fermentable sugar.*

(Prior to June 1980 this concept in ETDE was indexed by HYDROLYSIS.)

\*BT1 hydrolysis

RT fermentation

## SACCHARIN

\*BT1 organic oxygen compounds

\*BT1 thiazoles

## SACCHAROMYCES

\*BT1 yeasts

NT1 saccharomyces cerevisiae

## SACCHAROMYCES CEREVISIAE

\*BT1 saccharomyces

## SACCHAROSE

UF sucrose

UF sugar

\*BT1 disaccharides

RT sugar industry

## sacloy (cea)

USE cea sacloy

## SACLAY LINAC

\*BT1 linear accelerators

## sacloy synchrotron

USE saturne

## sacramento rancho seco-1 reactor

*INIS: 1993-11-09; ETDE: 2002-06-13*

USE rancho seco-1 reactor

## sacramento rancho seco-2 reactor

*INIS: 1993-11-09; ETDE: 2002-06-13*

USE rancho seco-2 reactor

## SADDLE-POINT METHOD

BT1 calculation methods

RT mathematics

## SAFARI-1 REACTOR

*South African Nuclear Energy Corporation, Pretoria, South Africa.*

\*BT1 enriched uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 test reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

## safe low power critical experiment

*INIS: 1979-12-20; ETDE: 1980-01-24*

USE slowpoke type reactors

## SAFEGUARD REGULATIONS

\*BT1 regulations

RT nuclear materials possession

RT safeguards

## SAFEGUARDS

1998-06-10

*Those measures designed to guard against the diversion of material such as source and special nuclear material from uses permitted by law or treaty, and to give timely indication of possible diversion or credible assurance that no diversion has occurred.*

NT1 domestic safeguards

NT1 iaea safeguards

RT abacc

RT accounting

RT atomic energy control

RT ctbt

RT ctbto

RT denatured fuel

RT detection

RT identification systems

RT inspection

RT intrusion detection systems

RT inventories

RT legal aspects

RT losses

RT material balance area

RT material unaccounted for

RT motion detection systems

RT non-proliferation treaty

RT nuclear disarmament  
 RT nuclear materials diversion  
 RT nuclear materials management  
 RT nuclear materials possession  
 RT physical protection  
 RT physical protection devices  
 RT proliferation  
 RT safeguard regulations  
 RT security personnel  
 RT security seals  
 RT strategic points  
 RT vulnerability

**SAFETY**

1997-06-17

*For general aspects of safety and protection of personnel.*

UF protection  
 UF protection (safety)  
 NTI occupational safety  
 NTI reactor safety  
 RT accidents  
 RT alara  
 RT civil defense  
 RT damage  
 RT emergency plans  
 RT engineered safety systems  
 RT ethical aspects  
 RT failures  
 RT fire detectors  
 RT fire extinguishers  
 RT fire fighting  
 RT fire prevention  
 RT hazards  
 RT health hazards  
 RT human factors  
 RT human factors engineering  
 RT injuries  
 RT mine rescue  
 RT personnel  
 RT quality assurance  
 RT quality control  
 RT radiation protection  
 RT sabotage  
 RT safety analysis  
 RT safety engineering  
 RT safety reports  
 RT safety showers  
 RT safety standards  
 RT security  
 RT us occupational safety and health act  
 RT working conditions

**safety (nuclear)**

USE radiation protection

**safety (reactor)**

2000-04-12

USE reactor safety

**SAFETY ANALYSIS**

INIS: 1976-12-08; ETDE: 1991-03-07

RT deterministic estimation  
 RT licensing regulations  
 RT probabilistic estimation  
 RT public relations  
 RT risk assessment  
 RT safety  
 RT safety reports

**SAFETY CULTURE**

2003-01-17

*That group of attitudes and characteristics which establishes that safety issues receive significant attention.*

UF culture (safety)  
 UF nuclear safety culture  
 BT1 attitudes  
 RT behavior  
 RT education

RT ethical aspects  
 RT human factors  
 RT quality assurance  
 RT reactor maintenance  
 RT reactor operation  
 RT reactor operators  
 RT safety engineering

**SAFETY ENGINEERING**

1999-07-06

BT1 engineering  
 RT alarm systems  
 RT engineered safety systems  
 RT fires  
 RT freeze protection  
 RT hazards  
 RT human factors  
 RT pressure release  
 RT reactor safety  
 RT safety  
 RT safety culture  
 RT safety margins  
 RT seismic isolation  
 RT smoke detectors  
 RT systems analysis

**SAFETY INJECTION**

1995-05-02

UF boron injection  
 RT eccs  
 RT reactor protection systems

**SAFETY MARGINS**

INIS: 2004-11-26; ETDE: 2004-12-01

*Differences between ordinary safe operating conditions and the conditions where the device or component will fail.*

RT engineered safety systems  
 RT reactor safety  
 RT reliability  
 RT risk assessment  
 RT safety engineering  
 RT safety standards

**safety of life at sea convention**

INIS: 1984-06-21; ETDE: 2002-06-13

USE solas convention

**SAFETY REPORTS**

INIS: 1976-12-08; ETDE: 1991-03-07

*For items about safety reports, not for items which are safety reports.*

UF design reports  
 RT document types  
 RT licensing regulations  
 RT safety  
 RT safety analysis

**safety research experiment facility reactor**

INIS: 1993-11-09; ETDE: 1976-08-24

USE saref reactor

**safety rods**

USE scram rods

**SAFETY SHOWERS**

UF emergency showers  
 UF showers (safety)  
 RT burns  
 RT decontamination  
 RT first aid  
 RT hazards  
 RT radiation protection  
 RT safety  
 RT washing

**SAFETY STANDARDS**

UF standards (safety)  
 BT1 standards  
 NTI annual limit of intake

NTI dose limits  
 NTI maximum acceptable contamination  
 NTI maximum inhalation quantity  
 NTI maximum permissible activity  
 NTI maximum permissible body burden  
 NTI maximum permissible concentration  
 NTI maximum permissible dose  
 NTI maximum permissible exposure  
 NTI maximum permissible intake  
 NTI maximum permissible level  
 RT federal radiation council  
 RT gesellschaft fuer anlagen- und reaktorsicherheit  
 RT legal aspects  
 RT licensing  
 RT radiation protection  
 RT radiation protection laws  
 RT reactor safety  
 RT recommendations  
 RT regulations  
 RT retrofitting  
 RT safety  
 RT safety margins  
 RT standardization

**safety test facility reactor**

INIS: 1977-06-13; ETDE: 1976-11-17

USE stf reactor

**safety valves**

INIS: 1976-02-05; ETDE: 1985-03-12

USE relief valves

**SAGINAW RIVER**

INIS: 2000-04-12; ETDE: 1980-12-08

\*BT1 rivers  
 RT hydroelectric power plants  
 RT michigan

**SAHA EQUATION**

UF saha-langmuir equation  
 BT1 equations  
 RT electric discharges  
 RT thermodynamics

**saha-langmuir equation**

USE saha equation

**SAILS**

INIS: 2000-04-12; ETDE: 1981-08-21

RT ships  
 RT wind

**SAINT ALBAN-1 REACTOR**

INIS: 1984-07-20; ETDE: 1984-09-05

\*BT1 pwr type reactors

**SAINT ALBAN-2 REACTOR**

INIS: 1984-07-20; ETDE: 1984-09-05

\*BT1 pwr type reactors

**SAINT CLAIR RIVER**

2000-04-12

\*BT1 rivers  
 RT canada  
 RT michigan

**SAINT JOHN RIVER**

INIS: 2000-04-12; ETDE: 1975-10-28

\*BT1 rivers  
 RT canada

**SAINT KITTS AND NEVIS**

INIS: 1997-09-25; ETDE: 1998-02-24

\*BT1 lesser antilles

**SAINT LAURENT-1 REACTOR**

*St. Laurent des Eaux, Loir et Cher, France.*

UF edf-4 reactor  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 gcr type reactors  
 \*BT1 power reactors  
 \*BT1 thermal reactors

**SAINT LAURENT-2 REACTOR***St. Laurent des Eaux, Loir et Cher, France.*

- \*BT1 carbon dioxide cooled reactors
- \*BT1 gcr type reactors
- \*BT1 power reactors
- \*BT1 thermal reactors

**SAINT LAURENT-B1 REACTOR***1995-10-02*

- \*BT1 pwr type reactors

**saint lawrence river***INIS: 2000-04-12; ETDE: 1980-01-15*

- USE st lawrence river

**SAINT LUCIA***INIS: 1990-06-25; ETDE: 1990-08-02*

- BT1 developing countries
- BT1 latin america
- \*BT1 west indies

**SAINT VINCENT AND THE GRENADINES***INIS: 1992-04-24; ETDE: 1992-06-23*

- BT1 developing countries
- BT1 latin america
- \*BT1 west indies

**saitama cyclotron***INIS: 1983-06-01; ETDE: 1983-07-07*

- USE ipcr cyclotron

**saitama tunable heavy ion linac***INIS: 1986-05-23; ETDE: 2002-06-13*

- USE rilac

**salam hypothesis**

- USE lee-yang theory

**salam-weinberg gauge model***INIS: 1995-08-10; ETDE: 1995-11-29*

- USE weinberg-salam gauge model

**SALAMANDERS***1996-11-13**(Prior to March 1997 AXOLOTL was a valid ETDE descriptor.)*

- UF axolotl
- UF newts
- UF siredon
- \*BT1 amphibians
- NT1 triturus
- RT frogs

**salary***INIS: 1992-10-05; ETDE: 1983-06-20*

- USE wages

**salazar triga-mk-3 reactor***INIS: 1984-06-21; ETDE: 2002-06-13*

- USE triga-3-salazar reactor

**SALEEITE**

- \*BT1 phosphate minerals
- \*BT1 uranium minerals
- RT magnesium phosphates
- RT uranium phosphates

**SALEM-1 REACTOR***PSEG Nuclear, LLC, Salem, New Jersey, USA.*

- UF salem nuclear generating station unit-1
- \*BT1 pwr type reactors

**SALEM-2 REACTOR***PSEG Nuclear, LLC, Salem, New Jersey, USA.*

- UF salem nuclear generating station unit-2
- \*BT1 pwr type reactors

**saalem nuclear generating station****unit-1***1993-11-09*

- USE salem-1 reactor

**saalem nuclear generating station****unit-2***1993-11-09*

- USE salem-2 reactor

**SALES***INIS: 1999-03-04; ETDE: 1979-05-09**(Until March 1999 this concept was indexed by TRADE.)*

- SF commodities
- RT competition
- RT exports
- RT imports
- RT marketing
- RT trade

**SALICYLIC ACID***1996-10-23*

- UF hydroxybenzoic acid-ortho
- \*BT1 hydroxy acids

**SALINITY**

- RT brines
- RT desalination
- RT estuaries
- RT fiords
- RT salinity gradients
- RT salts
- RT seawater

**SALINITY GRADIENT POWER PLANTS***INIS: 2000-04-12; ETDE: 1977-09-19*

- UF osmotic power plants
- \*BT1 solar power plants
- RT seawater

**SALINITY GRADIENTS***INIS: 2000-04-12; ETDE: 1977-09-19*

- RT salinity
- RT seawater

**SALIVA**

- \*BT1 body fluids
- RT amylase
- RT salivary glands

**SALIVARY GLANDS**

- \*BT1 glands
- RT oral cavity
- RT saliva

**salmin***1996-07-08**(Until June 1996 this was a valid descriptor.)*

- USE protamines

**SALMON**

- \*BT1 anadromous fishes

**SALMON EVENT**

- BT1 vela project

**SALMONELLA***1996-07-18*

- \*BT1 bacteria
- NT1 salmonella typhimurium
- RT typhoid

**SALMONELLA TYPHIMURIUM**

- \*BT1 salmonella

**salsola kali***INIS: 2000-04-12; ETDE: 1981-04-17**(Prior to March 1997 TUMBLEWEEDS was used for this concept in ETDE.)*

- USE magnoliopsida

**SALT CAVERNS***INIS: 1983-02-03; ETDE: 1979-04-11*

- BT1 cavities
- RT caves
- RT gorleben salt dome
- RT morsleben salt mine
- RT radioactive waste disposal
- RT salt deposits

**SALT DEPOSITS***1997-06-19*

- UF rock salt
- BT1 geologic deposits
- RT anticlines
- RT asse salt mine
- RT gorleben salt dome
- RT halite
- RT morsleben salt mine
- RT radioactive waste disposal
- RT salt caverns
- RT salt vault project
- RT underground disposal
- RT wipp

**SALT TALKS***INIS: 1993-01-26; ETDE: 1986-02-03*

- RT arms control
- RT foreign policy
- RT international relations
- RT nuclear disarmament
- RT treaties

**salt transport process***INIS: 1980-07-24; ETDE: 1979-12-10*

- USE pyrochemical reprocessing

**SALT VAULT PROJECT**

- UF project salt vault
- RT radioactive wastes
- RT salt deposits
- RT waste disposal

**saltex process***1996-07-08**(Until June 1996 this was a valid descriptor.)*

- USE purex process

**SALTING-OUT AGENTS**

- RT precipitation
- RT solvent extraction

**SALTON SEA***2000-04-12*

- \*BT1 lakes
- RT geothermal fields
- RT imperial valley
- RT salton sea geothermal field

**SALTON SEA GEOTHERMAL FIELD***INIS: 2000-04-12; ETDE: 1975-07-29*

- BT1 geothermal fields
- RT california
- RT salton sea

**SALTS***See also descriptors for specific salts.*

- NT1 molten salts
- NT2 flibe
- RT brines
- RT desalination
- RT salinity

**SALYUT ORBITAL STATIONS**

- BT1 satellites
- \*BT1 space vehicles

**SAMARIUM**

- \*BT1 rare earths
- RT samarium oscillations

**SAMARIUM 131***INIS: 1987-02-25; ETDE: 1987-05-01*

- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 seconds living radioisotopes

**SAMARIUM 133***INIS: 1977-06-13; ETDE: 1977-10-20*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 seconds living radioisotopes

**SAMARIUM 134***INIS: 1977-06-13; ETDE: 1977-10-20*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 seconds living radioisotopes

**SAMARIUM 135***INIS: 1977-06-14; ETDE: 1977-10-20*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 seconds living radioisotopes

**SAMARIUM 136***INIS: 1982-08-27; ETDE: 1982-07-08*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 seconds living radioisotopes

**SAMARIUM 137**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 seconds living radioisotopes

**SAMARIUM 138**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 139**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 seconds living radioisotopes

**SAMARIUM 140**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 141**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 isomeric transition isotopes

- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 142**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 143**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 144**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 stable isotopes

**SAMARIUM 144 REACTIONS***INIS: 1980-07-24; ETDE: 1980-08-12*

- \*BT1 heavy ion reactions

**SAMARIUM 144 TARGET***ETDE: 1976-07-09*

- BT1 targets

**SAMARIUM 145**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 145 TARGET***INIS: 1975-10-23; ETDE: 1976-07-09*

- BT1 targets

**SAMARIUM 146**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 years living radioisotopes

**SAMARIUM 146 TARGET***INIS: 1975-12-19; ETDE: 1976-07-12*

- BT1 targets

**SAMARIUM 147**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 years living radioisotopes

**SAMARIUM 147 TARGET***ETDE: 1976-07-09*

- BT1 targets

**SAMARIUM 148**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 stable isotopes
- \*BT1 years living radioisotopes

**SAMARIUM 148 TARGET***ETDE: 1976-07-09*

- BT1 targets

**SAMARIUM 149**

- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei

- \*BT1 samarium isotopes
- \*BT1 stable isotopes

**SAMARIUM 149 TARGET***ETDE: 1976-07-09*

- BT1 targets

**SAMARIUM 150**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 stable isotopes

**SAMARIUM 150 TARGET***ETDE: 1976-07-09*

- BT1 targets

**SAMARIUM 151**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 years living radioisotopes

**SAMARIUM 151 TARGET***ETDE: 1976-07-09*

- BT1 targets

**SAMARIUM 152**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 stable isotopes

**SAMARIUM 152 TARGET***ETDE: 1976-07-09*

- BT1 targets

**SAMARIUM 153**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 154**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 stable isotopes

**SAMARIUM 154 REACTIONS***INIS: 1980-07-24; ETDE: 1980-08-12*

- \*BT1 heavy ion reactions

**SAMARIUM 154 TARGET***ETDE: 1976-07-09*

- BT1 targets

**SAMARIUM 155**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 156**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 157**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 158**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei

- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes

**SAMARIUM 159**

*INIS: 1986-10-29; ETDE: 1986-11-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 seconds living radioisotopes

**SAMARIUM 160**

*INIS: 1986-10-29; ETDE: 1986-11-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 samarium isotopes
- \*BT1 seconds living radioisotopes

**SAMARIUM ADDITIONS**

*Alloys containing not more than 1% Sm are listed here.*

- \*BT1 rare earth additions
- \*BT1 samarium alloys

**SAMARIUM ALLOYS**

*Alloys containing more than 1% Sm.*

- \*BT1 rare earth alloys
- NT1 samarium additions
- NT1 samarium base alloys

**SAMARIUM ARSENIDES**

*INIS: 2000-04-12; ETDE: 1977-03-04*

- \*BT1 arsenides
- \*BT1 samarium compounds

**SAMARIUM BASE ALLOYS**

- \*BT1 samarium alloys

**SAMARIUM BORIDES**

- \*BT1 borides
- \*BT1 samarium compounds

**SAMARIUM BROMIDES**

- \*BT1 bromides
- \*BT1 samarium compounds

**SAMARIUM CARBIDES**

- \*BT1 carbides
- \*BT1 samarium compounds

**SAMARIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 samarium compounds

**SAMARIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 samarium compounds

**SAMARIUM COMPLEXES**

- \*BT1 rare earth complexes

**SAMARIUM COMPOUNDS**

*1997-06-19*

- BT1 rare earth compounds
- NT1 samarium arsenides
- NT1 samarium borides
- NT1 samarium bromides
- NT1 samarium carbides
- NT1 samarium carbonates
- NT1 samarium chlorides
- NT1 samarium fluorides
- NT1 samarium hydrides
- NT1 samarium hydroxides
- NT1 samarium iodides
- NT1 samarium nitrates
- NT1 samarium nitrides
- NT1 samarium oxides
- NT1 samarium perchlorates
- NT1 samarium phosphates
- NT1 samarium phosphides
- NT1 samarium selenides

- NT1 samarium silicates
- NT1 samarium silicides
- NT1 samarium sulfates
- NT1 samarium sulfides
- NT1 samarium tellurides
- NT1 samarium tungstates

**samarium effect**

*2000-04-12*

- USE samarium oscillations

**SAMARIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 samarium compounds

**SAMARIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 samarium compounds

**SAMARIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 samarium compounds

**SAMARIUM IODIDES**

- \*BT1 iodides
- \*BT1 samarium compounds

**SAMARIUM IONS**

- \*BT1 ions

**SAMARIUM ISOTOPES**

- BT1 isotopes
- NT1 samarium 131
- NT1 samarium 133
- NT1 samarium 134
- NT1 samarium 135
- NT1 samarium 136
- NT1 samarium 137
- NT1 samarium 138
- NT1 samarium 139
- NT1 samarium 140
- NT1 samarium 141
- NT1 samarium 142
- NT1 samarium 143
- NT1 samarium 144
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- NT1 samarium 151
- NT1 samarium 152
- NT1 samarium 153
- NT1 samarium 154
- NT1 samarium 155
- NT1 samarium 156
- NT1 samarium 157
- NT1 samarium 158
- NT1 samarium 159
- NT1 samarium 160

**SAMARIUM NITRATES**

- \*BT1 nitrates
- \*BT1 samarium compounds

**SAMARIUM NITRIDES**

- \*BT1 nitrides
- \*BT1 samarium compounds

**SAMARIUM OSCILLATIONS**

*2000-04-12*

*Effects of fission-product samarium on reactor operation.*

- UF samarium effect
- BT1 poisoning
- RT nuclear poisons
- RT oscillations
- RT reactor poison removal
- RT samarium

**SAMARIUM OXIDES**

- \*BT1 oxides

- \*BT1 samarium compounds

**SAMARIUM PERCHLORATES**

*1991-09-16*

- \*BT1 perchlorates
- \*BT1 samarium compounds

**SAMARIUM PHOSPHATES**

- \*BT1 phosphates
- \*BT1 samarium compounds

**SAMARIUM PHOSPHIDES**

*INIS: 1979-04-27; ETDE: 1979-05-25*

- \*BT1 phosphides
- \*BT1 samarium compounds

**SAMARIUM SELENIDES**

*INIS: 1980-02-26; ETDE: 1977-08-24*

- \*BT1 samarium compounds
- \*BT1 selenides

**SAMARIUM SILICATES**

- \*BT1 samarium compounds
- \*BT1 silicates

**SAMARIUM SILICIDES**

*INIS: 1975-10-29; ETDE: 1975-12-16*

- \*BT1 samarium compounds
- \*BT1 silicides

**SAMARIUM SULFATES**

- \*BT1 samarium compounds
- \*BT1 sulfates

**SAMARIUM SULFIDES**

- \*BT1 samarium compounds
- \*BT1 sulfides

**SAMARIUM TELLURIDES**

*INIS: 1977-10-17; ETDE: 1976-08-24*

- \*BT1 samarium compounds
- \*BT1 tellurides

**SAMARIUM TUNGSTATES**

*INIS: 1980-02-26; ETDE: 1976-11-01*

- \*BT1 samarium compounds
- \*BT1 tungstates

**SAMPLE CHANGERS**

- RT laboratory equipment
- RT materials handling
- RT remote handling
- RT sample holders

**SAMPLE HOLDERS**

*INIS: 1976-03-25; ETDE: 1975-11-28*

- UF specimen holders
- UF target holders
- RT remote handling
- RT sample changers

**SAMPLE PREPARATION**

- UF preparation (sample)
- RT ceramography
- RT dry ashing
- RT electron microscopy
- RT surface treatments
- RT wet ashing

**SAMPLERS**

*1999-07-07*

- BT1 equipment
- NT1 air samplers
- RT filters
- RT sampling

**SAMPLING**

- RT elutriation
- RT inspection
- RT quality control
- RT samplers
- RT testing
- RT ultrafiltration

**SAN ANTONIO BAY**

2000-04-12

- \*BT1 gulf of mexico
- RT texas

**SAN BERNARDINO MOUNTAINS**

2000-04-12

- BT1 mountains
- RT california

**SAN FRANCISCO BAY**

- \*BT1 pacific ocean
- RT california

**san juan power plant**

INIS: 2000-04-12; ETDE: 1976-12-16

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE fossil-fuel power plants

**SAN MARINO**

2000-05-03

- BT1 developed countries
- \*BT1 western europe

**SAN ONOFRE-1 REACTOR**

*Southern California Edison Co., San Clemente, California, USA. Shut down permanently in 1992.*

- \*BT1 pwr type reactors

**SAN ONOFRE-2 REACTOR**

*Southern California Edison Co., San Clemente, California, USA.*

- \*BT1 pwr type reactors

**SAN ONOFRE-3 REACTOR**

*Southern California Edison Co., San Clemente, California, USA.*

- \*BT1 pwr type reactors

**san piero a grado pisa reactor**

- USE rts-1 reactor

**SANCTIONS**

INIS: 2000-04-12; ETDE: 1979-12-10

- BT1 administrative procedures

**SAND**

(From August 1984 till February 1997 DUNES was a valid ETDE descriptor.)

- SF dunes
- NT1 black sands
- NT1 oil sands
- RT alluvial deposits
- RT aquifers
- RT building materials
- RT clays
- RT concretes
- RT deserts
- RT reefs
- RT reservoir rock
- RT sandstones
- RT silicon oxides
- RT soils

**SAND CONSOLIDATION**

INIS: 2000-04-12; ETDE: 1981-05-18

- UF consolidation (sand)
- RT natural gas wells
- RT oil wells
- RT well completion

**sand pressure**

INIS: 1986-07-09; ETDE: 1978-09-11

- USE reservoir pressure

**SAND WASH BASIN**

2000-04-12

- \*BT1 colorado
- RT green river formation
- RT oil shale deposits

**SANDIA LABORATORIES**

*Name changed to Sandia National Laboratories, and more recent material should be so indexed.*

- \*BT1 sandia national laboratories
- \*BT1 us aec
- \*BT1 us erda
- RT california
- RT new mexico
- RT tonopah test range

**SANDIA NATIONAL LABORATORIES**

INIS: 1984-04-04; ETDE: 1994-08-18

*Formerly known as Sandia Laboratories, and older material is so indexed.*

- \*BT1 us doe
- NT1 sandia laboratories
- RT california
- RT new mexico
- RT tonopah test range

**sandia pulse reactor-4**

INIS: 2000-04-12; ETDE: 1982-08-11

- USE spr-4 reactor

**sandia pulsed reactor-ii**

- USE spr-2 reactor

**sandia pulsed reactor-iii**

INIS: 1984-06-21; ETDE: 2002-06-13

- USE spr-3 reactor

**sandia pulsed reactor-iv**

INIS: 1984-06-21; ETDE: 2002-06-13

- USE spr-4 reactor

**SANDSTONE PROJECT**

INIS: 2000-04-12; ETDE: 1986-11-20

- \*BT1 nuclear explosions

**SANDSTONES**

- UF siliceous rock
- UF tight sands
- \*BT1 sedimentary rocks
- NT1 graywacke
- RT interstitial water
- RT montroseite
- RT quartzites
- RT sand
- RT siltstones

**sandvik-ht8x6**

ETDE: 2002-06-13

- USE steel-cr2moninb

**sanicro 30**

INIS: 1996-07-23; ETDE: 1978-12-20

(Until July 1996 this was a valid descriptor.)

- USE alloy-fe46ni33cr21

**sanicro 70**

INIS: 1983-11-07; ETDE: 2002-06-13

- USE alloy-ni76cr15fe8

**SANITARY LANDFILLS**

INIS: 1982-09-21; ETDE: 1975-09-11

*Sites for biologically safe disposal of wastes by burial.*

- UF land fills
- UF landfills
- \*BT1 waste disposal
- RT ground disposal
- RT landfill gas
- RT us superfund

**SANTA BARBARA CHANNEL**

INIS: 1992-06-16; ETDE: 1977-01-28

- \*BT1 pacific ocean
- RT california
- RT continental shelf

**santa maria de garona nuclear power plant**

1995-02-20

- USE garona reactor

**santa maria de garona power reactor**

1993-11-09

- USE garona reactor

**SANTA ROSA DEPOSIT**

INIS: 2000-04-12; ETDE: 1983-07-07

- \*BT1 oil sand deposits
- RT new mexico
- RT oil sands

**SANTEE RIVER**

INIS: 2000-04-12; ETDE: 1977-08-09

- \*BT1 rivers
- RT south carolina

**santowax**

1996-07-08

(Until June 1996 this was a valid descriptor.)

- USE polyphenyls
- USE waxes

**sao paulo iea zero power reactor**

INIS: 1993-11-09; ETDE: 2002-06-13

- USE iea-zpr reactor

**sao paulo iear-1 reactor**

INIS: 1985-12-10; ETDE: 2002-06-13

- USE iear-1 reactor

**sap (sintered aluminium powders)**

ETDE: 2005-02-01

(Prior to January 2005 SAP was a valid descriptor.)

- USE sintered aluminium powders

**SAPHIR REACTOR**

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 thermal reactors

**SAPONIFICATION**

- \*BT1 hydrolysis

**SAPONINS**

- \*BT1 glycosides

**SAPPHIRE**

1976-05-05

- \*BT1 corundum

**SAPROPELIC COAL**

INIS: 2000-04-12; ETDE: 1978-05-03

- \*BT1 coal
- NT1 boghead coal
- NT2 torbanite
- NT1 cannel coal

**sar-2 reactor**

*Schnell-Thermischen Argonaut Reaktor Karlsruhe.*

- USE stark reactor

**SARA CYCLOTRON**

INIS: 1984-06-25; ETDE: 1984-02-10

*Systeme Accelérateur Rhone-Alpes -- consists of two cyclotrons, the injector cyclotron and the post-accelerator cyclotron.*

- UF systeme accelérateur rhone-alpes
- \*BT1 isochronous cyclotrons

**SARCODINA**

INIS: 1992-04-27; ETDE: 1981-06-17

- \*BT1 protozoa
- NT1 amoeba
- NT1 foraminifera

**SARCOMAS**

- UF chondrosarcomas

\*BT1 neoplasms  
 NT1 fibrosarcomas  
 NT1 lymphosarcomas  
 NT1 myosarcomas  
 NT2 rhabdomyosarcomas  
 NT1 osteosarcomas

**SARCOPLASMIC RETICULUM**

INIS: 2000-04-12; ETDE: 1982-02-09

\*BT1 endoplasmic reticulum  
 RT muscles

**SARCOSINE**

UF methyl glycol  
 UF methylaminoacetic acid  
 \*BT1 amino acids  
 RT glycine

**SAREF REACTOR**

INIS: 1977-01-26; ETDE: 1976-08-24

INEL, Idaho Falls, Idaho, USA.

UF inel safety research experimental facility reactor

UF safety research experiment facility reactor

\*BT1 fast reactors  
 \*BT1 zero power reactors

**SARGASSO SEA**

\*BT1 atlantic ocean

**sarson**

USE brassica

**SASKATCHEWAN**

1996-07-16

(Prior to August 1996 BEAVERLODGE was a valid ETDE descriptor.)

UF beaverlodge

\*BT1 canada

RT athabasca lake

RT beaverlodge mine

RT cluff lake mine

RT cold lake deposit

RT key lake mine

RT williston basin

**SASOL-II PROCESS**

INIS: 2000-04-12; ETDE: 1980-03-04

Liquefaction process based on Lurgi pressure gasification, Fischer-Tropsch synthesis and Rectisol process using circulating fluid bed reactors to produce gasoline and other refined products.

\*BT1 coal liquefaction  
 RT fischer-tropsch synthesis  
 RT lurgi process  
 RT rectisol process

**SASOL PROCESS**

2000-04-12

South African Coal, Oil, and Gas Co. Ltd. Process for indirect conversion of coal to synthetic crude oil by complete gasification to CO and H followed by Fisher-Tropsch synthesis.

\*BT1 coal liquefaction

**SATELLITE ATMOSPHERES**

INIS: 1981-11-25; ETDE: 1982-01-07

For atmospheres of the natural satellites.

BT1 atmospheres

NT1 lunar atmosphere

**satellite power system**

INIS: 1993-02-18; ETDE: 1979-05-02

USE orbital solar power plants

**satellite solar power stations**

INIS: 2000-04-12; ETDE: 1979-05-25

USE orbital solar power plants

**SATELLITES**

1996-01-24

NT1 alouette satellites  
 NT1 ariel satellites  
 NT1 astron satellites  
 NT1 ats satellites  
 NT1 biosatellites  
 NT1 explorer satellites  
 NT1 geos satellites  
 NT1 goes satellites  
 NT1 imp satellites  
 NT1 interkosmos satellites  
 NT1 kosmos satellites  
 NT1 landsat satellites  
 NT1 mir orbital station  
 NT1 molniya satellites  
 NT1 moon  
 NT1 nimbus satellites  
 NT1 ogo satellites  
 NT1 orbiting solar observatories  
 NT1 power relay satellites  
 NT1 prognoz satellites  
 NT1 proton satellites  
 NT1 saljut orbital stations  
 NT1 seasat satellites  
 NT1 skylab  
 RT global positioning system  
 RT international space station  
 RT orbital solar power plants  
 RT remote sensing  
 RT space flight  
 RT space vehicles

**saturable core magnetometers**

USE fluxgate magnetometers

**SATURATION**

NT1 gas saturation  
 NT1 oil saturation  
 NT1 supersaturation  
 NT1 water saturation  
 RT solubility  
 RT solutions

**SATURN PLANET**

BT1 planets

**SATURNE**

UF saclay synchrotron

\*BT1 synchrotrons

**SATURNE II**

INIS: 1979-12-20; ETDE: 1980-01-24

\*BT1 synchrotrons

**SAUDI ARABIA**

BT1 arab countries  
 BT1 asia  
 BT1 developing countries  
 BT1 middle east  
 RT oapec  
 RT opec

**SAUSAGE INSTABILITY**

\*BT1 plasma macroinstabilities

**savannah (nuclear ship)**

USE ns savannah

**savannah pressurized subcritical experiment**

1993-11-09

USE pse reactor

**SAVANNAH REACTOR**

US AEC/US DOC/USA Maritime Commission. Permanently shut down; decommissioned in 1972.

UF nuclear ship savannah reactor

\*BT1 pwr type reactors

\*BT1 ship propulsion reactors

RT ns savannah

**SAVANNAH RIVER**

\*BT1 rivers  
 RT georgia  
 RT south carolina

**savannah river lab rtr reactor**

USE rtr reactor

**SAVANNAH RIVER PLANT**

SF east facility  
 SF energy applied systems test facility

\*BT1 us aec

\*BT1 us doe

\*BT1 us erda

RT south carolina

**savannah river plant c reactor**

INIS: 1993-11-09; ETDE: 1983-11-23

USE c reactor

**savannah river plant k reactor**

1993-11-09

USE k reactor

**savannah river plant l reactor**

INIS: 1993-11-09; ETDE: 1982-05-12

USE l reactor

**savannah river plant p reactor**

1993-11-09

USE p reactor

**savannah river plant r reactor**

1993-11-09

USE r reactor

**savannah river process development reactor**

1993-11-09

USE pdp reactor

**savannah river test pile-305**

USE sr-305 reactor

**SAVANNAS**

INIS: 2000-04-12; ETDE: 1986-10-07

Distinct biomes characterized by grassland with interspersed trees.

\*BT1 terrestrial ecosystems

RT arid lands

RT tropical regions

**SAVONIUS ROTORS**

INIS: 2000-04-12; ETDE: 1976-02-19

BT1 rotors

RT vertical axis turbines

**sawada method**

USE goldstone diagrams

**SAWTOOTH OSCILLATIONS**

INIS: 1988-11-16; ETDE: 1988-12-05

BT1 oscillations

RT kink instability

RT magnetic reconnection

RT plasma

RT plasma confinement

RT plasma disruption

RT rotational transform

RT stellarators

RT tokamak devices

**saxon-woods potential**

USE woods-saxon potential

**SAXTON REACTOR**

Westinghouse Reactor Evaluation Center, Waltz Mill, Pennsylvania, USA. Shut down in 1972; decommissioned in 1996.

\*BT1 pwr type reactors



**SBR-1 REACTOR***Obninsk, Russian Federation.**UF br-1 reactor (russian federation)**UF soviet breeder reactor-1*

\*BT1 enriched uranium reactors

\*BT1 Imfbr type reactors

\*BT1 plutonium reactors

\*BT1 research reactors

**SBR-2 REACTOR***Obninsk, Russian Federation.**UF br-2 reactor (russian federation)**UF soviet breeder reactor-2*

\*BT1 Imfbr type reactors

\*BT1 mercury cooled reactors

\*BT1 plutonium reactors

\*BT1 research reactors

**SBR-5 REACTOR***Obninsk, Russian Federation.**UF br-5 reactor (russian federation)**UF soviet breeder reactor-5*

\*BT1 Imfbr type reactors

\*BT1 plutonium reactors

\*BT1 research reactors

\*BT1 sodium cooled reactors

\*BT1 test reactors

**sca model***INIS: 1984-04-04; ETDE: 2002-06-13**SemiClassical Approximation model.*

USE semiclassical approximation

**SCALAR FIELDS**

RT quantum field theory

**SCALAR MESONS***Mesons with spin and parity 0+.*

\*BT1 mesons

NT1 a0-980 mesons

NT1 chi0-3415 mesons

NT1 f0-1240 mesons

NT1 f0-1300 mesons

NT1 f0-1590 mesons

NT1 f0-1730 mesons

NT1 f0-980 mesons

NT1 k\*0-1430 mesons

RT sigma model

**SCALARS**

RT mathematics

RT pseudoscalars

RT tensors

**SCALE CONTROL***INIS: 1999-05-12; ETDE: 1978-05-03*

BT1 control

RT corrosion protection

RT descaling

RT scaling

**SCALE DIMENSION***A natural number characteristic of the scale-transformation properties of a given quantum field.*

NT1 anomalous dimension

NT1 canonical dimension

RT conformal invariance

RT quantum field theory

RT scale invariance

**SCALE HEIGHT***2000-05-23**Measure of the relation between density and temperature of points in an atmosphere.*

\*BT1 height

RT ionosphere

RT virtual height

**SCALE INVARIANCE**

BT1 invariance principles

RT conformal invariance

RT particle rapidity

RT scale dimension

**SCALE MODELS***INIS: 1980-07-24; ETDE: 1980-02-11**A three-dimensional representation of an object or structure containing all parts in the same proportion as their true size.**UF models (scale)*

BT1 structural models

RT functional models

RT mockup

RT scaling laws

RT simulators

**SCALERS***UF scaling units*

\*BT1 electronic equipment

RT counting circuits

RT counting tubes

RT pulse techniques

RT radiation detectors

**SCALING***1999-05-18**Forming a thick layer of metallic oxides on metals at high temperature. Also, depositing of solid inorganic solutes from water on a metal surface, such as a cooling tube or boiler.*

RT corrosion

RT corrosion products

RT deposition

RT descaling

RT precipitation

RT scale control

**SCALING LAWS**

RT calibration

RT mathematical models

RT scale models

RT simulation

**scaling units**

USE scalars

**SCANDINAVIA***1995-04-03*

\*BT1 western europe

NT1 denmark

NT1 finland

NT1 norway

NT1 sweden

**SCANDIUM**

\*BT1 transition elements

**SCANDIUM 39***1989-07-19*

\*BT1 light nuclei

\*BT1 odd-even nuclei

\*BT1 proton decay radioisotopes

\*BT1 scandium isotopes

**SCANDIUM 40**

\*BT1 beta-plus decay radioisotopes

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 scandium isotopes

**SCANDIUM 41**

\*BT1 beta-plus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 scandium isotopes

**SCANDIUM 42**

\*BT1 beta-plus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 scandium isotopes

\*BT1 seconds living radioisotopes

**SCANDIUM 43**

\*BT1 beta-plus decay radioisotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 scandium isotopes

**SCANDIUM 44**

\*BT1 beta-plus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 odd-odd nuclei

\*BT1 scandium isotopes

**SCANDIUM 45**

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 scandium isotopes

\*BT1 stable isotopes

**SCANDIUM 45 REACTIONS***INIS: 1980-11-28; ETDE: 1981-01-09*

\*BT1 heavy ion reactions

**SCANDIUM 45 TARGET***ETDE: 1976-07-09*

BT1 targets

**SCANDIUM 46**

\*BT1 beta-minus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 internal conversion radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 odd-odd nuclei

\*BT1 scandium isotopes

\*BT1 seconds living radioisotopes

**SCANDIUM 47**

\*BT1 beta-minus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 scandium isotopes

**SCANDIUM 47 TARGET***INIS: 1992-09-23; ETDE: 1979-07-24*

BT1 targets

**SCANDIUM 48**

\*BT1 beta-minus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-odd nuclei

\*BT1 scandium isotopes

**SCANDIUM 49**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 scandium isotopes

**SCANDIUM 50**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 scandium isotopes

**SCANDIUM 51**

\*BT1 beta-minus decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 odd-even nuclei

\*BT1 scandium isotopes

\*BT1 seconds living radioisotopes

**SCANDIUM 52***INIS: 1984-10-19; ETDE: 1976-05-13*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 scandium isotopes
- \*BT1 seconds living radioisotopes

**SCANDIUM 53***INIS: 1991-02-11; ETDE: 1981-01-30*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 scandium isotopes

**SCANDIUM 54***1991-02-11*

- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 scandium isotopes

**SCANDIUM 55***1991-02-11*

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 scandium isotopes

**SCANDIUM 57***2005-03-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 scandium isotopes

**SCANDIUM 58***2005-03-11*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 scandium isotopes

**SCANDIUM ADDITIONS***Alloys containing not more than 1% Sc are listed here.*

- \*BT1 scandium alloys

**SCANDIUM ALLOYS***1995-02-27**Alloys containing more than 1% Sc.*

- \*BT1 transition element alloys
- NT1 scandium additions
- NT1 scandium base alloys

**SCANDIUM BASE ALLOYS**

- \*BT1 scandium alloys

**SCANDIUM BORIDES**

- \*BT1 borides
- \*BT1 scandium compounds

**SCANDIUM BROMIDES***INIS: 1976-08-17; ETDE: 1976-11-01*

- \*BT1 bromides
- \*BT1 scandium compounds

**SCANDIUM CARBIDES**

- \*BT1 carbides
- \*BT1 scandium compounds

**SCANDIUM CARBONATES***INIS: 2000-04-12; ETDE: 1989-03-20*

- \*BT1 carbonates
- \*BT1 scandium compounds

**SCANDIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 scandium compounds

**SCANDIUM COMPLEXES**

- \*BT1 transition element complexes

**SCANDIUM COMPOUNDS***1997-06-19*

- UF scandium selenides
- BT1 transition element compounds
- NT1 scandium borides
- NT1 scandium bromides
- NT1 scandium carbides
- NT1 scandium carbonates
- NT1 scandium chlorides
- NT1 scandium fluorides
- NT1 scandium hydrides
- NT1 scandium hydroxides
- NT1 scandium iodides
- NT1 scandium nitrates
- NT1 scandium nitrides
- NT1 scandium oxides
- NT1 scandium perchlorates
- NT1 scandium phosphates
- NT1 scandium phosphides
- NT1 scandium silicates
- NT1 scandium silicides
- NT1 scandium sulfates
- NT1 scandium sulfides
- NT1 scandium tungstates

**SCANDIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 scandium compounds

**SCANDIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 scandium compounds

**SCANDIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 scandium compounds

**SCANDIUM IODIDES**

- \*BT1 iodides
- \*BT1 scandium compounds

**SCANDIUM IONS**

- \*BT1 ions

**SCANDIUM ISOTOPES***1999-07-16*

- BT1 isotopes
- NT1 scandium 39
- NT1 scandium 40
- NT1 scandium 41
- NT1 scandium 42
- NT1 scandium 43
- NT1 scandium 44
- NT1 scandium 45
- NT1 scandium 46
- NT1 scandium 47
- NT1 scandium 48
- NT1 scandium 49
- NT1 scandium 50
- NT1 scandium 51
- NT1 scandium 52
- NT1 scandium 53
- NT1 scandium 54
- NT1 scandium 55
- NT1 scandium 57
- NT1 scandium 58

**SCANDIUM NITRATES**

- \*BT1 nitrates
- \*BT1 scandium compounds

**SCANDIUM NITRIDES**

- \*BT1 nitrides
- \*BT1 scandium compounds

**SCANDIUM OXIDES**

- \*BT1 oxides
- \*BT1 scandium compounds

**SCANDIUM PERCHLORATES***INIS: 2000-04-12; ETDE: 1977-11-28*

- \*BT1 perchlorates

- \*BT1 scandium compounds

**SCANDIUM PHOSPHATES***INIS: 1976-09-06; ETDE: 1976-11-01*

- \*BT1 phosphates
- \*BT1 scandium compounds

**SCANDIUM PHOSPHIDES***INIS: 1981-02-27; ETDE: 1980-10-07*

- \*BT1 phosphides
- \*BT1 scandium compounds

**scandium selenides***INIS: 1996-07-23; ETDE: 1979-02-23**(Until July 1996 this was a valid descriptor.)*

- USE scandium compounds
- USE selenides

**SCANDIUM SILICATES**

- \*BT1 scandium compounds
- \*BT1 silicates

**SCANDIUM SILICIDES***INIS: 1978-05-19; ETDE: 1978-03-03*

- \*BT1 scandium compounds
- \*BT1 silicides

**SCANDIUM SULFATES**

- \*BT1 scandium compounds
- \*BT1 sulfates

**SCANDIUM SULFIDES**

- \*BT1 scandium compounds
- \*BT1 sulfides

**SCANDIUM TUNGSTATES***INIS: 1982-06-09; ETDE: 1982-07-08*

- \*BT1 scandium compounds
- \*BT1 tungstates

**scanners (beam)***INIS: 1984-04-04; ETDE: 2002-06-13*

- USE beam scanners

**scanners (image)**

- USE image scanners

**scanners (optical)***INIS: 2000-04-12; ETDE: 1977-04-12**(Prior to March 1997 OPTICAL SCANNERS was used for this concept in ETDE.)*

- USE image scanners
- USE optical equipment

**scanners (radioisotope)***INIS: 1984-04-04; ETDE: 2002-06-13*

- USE radioisotope scanners

**scanning (electron)**

- USE electron scanning

**scanning (fuel)***INIS: 1976-09-06; ETDE: 2002-06-13*

- USE fuel scanning

**scanning (radioisotope)**

- USE radioisotope scanning

**scanning acoustic microscopy***INIS: 1993-04-07; ETDE: 2002-06-13*

- USE acoustic microscopy

**SCANNING ELECTRON MICROSCOPY***INIS: 1982-12-07; ETDE: 1979-11-23**(Prior to January 1983 this concept was indexed by coordination of ELECTRON MICROSCOPY and ELECTRON SCANNING.)*

- UF ebic
- UF electron beam induced current
- UF sem (microscopy)
- \*BT1 electron microscopy

**SCANNING LIGHT MICROSCOPY**

INIS: 1994-07-14; ETDE: 1983-03-23

Means of spatial mapping of the optical or electrical properties of deep energy levels in semiconductors.

UF *slm*

\*BT1 optical microscopy

RT photocurrents

RT photoluminescence

RT reflectivity

**SCANNING MEASURING PROJECTORS**

UF *franckenstein*

UF *projectors (scanning)*

UF *smp devices*

\*BT1 digitizers

**SCANNING TUNNELING MICROSCOPY**

INIS: 1999-07-26; ETDE: 1999-09-09

Technique used to study surface properties of materials from atomic to micron level. A potential difference is applied between a sharp metallic tip and a surface; electrons tunnel across the gap between them.

UF *stm*

BT1 microscopy

RT atomic force microscopy

**SCARABEE REACTOR**

1999-09-24

Nuclear Protection and Safety Institute, CEA St. Paul Lez Durance, France.

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**SCATTERING**

1996-07-18

(Prior to March 1997 KHURI

REPRESENTATION and HAYWOOD

MODEL were valid ETDE descriptors; prior

to August 1996 ZEMACH-GLAUBER

FORMALISM was a valid ETDE descriptor.)

SF *khuri representation*

SF *zemach-glauber formalism*

NT1 backscattering

NT1 coherent scattering

NT2 brillouin effect

NT2 diffraction

NT3 atomic beam diffraction

NT3 diffuse scattering

NT3 electron diffraction

NT3 neutron diffraction

NT3 x-ray diffraction

NT2 rayleigh scattering

NT1 elastic scattering

NT2 bhabha scattering

NT2 compton effect

NT2 coulomb scattering

NT2 moeller scattering

NT2 mott scattering

NT2 potential scattering

NT2 rutherford scattering

NT2 wigner scattering

NT1 incoherent scattering

NT1 inelastic scattering

NT2 deep inelastic scattering

NT2 delbrueck scattering

NT2 resonance scattering

NT2 thomson scattering

NT1 light scattering

NT1 multiple scattering

NT1 proximity scattering

NT1 quasi-elastic scattering

NT1 rescattering

NT1 small angle scattering

RT adiabatic approximation

RT binary encounter method

RT blankenbecler-sugar equations

RT born approximation

RT born-oppenheimer approximation

RT brinkman-kramers approximation

RT buildup

RT center-of-mass system

RT collisions

RT conspiracy relations

RT coupled channel born approximation

RT detailed balance principle

RT diabatic approximation

RT dispersion relations

RT dwba

RT effective range theory

RT four momentum transfer

RT fsc approximation

RT glauber theory

RT gribov-lipatov relation

RT impact parameter

RT impulse approximation

RT incidence angle

RT interactions

RT inverse scattering problem

RT ion scattering analysis

RT jost function

RT laboratory system

RT landau curves

RT lane-robson theory

RT levinson theorem

RT nuclear reactions

RT partial waves

RT perturbation theory

RT phase shift

RT polarization-asymmetry ratio

RT radiation scattering analysis

RT raman effect

RT resonating-group method

RT s matrix

RT scattering amplitudes

RT scattering lengths

RT semiclassical approximation

RT shadow effect

RT shielding

RT spectroscopic factors

RT stray radiation

RT targets

RT threshold energy

RT transport theory

RT wkb approximation

**SCATTERING AMPLITUDES**

BT1 amplitudes

RT abfst equation

RT argand diagrams

RT crossing symmetry

RT dispersion relations

RT duality

RT eikonal approximation

RT linear absorption models

RT partial waves

RT quasipotential equation

RT regge poles

RT s matrix

RT scattering

RT singularity

RT veneziano model

**SCATTERING LENGTHS**

1999-07-20

\*BT1 length

RT scattering

**SCATTERPLOTS**

Two-dimensional projections of multidimensional data.

\*BT1 diagrams

NT1 argand diagrams

NT1 dalitz plot

NT1 prism plot

**SCAVENGING**

RT hot atom chemistry

RT radiation chemistry

RT radicals

**scavenging (atmospheric)**

USE washout

**SCENEDESMUS**

\*BT1 chlorophycota

\*BT1 unicellular algae

**SCHEDULES**

INIS: 1986-07-09; ETDE: 1983-05-21

RT construction

RT contract management

RT forecasting

RT management

RT organizing

RT pert method

RT planning

RT time delay

**SCHIFF BASES**

\*BT1 imines

**SCHIFFER POTENTIAL**

INIS: 1976-10-29; ETDE: 1976-12-16

\*BT1 nucleon-nucleon potential

RT nucleon-nucleon interactions

**SCHISTOSOMA**

\*BT1 trematodes

RT schistosomiasis

**SCHISTOSOMIASIS**

\*BT1 parasitic diseases

RT schistosoma

RT snails

**SCHISTS**

1977-07-05

Strongly foliated crystalline rocks formed by dynamic metamorphism which can be readily split into thin flakes or slabs due to the well developed parallelism of more than 50% of the minerals present.

\*BT1 metamorphic rocks

**SCHLIEREN METHOD**

BT1 photography

RT opacity

RT refraction

RT visible radiation

**schmalfeldt-wintershall process**

2000-04-12

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

**SCHMEHAUSEN-2 REACTOR**

INIS: 2000-04-12; ETDE: 1975-09-11

\*BT1 enriched uranium reactors

\*BT1 helium cooled reactors

\*BT1 htgr type reactors

\*BT1 power reactors

**schmehausen reactor**

INIS: 1995-05-02; ETDE: 2002-06-13

USE thtr-300 reactor

**schmehausen thtr reactor**

USE thtr-300 reactor

**schmid-vicchnicki technique**

INIS: 2000-04-12; ETDE: 1980-02-11

USE heat exchanger method

**SCHMIDT LINES**

RT nuclear magnetic moments

RT spin

**SCHMIDT MODEL**

*RT* single-particle model  
*RT* spin

***schmitt trigger circuits***

*USE* multivibrators

***schnelle null-energie anordnung******karlsruhe***

1993-11-09

*USE* sneak reactor

***schneller natriumgekuehelter reaktor***

*USE* snr reactor

**SCHOEPITE**

\*BT1 oxide minerals  
 \*BT1 uranium minerals  
*RT* uranium oxides

**SCHOOL BUILDINGS**

*INIS*: 1992-09-03; *ETDE*: 1976-04-19

BT1 buildings  
 BT1 educational facilities  
*RT* laboratory buildings  
*RT* public buildings

***school facilities***

*INIS*: 2000-04-12; *ETDE*: 1979-05-31

*USE* educational facilities

***school plant***

*INIS*: 2000-04-12; *ETDE*: 1979-05-25

*USE* educational facilities

***schools***

*INIS*: 1983-06-30; *ETDE*: 1983-07-20

*USE* educational facilities

***schooner event***

1994-10-14

*A test made during OPERATION BOWLINE.*

(Prior to September 1994, this was a valid ETDE descriptor.)

*USE* cratering explosions  
*USE* thermonuclear explosions  
*USE* underground explosions

**SCHOTTKY BARRIER DIODES**

1997-06-19

\*BT1 semiconductor diodes  
*RT* schottky barrier solar cells  
*RT* tunnel diodes

**SCHOTTKY BARRIER SOLAR CELLS**

*INIS*: 2000-04-12; *ETDE*: 1981-07-18

\*BT1 solar cells  
*RT* mis solar cells  
*RT* schottky barrier diodes

**SCHOTTKY DEFECTS**

\*BT1 vacancies

**SCHOTTKY EFFECT**

*RT* thermionics

***schroedingerite***

1996-07-08

(Until June 1996 this was a valid descriptor.)

*USE* carbonate minerals  
*USE* halide minerals  
*USE* sulfate minerals  
*USE* uranium minerals

**SCHROEDINGER EQUATION**

\*BT1 wave equations  
*RT* dirac equation  
*RT* jost function  
*RT* quantum mechanics  
*RT* wave functions

**SCHROEDINGER PICTURE**

*INIS*: 1976-03-17; *ETDE*: 1976-01-23

*UF* schroedinger representation  
*RT* heisenberg picture  
*RT* quantum field theory  
*RT* quantum mechanics

***schroedinger representation***

*INIS*: 1976-03-17; *ETDE*: 2002-06-13

*USE* schroedinger picture

**SCHULZ METHOD**

*RT* diffraction methods  
*RT* texture

**SCHUMANN-RUNGE BANDS**

*RT* spectra

***schwarzschild field***

*USE* schwarzschild metric

**SCHWARZSCHILD METRIC**

*UF* schwarzschild field  
*UF* schwarzschild solution  
*UF* schwarzschild space  
 BT1 metrics  
*RT* cosmology  
*RT* general relativity theory  
*RT* gravitation

**SCHWARZSCHILD RADIUS**

*RT* black holes  
*RT* gravitational collapse

***schwarzschild solution***

*USE* schwarzschild metric

***schwarzschild space***

*USE* schwarzschild metric

**SCHWINGER FUNCTIONAL EQUATIONS**

\*BT1 differential equations  
*RT* quantum field theory

**SCHWINGER SOURCE THEORY**

*RT* causality  
*RT* elementary particles  
*RT* quantum field theory

**SCHWINGER TERMS**

*RT* current commutators  
*RT* delta function

**SCHWINGER-TOMONAGA FORMALISM**

\*BT1 quantum electrodynamics

**SCHWINGER VARIATIONAL METHOD**

\*BT1 variational methods  
*RT* lippmann-schwinger equation  
*RT* quantum mechanics

**SCIATIC NERVE**

\*BT1 nerves  
*RT* legs

**SCIENTIFIC PERSONNEL**

*INIS*: 1993-09-06; *ETDE*: 1995-05-09

*SF* professional personnel  
 BT1 personnel

***scintigraphy***

*USE* scintiscanning

***scintillation cameras***

*INIS*: 1976-03-17; *ETDE*: 2002-06-13  
*USE* gamma cameras

***scintillation chambers***

*USE* scintillation counters

**SCINTILLATION COUNTERS**

*UF* scintillation chambers  
*UF* scintillation detectors  
 \*BT1 radiation detectors  
 NT1 gas scintillation detectors  
 NT1 liquid scintillation detectors  
 NT1 scintillator-photodiode detectors  
 NT1 solid scintillation detectors  
 NT2 bgo detectors  
 NT2 nai detectors  
 NT2 plastic scintillation detectors  
*RT* dosimeters  
*RT* light pipes  
*RT* luminescent chambers  
*RT* phosphors  
*RT* photomultipliers  
*RT* proton recoil detectors  
*RT* scintillation counting  
*RT* scintillation quenching

**SCINTILLATION COUNTING**

BT1 counting techniques  
*RT* liquid scintillators  
*RT* scintillation counters  
*RT* scintillation quenching

***scintillation detectors***

*USE* scintillation counters

**SCINTILLATION QUENCHING**

*UF* quenching (scintillation)  
*RT* liquid scintillation detectors  
*RT* scintillation counters  
*RT* scintillation counting

**SCINTILLATIONS**

*RT* radioluminescence

**SCINTILLATOR-PHOTODIODE DETECTORS**

\*BT1 scintillation counters

***scintillators***

*INIS*: 1975-12-17; *ETDE*: 2002-06-13  
*USE* phosphors

**SCINTISCANNING**

*UF* scintigraphy  
 BT1 diagnostic techniques  
 \*BT1 radioisotope scanning  
 NT1 radioimmunoscintigraphy  
*RT* diagnosis  
*RT* dual-isotope subtraction technique  
*RT* images  
*RT* labelled compounds  
*RT* nuclear medicine  
*RT* osteodensitometry  
*RT* radiopharmaceuticals

***scioto river***

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor.)

*USE* ohio  
*USE* rivers

**SCISSION-POINT MODEL**

*INIS*: 1986-10-29; *ETDE*: 1985-05-07

*A static model of nuclear fission based on the assumption of statistical equilibrium among collective degrees of freedom at the scission point.*

\*BT1 nuclear models  
*RT* fission

***sclera***

*USE* eyes

**SCLEROPROTEINS**

\*BT1 proteins  
 NT1 collagen  
 NT1 fibrin

NT1 glutin  
NT1 keratin

**SCORPIONS**

\*BT1 arachnids

**SCOT PROCESS**

2000-04-12

*Process for increasing sulfur recovery efficiency of Claus units from the usual level of about 95% to more than 99.8%.*

UF shell claus off-gas treating process  
\*BT1 desulfurization

**scotch event**

INIS: 1994-10-14; ETDE: 1977-01-10

*A test made during OPERATION LATCHKEY. (Prior to September 1994, this was a valid ETDE descriptor.)*

USE nuclear explosions  
USE underground explosions

**scotland**

INIS: 1984-11-30; ETDE: 1984-12-27

USE united kingdom

**scottish research reactor center utr-100 reactor**

1993-11-09

USE srcc-utr-100 reactor

**SCRAM**

UF emergency shutdown

\*BT1 reactor shutdown  
RT atws  
RT fluid poison control  
RT reactor protection systems  
RT reactor safety fuses  
RT scram rods  
RT soluble poisons

**SCRAM RODS**

UF emergency rods

UF safety rods

\*BT1 control elements  
RT neutron absorbers  
RT scram

**SCRAP**

INIS: 1986-04-04; ETDE: 1978-03-09

*Material, usually from production processes, which can be reprocessed or recycled to become useful.*

\*BT1 solid wastes  
NT1 scrap metals  
RT industrial wastes  
RT municipal wastes  
RT recycling  
RT waste processing

**SCRAP METALS**

INIS: 1994-09-08; ETDE: 1977-08-09

*Metallic waste from the production of metals or from the fabrication or obsolescence of metal equipment.*

\*BT1 metals  
\*BT1 scrap  
RT industrial wastes  
RT metal industry

**SCRAPERS**

INIS: 2000-04-12; ETDE: 1982-05-24

BT1 equipment  
RT dewaxing  
RT pipelines  
RT pipes  
RT surface cleaning  
RT well servicing

**SCREEN PRINTING**

INIS: 2000-04-12; ETDE: 1979-02-27

\*BT1 surface coating

RT coatings  
RT masking

**SCREENING**

INIS: 2000-04-12; ETDE: 1978-05-03

*Process of separating various-sized particles by using screens with different-sized openings by rotating, shaking, vibrating, or otherwise agitating the screen.*

RT sorting

**screening (carcinogen)**

INIS: 2000-04-12; ETDE: 1997-03-31

USE carcinogen screening

**screening (magnetic fields)**

INIS: 2000-04-12; ETDE: 1997-03-31

USE magnetic shielding

**screening (mutagen)**

INIS: 2000-04-12; ETDE: 1997-03-31

USE mutagen screening

**screening (nuclear)**

INIS: 2000-04-12; ETDE: 1997-03-31

USE nuclear screening

**screening (teratogen)**

INIS: 2000-04-12; ETDE: 1997-03-31

USE teratogen screening

**SCREENS**

1996-05-14

*Permeable barriers, frequently of perforated plates or metal wire mesh, used to prevent particles or objects larger than a specified size from passing beyond a given point in a flow stream, while permitting everything of smaller size to pass. Not to be used for viewing screens on which any type of image is displayed as on a cathode ray tube.*

NT1 trommels  
RT concentrators  
RT curtains  
RT filters  
RT fouling  
RT gratings  
RT impingement  
RT intake structures  
RT particle size classifiers  
RT separation processes  
RT sorting

**SCREW DISLOCATIONS**

UF frank dislocations

UF frank loops

\*BT1 dislocations

**screw instability**

USE helical instability

**SCREW PINCH**

*Cylindrical plasma equilibrium in which the axial and azimuthal components of the vacuum field are the same size.*

BT1 pinch effect  
RT linear screw pinch devices  
RT toroidal screw pinch devices

**screwing**

USE fastening

**screws**

USE fasteners

**SCREWWORM FLY**

INIS: 1975-09-09; ETDE: 1975-10-28

\*BT1 flies  
RT domestic animals  
RT parasites

**scriba nuclear power plant**

ETDE: 2002-06-13

USE nine mile point-1 reactor

**SCRUBBERS**

1986-04-04

\*BT1 pollution control equipment  
NT1 dry scrubbers  
RT air cleaning  
RT air cleaning systems  
RT air filters  
RT air pollution  
RT air pollution control  
RT consol fgd process  
RT cyclone separators  
RT dust collectors  
RT scrubbing  
RT sprays  
RT thiosorbic process  
RT waste processing

**SCRUBBING**

INIS: 1983-09-06; ETDE: 1975-07-29

NT1 lime-limestone wet scrubbing processes  
NT2 bischoff process  
RT chemisorption  
RT cleaning  
RT decontamination  
RT descaling  
RT filters  
RT flue gas  
RT magnesium slurry scrubbing process  
RT off-gas systems  
RT pollution control equipment  
RT purification  
RT scrubbers  
RT separation processes  
RT sprays  
RT washing

**SCYLLA DEVICES**

\*BT1 linear theta pinch devices

**SCYLLAC DEVICES**

\*BT1 toroidal theta pinch devices

**SDS COMPUTERS**

BT1 computers

**sea, safety of life at, convention**

INIS: 1984-06-21; ETDE: 2002-06-16

USE solas convention

**SEA BED**

RT earth crust  
RT geomorphology  
RT seas  
RT sediment-water interfaces  
RT sediments  
RT soil mechanics  
RT submarine canyons

**sea disposal**

USE marine disposal

**SEA-FLOOR SPREADING**

INIS: 2000-04-12; ETDE: 1976-08-04

*A hypothesis that the oceanic crust is increasing by convective upwelling of magma along the mid-oceanic ridges or world rift system, and a moving away of the new material at a rate of from one to ten centimeters per year. This movement provides the source of power in the hypothesis of plate tectonics.*

UF ocean spreading center  
RT earth crust  
RT plate tectonics  
RT seas

**SEA LEVEL**

BT1 levels

**sea of marmara**

INIS: 2000-04-12; ETDE: 1976-05-17

(Prior to July 1996 MARMARA SEA was a valid ETDE descriptor.)

USE seas

USE turkey

**SEA URCHINS**

\*BT1 echinoderms

**seaboard process**

2000-04-12

*Wet scrubbing process for the removal of hydrogen sulfide from refinery and petroleum gas streams.*

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**SEABORGIUM**

2004-03-19

(Prior to March 2004 ELEMENT 106 was used for this element.)

UF *eka-tungsten*UF *element 106*UF *unnihexium*

\*BT1 transactinide elements

**SEABORGIUM 259**

2004-03-19

(Prior to March 2004 ELEMENT 106 259 was used for this concept.)

UF *element 106 259*

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 seaborgium isotopes

\*BT1 spontaneous fission radioisotopes

**SEABORGIUM 260**

2004-03-19

(Prior to March 2004 ELEMENT 106 260 was used for this concept.)

UF *element 106 260*

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 seaborgium isotopes

\*BT1 spontaneous fission radioisotopes

**SEABORGIUM 261**

2004-03-19

(Prior to March 2004 ELEMENT 106 261 was used for this concept.)

UF *element 106 261*

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 seaborgium isotopes

\*BT1 spontaneous fission radioisotopes

**SEABORGIUM 262**

2004-03-19

(Prior to March 2004 ELEMENT 106 262 was used for this concept.)

UF *element 106 262*

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 seaborgium isotopes

\*BT1 spontaneous fission radioisotopes

**SEABORGIUM 263**

2004-03-19

(Prior to March 2004 ELEMENT 106 263 was used for this concept.)

UF *element 106 263*

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 seaborgium isotopes

\*BT1 spontaneous fission radioisotopes

**SEABORGIUM 265**

2004-03-19

(Prior to March 2004 ELEMENT 106 265 was used for this concept.)

UF *element 106 265*

\*BT1 alpha decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 heavy nuclei

\*BT1 seaborgium isotopes

\*BT1 seconds living radioisotopes

\*BT1 spontaneous fission radioisotopes

**SEABORGIUM 266**

2004-03-19

(Prior to March 2004 ELEMENT 106 266 was used for this concept.)

UF *element 106 266*

\*BT1 alpha decay radioisotopes

\*BT1 even-even nuclei

\*BT1 heavy nuclei

\*BT1 seaborgium isotopes

\*BT1 seconds living radioisotopes

\*BT1 spontaneous fission radioisotopes

**SEABORGIUM COMPOUNDS**

2004-03-19

(Prior to March 2004 ELEMENT 106 COMPOUNDS was used for this concept.)

UF *element 106 compounds*

\*BT1 transactinide compounds

**SEABORGIUM ISOTOPES**

2004-03-19

(Prior to March 2004 ELEMENT 106 ISOTOPES was used for this concept.)

UF *element 106 isotopes*

BT1 isotopes

NT1 seaborgium 259

NT1 seaborgium 260

NT1 seaborgium 261

NT1 seaborgium 262

NT1 seaborgium 263

NT1 seaborgium 265

NT1 seaborgium 266

**SEABROOK-1 REACTOR***North Atlantic Energy Service Corp.,**Seabrook, New Hampshire, USA.*

\*BT1 pwr type reactors

**SEABROOK-2 REACTOR***Public Service Co. of New Hampshire,**Seabrook, New Hampshire, USA. Canceled in 1988 before construction began.*

\*BT1 pwr type reactors

**seacoast**

USE shores

**SEACOCKE PROCESS**

2000-04-12

*A fluidized-bed pyrolysis of coal, with partial counterflow of gas and char to maximize liquid and gas yield from volatile matter of coal, to produce gas, liquid, and solid product streams, developed by Atlantic Refining Co., now Atlantic Richfield Co.*

\*BT1 coal gasification

**SEAFOOD**

BT1 fish products

BT1 food

RT crabs

RT fishes

RT lobsters

RT oysters

RT plaice

RT prawns

RT shrimp

RT snails

RT trout

**SEALED SOURCES**

BT1 radiation sources

RT containment

RT leak testing

RT leaks

**SEALING MATERIALS**

BT1 materials

RT grouting

RT seals

RT waterproofing

**SEALS**

(From November 1977 to February 1997 CAULKING was a valid ETDE descriptor.)

SF *caulking*

NT1 gaskets

NT1 inflatable seals

NT1 security seals

RT cementing

RT closures

RT grouting

RT liners

RT pipe fittings

RT sealing materials

RT waterproofing

**seals (mammals)**

INIS: 1993-05-04; ETDE: 1982-02-08

USE pinnipeds

**seam welding**

INIS: 1976-03-17; ETDE: 2002-06-13

USE welding

**seam welds**

INIS: 1976-03-17; ETDE: 2002-06-13

USE welded joints

**SEAS**

1997-06-19

*For use only in its geographic connotation; for the legal connotation see HIGH SEAS and TERRITORIAL WATERS.*UF *bass strait*UF *marmara sea*UF *marmora sea*UF *oceans*UF *sea of marmara*

BT1 surface waters

NT1 antarctic ocean

NT2 weddell sea

NT1 aral sea

NT1 arctic ocean

NT2 beaufort sea

NT3 prudhoe bay

NT2 chukchi sea

NT1 atlantic ocean

NT2 baltimore canyon

NT2 bay of biscay

NT2 bay of fundy

NT2 biscayne bay

NT2 caribbean sea

NT3 gulf of mexico

NT4 galveston bay

NT4 san antonio bay

NT2 chesapeake bay

NT2 delaware bay

**NT2** gulf of maine  
**NT2** irish sea  
**NT2** long island sound  
**NT2** mid-atlantic bight  
**NT3** new york bight  
**NT2** north sea  
**NT3** wadden sea  
**NT2** onslow bay  
**NT2** sargasso sea  
**NT2** south atlantic bight  
**NT2** weddell sea  
**NT1** baltic sea  
**NT1** black sea  
**NT1** caspian sea  
**NT1** indian ocean  
**NT2** arabian sea  
**NT3** persian gulf  
**NT4** strait of hormuz  
**NT2** timor sea  
**NT1** mediterranean sea  
**NT2** adriatic sea  
**NT2** aegean sea  
**NT1** pacific ocean  
**NT2** bering sea  
**NT2** china sea  
**NT2** gulf of alaska  
**NT2** gulf of california  
**NT2** puget sound  
**NT2** san francisco bay  
**NT2** santa barbara channel  
**NT2** sequim bay  
**NT2** tasman sea  
**NT1** red sea  
**NT2** gulf of suuez  
*RT* bathymetry  
*RT* coastal waters  
*RT* estuaries  
*RT* harbors  
*RT* high seas  
*RT* islands  
*RT* marinas  
*RT* oceanic circulation  
*RT* oceanography  
*RT* offshore nuclear power plants  
*RT* offshore sites  
*RT* reefs  
*RT* sea bed  
*RT* sea-floor spreading  
*RT* seawater  
*RT* shores  
*RT* territorial waters  
*RT* tide  
*RT* tsunamis  
*RT* water currents  
*RT* water waves  
*RT* wave energy converters

**SEASAT SATELLITES**

*INIS: 2000-04-12; ETDE: 1980-03-29*

**BT1** satellites  
*RT* aerial prospecting  
*RT* remote sensing

**SEASONAL THERMAL ENERGY STORAGE**

*INIS: 2000-04-12; ETDE: 1982-05-24*

*UF* *stes*  
**\*BT1** heat storage  
*RT* latent heat storage  
*RT* sensible heat storage

**SEASONAL VARIATIONS**

*UF* *time-of-season pricing*  
**BT1** variations  
*RT* climate models  
*RT* seasons  
*RT* time-of-use pricing

**seasonings**

*2000-04-12*

*USE* food

**SEASONS**

*RT* atmospheric precipitations  
*RT* climates  
*RT* meteorology  
*RT* seasonal variations  
*RT* vernalization  
*RT* weather

**SEAWATER**

**\*BT1** water  
*RT* brines  
*RT* desalination  
*RT* desalination plants  
*RT* estuaries  
*RT* fiords  
*RT* salinity  
*RT* salinity gradient power plants  
*RT* salinity gradients  
*RT* seas

**SEAWEEDS**

*UF* *kelp*  
**BT1** aquatic organisms  
**BT1** plants  
**NT1** fucus  
**NT1** laminaria

**sebaceous glands**

*USE* glands  
*USE* skin

**SEBACIC ACID**

**\*BT1** dicarboxylic acids

**secale**

*USE* rye

**SECOND-CLASS CURRENTS**

*Classification of currents according to their properties under G-parity transformations.*

**\*BT1** algebraic currents  
*RT* weak interactions

**second-harmonic generation**

*INIS: 2000-04-12; ETDE: 1986-01-14*

*USE* harmonic generation

**SECOND QUANTIZATION**

**BT1** quantization  
*RT* annihilation operators  
*RT* creation operators  
*RT* quantum field theory  
*RT* quantum mechanics

**SECOND SOUND**

*RT* sound waves  
*RT* superfluidity

**secondary batteries**

*INIS: 2000-04-12; ETDE: 1976-05-17*

*USE* electric batteries

**SECONDARY BEAMS**

**BT1** beams  
**NT1** carbon 11 beams  
**NT1** helium 8 beams  
*RT* ion probes

**SECONDARY COOLANT CIRCUITS**

**\*BT1** reactor cooling systems

**SECONDARY COSMIC RADIATION**

**\*BT1** cosmic radiation  
**NT1** cosmic electrons  
**NT1** cosmic kaons  
**NT1** cosmic muons  
**NT1** cosmic neutrons  
**NT1** cosmic pions  
**NT1** cosmic positrons

**NT1** cosmic showers

**NT2** extensive air showers

**SECONDARY EMISSION**

**BT1** emission  
**NT1** photoemission  
*RT* ion probes  
*RT* photon emission

**SECONDARY EMISSION****DETECTORS**

**\*BT1** radiation detectors

**SECONDARY REACTIONS**

**BT1** nuclear reactions

**secondary recovery**

*INIS: 1991-10-22; ETDE: 1976-02-23*

*USE* enhanced recovery

**secondary standard dosimetry****laboratories**

*INIS: 1993-11-09; ETDE: 1980-08-12*

*USE* ssdl

**SECONDS LIVING RADIOISOTOPES**

*1997-02-07*

**\*BT1** radioisotopes

**NT1** actinium 214

**NT1** actinium 222

**NT1** actinium 234

**NT1** aluminium 24

**NT1** aluminium 25

**NT1** aluminium 26

**NT1** aluminium 30

**NT1** americium 232

**NT1** antimony 105

**NT1** antimony 106

**NT1** antimony 107

**NT1** antimony 108

**NT1** antimony 109

**NT1** antimony 110

**NT1** antimony 112

**NT1** antimony 126

**NT1** antimony 134

**NT1** antimony 135

**NT1** argon 35

**NT1** argon 45

**NT1** argon 46

**NT1** arsenic 67

**NT1** arsenic 80

**NT1** arsenic 81

**NT1** arsenic 82

**NT1** arsenic 83

**NT1** arsenic 84

**NT1** arsenic 85

**NT1** astatine 198

**NT1** astatine 199

**NT1** astatine 200

**NT1** astatine 202

**NT1** astatine 218

**NT1** astatine 219

**NT1** astatine 222

**NT1** astatine 223

**NT1** barium 117

**NT1** barium 118

**NT1** barium 119

**NT1** barium 120

**NT1** barium 121

**NT1** barium 127

**NT1** barium 143

**NT1** barium 144

**NT1** barium 145

**NT1** barium 146

**NT1** beryllium 111

**NT1** bismuth 189

**NT1** bismuth 190

**NT1** bismuth 191

**NT1** bismuth 192

**NT1** bismuth 193

NT1 bismuth 198  
 NT1 bohrium 271  
 NT1 bromine 71  
 NT1 bromine 76  
 NT1 bromine 79  
 NT1 bromine 86  
 NT1 bromine 87  
 NT1 bromine 88  
 NT1 bromine 89  
 NT1 bromine 90  
 NT1 cadmium 120  
 NT1 cadmium 121  
 NT1 cadmium 122  
 NT1 cadmium 123  
 NT1 cadmium 124  
 NT1 cadmium 97  
 NT1 cadmium 98  
 NT1 cadmium 99  
 NT1 calcium 50  
 NT1 calcium 51  
 NT1 calcium 52  
 NT1 californium 239  
 NT1 carbon 10  
 NT1 carbon 15  
 NT1 cerium 121  
 NT1 cerium 123  
 NT1 cerium 124  
 NT1 cerium 125  
 NT1 cerium 126  
 NT1 cerium 127  
 NT1 cerium 135  
 NT1 cerium 139  
 NT1 cerium 147  
 NT1 cerium 148  
 NT1 cerium 149  
 NT1 cerium 150  
 NT1 cerium 151  
 NT1 cerium 152  
 NT1 cesium 115  
 NT1 cesium 116  
 NT1 cesium 117  
 NT1 cesium 118  
 NT1 cesium 119  
 NT1 cesium 122  
 NT1 cesium 123  
 NT1 cesium 124  
 NT1 cesium 136  
 NT1 cesium 141  
 NT1 cesium 142  
 NT1 cesium 143  
 NT1 cesium 144  
 NT1 chlorine 33  
 NT1 chlorine 34  
 NT1 chlorine 38  
 NT1 chlorine 41  
 NT1 chromium 57  
 NT1 chromium 58  
 NT1 chromium 59  
 NT1 cobalt 63  
 NT1 cobalt 65  
 NT1 copper 58  
 NT1 copper 68  
 NT1 copper 70  
 NT1 copper 71  
 NT1 copper 72  
 NT1 copper 73  
 NT1 copper 74  
 NT1 copper 75  
 NT1 dubnium 255  
 NT1 dubnium 256  
 NT1 dubnium 257  
 NT1 dubnium 258  
 NT1 dubnium 259  
 NT1 dubnium 260  
 NT1 dubnium 261  
 NT1 dubnium 262  
 NT1 dubnium 263  
 NT1 dysprosium 140  
 NT1 dysprosium 141

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 NT1 dysprosium 169  
 NT1 einsteinium 243  
 NT1 einsteinium 244  
 NT1 erbium 146  
 NT1 erbium 147  
 NT1 erbium 148  
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 NT1 erbium 151  
 NT1 erbium 152  
 NT1 erbium 153  
 NT1 erbium 167  
 NT1 europium 135  
 NT1 europium 136  
 NT1 europium 138  
 NT1 europium 139  
 NT1 europium 140  
 NT1 europium 141  
 NT1 europium 142  
 NT1 europium 144  
 NT1 europium 160  
 NT1 europium 161  
 NT1 europium 162  
 NT1 fermium 245  
 NT1 fermium 246  
 NT1 fermium 247  
 NT1 fermium 248  
 NT1 fermium 250  
 NT1 fermium 259  
 NT1 fluorine 20  
 NT1 fluorine 21  
 NT1 fluorine 22  
 NT1 fluorine 23  
 NT1 francium 204  
 NT1 francium 205  
 NT1 francium 206  
 NT1 francium 207  
 NT1 francium 208  
 NT1 francium 209  
 NT1 francium 213  
 NT1 francium 220  
 NT1 francium 226  
 NT1 francium 228  
 NT1 francium 229  
 NT1 francium 230  
 NT1 francium 231  
 NT1 francium 232  
 NT1 gadolinium 135  
 NT1 gadolinium 140  
 NT1 gadolinium 141  
 NT1 gadolinium 143  
 NT1 gadolinium 164  
 NT1 gadolinium 165  
 NT1 gallium 63  
 NT1 gallium 74  
 NT1 gallium 76  
 NT1 gallium 77  
 NT1 gallium 78  
 NT1 gallium 79  
 NT1 gallium 80  
 NT1 gallium 81  
 NT1 germanium 65  
 NT1 germanium 75  
 NT1 germanium 77  
 NT1 germanium 79  
 NT1 germanium 80  
 NT1 germanium 81  
 NT1 germanium 82  
 NT1 germanium 83  
 NT1 germanium 84  
 NT1 gold 176  
 NT1 gold 177  
 NT1 gold 178

NT1 gold 179  
 NT1 gold 180  
 NT1 gold 181  
 NT1 gold 182  
 NT1 gold 183  
 NT1 gold 184  
 NT1 gold 193  
 NT1 gold 195  
 NT1 gold 196  
 NT1 gold 197  
 NT1 gold 202  
 NT1 gold 203  
 NT1 gold 204  
 NT1 gold 205  
 NT1 hafnium 154  
 NT1 hafnium 158  
 NT1 hafnium 159  
 NT1 hafnium 160  
 NT1 hafnium 161  
 NT1 hafnium 162  
 NT1 hafnium 163  
 NT1 hafnium 177  
 NT1 hafnium 178  
 NT1 hafnium 179  
 NT1 hassium 270  
 NT1 hassium 271  
 NT1 holmium 145  
 NT1 holmium 146  
 NT1 holmium 148  
 NT1 holmium 149  
 NT1 holmium 150  
 NT1 holmium 151  
 NT1 holmium 152  
 NT1 holmium 159  
 NT1 holmium 161  
 NT1 holmium 163  
 NT1 holmium 170  
 NT1 holmium 171  
 NT1 holmium 172  
 NT1 indium 101  
 NT1 indium 102  
 NT1 indium 104  
 NT1 indium 105  
 NT1 indium 107  
 NT1 indium 116  
 NT1 indium 118  
 NT1 indium 120  
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 NT1 indium 126  
 NT1 indium 127  
 NT1 indium 129  
 NT1 iodine 111  
 NT1 iodine 112  
 NT1 iodine 113  
 NT1 iodine 114  
 NT1 iodine 116  
 NT1 iodine 133  
 NT1 iodine 136  
 NT1 iodine 137  
 NT1 iodine 138  
 NT1 iodine 139  
 NT1 iridium 170  
 NT1 iridium 171  
 NT1 iridium 172  
 NT1 iridium 173  
 NT1 iridium 174  
 NT1 iridium 175  
 NT1 iridium 176  
 NT1 iridium 177  
 NT1 iridium 178  
 NT1 iridium 191  
 NT1 iridium 196  
 NT1 iridium 198  
 NT1 iron 52  
 NT1 iron 63





NTI rutherfordium 255  
 NTI rutherfordium 257  
 NTI rutherfordium 259  
 NTI rutherfordium 262  
 NTI samarium 131  
 NTI samarium 133  
 NTI samarium 134  
 NTI samarium 135  
 NTI samarium 136  
 NTI samarium 137  
 NTI samarium 139  
 NTI samarium 159  
 NTI samarium 160  
 NTI scandium 42  
 NTI scandium 46  
 NTI scandium 51  
 NTI scandium 52  
 NTI seaborgium 265  
 NTI seaborgium 266  
 NTI selenium 69  
 NTI selenium 77  
 NTI selenium 85  
 NTI selenium 86  
 NTI selenium 87  
 NTI selenium 88  
 NTI silicon 26  
 NTI silicon 27  
 NTI silicon 33  
 NTI silicon 34  
 NTI silver 101  
 NTI silver 103  
 NTI silver 107  
 NTI silver 109  
 NTI silver 110  
 NTI silver 114  
 NTI silver 115  
 NTI silver 116  
 NTI silver 117  
 NTI silver 118  
 NTI silver 119  
 NTI silver 120  
 NTI silver 122  
 NTI silver 96  
 NTI silver 97  
 NTI silver 98  
 NTI silver 99  
 NTI sodium 20  
 NTI sodium 21  
 NTI sodium 25  
 NTI sodium 26  
 NTI strontium 76  
 NTI strontium 77  
 NTI strontium 83  
 NTI strontium 95  
 NTI strontium 96  
 NTI sulfur 30  
 NTI sulfur 31  
 NTI sulfur 39  
 NTI sulfur 40  
 NTI tantalum 160  
 NTI tantalum 161  
 NTI tantalum 162  
 NTI tantalum 163  
 NTI tantalum 164  
 NTI tantalum 165  
 NTI tantalum 166  
 NTI technetium 100  
 NTI technetium 102  
 NTI technetium 103  
 NTI technetium 106  
 NTI technetium 107  
 NTI technetium 108  
 NTI technetium 109  
 NTI technetium 88  
 NTI technetium 90  
 NTI tellurium 108  
 NTI tellurium 109  
 NTI tellurium 110  
 NTI tellurium 111

NTI tellurium 135  
 NTI tellurium 136  
 NTI tellurium 137  
 NTI tellurium 138  
 NTI terbium 139  
 NTI terbium 140  
 NTI terbium 141  
 NTI terbium 143  
 NTI terbium 144  
 NTI terbium 145  
 NTI terbium 146  
 NTI terbium 151  
 NTI terbium 158  
 NTI terbium 166  
 NTI thallium 182  
 NTI thallium 184  
 NTI thallium 185  
 NTI thallium 186  
 NTI thallium 187  
 NTI thallium 195  
 NTI thallium 197  
 NTI thallium 207  
 NTI thorium 215  
 NTI thorium 223  
 NTI thorium 224  
 NTI thulium 151  
 NTI thulium 152  
 NTI thulium 153  
 NTI thulium 154  
 NTI thulium 155  
 NTI thulium 156  
 NTI thulium 162  
 NTI tin 102  
 NTI tin 103  
 NTI tin 105  
 NTI tin 128  
 NTI tin 131  
 NTI tin 132  
 NTI tin 133  
 NTI tin 134  
 NTI titanium 53  
 NTI tungsten 160  
 NTI tungsten 162  
 NTI tungsten 163  
 NTI tungsten 164  
 NTI tungsten 165  
 NTI tungsten 166  
 NTI tungsten 167  
 NTI tungsten 168  
 NTI tungsten 169  
 NTI tungsten 183  
 NTI vanadium 43  
 NTI vanadium 54  
 NTI vanadium 55  
 NTI xenon 112  
 NTI xenon 113  
 NTI xenon 114  
 NTI xenon 115  
 NTI xenon 116  
 NTI xenon 125  
 NTI xenon 139  
 NTI xenon 140  
 NTI xenon 141  
 NTI xenon 142  
 NTI xenon 144  
 NTI ytterbium 153  
 NTI ytterbium 155  
 NTI ytterbium 156  
 NTI ytterbium 157  
 NTI ytterbium 169  
 NTI ytterbium 176  
 NTI ytterbium 177  
 NTI yttrium 79  
 NTI yttrium 80  
 NTI yttrium 82  
 NTI yttrium 84  
 NTI yttrium 89  
 NTI yttrium 96  
 NTI yttrium 97

NTI yttrium 98  
 NTI yttrium 99  
 NTI zinc 73  
 NTI zinc 75  
 NTI zinc 76  
 NTI zinc 77  
 NTI zinc 78  
 NTI zinc 79  
 NTI zirconium 100  
 NTI zirconium 101  
 NTI zirconium 102  
 NTI zirconium 103  
 NTI zirconium 104  
 NTI zirconium 83  
 NTI zirconium 85  
 NTI zirconium 87  
 NTI zirconium 98  
 NTI zirconium 99  
 RT half-life  
 RT lifetime

**SECURITY PROTECTION**

INIS: 1977-03-14; ETDE: 1977-06-03

*Measures, regulations or orders established to protect the secrecy of certain places, installations or offices.*

- SF invention secrecy act
- RT atomic energy laws
- RT classified information
- RT cryptography
- RT identification systems
- RT physical protection
- RT physical protection devices
- RT sabotage
- RT security
- RT security violations

**SECRETIN**

- \*BT1 peptide hormones
- RT secretion
- RT small intestine

**SECRETION**

- NTI pheromone
- RT body fluids
- RT excretion
- RT gastric acid
- RT gastrin
- RT glands
- RT secretin

**sector cyclotron**

INIS: 2000-04-12; ETDE: 1987-10-22

USE isochronous cyclotrons

**SECTORAL ANALYSIS**

INIS: 1992-10-23; ETDE: 1984-05-08

*Economic or energy analysis by sectors of economy, energy consumption, energy production, or other sectors.*

- RT business
- RT commercial sector
- RT households
- RT residential sector
- RT service sector
- RT transportation sector

**SECULAR EQUATION**

- BT1 equations
- RT eigenvalues
- RT matrices

**SECURITY**

(Prior to May 1996 SURVEILLANCE was a valid ETDE descriptor. From July 1984 till April 1997 CRYPTOGRAPHY was a valid descriptor. From May 1987 till March 1997 TERRORISM was a valid descriptor.)

- UF security control
- SF document destruction
- SF surveillance



**SEIDB**

INIS: 2000-04-12; ETDE: 1981-07-18  
 UF solar energy information data bank  
 BT1 information systems

**SEISMIC ARRAYS**

INIS: 1992-09-01; ETDE: 1978-12-11  
 BT1 measuring instruments  
 RT seismic detection  
 RT seismic detectors  
 RT seismic sources  
 RT seismic surveys  
 RT seismographs

**SEISMIC DETECTION**

UF detection (seismic)  
 BT1 detection  
 NT1 in-country detection  
 RT nuclear explosion detection  
 RT rayleigh waves  
 RT seismic arrays  
 RT seismic detectors  
 RT seismic noise  
 RT seismic p waves  
 RT seismic s waves  
 RT seismic waves  
 RT seismographs  
 RT underground explosions  
 RT vela project

**SEISMIC DETECTORS**

INIS: 1992-09-01; ETDE: 1976-09-14  
 UF geophones  
 BT1 measuring instruments  
 RT ground motion  
 RT seismic arrays  
 RT seismic detection  
 RT seismic surveys  
 RT seismic waves  
 RT seismographs

**SEISMIC EFFECTS**

2000-04-07  
 RT blast effects  
 RT earthquakes  
 RT ground motion  
 RT landslides  
 RT nuclear explosions  
 RT seismic events  
 RT seismic isolation  
 RT seismic noise  
 RT seismic waves  
 RT shock absorbers  
 RT shock waves  
 RT soil-structure interactions  
 RT underground explosions

**SEISMIC EVENTS**

INIS: 1992-06-19; ETDE: 1976-12-16  
 NT1 earthquakes  
 NT2 microearthquakes  
 RT explosions  
 RT ground motion  
 RT nuclear explosions  
 RT rock bursts  
 RT seismic effects  
 RT seismic waves  
 RT tsunamis

**SEISMIC ISOLATION**

INIS: 1990-09-24; ETDE: 1990-10-09  
 RT earthquakes  
 RT safety engineering  
 RT seismic effects  
 RT shock absorbers  
 RT soil-structure interactions

**SEISMIC NOISE**

1976-10-29  
*A more or less continuous motion in the earth unrelated to an earthquake with a period of 1 to 9 seconds.*  
 UF microseism  
 BT1 noise  
 RT seismic detection  
 RT seismic effects  
 RT seismic waves

**SEISMIC P WAVES**

UF body waves p (seismic)  
 UF p waves (seismic)  
 BT1 seismic waves  
 RT earthquakes  
 RT seismic detection  
 RT underground explosions

**SEISMIC S WAVES**

INIS: 1980-05-14; ETDE: 1976-11-17  
 UF body waves s (seismic)  
 UF s waves (seismic)  
 UF shear waves (seismic)  
 BT1 seismic waves  
 RT earthquakes  
 RT seismic detection  
 RT underground explosions

**SEISMIC SOURCES**

INIS: 1999-03-08; ETDE: 1976-09-14  
*Devices for generating seismic pulses.*  
 RT seismic arrays  
 RT seismic surveys  
 RT seismic waves  
 RT sonic logging  
 RT sound waves

**SEISMIC SURFACE WAVES**

INIS: 1999-09-17; ETDE: 1978-07-05  
*Seismic waves that travel along the surface of the earth or parallel to the earth's surface.*  
 (From July 1978 till March 1997 LOVE WAVES was a valid ETDE descriptor.)  
 UF l waves  
 UF love waves  
 UF surface waves (seismic)  
 BT1 seismic waves  
 RT earthquakes  
 RT rayleigh waves

**SEISMIC SURVEYS**

1975-11-07  
*Methods of geophysical prospecting using the generation, reflection, refraction, detection, and analysis of elastic waves in the earth.*  
 \*BT1 geophysical surveys  
 RT acoustic measurements  
 RT geologic structures  
 RT geothermal exploration  
 RT magnetic surveys  
 RT seismic arrays  
 RT seismic detectors  
 RT seismic sources

**SEISMIC WAVES**

*Disturbances or earth tremors produced by mechanical disturbances on the surface or underground.*  
 NT1 seismic p waves  
 NT1 seismic s waves  
 NT1 seismic surface waves  
 RT earthquakes  
 RT ground motion  
 RT rayleigh waves  
 RT seismic detection  
 RT seismic detectors  
 RT seismic effects  
 RT seismic events  
 RT seismic noise  
 RT seismic sources

RT seismographs  
 RT seismology  
 RT tsunamis  
 RT underground explosions

**SEISMICITY**

INIS: 1994-07-01; ETDE: 1978-07-05  
*Measure of frequency of earthquakes.*  
 (Until June 1994 this concept was indexed to EARTHQUAKES.)  
 RT earthquakes  
 RT risk assessment  
 RT subduction zones

**SEISMOGRAPHS**

BT1 measuring instruments  
 RT acoustic measurements  
 RT earthquakes  
 RT ground motion  
 RT seismic arrays  
 RT seismic detection  
 RT seismic detectors  
 RT seismic waves  
 RT underground explosions

**SEISMOLOGY**

*The study of earthquakes, by extension, the study of the structure of the interior of the earth via both natural and artificially generated seismic signals.*  
 (From September 1979 till February 1997 DISPLACEMENT RATES was a valid ETDE descriptor.)  
 SF displacement rates  
 RT earthquakes  
 RT geologic faults  
 RT geologic structures  
 RT ground motion  
 RT seismic waves  
 RT shock waves  
 RT underground explosions  
 RT vela project

**SELECTION RULES**

NT1 superselection rules  
 RT decay  
 RT energy-level transitions  
 RT forbidden transitions  
 RT interactions  
 RT quantum mechanics  
 RT spurions

**SELECTIVE CATALYTIC REDUCTION**

INIS: 1992-07-21; ETDE: 1990-02-28  
 \*BT1 denitrification  
 \*BT1 reduction  
 RT air pollution control  
 RT catalysis  
 RT flue gas  
 RT nitrogen oxides

**SELENATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*  
 BT1 oxygen compounds  
 BT1 selenium compounds  
 RT selenium oxides

**selengut approximation**

2000-04-12  
 (Prior to August 1996 SELENGUT-GOERTZEL EQUATION was a valid ETDE descriptor.)  
 USE neutron slowing-down theory











**SENSITIVITY ANALYSIS**

INIS: 1981-02-27; ETDE: 1979-07-18  
*Response of a mathematical model to variations of the input parameters.*  
 RT calculation methods  
 RT computer calculations  
 RT errors  
 RT mathematical models  
 RT parametric analysis  
 RT response functions

**SENSITIZERS**

BT1 reagents

**seoul triga-mk-2 reactor**

INIS: 1984-06-21; ETDE: 2002-06-13  
 USE triga-2-seoul reactor

**seoul triga-mk-3 reactor**

INIS: 1984-06-21; ETDE: 2002-06-13  
 USE triga-3-seoul reactor

**sepa**

INIS: 2000-04-12; ETDE: 1980-03-29  
 USE southeastern power administration

**SEPARATED ORBIT CYCLOTRONS**

1996-01-24  
 \*BT1 cyclotrons

**separation energy**

USE binding energy

**SEPARATION EQUIPMENT**

INIS: 1986-07-09; ETDE: 1981-05-18  
 SF oil-water separators  
 BT1 equipment  
 NT1 extraction apparatuses  
   NT2 extraction columns  
   NT2 mist extractors  
   NT2 mixer-settlers  
   NT2 podbielniak contactors  
 NT1 inertial separators  
   NT2 cyclone separators  
 NT1 isotope separators  
 NT1 vapor separators  
   NT2 steam separators  
 RT separation processes

**SEPARATION NOZZLE METHOD**

\*BT1 isotope separation  
 RT nozzles

**SEPARATION PROCESSES**

1997-06-17  
 (Prior to August 1996 SLUREX PROCESS was a valid ETDE descriptor.)  
 UF slurex process  
 NT1 carbon sequestration  
 NT1 centrifugation  
   NT2 gas centrifugation  
   NT2 ultracentrifugation  
 NT1 chemisorption  
 NT1 chromatography  
   NT2 extraction chromatography  
   NT2 gas chromatography  
   NT2 gel permeation chromatography  
   NT2 ion exchange chromatography  
   NT2 liquid column chromatography  
     NT3 high-performance liquid chromatography  
   NT2 radiochromatography  
   NT2 supercritical fluid chromatography  
   NT2 thermochromatography  
   NT2 thin-layer chromatography  
 NT1 cng process  
 NT1 decantation  
 NT1 demetallization  
 NT1 demineralization  
   NT2 desalination  
 NT1 dewaxing

NT1 dialysis  
   NT2 electro dialysis  
 NT1 distillation  
   NT2 destructive distillation  
   NT2 solar distillation  
   NT2 vacuum distillation  
 NT1 electrostatic separation  
 NT1 elutriation  
 NT1 extraction  
   NT2 deasphalting  
   NT2 reductive extraction  
   NT2 solvent extraction  
   NT3 phenosolvan process  
   NT3 supercritical gas extraction  
 NT1 filtration  
   NT2 ultrafiltration  
 NT1 flotation  
 NT1 foam separation  
 NT1 fractionation  
 NT1 freezing out  
 NT1 heavy media separation  
   NT2 otisca process  
 NT1 isotope separation  
   NT2 dual temperature process  
   NT2 electromagnetic isotope separation  
   NT2 gas centrifugation  
   NT2 gaseous diffusion process  
   NT2 laser isotope separation  
   NT2 separation nozzle method  
 NT1 leaching  
   NT2 microbial leaching  
 NT1 licado process  
 NT1 metal transfer process  
 NT1 multi-element separation  
 NT1 ore enrichment  
 NT1 phosam process  
 NT1 precipitation  
   NT2 coprecipitation  
   NT2 flocculation  
 NT1 precipitation scavenging  
 NT1 reprocessing  
   NT2 airox process  
   NT2 amex process  
   NT2 chloride volatility process  
   NT2 civex process  
   NT2 csrex process  
   NT2 dapex process  
   NT2 diamex process  
   NT2 eurex process  
   NT2 fluoride volatility process  
   NT2 iodox process  
   NT2 purex process  
   NT2 pyrochemical reprocessing  
   NT2 redox process  
   NT2 sesame process  
   NT2 talspeak process  
   NT2 thorex process  
   NT2 tramex process  
   NT2 truxex process  
   NT2 zirflex process  
 NT1 zone refining  
 RT adsorption  
 RT concentrators  
 RT crystallization  
 RT cyclone separators  
 RT dust collectors  
 RT electrophoresis  
 RT electrostatic precipitators  
 RT ion exchange  
 RT jigs  
 RT magnetic filters  
 RT magnetic separators  
 RT particle size classifiers  
 RT purification  
 RT refining  
 RT screens  
 RT scrubbing  
 RT separation equipment  
 RT sorting

RT sublimation  
 RT supported liquid membranes  
 RT tailings  
 RT thermal diffusion

**separators (inertial)**

INIS: 1976-10-07; ETDE: 2002-06-13  
 USE inertial separators

**separators (steam)**

USE steam separators

**separators (vapor)**

USE vapor separators

**SEPIOLITE**

INIS: 2000-04-12; ETDE: 1983-02-09  
*A chain-lattice clay mineral.*  
 \*BT1 clays  
 RT magnesium silicates

**SEPTICEMIA**

RT blood  
 RT infectious diseases

**SEPTUM MAGNETS**

1999-07-02  
 \*BT1 magnets  
 RT beam extraction  
 RT beam optics  
 RT electrostatic septa  
 RT magnet coils  
 RT magnetic analyzers

**sequence analysis**

INIS: 1984-04-04; ETDE: 2002-06-13  
*Analysis of nucleotide and protein chains by means of radioisotope labelling.*  
 USE structural chemical analysis

**SEQUENTIAL CIRCUITS**

BT1 electronic circuits  
 RT digital circuits

**SEQUENTIAL SCANNING**

INIS: 1983-06-30; ETDE: 1983-07-20  
 BT1 counting techniques  
 RT biomedical radiography  
 RT computerized tomography  
 RT dynamic function studies  
 RT image scanners

**sequestration (carbon oxides)**

2004-01-14  
 USE carbon sequestration

**sequestrene**

USE edta

**SEQUIM BAY**

Site of new HAPO marine research lab.  
 \*BT1 bays  
 \*BT1 pacific ocean  
 RT hapo  
 RT washington

**SEQUOYAH-1 REACTOR**

TVA, Soddy-Daisy, Tennessee, USA.  
 UF sequoyah nuclear power plant unit-1  
 \*BT1 pwr type reactors

**SEQUOYAH-2 REACTOR**

TVA, Soddy-Daisy, Tennessee, USA.  
 UF sequoyah nuclear power plant unit-2  
 \*BT1 pwr type reactors

**sequoyah nuclear power plant unit-1**

1999-09-17  
 USE sequoyah-1 reactor

**sequoyah nuclear power plant unit-2**

1999-09-17  
 USE sequoyah-2 reactor

**SEQUOYAH UF6 PRODUCTION PLANT**

BT1 industrial plants  
 \*BT1 us aec  
 \*BT1 us doe  
 \*BT1 us erda  
 RT oklahoma  
 RT uranium hexafluoride

**SER REACTOR**

*Sandia Laboratories, Albuquerque, New Mexico, USA. Shut down in 1970.*  
 UF snap-2 experimental reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 nak cooled reactors  
 \*BT1 potassium cooled reactors  
 \*BT1 process heat reactors  
 \*BT1 sodium cooled reactors

**serber-goldberger model**

USE goldberger model

**SERBER THEORY**

RT stripping

**SERBIA AND MONTENEGRO**

2004-03-08  
 (From 1992 till March 2004 YUGOSLAVIA was used for this concept.)  
 SF yugoslavia  
 BT1 developing countries  
 \*BT1 eastern europe  
 RT danube river

**seri**

INIS: 1992-05-04; ETDE: 1978-02-14  
 USE national renewable energy laboratory

**SERIES EXPANSION**

NT1 cluster expansion  
 NT1 neumann series  
 NT1 operator product expansion  
 NT1 power series  
 RT boson expansion  
 RT continued fractions  
 RT convergence  
 RT equations  
 RT exact solutions  
 RT functions  
 RT mathematical evolution  
 RT mathematics  
 RT pade approximation  
 RT spline functions  
 RT superconvergence relations

**SERINE**

UF hydroxy-alpha-alanine-beta  
 \*BT1 amino acids  
 \*BT1 hydroxy acids

**SERINE PROTEINASES**

INIS: 1986-12-03; ETDE: 1981-01-12  
 Code number 3.4.21.  
 UF properdin  
 \*BT1 peptide hydrolases  
 NT1 chymotrypsin  
 NT1 fibrinolysin  
 NT1 kallikrein  
 NT1 thrombin  
 NT1 trypsin

**SEROTONIN**

\*BT1 hydroxy compounds  
 \*BT1 neuroregulators  
 \*BT1 radioprotective substances  
 \*BT1 sympathomimetics  
 \*BT1 tryptamines  
 NT1 bufotenine

**SEROUS MEMBRANES**

BT1 membranes  
 NT1 mesentery

NT1 pericardium  
 NT1 peritoneum  
 NT1 pleura

**SERPENTINE**

2000-04-12  
*A group of common rock-forming minerals.*  
 \*BT1 silicate minerals  
 RT magnesium silicates

**SERPENTINITES**

INIS: 2000-04-12; ETDE: 1980-08-12  
 \*BT1 metamorphic rocks

**SERPUKHOV SYNCHROTRON**

\*BT1 synchrotrons  
 RT ihep  
 RT serpukhov tevatron

**SERPUKHOV TEVATRON**

INIS: 1985-11-16; ETDE: 1985-12-13  
*3-TeV accelerating-storage complex based on the Serpukhov synchrotron.*  
 BT1 storage rings  
 \*BT1 synchrotrons  
 RT serpukhov synchrotron

**SERRATIA**

\*BT1 bacteria

**serum (blood)**

USE blood serum

**serum (immune)**

USE immune serums

**servers (computers)**

2005-05-25  
 USE computers

**SERVICE LIFE**

INIS: 1992-02-26; ETDE: 1976-08-04  
 UF life (service)  
 UF useful life  
 BT1 lifetime  
 NT1 lifetime extension  
 RT life-cycle cost

**SERVICE SECTOR**

INIS: 1992-10-23; ETDE: 1980-08-12  
 RT commercial sector  
 RT residential sector  
 RT sectoral analysis

**service stations**

INIS: 2000-04-12; ETDE: 1979-05-09  
 USE gasoline service stations

**service water systems**

1976-04-03  
 USE auxiliary water systems

**SERVOMECHANISMS**

\*BT1 control equipment  
 RT actuators  
 RT feedback  
 RT remote control

**SESAME OIL**

UF beni oil  
 UF benne oil  
 UF gigily oil  
 UF gingelly oil  
 UF gingily oil  
 UF teal oil  
 UF teel oil  
 UF til oil  
 \*BT1 vegetable oils  
 RT sesamum indicum

**SESAME PROCESS**

INIS: 1998-06-30; ETDE: 1998-10-20  
 \*BT1 reprocessing

RT americium  
 RT oxidation

**SESAMUM INDICUM**

INIS: 2001-02-28; ETDE: 2002-01-18  
 \*BT1 magnoliopsida  
 RT sesame oil

**SET THEORY**

INIS: 1989-07-19; ETDE: 1979-05-03  
*Study of structure and size of sets from viewpoint of axioms imposed.*  
 BT1 mathematics  
 RT fuzzy logic  
 RT information theory  
 RT periodicity

**settlements (disputes)**

INIS: 1976-12-08; ETDE: 2002-06-13  
 USE dispute settlements

**SETTLING PONDS**

INIS: 1990-04-19; ETDE: 1985-10-10  
 UF sediment basins  
 \*BT1 ponds  
 RT drainage  
 RT runoff  
 RT sedimentation  
 RT waste processing

**SEVERANCE TAX**

INIS: 2000-04-12; ETDE: 1981-03-17  
*Tax on the taking and use of natural resources imposed at the time the mineral or other product is extracted.*  
 UF production tax  
 BT1 taxes  
 RT resource depletion

**SEVERN RIVER**

INIS: 1991-12-11; ETDE: 1976-01-07  
 \*BT1 rivers  
 RT united kingdom

**SEWAGE**

INIS: 1994-08-26; ETDE: 1976-01-27  
*(Until August 1994 this concept was indexed to LIQUID WASTES.)*  
 BT1 wastes  
 NT1 sewage sludge  
 RT activated sludge process  
 RT compost  
 RT organic wastes

**sewage disposal**

ETDE: 2002-06-13  
 USE liquid wastes  
 USE waste disposal

**SEWAGE SLUDGE**

INIS: 1976-07-16; ETDE: 1976-01-23  
*Precipitated solid matter from sewage treatment processes.*  
 UF municipal sludge  
 UF sludges (sewage)  
 \*BT1 biological wastes  
 \*BT1 sewage  
 BT1 sludges  
 RT anaerobic digestion  
 RT ground disposal  
 RT slurries  
 RT soil conservation

**sewage treatment**

ETDE: 2002-06-13  
 USE liquid wastes  
 USE waste processing

**SEX**

RT female genitals  
 RT females  
 RT gonads

RT heterochromosomes  
 RT male genitals  
 RT males  
 RT mating  
 RT pheromone  
 RT reproduction  
 RT sex chromatin  
 RT sex dependence  
 RT sex ratio

**SEX CHROMATIN**

BT1 chromatin  
 RT sex

**sex chromosomes**

USE heterochromosomes

**SEX DEPENDENCE**

INIS: 1976-10-07; ETDE: 1976-11-01

RT females  
 RT males  
 RT sex

**SEX RATIO**

BT1 dimensionless numbers  
 RT progeny  
 RT sex

**seychelles (republic of)**

2003-05-23

USE republic of seychelles

**SEYFERT GALAXIES**

BT1 galaxies  
 RT bl lacertae objects  
 RT quasars

**sf nateko process**

INIS: 2000-04-12; ETDE: 1976-01-23

*Desulfurization process for stack gases by countercurrent contact with lime slurry.*

(Prior to January 1995, this was a valid ETDE descriptor.)

USE lime-limestone wet scrubbing processes

**sferics**

USE atmospheric

**SGHWR REACTOR**

UF steam generating heavy water reactor

\*BT1 enriched uranium reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 pressure tube reactors  
 \*BT1 thermal reactors  
 \*BT1 water cooled reactors

**SGR TYPE REACTORS**

UF sodium cooled graphite moderated reactors

\*BT1 graphite moderated reactors  
 \*BT1 sodium cooled reactors  
 NT1 sre reactor  
 RT power reactors

**SH-PROTEINASES**

INIS: 1986-12-03; ETDE: 1981-01-12

Code number 3.4.22.

\*BT1 peptide hydrolases  
 NT1 cathepsins  
 NT1 papain  
 NT1 streptococcal proteinase

**SHADING**

INIS: 2000-04-12; ETDE: 1975-08-19

RT curtains  
 RT shutters  
 RT solar flux  
 RT sun shades

**SHADOW EFFECT**

RT cross sections  
 RT nuclear reactions

RT scattering

**SHAFT EXCAVATIONS**

INIS: 1981-03-27; ETDE: 1977-03-08

*Vertical or inclined openings of uniform and limited cross section, as made for mining ore.*

SF shafts

NT1 mine shafts  
 NT2 abandoned shafts

RT excavation  
 RT konrad ore mine  
 RT mines  
 RT mining  
 RT radioactive waste disposal  
 RT shaft guides  
 RT tunneling  
 RT tunnels  
 RT underground disposal

**SHAFT GUIDES**

INIS: 2000-04-12; ETDE: 1980-08-12

UF guides (shaft)  
 RT shaft excavations

**shafts**

2000-04-12

*Not for mines or underground excavation.*

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE mechanical shafts  
 SEE mine shafts  
 SEE shaft excavations

**shafts (mechanical)**

INIS: 1976-09-06; ETDE: 2002-06-13

USE mechanical shafts

**shafts (mine)**

INIS: 1991-12-18; ETDE: 2002-06-13

USE mine shafts

**SHALE GAS**

2000-04-12

\*BT1 gases  
 RT oil shales

**shale mining**

INIS: 2000-04-12; ETDE: 1983-02-09

USE oil shale mining

**SHALE OIL**

\*BT1 petroleum  
 NT1 shale oil fractions  
 RT fischer assay  
 RT hydrotretorting assay  
 RT ichthammol  
 RT kerogen  
 RT oil shale industry  
 RT oil shales  
 RT pyrolytic oils  
 RT shale tar oils  
 RT synthetic petroleum

**SHALE OIL FRACTIONS**

INIS: 2000-04-12; ETDE: 1976-03-11

UF green oil  
 \*BT1 shale oil  
 RT oil shales

**SHALE TAR**

2000-04-12

\*BT1 tar  
 RT bituminous materials  
 RT shale tar acids  
 RT shale tar bases  
 RT shale tar oils

**SHALE TAR ACIDS**

INIS: 2000-04-12; ETDE: 1976-08-24

\*BT1 organic acids  
 RT shale tar

**SHALE TAR BASES**

INIS: 2000-04-12; ETDE: 1976-07-07

BT1 bases  
 BT1 organic compounds  
 RT shale tar

**SHALE TAR OILS**

2000-04-12

\*BT1 oils  
 RT shale oil  
 RT shale tar

**SHALE TAR WATER**

2000-04-12

\*BT1 waste water

**SHALES**

\*BT1 sedimentary rocks  
 NT1 argillite  
 NT1 oil shales  
 NT2 black shales  
 RT carbonate minerals  
 RT clays  
 RT feldspars  
 RT iron oxides  
 RT oxide minerals  
 RT quartz  
 RT silt  
 RT siltstones  
 RT spent shales

**shallow land burial**

INIS: 2000-04-12; ETDE: 1986-04-29

USE ground disposal

**shandong miniature neutron source reactor**

2004-03-15

USE mnsr-sd reactor

**shanghai inr cyclotron**

INIS: 1983-06-01; ETDE: 1983-07-07

USE inr cyclotron

**shanghai miniature neutron source reactor**

2004-03-15

USE mnsr-sh reactor

**SHAPE**

1996-04-30

NT1 parabolas  
 NT1 troposkien shape  
 RT cones  
 RT configuration  
 RT cylinders  
 RT dimensions  
 RT mass distribution  
 RT morphogenesis  
 RT morphology  
 RT plates  
 RT prisms  
 RT rings  
 RT rods  
 RT shape memory effect  
 RT slabs  
 RT spheres  
 RT spheroids  
 RT tubes

**SHAPE MEMORY EFFECT**

1986-08-19

*A shape recovery effect in metal specimens. It is associated with the martensite parent transformation.*

UF marmen effect  
 RT elasticity  
 RT nitinol heat engines  
 RT phase transformations  
 RT shape

**shaped charges**

INIS: 1984-04-04; ETDE: 1979-08-07  
(Prior to August 1979 CHEMICAL EXPLOSIVES and SHAPE were used. From then till March 1997 this was a valid ETDE descriptor.)  
USE chemical explosives

**sharja**

INIS: 1992-05-07; ETDE: 1976-08-05  
USE united arab emirates

**sharpite**

2000-04-12  
(Prior to January 1995, this was a valid ETDE descriptor.)  
USE carbonate minerals  
USE uranium minerals

**shattering**

1975-11-27  
USE fragmentation

**SHAWNEE STEAM PLANT**

INIS: 2000-04-12; ETDE: 1981-11-10  
\*BT1 fossil-fuel power plants  
RT kentucky  
RT tennessee valley authority

**SHCA REACTOR**

UF semi-homogeneous critical assembly  
UF semihomogeneous critical assembly  
\*BT1 enriched uranium reactors  
\*BT1 graphite moderated reactors  
\*BT1 solid homogeneous reactors  
\*BT1 thermal reactors  
\*BT1 zero power reactors

**SHEAR**

RT fluid flow  
RT magnetic fields  
RT reversed shear  
RT richardson number  
RT rotational transform  
RT stresses  
RT tensile properties

**SHEAR PROPERTIES**

UF shear strength  
UF strength (shear)  
BT1 mechanical properties

**shear strength**

USE shear properties

**shear waves (seismic)**

INIS: 1980-05-14; ETDE: 1976-11-17  
USE seismic s waves

**SHEARER LOADERS**

INIS: 2000-04-12; ETDE: 1980-05-23  
\*BT1 cutter loaders  
RT coal mining

**shearon harris-1 reactor**

USE harris-1 reactor

**shearon harris-2 reactor**

USE harris-2 reactor

**shearon harris-3 reactor**

USE harris-3 reactor

**shearon harris-4 reactor**

USE harris-4 reactor

**sheathing**

USE canning

**sheaths (fuel)**

USE fuel cans

**SHEEP**

UF lambs  
\*BT1 domestic animals  
\*BT1 ruminants  
RT dictyocaulus  
RT meat

**SHEETS**

1996-04-18  
Thinner than plates but thicker than foils.  
RT cast method  
RT dendritic web growth method  
RT foils  
RT inverted stepanov method  
RT plates  
RT ribbon-to-ribbon method  
RT ribbon-to-sheet method

**SHEILA HELIAC**

INIS: 1987-06-29; ETDE: 1987-07-09  
\*BT1 heliac stellarators  
RT h-1 heliac

**shell claus off-gas treating process**

2000-04-12  
USE scot process

**shell flue gas desulfurization process**

INIS: 2000-04-12; ETDE: 1977-12-22  
SEE shell-uop copper oxide process

**SHELL GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1976-01-23  
Partial oxidation of hydrocarbons to produce carbon monoxide and hydrogen and methanation to sng.  
BT1 sng processes  
RT hydrocarbons  
RT partial oxidation processes  
RT petroleum

**SHELL-KOPPERS GASIFICATION PROCESS**

INIS: 2000-04-12; ETDE: 1980-04-14  
Entrained, pressurized system using coal, steam, and oxygen to produce intermediate btu gas.  
\*BT1 coal gasification

**SHELL MODELS**

1996-07-08  
Nuclear shell models only; for electron shell models use ELECTRONIC STRUCTURE.  
UF continuum shell model  
UF models (shell)  
SF wilkinson theory  
\*BT1 nuclear models  
NT1 governor model  
NT1 interacting boson model  
NT1 multi-center shell model  
RT aligned coupling scheme  
RT broken-pair approximation  
RT elliot model  
RT talmi integrals  
RT weak-coupling model

**SHELL PELLET HEAT EXCHANGER RETORTING**

INIS: 2000-04-12; ETDE: 1981-01-27  
Fluidization bed process in which shale flows upward countercurrent to larger heat-carrier pellets.  
UF spher  
RT oil shales  
RT retorting

**SHELL-UOP COPPER OXIDE****PROCESS**

INIS: 2000-04-12; ETDE: 1977-04-12  
Process to remove sulfur dioxide and nitrogen oxides simultaneously from flue gas using dry copper oxide on alumina sorbent.  
SF shell flue gas desulfurization process  
\*BT1 desulfurization  
RT denitrification  
RT waste processing

**SHELLS**

Structural forms; for electron shells in atoms use ELECTRONIC STRUCTURE.  
RT coverings  
RT domed structures  
RT liners  
RT mechanical structures

**shells (containment)**

USE containment shells

**SHELTERS**

NT1 animal shelters  
NT1 fallout shelters  
RT buildings  
RT civil defense  
RT local fallout  
RT nuclear explosions  
RT nuclear weapons  
RT radiation protection  
RT shielding  
RT subsurface structures

**shenzen miniature neutron source reactor**

2004-03-15  
USE mnsr-sz reactor

**sherardizing**

USE diffusion coating

**SHERMAN TABLES**

RT anisotropy  
RT spin

**sherwood project**

2000-04-12  
(Prior to March 1997 this was a valid ETDE descriptor.)  
SEE thermonuclear reactions

**shf radiation**

USE ghz range 01-100  
USE radiowave radiation

**SHIELD SUPPORTS**

INIS: 2000-04-12; ETDE: 1985-04-09  
\*BT1 powered supports  
RT mining

**shield test reactor**

USE stir reactor

**SHIELDED METAL-ARC WELDING**

\*BT1 arc welding

**shielded organs**

USE partial body irradiation

**SHIELDING**

NT1 biological shielding  
NT1 magnetic shielding  
RT absorption  
RT alara  
RT buildup  
RT collimators  
RT containers  
RT distance  
RT external irradiation  
RT gloveboxes  
RT gloves

RT half-thickness  
 RT heterogeneous effects  
 RT hot cells  
 RT manipulators  
 RT point kernels  
 RT radiation protection  
 RT scattering  
 RT self-shielding  
 RT shelters  
 RT shielding materials  
 RT shields  
 RT shutters  
 RT stray radiation  
 RT thermal insulation  
 RT thickness

**SHIELDING MATERIALS**

UF materials (shielding)  
 BT1 materials  
 RT building materials  
 RT concretes  
 RT hydrophylic polymers  
 RT lead  
 RT paraffin  
 RT radiation protection  
 RT reactor components  
 RT reactor materials  
 RT shielding  
 RT shields

**SHIELDS**

NT1 biological shields  
 NT1 thermal shields  
 RT radiation protection  
 RT reactor components  
 RT shielding  
 RT shielding materials

**SHIFT PROCESSES**

INIS: 2000-05-02; ETDE: 1975-10-28  
 Processes using the addition of steam to gasification products to increase the hydrogen/carbon monoxide ratio.  
 RT coal gasification  
 RT methanation

**shift work**

INIS: 2000-04-12; ETDE: 1987-04-08  
 USE alternative work schedules

**SHIGELLA**

\*BT1 bacteria

**SHIKA-1 REACTOR**

INIS: 1989-09-14; ETDE: 1989-10-16  
 Hokuriku Electric Power Co., Shika, Ishikawa, Japan.  
 UF noto-1 reactor  
 \*BT1 bwr type reactors

**SHIKIMIC ACID**

\*BT1 hydroxy acids

**SHIM RODS**

UF coarse control rods  
 \*BT1 control elements  
 RT neutron absorbers

**SHIMANE-1 REACTOR**

Chugoku Electric Power Co., Kashima, Shimane, Japan.  
 UF chugoku-1 reactor  
 UF chugoku electric power company reactor  
 UF kashima-1 reactor  
 \*BT1 bwr type reactors

**SHIMANE-2 REACTOR**

INIS: 1985-11-16; ETDE: 1985-08-08  
 Chugoku Electric Power Co., Kashima, Shimane, Japan.  
 UF chugoku-2 reactor

UF kashima-2 reactor  
 \*BT1 bwr type reactors

**SHIP PROPULSION REACTORS**

UF naval reactors  
 UF s8g prototype reactor  
 SF enrico fermi reactor  
 \*BT1 propulsion reactors  
 NT1 efdr-50 reactor  
 NT1 lenin reactor  
 NT1 leonid brezhnev reactor  
 NT1 mutsu reactor  
 NT1 otto hahn reactor  
 NT1 savannah reactor  
 NT1 sibir reactor  
 RT nuclear ships

**ship reactor mutsu**

2000-04-12  
 USE mutsu reactor

**shipment**

USE transport

**SHIPPER-RECEIVER DIFFERENCES**

INIS: 1976-09-06; ETDE: 1976-11-01  
 RT material balance  
 RT material unaccounted for

**shippingport pressurized water reactor**

1993-11-09  
 USE shippingport reactor

**SHIPPINGPORT REACTOR**

US AEC/US DOE, Shippingport, Pennsylvania, USA. Shut down as PWR in 1974. Resumed operation in 1977 as LWBR. Retired in 1982.  
 UF shippingport pressurized water reactor  
 \*BT1 pwr type reactors

**SHIPS**

UF drill ships  
 UF puget sound naval shipyard  
 NT1 nuclear ships  
 NT2 ns enrico fermi  
 NT2 ns lenin  
 NT2 ns leonid brezhnev  
 NT2 ns sibir  
 NT2 nuclear merchant ships  
 NT3 ns mutsu  
 NT3 ns otto hahn  
 NT3 ns savannah  
 NT1 submarines  
 NT1 tanker ships  
 RT barges  
 RT maritime transport  
 RT motorboats  
 RT navigation  
 RT navigational instruments  
 RT positioning  
 RT sails  
 RT thrusters

**shirley basin uranium mill**

1996-07-23  
 (Until July 1996 this was a valid descriptor.)  
 USE feed materials plants

**SHIVA FACILITY**

INIS: 1978-04-21; ETDE: 1978-02-14  
 Large Nd laser facility at LLL to be used for laser fusion.  
 RT laser fusion reactors  
 RT lawrence livermore laboratory  
 RT lawrence livermore national laboratory  
 RT neodymium lasers  
 RT nova facility

RT novette facility

**shoal event**

1996-07-23  
 (Until July 1996 this was a valid descriptor.)  
 USE vela project

**shock (biological)**

USE biological shock

**shock (electric)**

INIS: 2000-04-12; ETDE: 1979-07-24  
 USE electric shock

**shock (impact)**

USE impact shock

**shock (medical)**

USE biological shock

**shock (thermal)**

USE thermal shock

**SHOCK ABSORBERS**

RT damping  
 RT energy losses  
 RT impact shock  
 RT restraints  
 RT seismic effects  
 RT seismic isolation  
 RT shock waves

**SHOCK HEATING**

\*BT1 plasma heating

**SHOCK TUBES**

RT shock waves

**shock wave hardening**

USE strain hardening

**shock-wave hardening**

INIS: 1984-04-04; ETDE: 2002-06-13  
 USE strain hardening

**SHOCK WAVES**

UF riemann waves  
 UF waves (shock)  
 NT1 detonation waves  
 RT blast effects  
 RT combustion waves  
 RT earthquakes  
 RT explosions  
 RT ground motion  
 RT hydromagnetic waves  
 RT impact shock  
 RT implosions  
 RT lax theorem  
 RT mach number  
 RT nuclear explosions  
 RT rankine-hugoniot equations  
 RT seismic effects  
 RT seismology  
 RT shock absorbers  
 RT shock tubes  
 RT soil-structure interactions  
 RT solitons  
 RT supersonic flow  
 RT transonic flow  
 RT water hammer

**shoes**

USE clothing

**SHOPPING CENTERS**

INIS: 1993-03-23; ETDE: 1979-05-02  
 \*BT1 commercial buildings

**SHOREHAM REACTOR**

Long Island Lighting Co., Shoreham, New York, USA. Shut down in 1989; decommissioned in 1995.  
 \*BT1 bwr type reactors

**SHORES**

*For both lake- and sea-land boundaries.*

- UF coast
- UF seacoast
- BT1 coastal regions
- RT coastal waters
- RT lakes
- RT offshore nuclear power plants
- RT offshore sites
- RT river deltas
- RT seas

**short circuits**

INIS: 1983-10-14; ETDE: 1976-12-16  
USE electrical faults

**short-lens spectrometers**

USE magnetic lens spectrometers

**short-range interactions**

USE interaction range

**SHORT ROTATION CULTIVATION**

INIS: 1992-02-04; ETDE: 1979-10-23  
*Agro-forestry system in which seedlings are planted like a row crop, and rapid juvenile growth is promoted by cultural practices.*

- BT1 cultivation techniques
- RT agriculture
- RT biomass plantations
- RT forestry
- RT trees

**SHORT WAVE RADIATION**

- UF hf radiation
- UF high frequency radiation
- UF high-frequency radiation
- \*BT1 radiowave radiation

**SHORTAGES**

INIS: 1993-06-07; ETDE: 1980-08-25  
UF shortfalls  
NT1 energy shortages  
RT allocations  
RT availability  
RT domestic supplies  
RT fuel supplies  
RT inventories  
RT supply disruption

**shortfalls**

INIS: 2000-04-12; ETDE: 1980-08-25  
USE shortages

**SHORTITE**

2000-04-12  
*A double carbonate of sodium and calcium.*  
\*BT1 carbonate minerals  
RT calcium carbonates  
RT sodium carbonates

**shorts (electrical)**

INIS: 1983-10-14; ETDE: 2002-06-13  
USE electrical faults

**SHORTWALL MINING**

INIS: 2000-04-12; ETDE: 1977-05-07  
\*BT1 underground mining  
RT coal mining

**SHOT PEENING**

- UF peening
- \*BT1 cold working
- BT1 surface treatments
- RT descaling
- RT surface cleaning
- RT surface hardening

**shotfiring**

INIS: 2000-04-12; ETDE: 1978-04-27  
USE explosive fracturing

**SHOWER COUNTERS**

*Detects high energy gamma radiation or high energy particles on basis of cascade showers in layered absorbers.*

- UF calorimeter detectors
- UF calorimeters (particle)
- UF ionization calorimeters
- UF total-absorption spectrometers
- \*BT1 radiation detectors
- RT cosmic ray detection
- RT fermilab collider detector
- RT gev range
- RT stanford linear collider detector

**SHOWERS**

*For rain showers use RAIN; for safety showers use SAFETY SHOWERS.*

- NT1 cascade showers
- NT1 cosmic showers
- NT2 extensive air showers

**showers (safety)**

INIS: 2000-04-12; ETDE: 1980-11-24  
USE safety showers

**SHREDDERS**

INIS: 1987-05-26; ETDE: 1983-04-28  
\*BT1 materials handling equipment  
RT cutting tools

**SHREWS**

\*BT1 mammals

**SHRIMP**

- \*BT1 decapods
- RT prawns
- RT seafood

**SHRINKAGE**

- RT augmentation
- RT contraction
- RT dilatometry

**SHROUDS**

*Cover enveloping the active length of a fuel assembly, to stabilize the coolant flow through the assembly.*

- \*BT1 reactor cooling systems
- RT fuel assemblies
- RT fuel channels
- RT jackets

**SHRUBS**

- UF chrysothamnus nauseosus
- UF rabbit brush
- BT1 plants
- NT1 jojoba
- RT conifers
- RT preferred species

**SHUBNIKOV-DE HAAS EFFECT**

- RT hall effect
- RT magnetic fields
- RT magnetoresistance

**SHUNT REACTORS**

INIS: 2000-07-11; ETDE: 1979-08-07  
*Devices connected in shunt to an electric power system for drawing inductive current, e.g., to compensate for capacitive currents from transmission lines, cables, or shunt capacitors.*

- \*BT1 electrical equipment
- RT power transmission
- RT power transmission lines

**shunts**

INIS: 1975-10-23; ETDE: 2002-06-16  
USE bypasses

**SHUTDOWN**

INIS: 1983-03-14; ETDE: 1991-06-26  
(Prior to June 1991 SHUTDOWNS was a valid ETDE descriptor.)

- NT1 reactor shutdown
- NT2 scram
- RT cancellation
- RT decommissioning
- RT outages

**shutdown (reactor)**

2000-04-12  
USE reactor shutdown

**shutin pressure**

INIS: 1986-07-09; ETDE: 1978-09-11  
USE reservoir pressure

**SHUTTERS**

INIS: 1982-10-29; ETDE: 1979-02-27  
RT buildings  
RT collimators  
RT coverings  
RT curtains  
RT neutron choppers  
RT openings  
RT optical systems  
RT shading  
RT shielding  
RT sun shades  
RT thermal insulation  
RT windows

**shuttle cars**

INIS: 2000-04-12; ETDE: 1979-09-27  
USE trackless vehicles

**shuttles**

USE rabbit tubes

**SI MICROSTRIP DETECTORS**

INIS: 2004-06-11; ETDE: 2004-07-08  
\*BT1 si semiconductor detectors

**SI SEMICONDUCTOR DETECTORS**

UF silicon semiconductor detectors  
\*BT1 semiconductor detectors  
NT1 li-drifted si detectors  
NT1 si microstrip detectors

**SI UNITS**

INIS: 1997-06-05; ETDE: 1976-07-07  
UF gray  
UF sievert  
UF sievert unit  
BT1 units  
RT metric system

**si(li) detectors**

INIS: 1984-06-21; ETDE: 2002-06-13  
USE li-drifted si detectors

**SIALIC ACID**

- RT amines
- RT gangliosides
- RT organic acids

**sialon**

INIS: 1984-04-04; ETDE: 1982-02-08  
USE aluminium oxides  
USE silicon nitrides

**SIBERIA**

INIS: 1993-03-18; ETDE: 1978-06-14  
BT1 asia  
\*BT1 russian federation  
RT chukchi sea

**sibir (nuclear ship)**

INIS: 1985-09-09; ETDE: 2002-06-13  
USE ns sibir

**SIBIR REACTOR**

*INIS: 1985-09-09; ETDE: 1985-10-10*  
 UF icebreaker sibir reactor  
 UF nuclear ship sibir reactor  
 \*BT1 ship propulsion reactors  
 RT ns sibir

**sichromal alloys**

2000-04-12  
 (Prior to February 1995, this was a valid  
 ETDE descriptor.)  
 USE aluminium alloys  
 USE chromium alloys  
 USE iron base alloys  
 USE silicon alloys

**SICILY**

*INIS: 1992-06-04; ETDE: 1980-08-12*  
 \*BT1 italy

**sick leave**

*INIS: 2000-04-12; ETDE: 1983-05-21*  
 (Prior to January 1995, this was a valid ETDE  
 descriptor.)  
 SEE personnel management

**SICKLE CELL ANEMIA**

*INIS: 1982-12-07; ETDE: 1981-01-30*  
 \*BT1 anemias  
 RT erythrocytes  
 RT hereditary diseases

**SICROMO 9M**

2000-04-12  
 \*BT1 chromium alloys  
 \*BT1 iron base alloys  
 \*BT1 molybdenum alloys

**sid**

USE sudden ionospheric disturbance

**SIDE EFFECTS**

RT combined therapy  
 RT therapy

**SIDERITE**

1993-01-27  
*A spathic iron ore; an iron carbonate.*  
 \*BT1 carbonate minerals  
 \*BT1 iron ores  
 RT iron carbonates

**siegbahn spectrometers**

USE flat magnetic spectrometers

**SIEMENS COMPUTERS**

*INIS: 1977-10-17; ETDE: 1977-11-10*  
 BT1 computers

**siemens unterrichtsreaktor**

USE sur-100 series reactor

**SIERRA LEONE**

BT1 africa  
 BT1 developing countries

**SIERRA NEVADA COLORADO**

BT1 mountains  
 RT california  
 RT cascade mountains

**sievert**

*INIS: 2000-04-12; ETDE: 1980-08-12*  
*For studies concerning units, concepts, or  
 definitions. See also DOSE EQUIVALENTS.*  
 (From 1982 till April 1997 SIEVERT UNIT  
 was used for this concept.)  
 USE radiation dose units  
 USE si units

**sievert unit**

1997-06-05  
*See also DOSE EQUIVALENTS.*  
 (From May 1981 until June 1997 this was a  
 valid descriptor.)  
 USE radiation dose units  
 USE si units

**sigma-1193 resonances**

*INIS: 1987-12-21; ETDE: 2002-06-13*  
 SEE sigma minus particles  
 SEE sigma neutral particles  
 SEE sigma plus particles

**SIGMA-1385 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-02-26*  
 (Prior to December 1987 this concept was  
 indexed by SIGMA-1385 RESONANCES.)  
 UF sigma-1385 resonances  
 \*BT1 sigma baryons

**sigma-1385 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid  
 descriptor.)  
 USE sigma-1385 baryons

**sigma-1640 resonances**

2000-04-12  
 (Prior to August 1988 this was a valid ETDE  
 descriptor.)  
 SEE sigma baryons

**SIGMA-1660 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-03*  
 (Prior to December 1987 this concept was  
 indexed by SIGMA-1660 RESONANCES.)  
 UF sigma-1660 resonances  
 \*BT1 sigma baryons

**sigma-1660 resonances**

*INIS: 1987-12-21; ETDE: 1977-04-12*  
 (Prior to December 1987 this was a valid  
 descriptor.)  
 USE sigma-1660 baryons

**SIGMA-1670 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-03*  
 (Prior to December 1987 this concept was  
 indexed by SIGMA-1670 RESONANCES.)  
 UF sigma-1670 resonances  
 \*BT1 sigma baryons

**sigma-1670 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid  
 descriptor.)  
 USE sigma-1670 baryons

**SIGMA-1750 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-03*  
 (Prior to December 1987 this concept was  
 indexed by SIGMA-1750 RESONANCES.)  
 UF sigma-1750 resonances  
 \*BT1 sigma baryons

**sigma-1750 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid  
 descriptor.)  
 USE sigma-1750 baryons

**sigma-1765 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid  
 descriptor.)  
 USE sigma-1775 baryons

**SIGMA-1770 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-03*  
 \*BT1 sigma baryons

**SIGMA-1775 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-03*  
 (Prior to December 1987 this concept was  
 indexed by SIGMA-1765 RESONANCES.)  
 UF sigma-1765 resonances  
 \*BT1 sigma baryons

**sigma-1910 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid  
 descriptor.)  
 USE sigma-1915 baryons

**SIGMA-1915 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-03*  
 (Prior to December 1987 this concept was  
 indexed by SIGMA-1910 RESONANCES.)  
 UF sigma-1910 resonances  
 \*BT1 sigma baryons

**SIGMA-1940 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-03*  
 (Prior to December 1987 this concept was  
 indexed by SIGMA-1940 RESONANCES.)  
 UF sigma-1940 resonances  
 \*BT1 sigma baryons

**sigma-1940 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid  
 descriptor.)  
 USE sigma-1940 baryons

**SIGMA-2030 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-07*  
 (Prior to December 1987 this concept was  
 indexed by SIGMA-2030 RESONANCES.)  
 UF sigma-2030 resonances  
 \*BT1 sigma baryons

**sigma-2030 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid  
 descriptor.)  
 USE sigma-2030 baryons

**sigma-2430 resonances**

*INIS: 1987-12-21; ETDE: 1979-09-26*  
 (Prior to December 1987 this was a valid  
 descriptor.)  
 USE sigma c-2455 baryons

**SIGMA-2455 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-07*  
 (Prior to December 1987 this concept was  
 indexed by SIGMA-2455 RESONANCES.)  
 UF sigma-2455 resonances  
 \*BT1 sigma baryons

**sigma-2455 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid  
 descriptor.)  
 USE sigma-2455 baryons

**sigma-410 resonances**

2000-04-12  
 (Prior to August 1988 this was a valid ETDE  
 descriptor.)  
 USE sigma model

**SIGMA BARYONS**

*INIS: 1995-07-17; ETDE: 1988-02-26*  
 SF sigma-1640 resonances  
 \*BT1 hyperons  
 NT1 sigma-1385 baryons  
 NT1 sigma-1660 baryons  
 NT1 sigma-1670 baryons  
 NT1 sigma-1750 baryons  
 NT1 sigma-1770 baryons  
 NT1 sigma-1775 baryons  
 NT1 sigma-1915 baryons

- NT1 sigma-1940 baryons  
 NT1 sigma-2030 baryons  
 NT1 sigma-2455 baryons  
 NT1 sigma particles  
 NT2 antisigma particles  
 NT2 sigma minus particles  
 NT2 sigma neutral particles  
 NT2 sigma plus particles

**sigma c-2450 baryons**

INIS: 1995-08-07; ETDE: 1988-02-19  
 (From December 1987 until July 1995 this was a valid term.)  
 USE sigma c-2455 baryons

**SIGMA C-2455 BARYONS**

1995-08-07  
 (Until December 1987 this concept was indexed by SIGMA-2430 RESONANCES; from then until July 1995 it was indexed by SIGMA C-2450 BARYONS.)  
 UF sigma-2430 resonances  
 UF sigma c-2450 baryons  
 \*BT1 charmed baryons

**sigma minus**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE sigma minus particles

**sigma-minus atoms**

USE hadronic atoms

**SIGMA MINUS PARTICLES**

INIS: 1987-12-21; ETDE: 1988-02-26  
 (Prior to December 1987 this concept was indexed by SIGMA MINUS.)  
 UF sigma minus  
 SF sigma-1193 resonances  
 \*BT1 sigma particles

**SIGMA MODEL**

1995-07-17  
 UF sigma-410 resonances  
 \*BT1 boson-exchange models  
 RT pseudoscalar mesons  
 RT scalar mesons

**sigma neutral**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE sigma neutral particles

**SIGMA NEUTRAL PARTICLES**

INIS: 1987-12-21; ETDE: 1988-02-26  
 (Prior to December 1987 this concept was indexed by SIGMA NEUTRAL.)  
 UF sigma neutral  
 SF sigma-1193 resonances  
 \*BT1 sigma particles

**SIGMA PARTICLE BEAMS**

\*BT1 hyperon beams

**SIGMA PARTICLES**

- \*BT1 sigma baryons  
 NT1 antisigma particles  
 NT1 sigma minus particles  
 NT1 sigma neutral particles  
 NT1 sigma plus particles

**SIGMA PILES**

RT moderators  
 RT neutron sources

**sigma plus**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE sigma plus particles

**SIGMA PLUS PARTICLES**

INIS: 1987-12-21; ETDE: 1988-02-26  
 (Prior to December 1987 this concept was indexed by SIGMA PLUS.)  
 UF sigma plus  
 SF sigma-1193 resonances  
 \*BT1 sigma particles

**SIGMA TERMS**

\*BT1 current commutators

**sigmalog**

INIS: 2000-04-12; ETDE: 1979-04-11  
 SEE mwd systems

**SIGNAL CONDITIONERS**

INIS: 2000-04-12; ETDE: 1984-07-20  
 \*BT1 pulse circuits  
 NT1 digitizers  
 NT2 cathode ray tube digitizers  
 NT2 flying spot digitizers  
 NT2 scanning measuring projectors  
 NT2 spiral reader digitizers  
 NT1 pulse shapers  
 RT signal conditioning  
 RT signals

**SIGNAL CONDITIONING**

INIS: 1986-04-03; ETDE: 1984-07-20  
 Processing of the form or mode of a signal to make it compatible with a given device.  
 RT data transmission  
 RT digitizers  
 RT pulse shapers  
 RT signal conditioners  
 RT signals

**SIGNAL DISTORTION**

1976-03-25  
 RT data transmission  
 RT electromagnetic radiation  
 RT radiowave radiation  
 RT signals  
 RT sound waves

**SIGNAL-TO-NOISE RATIO**

INIS: 1986-04-04; ETDE: 1980-10-28  
 (Prior to April 1986 NOISE was used for this concept.)  
 BT1 dimensionless numbers  
 RT accuracy  
 RT noise  
 RT resolution  
 RT signals

**SIGNALS**

RT communications  
 RT data transmission  
 RT pulses  
 RT signal conditioners  
 RT signal conditioning  
 RT signal distortion  
 RT signal-to-noise ratio

**SILANES**

UF silicon hydrides  
 \*BT1 hydrides  
 \*BT1 organic silicon compounds  
 BT1 silicon compounds

**SILASTIC**

\*BT1 rubbers  
 \*BT1 silicones

**SILENE REACTOR**

INIS: 1982-06-09; ETDE: 1982-07-08  
 \*BT1 enriched uranium reactors  
 \*BT1 research reactors  
 \*BT1 zero power reactors

**silex process**

2001-03-06  
 USE laser isotope separation

**SILICA**

INIS: 1999-09-17; ETDE: 1993-08-31  
 The mineral form of silicon dioxide, SiO(sub 2).  
 \*BT1 oxide minerals  
 NT1 opals  
 RT silicon oxides

**SILICA GEL**

BT1 adsorbents  
 RT adsorption  
 RT ion exchange materials  
 RT silicon oxides

**SILICATE MINERALS**

INIS: 1996-11-13; ETDE: 1982-05-12  
 (The UF terms below have been valid ETDE descriptors.)

UF boltwoodite  
 UF catapleite  
 UF cerite  
 UF cuprosklodowskite  
 UF cyrtolite  
 UF elpidite  
 UF eudialyte  
 UF huttonite  
 UF pyroxenes  
 UF steenstrupine  
 UF thorongumite  
 UF uranotile  
 UF yttrialite  
 BT1 minerals  
 NT1 alamosite  
 NT1 allanite  
 NT1 alvite  
 NT1 amphibole  
 NT2 hornblende  
 NT1 beryl  
 NT1 chlorite minerals  
 NT1 clays  
 NT2 attapulgite  
 NT2 bentonite  
 NT2 boom clay  
 NT2 clinoptilolite  
 NT2 fullers earth  
 NT2 illite  
 NT2 kaolin  
 NT2 montmorillonite  
 NT2 sepiolite  
 NT2 smectite  
 NT1 coffinite  
 NT1 cristobalite  
 NT1 diopside  
 NT1 ekanite  
 NT1 enstatite  
 NT1 epidotes  
 NT1 feldspars  
 NT2 anorthite  
 NT2 orthoclase  
 NT1 freyelite  
 NT1 garnets  
 NT1 hedenbergite  
 NT1 helvite  
 NT1 hydrothorite  
 NT1 ilvaite  
 NT1 kainosite  
 NT1 kaolinite  
 NT1 lavenite  
 NT1 lovozerite  
 NT1 mackintoshite  
 NT1 maitlandite  
 NT1 mesodialyte  
 NT1 mica  
 NT2 biotite  
 NT2 muscovite  
 NT2 vermiculite



**NT1** olivine  
**NT1** petalite  
**NT1** pollucite  
**NT1** pyrophyllite  
**NT1** ranquillite  
**NT1** serpentine  
**NT1** sklodowskite  
**NT1** soddyite  
**NT1** talc  
**NT1** thorite  
**NT2** jiningite  
**NT1** titanite  
**NT1** tourmaline  
**NT1** uranophane  
**NT1** uranothorite  
**NT1** zeolites  
**NT2** clinoptilolite  
**NT2** faujasite  
**NT2** heulandite  
**NT2** laumontite  
**NT2** mordenite  
**NT2** wairakite  
**NT1** zircon  
*RT* aluminium silicates  
*RT* beryllium silicates  
*RT* boron silicates  
*RT* calcium silicates  
*RT* cerium silicates  
*RT* gabbros  
*RT* iron silicates  
*RT* kimberlites  
*RT* lava  
*RT* magnesium silicates  
*RT* manganese silicates  
*RT* niobium silicates  
*RT* peridotites  
*RT* potassium silicates  
*RT* quartz  
*RT* silicon oxides  
*RT* sodium silicates  
*RT* thorium silicates  
*RT* titanium silicates  
*RT* uranium silicates  
*RT* yttrium silicates  
*RT* zirconium silicates

**SILICATES**

1997-06-19

*UF* acid silicates  
*UF* americium silicates  
*UF* curium silicates  
*UF* indium silicates  
*UF* plutonium silicates  
*UF* radium silicates  
*SF* gadolinite  
**BT1** oxygen compounds  
**BT1** silicon compounds  
**NT1** aluminium silicates  
**NT1** barium silicates  
**NT1** beryllium silicates  
**NT1** boron silicates  
**NT1** cadmium silicates  
**NT1** calcium silicates  
**NT1** cerium silicates  
**NT1** cesium silicates  
**NT1** chromium silicates  
**NT1** cobalt silicates  
**NT1** copper silicates  
**NT1** dysprosium silicates  
**NT1** europium silicates  
**NT1** germanium silicates  
**NT1** hafnium silicates  
**NT1** holmium silicates  
**NT1** iron silicates  
**NT1** lanthanum silicates  
**NT1** lead silicates  
**NT1** lithium silicates  
**NT1** lutetium silicates  
**NT1** magnesium silicates

**NT1** manganese silicates  
**NT1** molybdenum silicates  
**NT1** neodymium silicates  
**NT1** nickel silicates  
**NT1** niobium silicates  
**NT1** potassium silicates  
**NT1** praseodymium silicates  
**NT1** rubidium silicates  
**NT1** samarium silicates  
**NT1** scandium silicates  
**NT1** sodium silicates  
**NT1** strontium silicates  
**NT1** tantalum silicates  
**NT1** thorium silicates  
**NT1** thulium silicates  
**NT1** titanium silicates  
**NT1** uranium silicates  
**NT1** uranyl silicates  
**NT1** vanadium silicates  
**NT1** ytterbium silicates  
**NT1** yttrium silicates  
**NT1** zinc silicates  
**NT1** zirconium silicates  
*RT* silicic acid  
*RT* silicon oxides

**siliceous rock**

*INIS: 2000-04-12; ETDE: 1984-02-23*  
*USE* sandstones

**SILICIC ACID**

*UF* hydrogen silicates  
**\*BT1** inorganic acids  
**BT1** oxygen compounds  
**BT1** silicon compounds  
*RT* silicates

**silicic acid esters**

*INIS: 2000-04-12; ETDE: 1986-03-04*  
*USE* organic silicon compounds

**SILICIDES**

1997-06-19

*UF* americium silicides  
*UF* potassium silicides  
*UF* sodium silicides  
**BT1** silicon compounds  
**NT1** aluminium silicides  
**NT1** boron silicides  
**NT1** calcium silicides  
**NT1** cerium silicides  
**NT1** cesium silicides  
**NT1** chromium silicides  
**NT1** cobalt silicides  
**NT1** copper silicides  
**NT1** dysprosium silicides  
**NT1** erbium silicides  
**NT1** europium silicides  
**NT1** gadolinium silicides  
**NT1** germanium silicides  
**NT1** gold silicides  
**NT1** hafnium silicides  
**NT1** holmium silicides  
**NT1** iridium silicides  
**NT1** iron silicides  
**NT1** lanthanum silicides  
**NT1** lithium silicides  
**NT1** lutetium silicides  
**NT1** magnesium silicides  
**NT1** manganese silicides  
**NT1** molybdenum silicides  
**NT1** neodymium silicides  
**NT1** nickel silicides  
**NT1** niobium silicides  
**NT1** palladium silicides  
**NT1** platinum silicides  
**NT1** praseodymium silicides  
**NT1** rhenium silicides  
**NT1** rhodium silicides  
**NT1** rubidium silicides

**NT1** ruthenium silicides  
**NT1** samarium silicides  
**NT1** scandium silicides  
**NT1** tantalum silicides  
**NT1** terbium silicides  
**NT1** thorium silicides  
**NT1** thulium silicides  
**NT1** titanium silicides  
**NT1** tungsten silicides  
**NT1** uranium silicides  
**NT1** vanadium silicides  
**NT1** ytterbium silicides  
**NT1** yttrium silicides  
**NT1** zinc silicides  
**NT1** zirconium silicides  
*RT* intermetallic compounds  
*RT* silicon additions  
*RT* silicon alloys

**SILICON****\*BT1** semimetals**SILICON 22***INIS: 1987-11-02; ETDE: 1987-12-23***\*BT1** even-even nuclei**\*BT1** light nuclei**\*BT1** silicon isotopes**SILICON 23***INIS: 1986-08-19; ETDE: 1984-05-08***\*BT1** even-odd nuclei**\*BT1** light nuclei**\*BT1** silicon isotopes**SILICON 24****\*BT1** beta-plus decay radioisotopes**\*BT1** even-even nuclei**\*BT1** light nuclei**\*BT1** milliseconds living radioisotopes**\*BT1** silicon isotopes**SILICON 25****\*BT1** beta-plus decay radioisotopes**\*BT1** even-odd nuclei**\*BT1** light nuclei**\*BT1** milliseconds living radioisotopes**\*BT1** silicon isotopes**SILICON 26****\*BT1** beta-plus decay radioisotopes**\*BT1** even-even nuclei**\*BT1** light nuclei**\*BT1** seconds living radioisotopes**\*BT1** silicon isotopes**SILICON 27****\*BT1** beta-plus decay radioisotopes**\*BT1** even-odd nuclei**\*BT1** light nuclei**\*BT1** seconds living radioisotopes**\*BT1** silicon isotopes**SILICON 28****\*BT1** even-even nuclei**\*BT1** light nuclei**\*BT1** silicon isotopes**\*BT1** stable isotopes*RT* silicon 28 beams*RT* silicon 28 reactions**SILICON 28 BEAMS****\*BT1** ion beams*RT* silicon 28**SILICON 28 REACTIONS****\*BT1** heavy ion reactions*RT* silicon 28**SILICON 28 TARGET***ETDE: 1976-07-09***BT1** targets

**SILICON 29**

- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 silicon isotopes
- \*BT1 stable isotopes
- RT silicon 29 beams
- RT silicon 29 reactions

**SILICON 29 BEAMS**

- INIS: 1991-03-22; ETDE: 1991-04-09
- \*BT1 ion beams
- RT silicon 29

**SILICON 29 REACTIONS**

- INIS: 1978-04-21; ETDE: 1978-07-06
- \*BT1 heavy ion reactions
- RT silicon 29

**SILICON 29 TARGET**

- ETDE: 1976-07-09
- BT1 targets

**SILICON 30**

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 silicon isotopes
- \*BT1 stable isotopes

**SILICON 30 REACTIONS**

- INIS: 1980-02-26; ETDE: 1980-03-29
- \*BT1 heavy ion reactions

**SILICON 30 TARGET**

- ETDE: 1976-07-09
- BT1 targets

**SILICON 31**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 light nuclei
- \*BT1 silicon isotopes

**SILICON 32**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 silicon isotopes
- \*BT1 years living radioisotopes

**SILICON 32 DECAY RADIOISOTOPES**

- INIS: 1990-01-30; ETDE: 1990-02-13
- \*BT1 heavy ion decay radioisotopes
- NT1 plutonium 238
- RT silicon 32 emission decay

**SILICON 32 EMISSION DECAY**

- INIS: 1990-01-30; ETDE: 1990-02-13
- \*BT1 heavy ion emission decay
- RT silicon 32 decay radioisotopes

**SILICON 32 TARGET**

- INIS: 1981-07-06; ETDE: 1981-08-04
- BT1 targets

**SILICON 33**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silicon isotopes

**SILICON 34**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 silicon isotopes

**SILICON 34 EMISSION DECAY**

- INIS: 1989-10-27; ETDE: 1989-11-21
- \*BT1 heavy ion emission decay

**SILICON 34 TARGET**

- INIS: 1992-09-23; ETDE: 1985-05-31
- BT1 targets

**SILICON 35**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 silicon isotopes

**SILICON 36**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 silicon isotopes

**SILICON 37**

- INIS: 1979-09-18; ETDE: 1979-10-23
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 silicon isotopes

**SILICON 38**

- INIS: 1980-07-24; ETDE: 1980-02-11
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 silicon isotopes

**SILICON 39**

- INIS: 1980-07-24; ETDE: 1980-02-11
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 silicon isotopes

**SILICON 40**

- INIS: 1989-09-14; ETDE: 1989-10-16
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 silicon isotopes

**SILICON 41**

- INIS: 1989-09-14; ETDE: 1989-10-16
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 silicon isotopes

**SILICON 42**

- INIS: 1979-02-21; ETDE: 1979-03-28
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 silicon isotopes

**SILICON ADDITIONS**

- 1996-11-13
- Alloys containing not more than 1% Si are listed here.*

- \*BT1 silicon alloys
- NT1 alloy-al95cu4
- NT2 duralumin
- NT1 alloy-fe40ni35cr22
- NT1 alloy-hs-31
- NT1 alloy-n28t3
- NT1 alloy-ni78cr21
- NT1 alloy-ni80cr20
- NT1 alloy-ni94mn3al2
- NT2 alumel
- NT1 alloy-s-816
- NT1 alloy-v-36
- NT1 aludur
- NT1 ascology
- NT1 bondur
- NT1 discaloy
- NT1 duranickel
- NT1 miduale
- NT1 ni-hard
- NT1 stainless steel-zcnd17-13
- NT1 steel-cr16ni9mo2

RT silicides

**SILICON ALLOYS**

1996-11-13

*Alloys containing more than 1% Si.*

- UF *sichromal alloys*
- BT1 alloys
- NT1 alloy-mo-re-1
- NT1 alloy-ni50mo32cr15si3
- NT1 alloy-ra-333
- NT1 cast iron
- NT1 colmonoy
- NT1 duriron
- NT1 silicon additions
- NT2 alloy-al95cu4
- NT3 duralumin
- NT2 alloy-fe40ni35cr22
- NT2 alloy-hs-31
- NT2 alloy-n28t3
- NT2 alloy-ni78cr21
- NT2 alloy-ni80cr20
- NT2 alloy-ni94mn3al2
- NT3 alumel
- NT2 alloy-s-816
- NT2 alloy-v-36
- NT2 aludur
- NT2 ascology
- NT2 bondur
- NT2 discaloy
- NT2 duranickel
- NT2 miduale
- NT2 ni-hard
- NT2 stainless steel-zcnd17-13
- NT2 steel-cr16ni9mo2
- NT1 supertherm
- NT1 tribaloy 800
- RT silicides

**SILICON ARSENIDE SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-07-18

- \*BT1 solar cells

**SILICON ARSENIDES**

INIS: 1979-09-18; ETDE: 1977-06-02

- \*BT1 arsenides
- BT1 silicon compounds

**SILICON BORIDES**

- \*BT1 borides
- BT1 silicon compounds

**SILICON BROMIDES**

- \*BT1 bromides
- \*BT1 silicon halides

**SILICON CARBIDES**

- \*BT1 carbides
- BT1 silicon compounds

**SILICON CHLORIDES**

- \*BT1 chlorides
- \*BT1 silicon halides

**SILICON COMPLEXES**

- BT1 complexes

**SILICON COMPOUNDS**

*See also SILANES, SILOXANES and SILICONES.*

- NT1 silanes
- NT1 silicates
- NT2 aluminium silicates
- NT2 barium silicates
- NT2 beryllium silicates
- NT2 boron silicates
- NT2 cadmium silicates
- NT2 calcium silicates
- NT2 cerium silicates
- NT2 cesium silicates
- NT2 chromium silicates
- NT2 cobalt silicates
- NT2 copper silicates

NT2 dysprosium silicates  
 NT2 europium silicates  
 NT2 germanium silicates  
 NT2 hafnium silicates  
 NT2 holmium silicates  
 NT2 iron silicates  
 NT2 lanthanum silicates  
 NT2 lead silicates  
 NT2 lithium silicates  
 NT2 lutetium silicates  
 NT2 magnesium silicates  
 NT2 manganese silicates  
 NT2 molybdenum silicates  
 NT2 neodymium silicates  
 NT2 nickel silicates  
 NT2 niobium silicates  
 NT2 potassium silicates  
 NT2 praseodymium silicates  
 NT2 rubidium silicates  
 NT2 samarium silicates  
 NT2 scandium silicates  
 NT2 sodium silicates  
 NT2 strontium silicates  
 NT2 tantalum silicates  
 NT2 thorium silicates  
 NT2 thulium silicates  
 NT2 titanium silicates  
 NT2 uranium silicates  
 NT2 uranyl silicates  
 NT2 vanadium silicates  
 NT2 ytterbium silicates  
 NT2 yttrium silicates  
 NT2 zinc silicates  
 NT2 zirconium silicates  
 NT1 silicic acid  
 NT1 silicides  
 NT2 aluminium silicides  
 NT2 boron silicides  
 NT2 calcium silicides  
 NT2 cerium silicides  
 NT2 cesium silicides  
 NT2 chromium silicides  
 NT2 cobalt silicides  
 NT2 copper silicides  
 NT2 dysprosium silicides  
 NT2 erbium silicides  
 NT2 europium silicides  
 NT2 gadolinium silicides  
 NT2 germanium silicides  
 NT2 gold silicides  
 NT2 hafnium silicides  
 NT2 holmium silicides  
 NT2 iridium silicides  
 NT2 iron silicides  
 NT2 lanthanum silicides  
 NT2 lithium silicides  
 NT2 lutetium silicides  
 NT2 magnesium silicides  
 NT2 manganese silicides  
 NT2 molybdenum silicides  
 NT2 neodymium silicides  
 NT2 nickel silicides  
 NT2 niobium silicides  
 NT2 palladium silicides  
 NT2 platinum silicides  
 NT2 praseodymium silicides  
 NT2 rhenium silicides  
 NT2 rhodium silicides  
 NT2 rubidium silicides  
 NT2 ruthenium silicides  
 NT2 samarium silicides  
 NT2 scandium silicides  
 NT2 tantalum silicides  
 NT2 terbium silicides  
 NT2 thorium silicides  
 NT2 thulium silicides  
 NT2 titanium silicides  
 NT2 tungsten silicides  
 NT2 uranium silicides

NT2 vanadium silicides  
 NT2 ytterbium silicides  
 NT2 yttrium silicides  
 NT2 zinc silicides  
 NT2 zirconium silicides  
 NT1 silicon arsenides  
 NT1 silicon borides  
 NT1 silicon carbides  
 NT1 silicon halides  
 NT2 silicon bromides  
 NT2 silicon chlorides  
 NT2 silicon fluorides  
 NT2 silicon iodides  
 NT1 silicon hydroxides  
 NT1 silicon nitrides  
 NT1 silicon oxides  
 NT1 silicon phosphates  
 NT1 silicon phosphides  
 NT1 silicon sulfides  
 RT organic silicon compounds

#### SILICON DIODES

\*BT1 semiconductor diodes

#### SILICON FLUORIDES

\*BT1 fluorides  
\*BT1 silicon halides

#### SILICON HALIDES

INIS: 1991-09-16; ETDE: 1978-02-15

\*BT1 halides  
BT1 silicon compounds  
NT1 silicon bromides  
NT1 silicon chlorides  
NT1 silicon fluorides  
NT1 silicon iodides

#### silicon hydrides

USE silanes

#### SILICON HYDROXIDES

\*BT1 hydroxides  
BT1 silicon compounds

#### SILICON IODIDES

\*BT1 iodides  
\*BT1 silicon halides

#### SILICON IONS

\*BT1 ions

#### SILICON ISOTOPES

1999-07-16

BT1 isotopes  
NT1 silicon 22  
NT1 silicon 23  
NT1 silicon 24  
NT1 silicon 25  
NT1 silicon 26  
NT1 silicon 27  
NT1 silicon 28  
NT1 silicon 29  
NT1 silicon 30  
NT1 silicon 31  
NT1 silicon 32  
NT1 silicon 33  
NT1 silicon 34  
NT1 silicon 35  
NT1 silicon 36  
NT1 silicon 37  
NT1 silicon 38  
NT1 silicon 39  
NT1 silicon 40  
NT1 silicon 41  
NT1 silicon 42

#### SILICON NITRIDES

UF sialon  
\*BT1 nitrides  
BT1 silicon compounds

#### silicon on ceramic solar cells

INIS: 2000-04-12; ETDE: 1981-07-18

USE soc solar cells

#### SILICON OXIDES

1998-11-03

UF coesite  
\*BT1 oxides  
BT1 silicon compounds  
RT cristobalite  
RT glass  
RT oxide minerals  
RT quartz  
RT rhyolites  
RT sand  
RT silica  
RT silica gel  
RT silicate minerals  
RT silicates  
RT siloxanes  
RT stishovite

#### SILICON PHOSPHATES

\*BT1 phosphates  
BT1 silicon compounds

#### SILICON PHOSPHIDES

INIS: 1978-04-21; ETDE: 1978-07-06

\*BT1 phosphides  
BT1 silicon compounds

#### silicon semiconductor detectors

INIS: 2000-04-12; ETDE: 1978-12-28

USE si semiconductor detectors

#### SILICON SOLAR CELLS

1997-06-19

\*BT1 solar cells  
NT1 soc solar cells

#### SILICON SULFIDES

BT1 silicon compounds  
\*BT1 sulfides

#### SILICONES

1996-06-26

(Prior to June 1996 DC RESINS was a valid

ETDE descriptor.)

UF dc resins  
BT1 polymers  
\*BT1 siloxanes  
NT1 silastic

#### siliconizing

USE diffusion coating

#### silicosis

USE pneumoconioses

#### SILKWORM

UF bombyx  
\*BT1 moths

#### SILOE REACTOR

CEA/CEN Grenoble, Grenoble, France.

\*BT1 enriched uranium reactors  
\*BT1 isotope production reactors  
\*BT1 pool type reactors  
\*BT1 thermal reactors

#### SILOETTE REACTOR

UF grenoble reactor melusine-2  
UF melusine-2 reactor

\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 thermal reactors  
\*BT1 zero power reactors

#### SILOXANES

\*BT1 organic silicon compounds  
NT1 siloxanes  
NT2 silastic  
RT silicon oxides

**SILT**

*RT* sediments  
*RT* shales

**SILTSTONES**

*INIS: 1992-05-21; ETDE: 1984-07-20*

\*BT1 sedimentary rocks  
*RT* sandstones  
*RT* shales

**SILURIAN PERIOD**

*INIS: 1992-04-14; ETDE: 1977-10-19*

\*BT1 paleozoic era

**SILVER**

\*BT1 transition elements

**SILVER 100**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 silver isotopes

**SILVER 101**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 silver isotopes

**SILVER 102**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 silver isotopes

**SILVER 103**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 silver isotopes

**SILVER 104**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 silver isotopes

**SILVER 105**

\*BT1 beta-plus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 silver isotopes

**SILVER 106**

\*BT1 beta-plus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei

\*BT1 silver isotopes

**SILVER 106 TARGET**

*INIS: 1986-01-21; ETDE: 1986-02-21*

BT1 targets

**SILVER 107**

\*BT1 intermediate mass nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 silver isotopes  
\*BT1 stable isotopes

**SILVER 107 BEAMS**

\*BT1 ion beams

**SILVER 107 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**SILVER 108**

\*BT1 beta-minus decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 silver isotopes  
\*BT1 years living radioisotopes

**SILVER 108 TARGET**

*INIS: 1977-02-08; ETDE: 1976-09-21*

BT1 targets

**SILVER 109**

\*BT1 intermediate mass nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 silver isotopes  
\*BT1 stable isotopes

**SILVER 109 REACTIONS**

*INIS: 1986-05-12; ETDE: 1988-12-05*

\*BT1 heavy ion reactions

**SILVER 109 TARGET**

*ETDE: 1976-07-09*

BT1 targets

**SILVER 110**

\*BT1 beta-minus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 silver isotopes

**SILVER 110 TARGET**

*INIS: 1992-09-23; ETDE: 1984-02-10*

BT1 targets

**SILVER 111**

\*BT1 beta-minus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 silver isotopes

**SILVER 112**

\*BT1 beta-minus decay radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei

\*BT1 silver isotopes

**SILVER 113**

\*BT1 beta-minus decay radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 silver isotopes

**SILVER 114**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 silver isotopes

**SILVER 115**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 silver isotopes

**SILVER 116**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 silver isotopes

**SILVER 117**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 silver isotopes

**SILVER 118**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 silver isotopes

**SILVER 119**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 silver isotopes

**SILVER 120**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 isomeric transition isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 silver isotopes

**SILVER 121**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 silver isotopes

**SILVER 122**

\*BT1 beta-minus decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 silver isotopes



**simmondsia chinensis**

INIS: 2000-04-12; ETDE: 1980-11-25  
USE joboba

**simplex process**

INIS: 2000-04-12; ETDE: 1979-10-23  
Slagging, moving-burden gasification process for coal or biomass being developed at Columbia University.  
(Prior to March 1994, this was a valid ETDE descriptor.)  
USE coal gasification

**sims**

INIS: 2000-04-12; ETDE: 1978-03-03  
Secondary Ion Mass Spectroscopy.  
USE ion microprobe analysis  
USE mass spectroscopy

**SIMULATION**

1996-07-18  
UF modeling  
NT1 computerized simulation  
NT1 plasma simulation  
NT1 reactor accident simulation  
RT box models  
RT functional models  
RT mathematical models  
RT scaling laws  
RT simulators  
RT speech synthesizers  
RT systems analysis

**SIMULATORS**

BT1 analog systems  
BT1 functional models  
NT1 reactor simulators  
NT1 solar simulators  
RT microcosms  
RT mockup  
RT scale models  
RT simulation

**simulators (reactor)**

1999-09-20  
USE reactor simulators

**SIN CYCLOTRON**

Includes the 590 MeV ring cyclotron and the two injector cyclotrons.  
UF swiss institute nuclear research cyclotron  
UF villigen cyclotron  
\*BT1 isochronous cyclotrons

**sine generators**

USE function generators

**SINE-GORDON EQUATION**

INIS: 1977-06-14; ETDE: 1976-12-16  
Field equation in two space-time dimensions defining a quantum field theory.  
\*BT1 field equations  
RT quantum field theory

**SINGAPORE**

BT1 asia  
BT1 developing countries  
BT1 islands  
RT pacific ocean

**single administration**

USE single intake

**SINGLE CELL PROTEIN**

INIS: 2000-04-12; ETDE: 1976-01-23  
Feed and food protein derived from single-cell microorganisms grown on various resources and wastes.  
RT autotrophs  
RT continuous culture  
RT culture media

RT proteins  
RT semibatch culture

**single crystals**

USE monocrystals

**SINGLE INTAKE**

UF accidental intake  
UF single administration  
BT1 intake  
RT accidents  
RT first aid  
RT injuries

**single-level resonance formula**

USE breit-wigner formula

**single market**

INIS: 1997-01-28; ETDE: 1995-03-08  
USE internal market

**SINGLE-PARTICLE MODEL**

UF independent-particle model  
\*BT1 nuclear models  
RT atomic models  
RT quasiparticle-phonon model  
RT schmidt model

**SINGLE-PARTICLE MODES**

UF modes (single-particle)  
BT1 oscillation modes

**single photon ect**

INIS: 1993-12-08; ETDE: 2002-06-13  
USE single photon emission computed tomography

**SINGLE PHOTON EMISSION COMPUTED TOMOGRAPHY**

INIS: 1995-07-20; ETDE: 1980-05-07  
(Until January 1994 this was spelled SINGLE PHOTON ECT.)  
UF single photon ect  
UF spect  
\*BT1 emission computed tomography  
RT gamma cameras  
RT photon transmission scanning  
RT radioisotope scanning

**SINGULARITY**

UF residues (mathematical)  
RT functions  
RT landau curves  
RT s matrix  
RT scattering amplitudes

**SINKS**

INIS: 2000-04-12; ETDE: 1979-12-10  
Points, lines, or areas at which mass or energy is removed from a system.  
NT1 carbon sinks  
NT1 heat sinks  
RT absorption  
RT diffusion  
RT environmental transport

**sino united spherical tokamak**

2006-07-25  
USE sunist spheromak

**SINP TOKAMAK**

1994-06-29  
Saha Institute of Nuclear Physics, Calcutta, India.  
\*BT1 tokamak devices

**SINTERED ALUMINIUM POWDERS**

ETDE: 2005-02-01  
(Prior to January 2005 SAP was used for this concept.)  
UF sap (sintered aluminium powders)  
\*BT1 sintered materials  
RT aluminium

**SINTERED MATERIALS**

BT1 materials  
NT1 sintered aluminium powders  
RT powder metallurgy  
RT powders  
RT sintering

**SINTERING**

UF liquid-phase sintering  
BT1 fabrication  
RT agglomeration  
RT furnaces  
RT porosity  
RT powder metallurgy  
RT sintered materials

**SINTERS**

INIS: 2000-04-12; ETDE: 1976-03-31  
Chemical sedimentary rocks deposited as a hard incrustation on rocks or on the ground by precipitation from cold mineral water of springs, lakes, or streams; specifically siliceous sinter and calcareous sinter.  
\*BT1 sedimentary rocks

**SINUSES**

INIS: 1981-05-11; ETDE: 1979-01-30  
In anatomical nomenclature to designate a cavity or hollow space.  
BT1 cavities  
RT body  
RT face  
RT skull

**sioux falls pathfinder reactor**

USE pathfinder reactor

**siredon**

1996-11-13  
(Prior to March 1997 AXOLOTL was used for this concept in ETDE.)  
USE salamanders

**SIRIUS DEVICE**

\*BT1 stellarators

**sirius synchrotron**

USE tomsk synchrotron

**SIS SYNCHROTRON**

1991-02-11  
UF darmstadt synchrotron  
\*BT1 heavy ion accelerators  
\*BT1 synchrotrons

**SISTER CHROMATID EXCHANGES**

INIS: 1977-10-17; ETDE: 1977-11-10  
\*BT1 chromosomal aberrations  
RT chromatids  
RT genetic effects  
RT genetic radiation effects  
RT hereditary diseases

**SITE APPROVALS**

INIS: 1976-12-08; ETDE: 1990-11-26  
RT licenses  
RT nuclear facilities  
RT property rights  
RT reactor sites  
RT site preparation  
RT site selection

**SITE CHARACTERIZATION**

INIS: 1993-03-09; ETDE: 1986-04-29  
Surveys of particular sites to establish their characteristics, e.g. hydrology, geological and topographical features, etc.  
(Until March 1993, this concept was indexed by SITE SURVEYS.)  
UF site surveys  
RT baseline ecology  
RT geochemistry

RT geographic information systems  
 RT geography  
 RT geologic surveys  
 RT geology  
 RT geomorphology  
 RT hydrology  
 RT meteorology  
 RT radiation monitoring  
 RT reactor sites  
 RT site selection  
 RT stratigraphy  
 RT topography

**SITE PREPARATION**

INIS: 1982-12-03; ETDE: 1976-07-07  
 RT reactor sites  
 RT site approvals  
 RT site selection

**site rehabilitation**

INIS: 1990-09-24; ETDE: 1990-10-09  
 USE remedial action

**SITE SELECTION**

See also descriptors for concepts involved in site selection, such as ENVIRONMENT, SEISMOLOGY and SOILS plus LIQUEFACTION.

UF reactor siting  
 RT accidents  
 RT archaeological sites  
 RT environment  
 RT external zones  
 RT land use  
 RT licensing  
 RT meteorology  
 RT offshore nuclear power plants  
 RT offshore sites  
 RT planning  
 RT reactor safety  
 RT reactor sites  
 RT site approvals  
 RT site characterization  
 RT site preparation  
 RT vernacular architecture

**site surveys**

INIS: 1993-03-09; ETDE: 1980-10-27  
 (Prior to March 1993 this was a valid ETDE descriptor.)  
 USE site characterization

**sites (fission reactor)**

INIS: 1982-11-29; ETDE: 2002-06-13  
 USE reactor sites

**sites (nuclear installations)**

INIS: 1976-12-08; ETDE: 2002-06-13  
 If appropriate use one of the specific types of facilities.  
 USE nuclear facilities

**sites (reactor)**

2000-04-12  
 USE reactor sites

**SITOSTEROL**

\*BT1 sterols

**SIZE**

(From December 1981 till May 1996 SIZING was a valid ETDE descriptor.)

UF sizing  
 NT1 critical size  
 NT1 grain size  
 NT1 particle size  
 RT dimensions  
 RT thickness  
 RT volume  
 RT width

**SIZEWELL-A REACTOR**

Sizewell, Suffolk, United Kingdom.  
 UF sizewell nuclear power station a  
 \*BT1 carbon dioxide cooled reactors  
 \*BT1 magnox type reactors  
 \*BT1 thermal reactors

**SIZEWELL-B REACTOR**

Sizewell, Suffolk, United Kingdom.  
 UF sizewell nuclear power station b  
 \*BT1 pwr type reactors

**sizewell nuclear power station a**

1998-11-04  
 USE sizewell-a reactor

**sizewell nuclear power station b**

1998-11-04  
 USE sizewell-b reactor

**sizing**

INIS: 2000-04-12; ETDE: 1981-12-14  
 (Prior to May 1996 this was a valid ETDE descriptor.)  
 USE size

**SKAGIT-1 REACTOR**

Puget Sound Power and Light Co., Sedro Woolley, Washington, USA. Canceled in 1983 before construction began.  
 \*BT1 bwr type reactors  
 RT ge standard reactor

**SKAGIT-2 REACTOR**

Puget Sound Power and Light Co., Sedro Woolley, Washington, USA. Canceled in 1983 before construction began.  
 \*BT1 bwr type reactors  
 RT ge standard reactor

**SKAGIT RIVER**

INIS: 2000-04-12; ETDE: 1980-10-27  
 \*BT1 rivers  
 RT hydroelectric power plants  
 RT washington

**SKATING RINKS**

INIS: 2000-04-12; ETDE: 1981-12-21  
 RT commercial buildings  
 RT public buildings

**SKELETAL DISEASES**

UF bone diseases  
 UF chondrosarcomas  
 BT1 diseases  
 NT1 osteomyelitis  
 NT1 osteoporosis  
 NT1 osteoradionecrosis  
 NT1 osteosarcomas  
 NT1 rickets  
 NT1 spondylitis  
 RT bone fractures  
 RT bone joints  
 RT bone tissues  
 RT rheumatic diseases  
 RT skeleton

**skeletal fossils**

INIS: 1980-09-12; ETDE: 1980-10-07  
 USE fossils

**SKELETON**

UF bones  
 \*BT1 organs  
 NT1 bone joints  
 NT1 exoskeleton  
 NT1 femur  
 NT1 skull  
 NT2 jaw  
 NT1 tibia  
 NT1 vertebrae  
 RT bone tissues

RT limbs  
 RT skeletal diseases

**skewness**

INIS: 1996-03-04; ETDE: 1996-02-26  
 USE asymmetry  
 USE distribution  
 USE statistics

**SKIMMERS**

INIS: 1992-07-21; ETDE: 1976-08-04  
 For oil spill cleanup and removal.  
 UF oil skimmers  
 \*BT1 pollution control equipment  
 RT offshore operations  
 RT oil spills

**SKIN**

UF sebaceous glands  
 UF sweat glands  
 \*BT1 organs  
 NT1 epidermis  
 NT1 hair  
 NT1 hair follicles  
 NT1 nails  
 RT animal tissues  
 RT epilation  
 RT erythema  
 RT feathers  
 RT fish scales  
 RT gloves  
 RT leather  
 RT lupus  
 RT melanin  
 RT ointments  
 RT psoriasis  
 RT skin absorption  
 RT skin diseases  
 RT sweat  
 RT wounds

**SKIN ABSORPTION**

UF absorption (skin)  
 \*BT1 absorption  
 BT1 uptake  
 RT gloves  
 RT protective clothing  
 RT skin

**skin cancer**

INIS: 1992-09-15; ETDE: 2002-06-13  
 SEE epitheliomas

**skin damage**

INIS: 2000-04-12; ETDE: 1983-01-21  
 USE formation damage

**SKIN DISEASES**

UF xeroderma pigmentosum  
 BT1 diseases  
 NT1 dermatitis  
 NT2 radiodermatitis  
 NT1 eczema  
 NT1 herpes simplex  
 NT1 psoriasis  
 NT1 telangiectasis  
 RT burns  
 RT erythema  
 RT lupus  
 RT sense organs diseases  
 RT skin

**SKIN EFFECT**

RT electric conductors  
 RT electric currents  
 RT magnetic flux  
 RT penetration depth

**skin effect (well)**

INIS: 2000-04-12; ETDE: 1983-01-21  
 USE formation damage





RT danube river  
RT dudvah river  
RT hron river  
RT manivier canal  
RT vah river

**SLOVENIA**

1993-01-14

SF yugoslavia

\*BT1 eastern europe

RT alps

**SLOVENIAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**SLOW NEUTRONS**

\*BT1 neutrons

**slowdown**

USE slowing-down

**SLOWING-DOWN**

1996-07-08

UF slowdown

NT1 thermalization

RT absorption

RT energy losses

RT fermi age theory

RT neutron age

RT neutron converters

RT neutron slowing-down theory

RT neutron transport theory

RT slowing-down kernels

RT slowing-down length

RT van hove theory

RT wick method

RT wigner-wilkins model

RT wilkins equation

**slowing-down area**

USE slowing-down length

**SLOWING-DOWN KERNELS**

UF kernels (slowing-down)

RT neutron slowing-down theory

RT slowing-down

**SLOWING-DOWN LENGTH**

1999-07-20

UF slowing-down area

\*BT1 length

RT migration length

RT slowing-down

**slowing-down theory (neutron)**

USE neutron slowing-down theory

**SLOWPOKE-ALBERTA REACTOR**

INIS: 1979-12-20; ETDE: 1980-01-24

Univ. of Alberta, Faculty of Pharmacy,  
Edmonton, Alberta, Canada.

UF alberta university slowpoke reactor

UF university of alberta slowpoke  
reactor

\*BT1 slowpoke type reactors

**SLOWPOKE-DALHOUSIE****REACTOR**

INIS: 1979-12-20; ETDE: 1980-01-24

Dalhousie Univ., Halifax, Nova Scotia,  
Canada.

UF dalhousie university slowpoke  
reactor

\*BT1 slowpoke type reactors

**SLOWPOKE-MONTREAL REACTOR**

INIS: 1979-12-20; ETDE: 1980-01-24

Univ. of Montreal, Polytechnical School,  
Montreal, Quebec, Canada.

UF montreal university slowpoke reactor

UF university of montreal slowpoke  
reactor

\*BT1 slowpoke type reactors

**SLOWPOKE-OTTAWA REACTOR**

AECL, Ottawa, Ontario, Canada.

UF aecl radiochemical slowpoke reactor

UF ottawa slowpoke reactor

UF slowpoke reactor (ottawa)

\*BT1 slowpoke type reactors

**slowpoke reactor (ottawa)**

2000-04-12

USE slowpoke-ottawa reactor

**slowpoke reactor (toronto)**

2000-04-12

USE slowpoke-toronto reactor

**SLOWPOKE-TORONTO REACTOR**

Univ. of Toronto, Toronto, Ontario, Canada.

UF slowpoke reactor (toronto)

UF toronto university slowpoke reactor

UF university of toronto slowpoke  
reactor

\*BT1 slowpoke type reactors

**SLOWPOKE TYPE REACTORS**

INIS: 1979-12-20; ETDE: 1980-01-24

UF safe low power critical experiment

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

NT1 slowpoke-alberta reactor

NT1 slowpoke-dalhousie reactor

NT1 slowpoke-montreal reactor

NT1 slowpoke-ottawa reactor

NT1 slowpoke-toronto reactor

NT1 slowpoke-wnre reactor

**SLOWPOKE-WNRE REACTOR**

INIS: 1986-10-29; ETDE: 1986-11-20

Whiteshell Nuclear Research Establishment,  
Pinawa, Manitoba, Canada.

\*BT1 process heat reactors

\*BT1 slowpoke type reactors

RT district heating

**sls (swiss synchrotron light source)**

2000-06-02

USE swiss light source

**SLUDGES**

INIS: 1992-02-28; ETDE: 1976-05-17

NT1 sewage sludge

RT sediments

RT slurries

RT wastes

**sludges (sewage)**

INIS: 1977-11-21; ETDE: 2002-06-13

USE sewage sludge

**slugs (fuel)**

USE fuel rods

**slurex process**

1996-07-08

(Until June 1996 this was a valid descriptor.)

USE separation processes

**SLURRIES**

1996-07-08

UF pulps

\*BT1 mixtures

\*BT1 suspensions

NT1 fuel slurries

RT hydraulic transport

RT ore processing

RT sewage sludge

RT sludges

RT slurry pipelines

**slurries (fuel)**

USE fuel slurries

**SLURRY PIPELINES**

INIS: 1993-02-15; ETDE: 1975-08-19

BT1 pipelines

RT coal

RT hydraulic transport

RT slurries

**SLURRY REACTORS**

\*BT1 fuel dispersion reactors

RT fuel slurries

**SLUSH**

INIS: 2000-04-12; ETDE: 1976-01-23

RT hydrogen fuels

RT ice

RT snow

RT water

**SM-1 REACTOR**

UF stationary medium power plant-1

\*BT1 pwr type reactors

**SM-1A REACTOR**

USA Army Corps of Engineers, Fort Greeley,  
Alaska, USA.

UF stationary medium power plant-1a

\*BT1 process heat reactors

\*BT1 pwr type reactors

**SM-2 REACTOR**

UF melekess-sm-2 reactor

\*BT1 materials testing reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

**SMALL ANGLE SCATTERING**

BT1 scattering

RT angular distribution

RT optical theorem

**SMALL BUSINESSES**

INIS: 1992-02-21; ETDE: 1977-09-19

Businesses and commercial establishments  
employing fewer than 500 people.

BT1 business

RT commercial sector

RT cooperatives

RT economy

RT gasoline service stations

RT industry

RT market

RT restaurants

RT retailers

RT trade

**SMALL INTESTINE**

UF duodenum

UF ileum

UF jejunum

\*BT1 intestines

RT ascaris

RT intestinal absorption

RT mesentery

RT secretin

**SMALL-SCALE HYDROELECTRIC POWER PLANTS**

INIS: 1992-04-06; ETDE: 1981-07-06

Small-scale hydroelectric power plants

generating from 100kW to 30MW.

\*BT1 hydroelectric power plants

RT low-head hydroelectric power plants

RT microgeneration

**small tight aspect ratio tokamak**

INIS: 1994-03-15; ETDE: 1994-02-25  
USE start tokamak

**smartor device**

INIS: 2000-04-12; ETDE: 1977-12-22  
(Prior to January 1995, this was a valid ETDE descriptor.)  
USE tokamak devices

**SMECTITE**

INIS: 1981-02-27; ETDE: 1976-11-29  
A green clay.  
\*BT1 clays  
RT aluminium silicates

**SMELTERS**

INIS: 1992-07-21; ETDE: 1980-10-27  
BT1 furnaces  
RT metal industry  
RT pyrometallurgy  
RT smelting

**SMELTING**

RT melting  
RT pyrometallurgy  
RT smelters

**smes**

INIS: 1995-01-11; ETDE: 1982-10-20  
Superconducting Magnetic Energy Storage.  
USE superconducting magnetic energy storage

**SMOG**

INIS: 2000-05-08; ETDE: 1975-11-28  
(Prior to May 2000, this concept was indexed by AIR POLLUTION.)  
RT air pollution  
RT atmospheric chemistry  
RT photochemical oxidants  
RT visibility

**smokatron**

USE electron-ring accelerators

**SMOKE DETECTORS**

INIS: 1981-02-27; ETDE: 1978-11-14  
UF icsd  
UF ionization chamber smoke detectors  
\*BT1 fire detectors  
RT aerosol monitoring  
RT aerosols  
RT alarm systems  
RT fires  
RT safety engineering  
RT smokes

**SMOKES**

\*BT1 aerosols  
BT1 residues  
NT1 tobacco smokes  
RT plumes  
RT smoke detectors  
RT soot  
RT stacks  
RT visibility

**smoky event**

INIS: 1994-10-14; ETDE: 1981-07-06  
A test made during OPERATION PLUMBBOB.  
(Prior to September 1994, this was a valid ETDE descriptor.)  
USE atmospheric explosions  
USE nuclear explosions

**SMOLENSK-1 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20  
\*BT1 enriched uranium reactors  
\*BT1 lwgr type reactors  
\*BT1 power reactors

\*BT1 thermal reactors

**SMOLENSK-2 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20  
\*BT1 enriched uranium reactors  
\*BT1 lwgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**SMOLENSK-3 REACTOR**

INIS: 1994-12-22; ETDE: 1995-01-03  
\*BT1 enriched uranium reactors  
\*BT1 lwgr type reactors  
\*BT1 power reactors  
\*BT1 thermal reactors

**SMOOTH MANIFOLDS**

BT1 mathematical manifolds  
RT conformal mapping  
RT differential topology  
RT riemann space  
RT topological foliation

**smoothness**

USE roughness

**smr devices**

USE scanning measuring projectors

**smr reactor**

2000-04-12  
(Prior to January 1995, this was a valid ETDE descriptor.)  
SEE graphite moderated reactors

**sn method**

USE discrete ordinate method

**SNAILS**

\*BT1 molluscs  
RT disease vectors  
RT schistosomiasis  
RT seafood

**SNAKE RIVER PLAIN**

INIS: 1992-04-06; ETDE: 1981-08-04  
SF geologic provinces  
RT idaho  
RT nevada  
RT oregon  
RT wyoming  
RT yellowstone national park

**SNAKES**

\*BT1 reptiles

**snap 1 battery**

1996-07-08  
(Until June 1996 this was a valid descriptor.)  
USE snap batteries

**SNAP 10 REACTOR**

Atomics International Div., Rockwell International, Canoga Park, California, USA.  
\*BT1 enriched uranium reactors  
\*BT1 potassium cooled reactors  
\*BT1 process heat reactors  
\*BT1 snap reactors  
\*BT1 sodium cooled reactors  
NT1 s10fs-1 reactor  
NT1 s10fs-3 reactor  
NT1 s10fs-4 reactor

**snap-10a flight system test-1**

1993-11-09  
USE s10fs-1 reactor

**snap-10a flight system test-3**

1993-11-09  
USE s10fs-3 reactor

**snap-10a flight system test-4**

1993-11-09  
USE s10fs-4 reactor

**snap-10a transient test reactor**

1993-11-09  
USE snaptran reactors

**snap 11 battery**

1996-07-08  
(Until June 1996 this was a valid descriptor.)  
USE snap batteries

**snap 13 battery**

1996-07-08  
(Until June 1996 this was a valid descriptor.)  
USE snap batteries

**snap 15 battery**

2000-04-12  
(Prior to March 1996 this was a valid ETDE descriptor.)  
USE snap batteries

**SNAP 19 BATTERY**

\*BT1 snap batteries

**snap-2/10a tsf shielding reactor**

2000-04-12  
USE snap-tsf reactor

**snap-2 developmental system**

USE s2ds reactor

**snap-2 experimental reactor**

USE ser reactor

**SNAP 2 REACTOR**

Atomics International Div., Rockwell International, Canoga Park, California, USA.  
\*BT1 enriched uranium reactors  
\*BT1 snap reactors  
NT1 s2ds reactor

**snap 21 battery**

2000-04-12  
(Prior to August 1996 this was a valid ETDE descriptor.)  
USE snap batteries

**snap 23 battery**

2000-04-12  
(Prior to August 1996 this was a valid ETDE descriptor.)  
USE snap batteries

**SNAP 27 BATTERY**

\*BT1 snap batteries

**snap 29 battery**

2000-04-12  
(Prior to August 1996 this was a valid ETDE descriptor.)  
USE snap batteries

**snap 3 battery**

1996-07-08  
(Until June 1996 this was a valid descriptor.)  
USE snap batteries

**snap 4 reactor**

2000-04-12  
(Prior to January 1995, this was a valid ETDE descriptor.)  
USE snap reactors

**SNAP 50 REACTOR**

1993-02-18  
Pratt and Whitney Aircraft, Middletown, Connecticut, USA.  
\*BT1 enriched uranium reactors  
\*BT1 snap reactors

**snap 7 battery**

2000-04-12

(Prior to March 1996 this was a valid ETDE descriptor.)

USE snap batteries

**snap-8 developmental reactor**

USE s8dr reactor

**snap-8 experimental reactor**

USE s8er reactor

**SNAP 8 REACTOR**

Rockwell International, Santa Susana, California, USA.

\*BT1 enriched uranium reactors

\*BT1 snap reactors

NT1 s8dr reactor

NT1 s8er reactor

**SNAP 9 BATTERY**

\*BT1 snap batteries

**SNAP BATTERIES**

1996-07-08

Battery Systems for Nuclear Auxiliary Power.

UF snap 1 battery

UF snap 11 battery

UF snap 13 battery

UF snap 15 battery

UF snap 21 battery

UF snap 23 battery

UF snap 29 battery

UF snap 3 battery

UF snap 7 battery

\*BT1 radioisotope batteries

NT1 snap 19 battery

NT1 snap 27 battery

NT1 snap 9 battery

**SNAP REACTORS**

Reactor Systems for Nuclear Auxiliary Power.

UF snap 4 reactor

SF s4 reactor

\*BT1 space power reactors

NT1 snap 10 reactor

NT2 s10fs-1 reactor

NT2 s10fs-3 reactor

NT2 s10fs-4 reactor

NT1 snap 2 reactor

NT2 s2ds reactor

NT1 snap 50 reactor

NT1 snap 8 reactor

NT2 s8dr reactor

NT2 s8er reactor

RT thermionic reactors

**SNAP-TSF REACTOR**

2000-04-12

Atomics International Div., Rockwell International, Canoga Park, California, USA.

UF snap-2/10a tsf shielding reactor

\*BT1 enriched uranium reactors

\*BT1 potassium cooled reactors

\*BT1 process heat reactors

\*BT1 sodium cooled reactors

**snaptran-1 reactor**

USE snaptran reactors

**snaptran-2 reactor**

USE snaptran reactors

**snaptran-3 reactor**

USE snaptran reactors

**SNAPTRAN REACTORS**

USA. Program discontinued in 1960s.

UF snap-10a transient test reactor

UF snaptran-1 reactor

UF snaptran-2 reactor

UF snaptran-3 reactor

\*BT1 enriched uranium reactors

\*BT1 nak cooled reactors

\*BT1 potassium cooled reactors

\*BT1 sodium cooled reactors

\*BT1 test reactors

**SNEAK REACTOR**

Gesellschaft fuer Kernforschung mbH, Karlsruhe, Baden-Wuerttemberg, Federal Republic of Germany.

UF schnelle null-energie anordnung karlsruhe

\*BT1 air cooled reactors

\*BT1 fast reactors

\*BT1 research reactors

\*BT1 zero power reactors

RT enriched uranium reactors

RT plutonium reactors

**sng**

INIS: 2000-04-12; ETDE: 1975-10-01

USE high btu gas

**SNG PLANTS**

INIS: 2000-04-12; ETDE: 1976-10-13

BT1 industrial plants

RT high btu gas

RT sng processes

**SNG PROCESSES**

2000-04-12

Processes for production of substitute natural gas from hydrocarbon liquids or coal.

UF carbon dioxide acceptor process

UF gasynthan process

UF jgc methane-rich gas process

UF methane rich gas process

UF mrg process

UF rmprocess

NT1 fluidized bed hydrogenation process

NT1 gas recycle hydrogenation process

NT1 hydrane process

NT1 hygas process

NT1 kellogg process

NT1 peatgas process

NT1 shell gasification process

RT bi-gas process

RT coal gasification

RT exxon gasification process

RT high btu gas

RT koppers-totzek process

RT lurgi process

RT petroleum

RT petroleum products

RT sng plants

RT synthane process

RT winkler process

**SNOW**

BT1 atmospheric precipitations

RT antarctic regions

RT arctic regions

RT cryosphere

RT glaciers

RT ice

RT natural disasters

RT rain

RT slush

RT storms

**snpa-dea process**

2000-04-12

Process for sweetening raw gas streams containing a total of about 10% or more of acid gases (hydrogen sulfide plus carbon dioxide) at operating pressures of about 500 psig or higher.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**snr-1 reactor**

INIS: 1977-09-06; ETDE: 1976-10-13

(From 1977 to July 1985, this was a valid ETDE descriptor.)

USE snr reactor

**SNR-2 REACTOR**

1976-10-29

Kalkar, North Rhine Westfalia, Federal Republic of Germany.

\*BT1 lmfr type reactors

\*BT1 power reactors

\*BT1 sodium cooled reactors

**snr-300 reactor**

USE snr reactor

**SNR REACTOR**

ETDE: 1976-10-13

Kalkar, North Rhine Westfalia, Federal Republic of Germany.

UF kalkar power reactor

UF schneller natriumgekuehlter reaktor

UF snr-1 reactor

UF snr-300 reactor

\*BT1 lmfr type reactors

\*BT1 power reactors

\*BT1 sodium cooled reactors

**SO-10 GROUPS**

INIS: 1981-03-10; ETDE: 1981-04-17

\*BT1 so groups

RT grand unified theory

**SO-12 GROUPS**

INIS: 1986-01-21; ETDE: 1986-03-04

\*BT1 so groups

**SO-2 GROUPS**

INIS: 1978-02-23; ETDE: 1978-05-01

\*BT1 so groups

**SO-3 GROUPS**

\*BT1 so groups

**SO-4 GROUPS**

INIS: 1977-10-17; ETDE: 1977-11-10

\*BT1 so groups

**SO-5 GROUPS**

2006-05-22

\*BT1 so groups

**SO-6 GROUPS**

INIS: 1981-09-18; ETDE: 1981-10-24

\*BT1 so groups

**SO-8 GROUPS**

INIS: 1987-04-28; ETDE: 1987-07-21

\*BT1 so groups

**SO GROUPS**

\*BT1 lie groups

NT1 so-10 groups

NT1 so-12 groups

NT1 so-2 groups

NT1 so-3 groups

NT1 so-4 groups

NT1 so-5 groups

NT1 so-6 groups

NT1 so-8 groups

**SOAPS**

\*BT1 other organic compounds

RT detergents

RT emulsifiers

RT organic acids

**SOC SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-07-18

UF silicon on ceramic solar cells

\*BT1 silicon solar cells

**SOCIAL IMPACT**

INIS: 1992-03-26; ETDE: 1977-01-31

- RT aesthetics  
 RT health services  
 RT socio-economic factors  
 RT sociology  
 RT technology impacts

**SOCIAL SERVICES**

INIS: 1999-12-07; ETDE: 1978-04-06

- NTI health services  
 RT boom towns  
 RT local government  
 RT state government

**societal costs**

2004-09-08

- SEE external cost

**socio-economic aspects**

INIS: 1985-11-18; ETDE: 1983-02-09

(Prior to December 1985 this was a valid descriptor.)

- USE socio-economic factors

**SOCIO-ECONOMIC FACTORS**

INIS: 1998-01-28; ETDE: 1976-03-11

(Prior to December 1985 SOCIO-ECONOMIC ASPECTS was used for this concept.)

- UF socio-economic aspects  
 SF life styles  
 SF values  
 BT1 institutional factors  
 RT aesthetics  
 RT communities  
 RT cooperatives  
 RT economic impact  
 RT economics  
 RT financial incentives  
 RT health services  
 RT high income groups  
 RT low income groups  
 RT political aspects  
 RT property values  
 RT social impact  
 RT sociology  
 RT technology impacts

**SOCIOLOGY**

- RT aesthetics  
 RT anthropology  
 RT black americans  
 RT elderly people  
 RT ethical aspects  
 RT handicapped people  
 RT hispanic americans  
 RT historical aspects  
 RT human factors  
 RT human populations  
 RT leisure time activities  
 RT man  
 RT minority groups  
 RT occupations  
 RT oriental americans  
 RT public anxiety  
 RT public relations  
 RT regional analysis  
 RT social impact  
 RT socio-economic factors  
 RT urban populations

**sod**

INIS: 1984-04-04; ETDE: 2002-06-13

- USE superoxide dismutase

**sod (soil)**

INIS: 1984-04-04; ETDE: 2002-06-13

- USE soils

**soda ash**

INIS: 2000-04-12; ETDE: 1977-03-08

- USE sodium carbonates

**SODDYITE**

- \*BT1 silicate minerals  
 \*BT1 uranium minerals  
 RT uranium silicates

**SODIUM**

- \*BT1 alkali metals

**SODIUM 19**

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 sodium isotopes

**SODIUM 20**

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 sodium isotopes

**SODIUM 21**

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 sodium isotopes

**SODIUM 21 TARGET**

INIS: 1986-12-09; ETDE: 1987-02-24

- BT1 targets

**SODIUM 22**

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 light nuclei  
 \*BT1 nanoseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 sodium isotopes  
 \*BT1 years living radioisotopes

**SODIUM 22 TARGET**

INIS: 1976-10-07; ETDE: 1976-11-01

- BT1 targets

**SODIUM 23**

- \*BT1 light nuclei  
 \*BT1 odd-even nuclei  
 \*BT1 sodium isotopes  
 \*BT1 stable isotopes  
 RT sodium 23 beams

**SODIUM 23 BEAMS**

INIS: 1976-07-06; ETDE: 1976-08-24

- \*BT1 ion beams  
 RT sodium 23

**SODIUM 23 REACTIONS**

INIS: 1978-09-28; ETDE: 1978-10-19

- \*BT1 heavy ion reactions

**SODIUM 23 TARGET**

ETDE: 1976-07-09

- BT1 targets

**SODIUM 24**

- \*BT1 beta-minus decay radioisotopes  
 \*BT1 hours living radioisotopes  
 \*BT1 isomeric transition isotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 sodium isotopes

**SODIUM 25**

- \*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 sodium isotopes

**SODIUM 26**

- \*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 odd-odd nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 sodium isotopes

**SODIUM 27**

- \*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 sodium isotopes

**SODIUM 28**

- \*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 sodium isotopes

**SODIUM 29**

- \*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 sodium isotopes

**SODIUM 30**

- \*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 sodium isotopes

**SODIUM 31**

- \*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 sodium isotopes

**SODIUM 32**

- \*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 sodium isotopes

**SODIUM 33**

- \*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 sodium isotopes

**SODIUM 34**

INIS: 1984-06-21; ETDE: 1984-07-10

- \*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-odd nuclei  
 \*BT1 sodium isotopes

**SODIUM 35**

INIS: 1984-02-23; ETDE: 1983-06-20

- \*BT1 beta-minus decay radioisotopes  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 odd-even nuclei  
 \*BT1 sodium isotopes

**SODIUM ADDITIONS**

Alloys containing not more than 1% Na are listed here.

- \*BT1 sodium alloys

**SODIUM ALLOYS**

Alloys containing more than 1% Na.

- UF nak

BT1 alloys  
 NT1 sodium additions  
 NT1 sodium base alloys

**sodium aminoethylthiophosphate**

INIS: 1975-11-07; ETDE: 2002-06-13

USE cystaphos

**SODIUM BASE ALLOYS**

\*BT1 sodium alloys

**SODIUM BORIDES**

\*BT1 borides  
 \*BT1 sodium compounds

**SODIUM BROMIDES**

\*BT1 bromides  
 \*BT1 sodium compounds

**SODIUM CARBIDES**

\*BT1 carbides  
 \*BT1 sodium compounds

**SODIUM CARBONATES**

UF chlor-alkali industry  
 UF soda ash  
 \*BT1 carbonates  
 \*BT1 sodium compounds  
 RT carbonate minerals  
 RT dawsonite  
 RT nahcolite  
 RT shortite  
 RT trona

**SODIUM CHLORIDES**

\*BT1 chlorides  
 \*BT1 sodium compounds  
 RT halite

**sodium citrates**

INIS: 2000-04-12; ETDE: 1977-04-12

USE citrates  
 USE sodium compounds

**SODIUM COMPLEXES**

\*BT1 alkali metal complexes

**SODIUM COMPOUNDS**

1996-10-23

UF hypaque  
 UF sodium citrates  
 UF sodium lauryl sulfates  
 UF sodium phosphides  
 UF sodium silicides  
 BT1 alkali metal compounds  
 NT1 borax  
 NT1 rochelle salt  
 NT1 sodium borides  
 NT1 sodium bromides  
 NT1 sodium carbides  
 NT1 sodium carbonates  
 NT1 sodium chlorides  
 NT1 sodium fluorides  
 NT1 sodium hydrides  
 NT1 sodium hydroxides  
 NT1 sodium iodides  
 NT1 sodium nitrates  
 NT1 sodium nitrides  
 NT1 sodium oxides  
 NT2 sodium tungsten bronze  
 NT1 sodium perchlorates  
 NT1 sodium phosphates  
 NT1 sodium selenides  
 NT1 sodium silicates  
 NT1 sodium sulfates  
 NT1 sodium sulfides  
 NT1 sodium tellurides  
 NT1 sodium tungstates  
 NT1 sodium uranates  
 NT1 tiron

**sodium cooled graphite moderated reactors**

1999-09-17

USE sgr type reactors

**SODIUM COOLED REACTORS**

\*BT1 liquid metal cooled reactors  
 NT1 beloyarsk-3 reactor  
 NT1 beloyarsk-4 reactor  
 NT1 bn-1600 reactor  
 NT1 bn-350 reactor  
 NT1 bn-800 reactor  
 NT1 bor-60 reactor  
 NT1 cdf reactor  
 NT1 clinch river breeder reactor  
 NT1 ebr-1 reactor  
 NT1 ebr-2 reactor  
 NT1 enrico fermi-1 reactor  
 NT1 ftf reactor  
 NT1 hnpf reactor  
 NT1 knk-2 reactor  
 NT1 knk reactor  
 NT1 lampre-1 reactor  
 NT1 monju reactor  
 NT1 pfr reactor  
 NT1 phenix reactor  
 NT1 rapsodie reactor  
 NT1 sbr-5 reactor  
 NT1 sefor reactor  
 NT1 ser reactor  
 NT1 sgr type reactors  
 NT2 sre reactor  
 NT1 snap 10 reactor  
 NT2 s10fs-1 reactor  
 NT2 s10fs-3 reactor  
 NT2 s10fs-4 reactor  
 NT1 snap-tsfr reactor  
 NT1 snaptran reactors  
 NT1 snr-2 reactor  
 NT1 snr reactor  
 NT1 super phenix reactor  
 NT1 zrr reactor  
 RT nak cooled reactors

**sodium cooled zirconium hydride moderated reactors**

1993-11-09

USE szr type reactors

**SODIUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 sodium compounds

**SODIUM HYDRIDES**

\*BT1 hydrides  
 \*BT1 sodium compounds

**SODIUM HYDROXIDES**

UF chlor-alkali industry  
 \*BT1 hydroxides  
 \*BT1 sodium compounds

**sodium iodide detectors**

INIS: 1979-09-18; ETDE: 1979-02-05

USE nai detectors

**SODIUM IODIDES**

\*BT1 inorganic phosphors  
 \*BT1 iodides  
 \*BT1 sodium compounds

**sodium iodohippurate**

INIS: 1975-10-23; ETDE: 1980-08-12

USE hippuran

**SODIUM IONS**

\*BT1 ions

**SODIUM ISOTOPES**

1999-07-16

BT1 isotopes

NT1 sodium 19  
 NT1 sodium 20  
 NT1 sodium 21  
 NT1 sodium 22  
 NT1 sodium 23  
 NT1 sodium 24  
 NT1 sodium 25  
 NT1 sodium 26  
 NT1 sodium 27  
 NT1 sodium 28  
 NT1 sodium 29  
 NT1 sodium 30  
 NT1 sodium 31  
 NT1 sodium 32  
 NT1 sodium 33  
 NT1 sodium 34  
 NT1 sodium 35

**sodium lauryl sulfates**

INIS: 2000-04-12; ETDE: 1980-12-08

USE sodium compounds  
 USE sulfuric acid esters

**sodium minerals**

2000-04-12

Use one of the more specific descriptors under MINERALS.

(Prior to May 1982, this was a valid ETDE descriptor.)

USE minerals

**sodium n-o-iodobenzoylaminoacetate**

INIS: 1975-10-23; ETDE: 2002-06-13

USE hippuran

**SODIUM NITRATES**

\*BT1 nitrates  
 \*BT1 sodium compounds

**SODIUM NITRIDES**

INIS: 1980-02-26; ETDE: 1977-12-22

\*BT1 nitrides  
 \*BT1 sodium compounds

**sodium orthoiodohippurate**

INIS: 1975-10-23; ETDE: 2002-06-13

USE hippuran

**SODIUM OXIDES**

\*BT1 oxides  
 \*BT1 sodium compounds  
 NT1 sodium tungsten bronze  
 RT clarkite  
 RT oxide minerals

**SODIUM PERCHLORATES**

\*BT1 perchlorates  
 \*BT1 sodium compounds

**SODIUM PHOSPHATES**

\*BT1 phosphates  
 \*BT1 sodium compounds

**sodium phosphides**

INIS: 2000-04-12; ETDE: 1984-12-26

(Prior to January 1993, this was a valid ETDE descriptor.)

USE phosphides  
 USE sodium compounds

**sodium reactor experiment**

USE sre reactor

**SODIUM SELENIDES**

INIS: 1991-09-16; ETDE: 1985-10-25

\*BT1 selenides  
 \*BT1 sodium compounds

**SODIUM SILICATES**

1996-06-26

\*BT1 silicates  
 \*BT1 sodium compounds  
 RT lavenite

RT lovozerite  
 RT pollucite  
 RT silicate minerals

**sodium silicides**

INIS: 1996-07-23; ETDE: 1976-07-07  
 (Until July 1996 this was a valid descriptor.)  
 USE silicides  
 USE sodium compounds

**SODIUM SULFATES**

1996-07-08  
 UF glauher's salt  
 \*BT1 sodium compounds  
 \*BT1 sulfates  
 RT sulfate minerals

**SODIUM SULFIDES**

\*BT1 sodium compounds  
 \*BT1 sulfides

**SODIUM-SULFUR BATTERIES**

1996-06-19  
 \*BT1 metal-nonmetal batteries

**SODIUM TELLURIDES**

INIS: 1979-02-21; ETDE: 1976-11-01  
 \*BT1 sodium compounds  
 \*BT1 tellurides

**SODIUM TUNGSTATES**

1976-10-07  
 \*BT1 sodium compounds  
 \*BT1 tungstates

**SODIUM TUNGSTEN BRONZE**

INIS: 2000-04-12; ETDE: 1979-08-09  
 One of a series of metallic substances consisting of metallic and nonmetallic elements.

UF bronze (sodium tungsten)  
 \*BT1 sodium oxides  
 \*BT1 tungsten oxides  
 RT perovskites

**SODIUM URANATES**

\*BT1 sodium compounds  
 \*BT1 uranates

**sodium-water reactions**

INIS: 2000-04-12; ETDE: 1977-04-12  
 USE molten metal-water reactions

**sodium(liquid)-water reactions**

INIS: 1977-09-15; ETDE: 2002-06-13  
 USE molten metal-water reactions

**sofc**

INIS: 2000-04-12; ETDE: 1989-04-12  
 Solid Oxide Fuel Cells.  
 USE solid oxide fuel cells

**sofia irt-2000 reactor**

INIS: 1984-07-20; ETDE: 2002-06-13  
 USE irt-sofia reactor

**soft coal**

INIS: 2000-04-12; ETDE: 1991-11-25  
 SEE bituminous coal  
 SEE brown coal  
 SEE lignite

**SOFT COMPONENT**

\*BT1 cosmic radiation

**SOFT-CORE POTENTIAL**

\*BT1 nuclear potential

**soft pion theorem**

INIS: 2000-04-12; ETDE: 1979-02-23  
 USE low-energy theorem

**soft-pion theorem**

INIS: 2000-04-12; ETDE: 1979-04-12  
 USE low-energy theorem

**soft soldering**

USE soldering

**SOFT X RADIATION**

\*BT1 x radiation

**SOIL CHEMISTRY**

INIS: 1992-03-11; ETDE: 1977-03-04  
 BT1 chemistry  
 RT agriculture  
 RT biochemistry  
 RT fertilizers  
 RT liming  
 RT soil conservation  
 RT soils

**SOIL CONSERVATION**

INIS: 1992-07-07; ETDE: 1978-04-05  
 Management of soils to optimize crop yields while improving soil texture and stability.

BT1 resource conservation  
 RT agriculture  
 RT crops  
 RT erosion  
 RT erosion control  
 RT fertilizers  
 RT irrigation  
 RT land reclamation  
 RT revegetation  
 RT sewage sludge  
 RT soil chemistry  
 RT soil mechanics  
 RT soils

**SOIL MECHANICS**

INIS: 1977-03-14; ETDE: 1976-08-04  
 Application of principles of mechanics and geology to quantify the response of soils to environmental forces.

BT1 mechanics  
 RT earth crust  
 RT ground water  
 RT overburden  
 RT rock falls  
 RT rock mechanics  
 RT sea bed  
 RT soil conservation  
 RT soils

**SOIL-STRUCTURE INTERACTIONS**

INIS: 1984-10-23; ETDE: 1984-02-10  
 RT buildings  
 RT dynamic loads  
 RT earthquakes  
 RT engineering geology  
 RT foundations  
 RT ground motion  
 RT mechanical structures  
 RT seismic effects  
 RT seismic isolation  
 RT shock waves

**soiling**

INIS: 2000-04-12; ETDE: 1982-08-11  
 USE surface contamination

**SOILS**

UF sod (soil)  
 NT1 loam  
 RT acid neutralizing capacity  
 RT aerobacter  
 RT agriculture  
 RT alluvial deposits  
 RT clays  
 RT ecosystems  
 RT embankments  
 RT environmental materials

RT fallout deposits  
 RT fulvic acids  
 RT ground water  
 RT humic acids  
 RT humus  
 RT irrigation  
 RT liming  
 RT nitrogen fixation  
 RT peat  
 RT permafrost  
 RT plants  
 RT proteus  
 RT radionuclide migration  
 RT roots  
 RT sand  
 RT soil chemistry  
 RT soil conservation  
 RT soil mechanics  
 RT terrestrial ecosystems  
 RT underground

**soja bean oil**

USE soybean oil

**SOL-GEL PROCESS**

RT colloids  
 RT fuel cycle  
 RT gelation  
 RT reprocessing

**SOLANUM**

INIS: 1979-01-18; ETDE: 1979-02-23  
 \*BT1 magnoliopsida  
 NT1 solanum tuberosum

**SOLANUM TUBEROSUM**

UF potato plant  
 \*BT1 solanum  
 RT potatoes

**SOLAR ABSORBERS**

INIS: 1992-02-22; ETDE: 1977-10-20  
 UF absorbers (solar)  
 \*BT1 solar equipment  
 RT antireflection coatings  
 RT black coatings  
 RT black liquids  
 RT black nickel  
 RT coatings  
 RT solar collectors  
 RT solar receivers  
 RT spectrally selective surfaces

**SOLAR ACCESS**

INIS: 2000-04-12; ETDE: 1980-09-22  
 The availability of sunlight to solar collectors and other solar energy systems.  
 (Prior to September 1980 this concept in ETDE was indexed by SOLAR RIGHTS.)  
 RT direct solar radiation  
 RT solar rights

**SOLAR ACTIVITY**

NT1 faculae  
 NT1 plages  
 NT1 solar flares  
 NT1 solar granulation  
 NT1 solar prominences  
 NT1 solar radio bursts  
 NT1 solar wind  
 NT1 solar x-ray bursts  
 NT1 sunspots  
 RT activity levels  
 RT solar cycle  
 RT sun

**SOLAR AIR CONDITIONERS**

2000-04-12  
 BT1 air conditioners  
 \*BT1 solar cooling systems  
 NT1 solar-assisted heat pumps  
 RT solar air conditioning

RT vuilleumier cycle

## SOLAR AIR CONDITIONING

2000-04-12

BT1 air conditioning  
RT radiative cooling  
RT solar air conditioners  
RT solar regenerators

## SOLAR AIR HEATERS

2000-04-12

*Solar collectors that use air as heat transfer fluid.*

\*BT1 air heaters  
\*BT1 solar collectors  
RT flat plate collectors  
RT passive solar heating systems

## SOLAR ALPHA PARTICLES

INIS: 1985-07-22; ETDE: 1975-08-19

(Prior to August 1985 this concept was expressed by coordination of ALPHA PARTICLES and ENERGETIC SOLAR PARTICLES.)

\*BT1 alpha particles  
\*BT1 solar particles

## SOLAR ARCHITECTURE

INIS: 1992-03-10; ETDE: 1979-12-10

*Building design that integrates the thermal, directional, and seasonal aspects of solar radiation.*

UF *building-integrated energy-producing components*  
BT1 architecture  
RT architects  
RT buildings  
RT passive solar cooling systems  
RT passive solar heating systems  
RT solar cooling systems  
RT solar energy  
RT solar heating systems

## SOLAR-ASSISTED HEAT PUMPS

INIS: 1992-08-20; ETDE: 1976-08-24

BT1 heat pumps  
\*BT1 solar air conditioners  
\*BT1 solar heating systems  
RT ground source heat pumps

## SOLAR-ASSISTED POWER SYSTEMS

INIS: 1993-01-22; ETDE: 1977-04-12

\*BT1 power systems  
RT heat engines  
RT thermal energy storage equipment

## SOLAR ATMOSPHERE

\*BT1 stellar atmospheres  
NT1 chromosphere  
NT1 heliosphere  
NT1 photosphere  
NT1 solar corona  
RT sun

## solar batteries

1992-05-29

USE solar cell arrays

## SOLAR BATTERY CHARGERS

INIS: 1992-07-23; ETDE: 1976-01-23

\*BT1 battery chargers  
\*BT1 solar equipment

## SOLAR CELL ARRAYS

1992-05-29

UF *solar batteries*  
\*BT1 solar equipment  
NT1 solar tracking systems  
RT photovoltaic cells  
RT photovoltaic power plants  
RT photovoltaic power supplies

RT solar cells

## solar cell receivers

INIS: 1992-05-29; ETDE: 1979-09-26

USE solar receivers

## SOLAR CELLS

1997-06-19

\*BT1 photovoltaic cells  
\*BT1 solar equipment  
NT1 aluminium arsenide solar cells  
NT1 back contact solar cells  
NT1 cadmium arsenide solar cells  
NT1 cadmium selenide solar cells  
NT1 cadmium sulfide solar cells  
NT1 cadmium telluride solar cells  
NT1 cascade solar cells  
NT1 concentrator solar cells  
NT1 copper oxide solar cells  
NT1 copper selenide solar cells  
NT1 copper sulfide solar cells  
NT1 gallium arsenide solar cells  
NT1 gallium phosphide solar cells  
NT1 indium phosphide solar cells  
NT1 indium selenide solar cells  
NT1 mi solar cells  
NT1 mis solar cells  
NT1 mos solar cells  
NT1 ms solar cells  
NT1 organic solar cells  
NT1 pis solar cells  
NT1 ps solar cells  
NT1 schottky barrier solar cells  
NT1 selenium solar cells  
NT1 silicon arsenide solar cells  
NT1 silicon solar cells  
NT2 soc solar cells  
NT1 zinc phosphide solar cells  
NT1 zinc sulfide solar cells  
RT combined collectors  
RT depletion layer  
RT graded band gaps  
RT photovoltaic power supplies  
RT solar cell arrays  
RT solar collectors

## solar central receivers

INIS: 1993-01-28; ETDE: 1993-02-04

USE central receivers

## SOLAR CHIMNEYS

INIS: 2000-04-12; ETDE: 1984-11-08

BT1 chimneys  
RT solar thermal power plants  
RT tornado turbines  
RT wind turbines

## SOLAR COLLECTORS

1997-06-17

\*BT1 solar equipment  
NT1 combined collectors  
NT1 concentrating collectors  
NT2 fixed mirror collectors  
NT2 parabolic collectors  
NT3 parabolic dish collectors  
NT3 parabolic trough collectors  
NT2 slat type collectors  
NT2 tower focus collectors  
NT2 v trough collectors  
NT1 evacuated collectors  
NT2 evacuated tube collectors  
NT1 flat plate collectors  
NT2 trickle-type collectors  
NT1 inflatable collectors  
NT1 solar air heaters  
NT1 solar ponds  
NT2 roof ponds  
NT1 solar tracking systems  
NT1 unglazed solar collectors  
RT black liquids

RT central receivers  
RT f-chart  
RT honeycomb structures  
RT solar absorbers  
RT solar cells  
RT solar furnaces  
RT solar receivers  
RT thermic diode solar panels

## SOLAR CONCENTRATORS

INIS: 1992-05-28; ETDE: 1975-10-28

\*BT1 solar equipment  
NT1 cassegrainian concentrators  
NT1 compound parabolic concentrators  
NT1 luminescent concentrators  
NT1 solar reflectors  
NT2 fresnel reflectors  
NT2 orbital solar reflectors  
NT2 parabolic reflectors  
NT3 parabolic dish reflectors  
NT3 parabolic trough reflectors  
RT concentrating collectors  
RT concentration ratio  
RT concentrator solar cells  
RT fresnel lens  
RT mirrors  
RT solar receivers

## SOLAR CONSTANT

1979-01-18

*Solar energy flux just outside the earth's atmosphere at the earth's mean distance from the sun.*

RT solar radiation

## SOLAR CONTROL FILMS

INIS: 2000-04-12; ETDE: 1980-02-11

BT1 films  
RT coatings  
RT heat mirrors  
RT reflective coatings  
RT windows

## SOLAR COOKERS

2000-04-12

\*BT1 solar equipment  
RT solar cooking

## SOLAR COOKING

2000-04-12

RT solar cookers  
RT solar heating

## SOLAR COOLING SYSTEMS

INIS: 1994-09-29; ETDE: 1977-07-23

\*BT1 solar equipment  
NT1 passive solar cooling systems  
NT2 bead walls  
NT2 drum walls  
NT2 roof ponds  
NT1 solar air conditioners  
NT2 solar-assisted heat pumps  
NT1 solar refrigerators  
RT cold storage  
RT solar architecture

## SOLAR CORONA

UF *corona (solar)*

\*BT1 solar atmosphere  
\*BT1 stellar coronae  
RT solar prominences  
RT solar wind  
RT sun

## SOLAR CYCLE

RT international solar maximum year  
RT solar activity  
RT sun  
RT sunspots

**SOLAR DISTILLATION**

1999-07-13

(Until July 1999 this information was indexed by SOLAR ENERGY and DISTILLATION.)

\*BT1 distillation

RT solar process heat

RT solar stills

**SOLAR DISTRICT HEATING**

INIS: 2000-04-12; ETDE: 1979-09-26

District heating using a solar source for all or part of the heat supply.

\*BT1 district heating

\*BT1 solar heating

RT central heating plants

RT solar heating systems

RT solar space heating

**solar domestic water heating**

INIS: 2000-04-12; ETDE: 1977-12-22

USE solar water heating

**SOLAR DRYERS**

2000-04-12

Dryers using a solar heat source, primarily used for crop drying. For wood drying, use solar kilns.

BT1 dryers

\*BT1 solar equipment

RT solar furnaces

RT solar process heat

**SOLAR DRYING**

INIS: 1976-10-07; ETDE: 1975-11-11

BT1 drying

RT solar heating

RT solar process heat

**SOLAR ELECTRIC PROPULSION**

2000-04-12

BT1 propulsion

**solar electron events**

(Prior to August 1985 this concept was expressed by coordination of ELECTRONS and ENERGETIC SOLAR PARTICLES.)

USE solar electrons

**SOLAR ELECTRONS**

INIS: 1985-07-22; ETDE: 1975-08-19

(Prior to August 1985 this concept was expressed by coordination of ELECTRONS and ENERGETIC SOLAR PARTICLES.)

UF solar electron events

\*BT1 electrons

\*BT1 solar particles

**SOLAR ENERGY**

BT1 energy

\*BT1 renewable energy sources

RT national renewable energy laboratory

RT solar architecture

RT solar heating

RT solar industry

RT solar radiation

RT solar rights

RT sun

**SOLAR ENERGY CONVERSION**

1991-12-11

\*BT1 energy conversion

NT1 ocean thermal energy conversion

NT1 solar thermal conversion

RT photoelectrolysis

**solar energy information data bank**

INIS: 2000-04-12; ETDE: 1981-07-18

USE seidb

**solar energy research institute**

INIS: 1994-06-13; ETDE: 1978-02-14

(Until June 1994 this was a valid descriptor.)

USE national renewable energy laboratory

**SOLAR EQUIPMENT**

INIS: 1992-02-22; ETDE: 1980-03-04

BT1 equipment

NT1 heliostats

NT2 solar tracking systems

NT1 photovoltaic power supplies

NT1 pyranometers

NT1 pyrhemometers

NT1 solar absorbers

NT1 solar battery chargers

NT1 solar cell arrays

NT2 solar tracking systems

NT1 solar cells

NT2 aluminium arsenide solar cells

NT2 back contact solar cells

NT2 cadmium arsenide solar cells

NT2 cadmium selenide solar cells

NT2 cadmium sulfide solar cells

NT2 cadmium telluride solar cells

NT2 cascade solar cells

NT2 concentrator solar cells

NT2 copper oxide solar cells

NT2 copper selenide solar cells

NT2 copper sulfide solar cells

NT2 gallium arsenide solar cells

NT2 gallium phosphide solar cells

NT2 indium phosphide solar cells

NT2 indium selenide solar cells

NT2 mi solar cells

NT2 mis solar cells

NT2 mos solar cells

NT2 ms solar cells

NT2 organic solar cells

NT2 pis solar cells

NT2 ps solar cells

NT2 schottky barrier solar cells

NT2 selenium solar cells

NT2 silicon arsenide solar cells

NT2 silicon solar cells

NT3 soc solar cells

NT2 zinc phosphide solar cells

NT2 zinc sulfide solar cells

NT1 solar collectors

NT2 combined collectors

NT2 concentrating collectors

NT3 fixed mirror collectors

NT3 parabolic collectors

NT4 parabolic dish collectors

NT4 parabolic trough collectors

NT3 slat type collectors

NT3 tower focus collectors

NT3 v trough collectors

NT2 evacuated collectors

NT3 evacuated tube collectors

NT2 flat plate collectors

NT3 trickle-type collectors

NT2 inflatable collectors

NT2 solar air heaters

NT2 solar ponds

NT3 roof ponds

NT2 solar tracking systems

NT2 unglazed solar collectors

NT1 solar concentrators

NT2 cassegrainian concentrators

NT2 compound parabolic concentrators

NT2 luminescent concentrators

NT2 solar reflectors

NT3 fresnel reflectors

NT3 orbital solar reflectors

NT3 parabolic reflectors

NT4 parabolic dish reflectors

NT4 parabolic trough reflectors

NT1 solar cookers

NT1 solar cooling systems

NT2 passive solar cooling systems

NT3 bead walls

NT3 drum walls

NT3 roof ponds

NT2 solar air conditioners

NT3 solar-assisted heat pumps

NT2 solar refrigerators

NT1 solar dryers

NT1 solar furnaces

NT1 solar heating systems

NT2 passive solar heating systems

NT3 bead walls

NT3 direct gain systems

NT3 drum walls

NT3 roof ponds

NT3 thermic diode solar panels

NT3 trombe walls

NT3 water walls

NT2 solar-assisted heat pumps

NT1 solar kilns

NT1 solar regenerators

NT1 solar simulators

NT1 solar stills

NT1 solar water heaters

NT2 passive solar water heaters

NT3 thermic diode solar panels

NT1 solar water pumps

NT1 spectrally selective surfaces

RT photoelectrochemical cells

RT thermal energy storage equipment

**SOLAR FLARES**

BT1 solar activity

\*BT1 stellar flares

RT chromosphere

RT forrush decrease

RT magnetic reconnection

RT solar particles

RT solar radiation

RT solar radio bursts

RT solar wind

RT solar x-ray bursts

RT space flight

RT sun

RT sunspots

RT supersonic transport

**SOLAR FLUX**

1992-04-08

BT1 radiation flux

NT1 diffuse solar radiation

NT1 direct solar radiation

RT insolation

RT pyrheliometers

RT shading

RT solar radiation

RT solar simulators

**SOLAR FRACTION**

INIS: 2000-04-12; ETDE: 1981-05-18

Ratio of solar contribution to net thermal load.

RT energy conservation

RT heat gain

RT heating load

**SOLAR FURNACES**

1997-06-17

BT1 furnaces

\*BT1 solar equipment

RT cnrs solar facility

RT solar collectors

RT solar dryers

RT solar process heat

RT white sands solar facility

**SOLAR GRANULATION**

Small "rice grain" structures on the photosphere of the Sun.

UF granulation (solar)

UF supergranulation



BT1 solar activity  
 RT photosphere  
 RT sun

**SOLAR HEAT ENGINES**

1992-05-21

\*BT1 heat engines  
 RT brayton cycle power systems  
 RT nitinol heat engines  
 RT regeneration  
 RT regenerators  
 RT solar thermal conversion  
 RT stirling engines

**SOLAR HEATING**

1992-09-07

(Until September 1992, this concept was indexed by HEATING and SOLAR ENERGY.)

BT1 heating  
 NT1 solar district heating  
 NT1 solar space heating  
 NT1 solar water heating  
 RT cooling load  
 RT heating load  
 RT solar cooking  
 RT solar drying  
 RT solar energy

**SOLAR HEATING SYSTEMS**

INIS: 1992-08-20; ETDE: 1975-11-11

SF freeze-cycle system  
 \*BT1 heating systems  
 \*BT1 solar equipment  
 NT1 passive solar heating systems  
 NT2 bead walls  
 NT2 direct gain systems  
 NT2 drum walls  
 NT2 roof ponds  
 NT2 thermic diode solar panels  
 NT2 trombe walls  
 NT2 water walls  
 NT1 solar-assisted heat pumps  
 RT f-chart  
 RT solar architecture  
 RT solar district heating  
 RT solar process heat  
 RT solar space heating

**SOLAR INDUSTRY**

INIS: 1993-01-21; ETDE: 1977-12-22

BT1 industry  
 RT solar energy

**SOLAR KILNS**

2000-04-12

BT1 kilns  
 \*BT1 solar equipment  
 RT drying  
 RT solar process heat

**solar models**

INIS: 1975-10-23; ETDE: 1975-12-16

USE star models

**SOLAR NEBULA**

BT1 nebulae  
 RT cosmological models  
 RT protoplanets  
 RT solar system evolution

**SOLAR NEUTRINOS**

INIS: 1985-07-22; ETDE: 1975-07-29

(Prior to August 1985 this concept was expressed by coordination of ENERGETIC SOLAR PARTICLES and NEUTRINOS.)

\*BT1 neutrinos  
 \*BT1 solar particles

**SOLAR NEUTRONS**

INIS: 1985-07-22; ETDE: 1976-04-19

(Prior to August 1985 this concept was expressed by coordination of ENERGETIC SOLAR PARTICLES and NEUTRONS.)

\*BT1 neutrons  
 \*BT1 solar particles

**solar occultation**

USE eclipse

**solar one power plant**

INIS: 2000-04-12; ETDE: 1983-04-07

USE barstow solar pilot plant

**SOLAR PARTICLES**

1985-11-18

(Prior to December 1985 SOLAR RADIATION was used for this concept except where ENERGETIC SOLAR PARTICLES was appropriate.)

UF energetic solar particles  
 \*BT1 solar radiation  
 NT1 solar alpha particles  
 NT1 solar electrons  
 NT1 solar neutrinos  
 NT1 solar neutrons  
 NT1 solar protons  
 RT polar-cap absorption  
 RT solar flares

**SOLAR PHOTOCHEMISTRY**

2005-05-25

\*BT1 photochemistry  
 RT photochemical energy storage  
 RT solar radiation

**SOLAR PONDS**

INIS: 2000-05-08; ETDE: 1975-09-11

\*BT1 ponds  
 \*BT1 solar collectors  
 NT1 roof ponds  
 RT inflatable collectors  
 RT solar water heaters

**SOLAR POWER PLANTS**

1976-07-06

BT1 power plants  
 NT1 ocean thermal power plants  
 NT1 orbital solar power plants  
 NT1 photovoltaic power plants  
 NT1 salinity gradient power plants  
 NT1 solar thermal power plants  
 NT2 distributed collector power plants  
 NT2 tower focus power plants  
 NT3 barstow solar pilot plant  
 RT orbital solar reflectors

**SOLAR PROCESS HEAT**

INIS: 2000-04-12; ETDE: 1978-03-03

\*BT1 process heat  
 RT solar distillation  
 RT solar dryers  
 RT solar drying  
 RT solar furnaces  
 RT solar heating systems  
 RT solar kilns  
 RT solar stills  
 RT solar water heaters

**SOLAR PROMINENCES**

UF prominences (solar)  
 UF spicules  
 BT1 solar activity  
 RT solar corona  
 RT sun

**solar proton events**

(Prior to August 1985 this concept was expressed by coordination of ENERGETIC SOLAR PARTICLES and PROTONS.)  
 USE solar protons

**SOLAR PROTONS**

INIS: 1985-07-22; ETDE: 1975-07-29

(Prior to August 1985 this concept was expressed by coordination of ENERGETIC SOLAR PARTICLES and PROTONS.)

UF solar proton events  
 UF spe  
 \*BT1 protons  
 \*BT1 solar particles

**SOLAR RADIATION**

\*BT1 stellar radiation  
 NT1 diffuse solar radiation  
 NT1 direct solar radiation  
 NT1 solar particles  
 NT2 solar alpha particles  
 NT2 solar electrons  
 NT2 solar neutrinos  
 NT2 solar neutrons  
 NT2 solar protons  
 NT1 solar radiowave radiation  
 RT cosmic radiation  
 RT daylighting  
 RT insolation  
 RT pyranometers  
 RT solar constant  
 RT solar energy  
 RT solar flares  
 RT solar flux  
 RT solar photochemistry  
 RT solar radio bursts  
 RT solar wind  
 RT solar x-ray bursts  
 RT sun  
 RT sun charts  
 RT zodiacal light

**SOLAR RADIO BURSTS**

\*BT1 radiowave radiation  
 BT1 solar activity  
 RT magnetic reconnection  
 RT radioastronomy  
 RT solar flares  
 RT solar radiation  
 RT solar radiowave radiation  
 RT sun

**SOLAR RADIO WAVE RADIATION**

INIS: 1976-03-17; ETDE: 1975-08-19

\*BT1 radiowave radiation  
 \*BT1 solar radiation  
 RT solar radio bursts

**SOLAR RECEIVERS**

INIS: 1992-05-28; ETDE: 1979-09-26

Systems designed to receive concentrated sunlight and convert it to some other energy form. They incorporate an absorber or a concentrator solar cell assembly.

UF receivers (solar)  
 UF solar cell receivers  
 UF solar thermal receivers  
 NT1 cavity receivers  
 NT1 central receivers  
 NT1 external receivers  
 RT concentrating collectors  
 RT concentrator solar cells  
 RT solar absorbers  
 RT solar collectors  
 RT solar concentrators  
 RT solar thermal conversion

**SOLAR REFLECTORS**

1992-07-09

\*BT1 solar concentrators

NT1 fresnel reflectors  
 NT1 orbital solar reflectors  
 NT1 parabolic reflectors  
 NT2 parabolic dish reflectors  
 NT2 parabolic trough reflectors  
 RT mirrors  
 RT optical systems

## SOLAR REFRIGERATION

1994-09-29

\*BT1 refrigeration  
 RT solar refrigerators

## SOLAR REFRIGERATORS

1994-09-29

BT1 refrigerators  
 \*BT1 solar cooling systems  
 RT solar refrigeration

## SOLAR REGENERATORS

INIS: 2000-04-12; ETDE: 1979-07-18

*Systems or devices for regenerating absorbent solutions by solar heating; used in absorption solar air conditioning.*

BT1 regenerators  
 \*BT1 solar equipment  
 RT solar air conditioning

## SOLAR REPOWERING

INIS: 2000-04-12; ETDE: 1980-10-07

*The adaptation of a solar thermal steam supply system into an existing thermal power plant.*

(Prior to October 1980 this concept in ETDE was indexed by RETROFITTING.)

SF repowering  
 RT fossil-fuel power plants  
 RT retrofitting  
 RT solar thermal power plants

## SOLAR RIGHTS

INIS: 2000-04-12; ETDE: 1978-04-05

*The legal right to solar access.*

RT laws  
 RT legal aspects  
 RT ownership  
 RT solar access  
 RT solar energy

## solar sea power plants

INIS: 1991-12-11; ETDE: 1977-04-12

USE ocean thermal power plants

## SOLAR SIMULATORS

INIS: 2000-04-12; ETDE: 1975-12-16

*Equipment to simulate the solar flux for test purposes.*

\*BT1 simulators  
 \*BT1 solar equipment  
 RT insolation  
 RT solar flux

## SOLAR SPACE HEATING

1992-09-07

\*BT1 solar heating  
 \*BT1 space heating  
 RT solar district heating  
 RT solar heating systems

## SOLAR STILLS

2000-04-12

*Distillation apparatuses that use solar radiation heating to evaporate the water. Can be used for water purification or desalting.*

BT1 evaporators  
 \*BT1 solar equipment  
 RT solar distillation  
 RT solar process heat

## SOLAR SYSTEM

RT asteroids  
 RT comets

RT halley comet  
 RT interplanetary space  
 RT meteoroids  
 RT planets  
 RT solar system evolution  
 RT sun

## SOLAR SYSTEM EVOLUTION

(From November 1975 till March 1997 PLANETARY EVOLUTION was a valid ETDE descriptor.)

UF planetary evolution  
 BT1 evolution  
 RT planet-system accretion  
 RT protoplanets  
 RT solar nebula  
 RT solar system  
 RT star evolution

## SOLAR THERMAL CONVERSION

INIS: 1992-04-07; ETDE: 1981-09-08

*Use for overviews of solar thermal program.*

\*BT1 solar energy conversion  
 RT solar heat engines  
 RT solar receivers  
 RT solar thermal power plants

## SOLAR THERMAL POWER PLANTS

1992-03-11

\*BT1 solar power plants  
 \*BT1 thermal power plants  
 NT1 distributed collector power plants  
 NT1 tower focus power plants  
 NT2 barstow solar pilot plant  
 RT microgeneration  
 RT solar chimneys  
 RT solar repowering  
 RT solar thermal conversion

## solar thermal receivers

INIS: 1992-05-29; ETDE: 1979-09-26

USE solar receivers

## solar thermal test facility

INIS: 2000-04-12; ETDE: 1981-07-18

USE central receiver test facility

## SOLAR TRACKING

2000-04-12

NT1 solar tracking systems  
 RT control equipment  
 RT heliostats  
 RT tilt mechanisms

## SOLAR TRACKING SYSTEMS

INIS: 2000-04-12; ETDE: 1983-02-09

\*BT1 heliostats  
 \*BT1 solar cell arrays  
 \*BT1 solar collectors  
 BT1 solar tracking

## SOLAR WATER HEATERS

1997-06-17

SF freeze-cycle system  
 \*BT1 solar equipment  
 \*BT1 water heaters  
 NT1 passive solar water heaters  
 NT2 thermic diode solar panels  
 RT f-chart  
 RT solar ponds  
 RT solar process heat  
 RT solar water heating

## SOLAR WATER HEATING

INIS: 1992-09-07; ETDE: 1977-12-22

*Use for solar domestic water heating; not for process hot water.*

UF solar domestic water heating  
 \*BT1 solar heating  
 \*BT1 water heating  
 RT solar water heaters

## SOLAR WATER PUMPS

1992-04-10

\*BT1 solar equipment  
 \*BT1 water pumps

## SOLAR WIND

BT1 solar activity  
 \*BT1 stellar winds  
 RT chapman-ferraro problem  
 RT expansion  
 RT forrush decrease  
 RT geocorona  
 RT loss cone  
 RT magnetosheath  
 RT plasma  
 RT radiation pressure  
 RT solar corona  
 RT solar flares  
 RT solar radiation  
 RT sun

## SOLAR X-RAY BURSTS

BT1 solar activity  
 RT magnetic reconnection  
 RT solar flares  
 RT solar radiation  
 RT sun  
 RT x radiation

## SOLAS CONVENTION

*London Convention on Safety of Life at Sea.*

UF london safety of life at sea convention  
 UF safety of life at sea convention  
 UF sea, safety of life at, convention  
 \*BT1 international agreements  
 RT civil liability  
 RT nuclear ships  
 RT recommendations  
 RT regulations

## solder fluxes

INIS: 2000-04-12; ETDE: 1975-08-19

(Prior to October 1981, this was a valid ETDE descriptor.)

USE metallurgical flux

## SOLDERED JOINTS

BT1 joints  
 RT soldering

## SOLDERING

UF soft soldering  
 \*BT1 welding  
 RT brazing  
 RT soldered joints

## soldering fluxes

INIS: 1981-08-06; ETDE: 1981-09-22

USE metallurgical flux

## SOLENOIDS

UF inductors  
 UF superconducting solenoids  
 \*BT1 electric coils  
 RT actuators  
 RT magnet coils

## SOLFATARAS

2000-04-12

*Fumaroles, the gases of which are characteristically sulfurous.*

BT1 fumaroles

## solfrac process

INIS: 2000-04-12; ETDE: 1977-01-28

*Combination of chemical explosive fracturing and solvent injection for heavy-oil recovery.*

(Prior to January 1995, this was a valid ETDE descriptor.)

USE enhanced recovery  
 USE explosive fracturing

**SOLID CLUSTERS**

UF clusters (solid)  
RT solids

**SOLID ELECTROLYTE FUEL CELLS**

INIS: 1992-05-20; ETDE: 1989-04-12

(Prior to April 1989 this subject was indexed to HIGH-TEMPERATURE FUELS or FUEL CELLS.)

\*BT1 fuel cells  
NT1 proton exchange membrane fuel cells  
NT1 solid oxide fuel cells

**SOLID ELECTROLYTES**

INIS: 1981-10-15; ETDE: 1979-05-09

BT1 electrolytes  
RT electric batteries  
RT fuel cells

**SOLID FUELS**

1999-05-06

BT1 fuels  
NT1 alloy nuclear fuels  
NT2 uranium-molybdenum fuels  
NT1 briquets  
NT1 dispersion nuclear fuels  
NT1 mixed carbide fuels  
NT1 mixed nitride fuels  
NT1 mixed oxide fuels  
NT1 peat  
NT1 wood fuels  
RT bark  
RT biomass  
RT charcoal  
RT coal  
RT coke  
RT pulverized fuels  
RT wood

**SOLID HOMOGENEOUS REACTORS**

\*BT1 homogeneous reactors  
NT1 acpr reactor  
NT1 aerogjet-general nucleonics reactors  
NT1 akr-1 reactor  
NT1 anex reactor  
NT1 ebor reactor  
NT1 nsrr reactor  
NT1 pebble bed reactors  
NT2 avr reactor  
NT2 thtr-300 reactor  
NT2 vg-400 reactor  
NT2 vgr-50 reactor  
NT1 romashka reactor  
NT1 shca reactor  
NT1 sur-100 series reactor  
NT1 treat reactor  
NT1 triga type reactors  
NT2 affri reactor  
NT2 atrp reactor  
NT2 colorado triga-mk-3 reactor  
NT2 cornell triga-mk-2 reactor  
NT2 dow triga-mk-1 reactor  
NT2 fir-1 reactor  
NT2 frf-2 reactor  
NT2 frn reactor  
NT2 gulf triga-mk-3 reactor  
NT2 kartini-ppny reactor  
NT2 lopra reactor  
NT2 nscr reactor  
NT2 ostr reactor  
NT2 prpr reactor  
NT2 pstr reactor  
NT2 rtp reactor  
NT2 trico reactor  
NT2 triga-1-arizona reactor  
NT2 triga-1-california reactor  
NT2 triga-1-hanford reactor  
NT2 triga-1-hanover reactor  
NT2 triga-1-heidelberg reactor  
NT2 triga-1-michigan reactor

NT2 triga-2-bandung reactor  
NT2 triga-2-bangladesh reactor  
NT2 triga-2-dalat reactor  
NT2 triga-2-illinois reactor  
NT2 triga-2-kansas reactor  
NT2 triga-2-ljubljana reactor  
NT2 triga-2-mainz reactor  
NT2 triga-2-musashi reactor  
NT2 triga-2-pavia reactor  
NT2 triga-2-pitesti reactor  
NT2 triga-2 reactor  
NT2 triga-2-rikkyo reactor  
NT2 triga-2-rome reactor  
NT2 triga-2-seoul reactor  
NT2 triga-2-vienna reactor  
NT2 triga-3-la jolla reactor  
NT2 triga-3-munich reactor  
NT2 triga-3-salazar reactor  
NT2 triga-3-seoul reactor  
NT2 triga-brazil reactor  
NT2 triga-texas reactor  
NT2 triga-veterans reactor  
NT2 ucbr reactor  
NT2 uwnr reactor  
NT2 wsur reactor

**SOLID LUBRICANTS**

BT1 lubricants  
RT graphite

**solid moderated reactor**

2000-04-12

SEE graphite moderated reactors

**SOLID OXIDE FUEL CELLS**

INIS: 2000-04-12; ETDE: 1999-09-09

UF sofc  
\*BT1 high-temperature fuel cells  
\*BT1 solid electrolyte fuel cells

**SOLID SCINTILLATION DETECTORS**

\*BT1 scintillation counters  
NT1 bgo detectors  
NT1 nai detectors  
NT1 plastic scintillation detectors  
RT glass scintillators  
RT inorganic phosphors  
RT organic crystal phosphors

**SOLID SOLUTIONS**

\*BT1 solutions  
RT alloys  
RT austenite  
RT ferrite  
RT phase diagrams  
RT solids  
RT superlattices

**SOLID STATE LASERS**

1997-06-05

BT1 lasers  
NT1 diode-pumped solid state lasers  
NT1 neodymium lasers  
NT1 ruby lasers  
NT1 semiconductor lasers  
RT us national ignition facility

**SOLID STATE PHYSICS**

INIS: 1976-08-17; ETDE: 1976-02-19

Use only for articles of a very broad nature such as an annual research program, etc.

BT1 physics  
RT crystal structure

**SOLID-STATE PLASMA**

1999-10-07

UF electron-hole plasma  
BT1 plasma  
NT1 electron-hole droplets  
RT electron gas

RT plasmons

**SOLID WASTES**

UF refuse  
SF emissions (industrial)  
BT1 wastes  
NT1 mineral wastes  
NT2 culm  
NT1 scrap  
NT2 scrap metals  
NT1 spoil banks  
NT1 tailings  
NT2 mill tailings  
NT2 oil sand tailings  
NT1 waste pellets  
NT1 wood wastes  
RT ashes  
RT biological wastes  
RT calcined wastes  
RT combustion products  
RT dredge spoil  
RT emissions tax  
RT fly ash  
RT ground disposal  
RT industrial wastes  
RT landgard pyrolysis system  
RT municipal wastes  
RT organic wastes  
RT purox pyrolysis process  
RT refuse derived fuels  
RT spent shales  
RT waste disposal  
RT waste disposal acts  
RT waste forms

**SOLIDIFICATION**

UF fixation (waste treatment)  
SF immobilization (wastes)  
BT1 phase transformations  
RT castings  
RT ceramic melters  
RT crystallization  
RT freezing  
RT frost  
RT harvest process  
RT melting  
RT segregation  
RT solids  
RT vitrification  
RT waste processing

**SOLIDS**

RT crystals  
RT dispersions  
RT glass  
RT microstructure  
RT nanostructures  
RT phase diagrams  
RT solid clusters  
RT solid solutions  
RT solidification  
RT structure factors

**SOLIDS FLOW**

INIS: 2000-05-19; ETDE: 1985-04-09

BT1 fluid flow  
RT hydraulics  
RT materials handling

**SOLINOX PROCESS**

INIS: 2000-04-12; ETDE: 1985-12-13

\*BT1 desulfurization  
RT denitrification

**SOLITONS**

Stable, shape preserving and localized solutions of nonlinear classical field equations of recent interest as possible models of extended elementary particles.

UF skyrmions  
BT1 quasi particles

RT baeklund transformation  
 RT extended particle model  
 RT field equations  
 RT instantons  
 RT phonons  
 RT shock waves

**SOLS**

\*BT1 colloids  
 NT1 aerosols  
 NT2 radioactive aerosols  
 NT2 smokes  
 NT3 tobacco smokes  
 RT solutions

**SOLUBILITY**

UF miscibility  
 RT crystallization  
 RT dissolution  
 RT leaching  
 RT mixing  
 RT precipitation  
 RT saturation  
 RT solutes  
 RT solutions  
 RT solvent properties  
 RT solvents  
 RT supersaturation

**SOLUBLE POISONS**

\*BT1 nuclear poisons  
 RT fluid poison control  
 RT scram

**SOLUTES**

INIS: 1986-05-23; ETDE: 1982-03-10  
 UF dissolved materials  
 UF dissolved solids  
 NT1 dissolved gases  
 RT additives  
 RT dissolution  
 RT solubility  
 RT solutions  
 RT solvents

**SOLUTION HEAT**

UF heat of solution  
 \*BT1 enthalpy  
 RT mixing heat

**SOLUTION MINING**

INIS: 1976-07-16; ETDE: 1976-02-19  
 \*BT1 in-situ processing  
 BT1 mining  
 RT leaching  
 RT solvent extraction  
 RT uranium ores

**SOLUTIONS**

1999-10-11  
 For chemical solutions only. For mathematics see the word block of MATHEMATICAL SOLUTIONS.

\*BT1 homogeneous mixtures  
 NT1 aqueous solutions  
 NT1 fuel solutions  
 NT1 hypertonic solutions  
 NT1 isotonic solutions  
 NT1 leachates  
 NT1 process solutions  
 NT1 solid solutions  
 RT brines  
 RT buffers  
 RT dilution  
 RT dissolution  
 RT organic solvents  
 RT saturation  
 RT sols  
 RT solubility  
 RT solutes  
 RT solvents

RT supersaturation

**solvation**

USE solvation

**SOLVATED ELECTRONS**

UF hydrated electrons  
 \*BT1 electrons  
 RT solvation

**SOLVATION**

The chemical union of a dissolved substance and its dissolving liquid.

UF solvation  
 NT1 hydration  
 RT nonaqueous solvents  
 RT solvated electrons

**SOLVENT EXTRACTION**

1996-07-18  
 UF cosorb process  
 UF extraction (solvent)  
 UF liquid-liquid extraction  
 SF arco process  
 \*BT1 extraction  
 NT1 phenosolvan process  
 NT1 supercritical gas extraction  
 RT amex process  
 RT civex process  
 RT cmpo  
 RT counter current  
 RT crown ethers  
 RT csrex process  
 RT dapex process  
 RT diamex process  
 RT dissolution  
 RT distribution functions  
 RT entrainment  
 RT eurex process  
 RT extraction apparatuses  
 RT hydrometallurgy  
 RT leachates  
 RT leaching  
 RT partition  
 RT podbielniak contactors  
 RT purex process  
 RT redox process  
 RT reprocessing  
 RT salting-out agents  
 RT solution mining  
 RT solvent properties  
 RT talspeak process  
 RT thorex process  
 RT tramex process  
 RT truex process  
 RT zirflex process

**SOLVENT PROPERTIES**

1994-06-27  
 RT dissolution  
 RT solubility  
 RT solvent extraction  
 RT solvents

**SOLVENT-REFINED COAL**

2000-04-12  
 BT1 fuels  
 RT coal  
 RT coal preparation plants  
 RT lc-fining  
 RT src process

**solvent-refined coal process**

2000-04-12  
 USE src process

**solvent-refining coal plants**

INIS: 2000-03-29; ETDE: 1979-05-31  
 SEE coal preparation plants  
 SEE src process

**SOLVENTS**

UF diluents  
 UF polar solvents  
 NT1 mixed solvents  
 NT1 nonaqueous solvents  
 NT2 organic solvents  
 NT3 cellosolves  
 NT3 solvesso  
 NT3 turpentine  
 RT dissolution  
 RT solubility  
 RT solutes  
 RT solutions  
 RT solvent properties

**SOLVESSO**

\*BT1 organic solvents  
 RT aromatics

**SOLVOLYSIS**

\*BT1 decomposition  
 NT1 acetolysis  
 NT1 ammonolysis  
 NT1 hydrolysis  
 NT2 acid hydrolysis  
 NT2 alkaline hydrolysis  
 NT2 autohydrolysis  
 NT2 enzymatic hydrolysis  
 NT2 saccharification  
 NT2 saponification

**SOMALIA**

BT1 africa  
 BT1 arab countries  
 BT1 developing countries

**SOMATIC CELLS**

BT1 animal cells  
 NT1 cho cells  
 NT1 connective tissue cells  
 NT2 bone cells  
 NT2 bone marrow cells  
 NT2 fat cells  
 NT2 fibroblasts  
 NT2 lymphocytes  
 NT2 macrophages  
 NT2 mast cells  
 NT2 plasma cells  
 NT1 crypt cells  
 NT1 liver cells  
 NT1 nerve cells  
 NT1 phagocytes  
 NT2 macrophages  
 NT1 respiratory tract cells  
 NT1 spleen cells  
 NT1 stem cells  
 NT1 thymocytes  
 NT1 thymus cells  
 NT1 thyroid cells

**SOMATIC MUTATIONS**

BT1 mutations

**SOMATICALLY SIGNIFICANT DOSE**

INIS: 1976-01-28; ETDE: 1990-11-26  
 \*BT1 radiation doses  
 RT radiation hazards

**SOMATOSTATIN**

INIS: 1980-05-14; ETDE: 1979-02-05  
 UF growth hormone-release inhibiting factor  
 UF somatotropin release inhibiting factor  
 RT hormones  
 RT polypeptides  
 RT sth

**somatotropic hormone**

USE sth

**somatotropin release inhibiting factor**

INIS: 1993-11-09; ETDE: 1979-02-05  
USE somatostatin

**SOMMERFELD CONSTANT**

UF *sommerfeld fine structure constant*  
BT1 dimensionless numbers  
RT fine structure

**sommerfeld fine structure constant**

USE sommerfeld constant

**sommerfeld integrals**

INIS: 2000-04-12; ETDE: 1975-10-01  
In addition to the descriptor below, use ANTENNAS if relevant.  
(Prior to May 1996 this was a valid ETDE descriptor.)

USE integrals

**SOMMERFELD-WATSON THEORY**

UF *watson method*  
RT quantum mechanics

**SONAR**

INIS: 1994-07-01; ETDE: 1976-11-01  
(Until June 1994 this concept was indexed to RANGE FINDERS.)

UF *sound navigation and ranging*  
\*BT1 range finders  
RT electrical equipment  
RT electronic equipment  
RT frequency range  
RT sound waves

**sondes**

INIS: 2000-04-12; ETDE: 1978-05-03  
USE probes

**SONIC LOGGING**

INIS: 1984-04-04; ETDE: 1976-06-07  
BT1 well logging  
RT acoustic measurements  
RT acoustic monitoring  
RT seismic sources  
RT sonic probes

**sonic measurements**

INIS: 1991-09-18; ETDE: 1976-07-07  
USE acoustic measurements

**SONIC PROBES**

INIS: 1975-08-22; ETDE: 1975-10-01  
BT1 probes  
RT acoustic measurements  
RT ion acoustic waves  
RT plasma diagnostics  
RT sonic logging

**SONIC SPARK CHAMBERS**

UF *acoustic spark chambers*  
\*BT1 filmless spark chambers

**SOOT**

INIS: 2000-04-05; ETDE: 1976-07-07  
BT1 combustion products  
RT air pollution  
RT carbon compounds  
RT coal  
RT smokes

**SORA REACTOR**

\*BT1 fast reactors  
\*BT1 pulsed reactors  
\*BT1 research reactors  
RT neutron sources

**SORBENT INJECTION PROCESSES**

INIS: 1992-07-20; ETDE: 1990-03-30  
\*BT1 desulfurization  
RT adsorbents

**SORBENT RECOVERY SYSTEMS**

INIS: 1992-03-09; ETDE: 1978-01-23  
Recovery using sorptive materials.

RT adsorbents  
RT oil spills  
RT sorption  
RT water pollution control

**SORBIC ACID**

\*BT1 monocarboxylic acids

**SORBITOL**

\*BT1 diuretics  
\*BT1 monosaccharides  
RT sorbose

**SORBOSE**

\*BT1 hexoses  
\*BT1 ketones  
RT sorbitol

**SOREQ NUCLEAR RESEARCH CENTER**

INIS: 1979-12-20; ETDE: 1979-11-23  
\*BT1 israel atomic energy commission

**SORGHUM**

\*BT1 cereals

**SORPTION**

INIS: 1992-03-10; ETDE: 1976-08-25

NT1 adsorption  
NT2 energy absorption  
NT2 intestinal absorption  
NT2 k absorption  
NT2 polar-cap adsorption  
NT2 resonance absorption  
NT2 root adsorption  
NT2 self-adsorption  
NT2 skin adsorption  
NT1 adsorption  
NT1 chemisorption  
NT1 desorption  
RT sorbent recovery systems  
RT sorptive properties

**SORPTIVE PROPERTIES**

1992-02-23  
UF *adsorptive properties*  
BT1 surface properties  
RT adsorbents  
RT adsorbents  
RT adsorption  
RT bioadsorbents  
RT sorption

**SORTING**

INIS: 1986-04-04; ETDE: 1975-10-01  
NT1 radiometric sorting  
RT classification  
RT concentrators  
RT filters  
RT jigs  
RT particle size classifiers  
RT screening  
RT screens  
RT separation processes

**soulaines plant**

INIS: 1993-04-19; ETDE: 2002-06-13  
USE aube plant

**SOULTZ-SOUS-FORETS GEOTHERMAL FIELD**

2005-02-21  
Bas-Rhin, France.  
BT1 geothermal fields  
RT france

**sound**

USE sound waves

**sound navigation and ranging**

INIS: 1994-07-01; ETDE: 1976-11-02  
USE sonar

**SOUND WAVES**

1997-04-30  
See also FOURTH SOUND, SECOND SOUND, and THIRD SOUND.

UF *first sound*  
UF *sound*  
NT1 ultrasonic waves  
RT acoustic agglomerators  
RT acoustic detection  
RT acoustic esr  
RT acoustic measurements  
RT acoustic monitoring  
RT acoustic nmr  
RT acoustic radar  
RT acoustics  
RT fifth sound  
RT fourth sound  
RT frequency mixing  
RT harmonic generation  
RT ion acoustic waves  
RT magnetoacoustics  
RT second sound  
RT seismic sources  
RT signal distortion  
RT sonar  
RT speech  
RT speech synthesizers  
RT third sound  
RT zero sound

**soundproofing**

1995-07-03  
USE acoustic insulation

**sour crude oil**

INIS: 1993-03-23; ETDE: 1993-04-16  
USE sour crudes

**SOUR CRUDES**

INIS: 1993-03-23; ETDE: 1976-03-11  
Crude oils containing an abnormally large amount of sulfur and sulfur compounds.  
UF *high-sulfur crude oil*  
UF *sour crude oil*  
\*BT1 petroleum  
RT hydrogen sulfides  
RT sulfur

**SOURCE ROCKS**

INIS: 2000-04-12; ETDE: 1981-11-10  
RT reservoir rock  
RT rocks

**SOURCE TERMS**

INIS: 1985-11-19; ETDE: 1985-12-13  
Activities and amounts of the different radionuclides per unit time leaving a nuclear installation or facility and entering the environment, as during a severe reactor accident.  
RT containment  
RT fission product release  
RT fission products  
RT meltdown  
RT radiation doses  
RT reactor accidents  
RT risk assessment

**SOUTH AFRICA**

BT1 africa  
BT1 developed countries  
NT1 transvaal  
RT namibia

**south africa nac cyclotron**

INIS: 1983-06-01; ETDE: 2002-06-13  
USE nac cyclotron

**SOUTH AFRICAN ORGANIZATIONS**

INIS: 1987-05-26; ETDE: 1976-04-19

BT1 national organizations

**SOUTH ALLIGATOR DEPOSIT**

INIS: 1978-07-03; ETDE: 1978-08-07

\*BT1 uranium deposits

RT northern territory

RT uranium ores

**SOUTH AMERICA**

BT1 latin america

NT1 argentina

NT2 mendoza

NT1 bolivia

NT2 chacaltaya

NT1 brazil

NT1 chile

NT1 colombia

NT1 ecuador

NT1 french guiana

NT1 guyana

NT1 paraguay

NT1 peru

NT1 surinam

NT1 uruguay

NT1 venezuela

**south american fruit fly**

INIS: 1999-02-19; ETDE: 1999-11-18

USE anastrepha

**SOUTH ATLANTIC BIGHT**

INIS: 2000-04-12; ETDE: 1980-08-12

*The portion of the Atlantic Ocean overlying the continental shelf off North Carolina, South Carolina, Georgia, and Florida.*

\*BT1 atlantic ocean

RT coastal waters

RT continental shelf

RT mid-atlantic bight

RT onslow bay

**SOUTH AUSTRALIA**

\*BT1 australia

RT olympic dam mine

RT roxby downs deposit

**SOUTH CAROLINA**

1997-06-19

\*BT1 usa

RT santee river

RT savannah river

RT savannah river plant

RT us east coast

**south china sea**

INIS: 1992-01-16; ETDE: 1981-03-16

USE china sea

**SOUTH DAKOTA**

\*BT1 usa

NT1 table mountain area

RT missouri river

RT williston basin

**south haven michigan reactor**

ETDE: 2001-01-23

USE palisades-1 reactor

**south korea**

USE republic of korea

**SOUTH TEXAS PROJECT-1 REACTOR**

STP Nuclear Operating Co., Bay City, Texas, USA.

\*BT1 pwr type reactors

**SOUTH TEXAS PROJECT-2 REACTOR**

STP Nuclear Operating Co., Bay City, Texas, USA.

\*BT1 pwr type reactors

**SOUTH UKRAINIAN-1 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

Ukraine.

\*BT1 wwer type reactors

**SOUTH UKRAINIAN-2 REACTOR**

INIS: 1989-02-24; ETDE: 1988-12-02

Ukraine.

\*BT1 wwer type reactors

**SOUTH UKRAINIAN-3 REACTOR**

INIS: 1990-01-29; ETDE: 1990-02-13

Ukraine.

\*BT1 wwer type reactors

**south west africa**

1994-08-22

(Until August 1994 this was a valid descriptor.)

USE namibia

**south yemen**

INIS: 2000-04-12; ETDE: 1981-05-18

USE yemen

**southeast region**

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to June 1982 this was a valid ETDE descriptor.)

USE usa

**SOUTHEASTERN POWER ADMINISTRATION**

INIS: 2000-04-12; ETDE: 1980-03-29

UF *sepa*

\*BT1 us doe

RT electric power

**SOUTHERN HEMISPHERE**

INIS: 1999-04-28; ETDE: 1980-09-22

*Both for the surface and the celestial hemisphere.*

\*BT1 earth planet

RT northern hemisphere

**southern negros geothermal field**

INIS: 1992-06-04; ETDE: 1984-02-23

USE palimpinon geothermal field

**SOUTHERN OSCILLATION**

INIS: 1992-06-12; ETDE: 1986-02-04

*A periodic barometric pressure fluctuation between the Indian Ocean region and the southeast Pacific Ocean.*

UF *el nino*

RT atmospheric circulation

RT atmospheric pressure

RT indian ocean

RT pacific ocean

**SOUTHERN RHODESIA**

UF *rhodesia (southern)*

\*BT1 zimbabwe

**southern yemen**

INIS: 2000-04-12; ETDE: 1980-08-12

USE yemen

**southwest africa**

INIS: 1984-07-20; ETDE: 2002-06-13

USE namibia

**southwest experimental fast oxide reactor**

1993-11-09

USE sefor reactor

**southwest region**

INIS: 2000-04-12; ETDE: 1978-07-06

(Prior to June 1982 this was a valid ETDE descriptor.)

USE usa

**SOUTHWESTERN POWER ADMINISTRATION**

INIS: 1992-10-01; ETDE: 1980-03-29

UF *swpa*

\*BT1 us doe

RT electric power

**soviet breeder reactor-1**

USE sbr-1 reactor

**soviet breeder reactor-2**

USE sbr-2 reactor

**soviet breeder reactor-5**

USE sbr-5 reactor

**soviet research reactor irt**

USE irt reactor

**soviet research reactor irt-c**

2000-04-12

USE irt-c reactor

**soviet research reactor irt-f**

2000-04-12

USE irt-f reactor

**soviet union**

2000-04-12

*All the constituents of the former USSR are listed below; use one or more as required.*

(Prior to September 1997 USSR was used for this concept.)

SEE armenia

SEE azerbaijan

SEE belarus

SEE estonia

SEE kazakhstan

SEE kyrgyzstan

SEE latvia

SEE lithuania

SEE moldova

SEE republic of georgia

SEE russian federation

SEE tajikistan

SEE turkmenistan

SEE ukraine

SEE uzbekistan

**SOXAL PROCESS**

INIS: 2000-04-12; ETDE: 1986-06-12

*A regenerative wet scrubbing process which is based on the use of a high ph sodium solution to remove the sulfur oxides from flue gas.*

\*BT1 desulfurization

RT waste processing

**soy oil**

USE soybean oil

**SOYBEAN OIL**

UF *chinese bean oil*

UF *soja bean oil*

UF *soy oil*

\*BT1 triglycerides

\*BT1 vegetable oils

**soybean plant**

USE glycine hispida

**SOYBEANS**

BT1 seeds

\*BT1 vegetables

RT glycine hispida

**SP GROUPS**

*UF symplectic groups*  
 \*BT1 lie groups

**SP LOGGING**

*INIS: 2000-06-27; ETDE: 1976-06-07*  
*UF self-potential logging*  
*UF spontaneous potential logging*  
 \*BT1 electric logging

**SPACE**

NT1 annular space  
 NT2 toroidal configuration  
 NT1 extracellular space  
 NT1 intergalactic space  
 NT1 interplanetary space  
 NT1 interstellar space  
 NT1 mathematical space  
 NT2 banach space  
 NT3 hilbert space  
 NT2 hausdorff space  
 NT2 minkowski space  
 NT2 phase space  
 NT2 riemann space  
 NT3 euclidean space  
 RT space flight  
 RT space vehicles

**SPACE CHARGE**

*UF beam perveance*  
 RT charge distribution  
 RT electric charges  
 RT electron tubes

**space-charge layer**

*INIS: 2000-04-12; ETDE: 1980-03-04*  
 USE depletion layer

**space cooling**

2006-03-31  
 USE air conditioning

**SPACE DEPENDENCE**

1999-10-11  
*The dependence of any quantity or variable on space coordinates.*  
*UF configuration dependence*  
*UF geometric sensitivity*  
*UF position dependence*  
*UF spatial dependence*  
*SF azimuth*  
 RT angular distribution  
 RT coordinates  
 RT mathematical space  
 RT spatial distribution

**SPACE FLIGHT**

(From October 1980 till March 1997 SPACE TRANSPORT was a valid ETDE descriptor.)  
 RT apollo project  
 RT cosmic radiation  
 RT mars space probes  
 RT ogo satellites  
 RT orbiting solar observatories  
 RT radiation protection  
 RT reentry  
 RT rockets  
 RT satellites  
 RT solar flares  
 RT space  
 RT space shuttles  
 RT space vehicles  
 RT venera space probes  
 RT weightlessness

**SPACE GROUPS**

*UF groups (space)*  
 BT1 symmetry groups  
 RT crystal lattices  
 RT group theory

**SPACE HEATERS**

*INIS: 1999-03-05; ETDE: 1977-06-21*  
*SF heat emission systems*  
 \*BT1 appliances  
 BT1 heaters  
 NT1 convectors  
 RT space heating

**SPACE HEATING**

1976-02-11  
 BT1 heating  
 NT1 auxiliary heating  
 NT1 baseboard heating  
 NT1 geothermal space heating  
 NT1 solar space heating  
 RT air source heat pumps  
 RT airtightness  
 RT annual cycle energy system  
 RT central heating plants  
 RT degree days  
 RT district heating  
 RT electric heating  
 RT fireplaces  
 RT ground source heat pumps  
 RT heat production  
 RT heating systems  
 RT oil furnaces  
 RT radiant cable heating  
 RT space heaters  
 RT water source heat pumps  
 RT wood burning furnaces

**SPACE HVAC SYSTEMS**

*INIS: 1999-05-26; ETDE: 1980-08-25*  
*Heating, ventilation, and air conditioning systems.*  
*SF thermally active structural components*  
 BT1 energy systems  
 RT air conditioners  
 RT energy management systems  
 RT gas heat pumps  
 RT heating systems  
 RT ventilation systems

**space lattices**

USE crystal lattices

**SPACE POWER REACTORS**

*UF space power unit reactor*  
*UF spur reactor*  
 \*BT1 mobile reactors  
 \*BT1 power reactors  
 NT1 snap reactors  
 NT2 snap 10 reactor  
 NT3 s10fs-1 reactor  
 NT3 s10fs-3 reactor  
 NT3 s10fs-4 reactor  
 NT2 snap 2 reactor  
 NT3 s2ds reactor  
 NT2 snap 50 reactor  
 NT2 snap 8 reactor  
 NT3 s8dr reactor  
 NT3 s8er reactor  
 NT1 space propulsion reactors  
 NT2 kiwi reactors  
 NT3 kiwi-tnt reactor  
 NT2 nerva reactor  
 NT2 nrx-a1 reactor  
 NT2 nrx-a2 reactor  
 NT2 nrx-a3 reactor  
 NT2 nrx-a4-est reactor  
 NT2 nrx-a5 reactor  
 NT2 nrx-a6 reactor  
 NT2 nrx-a7 reactor  
 NT2 pewee-1 reactor  
 NT2 pewee-2 reactor  
 NT2 pewee-3 reactor  
 NT2 pewee-4 reactor  
 NT2 phoebus-1a reactor

NT2 phoebus-1b reactor  
 NT2 phoebus-2a reactor  
 NT2 rover reactors  
 NT2 twmr reactor  
 NT2 xe-2 reactor

**space power unit reactor**

2000-04-12  
 USE space power reactors

**SPACE PROPULSION REACTORS**

\*BT1 propulsion reactors  
 \*BT1 space power reactors  
 NT1 kiwi reactors  
 NT2 kiwi-tnt reactor  
 NT1 nerva reactor  
 NT1 nrx-a1 reactor  
 NT1 nrx-a2 reactor  
 NT1 nrx-a3 reactor  
 NT1 nrx-a4-est reactor  
 NT1 nrx-a5 reactor  
 NT1 nrx-a6 reactor  
 NT1 nrx-a7 reactor  
 NT1 pewee-1 reactor  
 NT1 pewee-2 reactor  
 NT1 pewee-3 reactor  
 NT1 pewee-4 reactor  
 NT1 phoebus-1a reactor  
 NT1 phoebus-1b reactor  
 NT1 phoebus-2a reactor  
 NT1 rover reactors  
 NT1 twmr reactor  
 NT1 xe-2 reactor  
 RT fissioning plasma  
 RT hydrogen cooled reactors

**space reflection**

USE p invariance

**SPACE SHUTTLES**

*INIS: 1983-02-04; ETDE: 1979-09-26*  
 BT1 aircraft  
 \*BT1 space vehicles  
 RT space flight

**SPACE-TIME**

*UF spacetime*  
 NT1 light cone  
 RT compactification  
 RT cosmological constant  
 RT cosmology  
 RT galilei transformations  
 RT inflationary universe  
 RT lorentz transformations  
 RT mach principle  
 RT mathematical space  
 RT metrics  
 RT relativity theory  
 RT twistor theory

**SPACE-TIME MODEL**

*INIS: 1982-12-07; ETDE: 1977-03-04*  
*Particle-interaction model in which particles at the instant of creation are immature or bare and their maturity rate is enhanced in the presence of other hadronic matter, as in a nucleus.*  
 \*BT1 cluster emission model  
 RT hadron reactions

**space transport**

*INIS: 2000-04-12; ETDE: 1980-10-27*  
*Use SPACE FLIGHT and/or SPACE VEHICLES and/or the descriptor below, as appropriate.*  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE transport

**space vehicle components**

INIS: 2000-04-12; ETDE: 1976-08-24

Use descriptor for material or component if needed.

(Prior to March 1997 this was a valid ETDE descriptor.)

USE space vehicles

**SPACE VEHICLES**

1995-09-08

(From January 1975 till March 1997 NOSE CONES was a valid ETDE descriptor; from August 1976 till March 1997 SPACE VEHICLE COMPONENTS was a valid ETDE descriptor; from October 1980 till March 1997 SPACE TRANSPORT was a valid ETDE descriptor.)

UF space vehicle components

SF nose cones

BT1 vehicles

NT1 luna space probes

NT1 mariner space probes

NT1 mars space probes

NT1 mir orbital station

NT1 pioneer space probes

NT1 reentry vehicles

NT1 salyut orbital stations

NT1 space shuttles

NT1 vega space probes

NT1 venera space probes

NT1 viking space probes

NT1 voyager space probes

RT aerospace industry

RT electronic guidance

RT international space station

RT ionosondes

RT launching

RT navigational instruments

RT reentry

RT rockets

RT satellites

RT space

RT space flight

RT spacecraft power supplies

RT thrusters

**SPACE WEAPONS**

INIS: 2000-04-12; ETDE: 1984-11-29

UF anti-missile systems

UF anti-satellite systems

RT ballistic missile defense

RT directed-energy weapons

RT national defense

**SPACECRAFT POWER SUPPLIES**

\*BT1 power supplies

RT electric power

RT radioisotope batteries

RT space vehicles

**SPACERS**

RT fins

RT fuel element clusters

RT reactor components

**spacetime**

INIS: 1984-07-20; ETDE: 2002-06-13

USE space-time

**spadns**

1996-10-23

*Sulfophenyl-naphthalene-sulfonic acid.*

(Until October 1996 this was a valid descriptor.)

USE sulfones

USE sulfonic acids

**SPAIN**

1995-04-03

BT1 developing countries

\*BT1 western europe

NT1 canary islands

RT bay of biscay

RT oecd

**SPALLATION**

*High-energy nuclear reaction resulting in the release of numerous nucleons, alpha particles or heavier nuclei as reaction products; not to be used for fission.*

BT1 nuclear reactions

RT fission

RT nuclear fireball model

RT nuclear fragmentation

RT nuclear fragments

RT rudstam formula

RT spallation fragments

**SPALLATION FRAGMENTS**

INIS: 1978-11-24; ETDE: 1978-12-20

UF fragments (spallation)

UF spallation products

BT1 nuclear fragments

RT spallation

**spallation products**

INIS: 1978-11-24; ETDE: 1978-12-20

USE spallation fragments

**spanish jen-1 research reactor**

USE jen-1 reactor

**spanish jen-2 research reactor**

USE jen-2 reactor

**SPANISH ORGANIZATIONS**

INIS: 1977-04-07; ETDE: 1977-06-03

BT1 national organizations

**SPARGERS**

2000-07-11

*Liquid distribution devices consisting of lengths of piping or tubing with holes at spaced intervals along the length.*

UF perforated pipe distributors

RT sprays

**SPARK CHAMBERS**

\*BT1 gas track detectors

NT1 filmless spark chambers

NT2 sonic spark chambers

NT2 wire spark chambers

NT1 projection spark chambers

NT1 streamer spark chambers

NT1 wide gap spark chambers

RT digitizers

RT spark counters

**SPARK COUNTERS**

UF rosenblum counters

\*BT1 radiation detectors

RT corona counters

RT spark chambers

**SPARK DRILLS**

INIS: 2000-04-12; ETDE: 1976-07-07

\*BT1 drills

RT drill bits

RT electric sparks

RT rock drilling

RT well drilling

**SPARK GAPS**

RT breakdown

RT electric discharges

RT electric sparks

RT paschen law

**SPARK IGNITION ENGINES**

1997-06-19

\*BT1 internal combustion engines

NT1 wankel engines

RT automobiles

RT carburetors

RT combustion

RT combustion chambers

RT fuel injection systems

RT gasoline

**SPARK MACHINING**

BT1 machining

**SPARK MASS SPECTROMETERS**

\*BT1 mass spectrometers

**sparks (electric)**

USE electric sparks

**SPARTICLES**

INIS: 1987-12-21; ETDE: 1988-03-16

UF supersymmetric particles

\*BT1 postulated particles

**spatial dependence**

INIS: 2000-04-12; ETDE: 1979-08-07

(Prior to August 1981, this was a valid ETDE descriptor.)

USE space dependence

**SPATIAL DISTRIBUTION**

*Use for the distribution of any property or quantity in space, e.g. density or particle velocity.*

UF depth distribution

UF radial distribution

BT1 distribution

NT1 mass distribution

RT angular distribution

RT charge distribution

RT plasma radial profiles

RT space dependence

RT temperature distribution

**SPATIAL DOSE DISTRIBUTIONS**

UF absorbed fraction (internal irradiation)

UF distribution factor (rad doses)

UF effective energy (internal irradiation)

BT1 radiation dose distributions

NT1 depth dose distributions

RT buildup

RT integral doses

RT irradiation procedures

RT isodose curves

RT local irradiation

RT microdosimetry

RT nonuniform irradiation

RT partial body irradiation

**SPATIAL RESOLUTION**

BT1 resolution

**spe**

ETDE: 2002-06-13

USE solar protons

**speakeasy**

INIS: 2000-04-12; ETDE: 1980-02-11

(Prior to January 1995, this was a valid ETDE descriptor.)

USE programming languages

**SPEAR**

*Stanford Positron-Electron Asymmetric Ring.*

BT1 storage rings

**special power excursion reactor-1**

1993-11-09

USE spert-1 reactor

**special power excursion reactor-2**

1993-11-09

USE spert-2 reactor

**special power excursion reactor-3**

1993-11-09

USE spert-3 reactor



**special power excursion reactor-4**

1993-11-09

USE spert-4 reactor

**SPECIAL PRODUCTION REACTORS**

For producing fissile materials such as uranium 233, californium 252, thorium 232, etc. See also PLUTONIUM PRODUCTION REACTORS.

\*BT1 production reactors

NT1 c reactor

NT1 k reactor

NT1 l reactor

NT1 p reactor

NT1 r reactor

**SPECIAL RELATIVITY THEORY**

BT1 relativity theory

RT dirac equation

RT galilei transformations

RT lorentz invariance

RT lorentz transformations

RT massless particles

RT negative mass

RT rest mass

**speciation (biological)**

INIS: 1987-08-27; ETDE: 2002-06-13

USE biological evolution

**speciation (chemical)**

INIS: 1987-08-27; ETDE: 2002-06-13

USE chemical state

**SPECIES DIVERSITY**

INIS: 1991-12-11; ETDE: 1978-01-23

UF biodiversity

RT animals

RT baseline ecology

RT biological extinction

RT ecological succession

RT ecology

RT ecosystems

RT plants

RT populations

**specific gravity**

USE density

**SPECIFIC HEAT**

UF heat capacity

\*BT1 thermodynamic properties

NT1 electronic specific heat

NT1 magnetic specific heat

NT1 nuclear specific heat

RT born-von karman theory

RT debye temperature

RT grueneisen constant

**SPECIFIC SURFACE AREA**

INIS: 1982-09-21; ETDE: 1991-03-08

Surface area per unit weight or volume of a particulate solid.

UF surface area (specific)

BT1 physical properties

RT powders

**specific volume**

USE density

**specific weight**

USE density

**SPECIFICATIONS**

UF design (technical specifications)

UF technical specifications

RT camac system

RT design

RT engineering drawings

RT inspection

RT modifications

RT patents

RT quality control

RT reliability

RT standardization

RT standards

**SPECIFICITY**

INIS: 1976-01-28; ETDE: 1976-08-24

The qualitative attribute of accurately distinguishing among different materials, properties, radiations, etc. as compared with the quantitative aspect of the threshold for detecting a given material, property, etc.; for which see SENSITIVITY.

RT accuracy

RT sensitivity

**specimen holders**

INIS: 1976-03-25; ETDE: 1975-11-26

USE sample holders

**spect**

INIS: 1995-07-20; ETDE: 2002-06-13

USE single photon emission computed tomography

**SPECTRA**

NT1 absorption spectra

NT1 alpha spectra

NT1 beta spectra

NT1 deuterium spectra

NT1 electron spectra

NT1 emission spectra

NT1 energy spectra

NT1 fission spectra

NT1 gamma spectra

NT1 infrared spectra

NT1 mass spectra

NT1 microwave spectra

NT1 missing-mass spectra

NT1 neutron spectra

NT2 watt fission spectrum

NT1 nmr spectra

NT1 proton spectra

NT1 raman spectra

NT1 ultraviolet spectra

NT2 extreme ultraviolet spectra

NT1 visible spectra

NT1 x-ray spectra

RT balmer lines

RT eddington theory

RT fine structure

RT fraunhofer lines

RT hyperfine structure

RT line broadening

RT line narrowing

RT line widths

RT lyman lines

RT multispectral scanners

RT particle multipliers

RT paschen lines

RT raman effect

RT rydberg-klein-rees method

RT schumann-runge bands

RT spectral response

RT spectral shift

**spectra (absorption)**

2000-04-12

USE absorption spectra

**spectra (fission)**

2000-04-12

USE fission spectra

**spectra (neutron)**

2000-04-12

USE neutron spectra

**SPECTRA UNFOLDING**

\*BT1 data processing

RT neutron spectra

**spectral broadening**

USE line broadening

**SPECTRAL DENSITY**

UF density (spectral)

\*BT1 spectral functions

RT energy spectra

**spectral flame radiance**

INIS: 2000-04-12; ETDE: 1982-05-12

USE emissivity

**SPECTRAL FUNCTIONS**

BT1 functions

NT1 spectral density

RT dispersion relations

**SPECTRAL HARDENING**

UF hardening (spectral)

RT neutron spectra

**spectral narrowing**

INIS: 1976-07-16; ETDE: 1977-06-30

USE line narrowing

**SPECTRAL REFLECTANCE**

INIS: 1994-07-01; ETDE: 1978-10-25

The radiant reflectance for a specified wavelength of the incident radiant flux.

(Until June 1994 this concept was indexed to OPTICAL PROPERTIES.)

UF reflectance (spectral)

\*BT1 optical properties

RT absorptivity

RT reflectivity

RT spectrally selective surfaces

**SPECTRAL RESPONSE**

INIS: 1995-04-10; ETDE: 1977-06-24

RT efficiency

RT energy dependence

RT energy spectra

RT performance

RT sensitivity

RT spectra

**SPECTRAL SHIFT**

UF isotope shift

UF isotopic shift

NT1 lamb shift

RT chemical shift

RT doppler effect

RT einstein effect

RT knight effect

RT knight shift

RT spectra

RT stark effect

RT zeeman effect

**SPECTRAL SHIFT CONTROL**

Type of moderator control in which the neutron spectrum is intentionally changed.

\*BT1 configuration control

**SPECTRALLY SELECTIVE SURFACES**

INIS: 2000-04-12; ETDE: 1975-11-11

\*BT1 solar equipment

BT1 surfaces

RT black coatings

RT solar absorbers

RT spectral reflectance

**spectrochemistry**

SEE absorption spectroscopy

SEE emission spectroscopy

**SPECTROMETERS**

BT1 measuring instruments

NT1 alpha spectrometers

NT1 beta spectrometers

NT1 cosmic ray spectrometers

**NT1** electron spectrometers  
**NT1** electrostatic spectrometers  
**NT1** epr spectrometers  
**NT1** fission fragment spectrometers  
**NT1** fourier transform spectrometers  
**NT1** gamma spectrometers  
**NT2** compton spectrometers  
**NT2** moessbauer spectrometers  
**NT2** pair spectrometers  
**NT1** heavy ion spectrometers  
**NT1** infrared spectrometers  
**NT2** photoacoustic spectrometers  
**NT1** magnetic spectrometers  
**NT2** flat magnetic spectrometers  
**NT2** magnetic lens spectrometers  
**NT1** mass spectrometers  
**NT2** dynamic mass spectrometers  
**NT3** energy balance mass spectrometers  
**NT3** time-of-flight mass spectrometers  
**NT2** spark mass spectrometers  
**NT2** static mass spectrometers  
**NT1** missing-mass spectrometers  
**NT1** multiparticle spectrometers  
**NT1** neutral particle analyzers  
**NT1** neutron spectrometers  
**NT2** bonner sphere spectrometers  
**NT1** nmr spectrometers  
**NT1** optical spectrometers  
**NT1** proton spectrometers  
**NT1** time-of-flight spectrometers  
**NT2** time-of-flight mass spectrometers  
**NT1** ultraviolet spectrometers  
**NT1** x-ray spectrometers  
*RT* coincidence spectrometry  
*RT* diffraction gratings  
*RT* interferometers  
*RT* monochromators  
*RT* pulse analyzers  
*RT* radiation detection  
*RT* radiation detectors  
*RT* spectrophotometers  
*RT* spectroscopy

### spectrometry

*INIS: 1975-10-23; ETDE: 2002-06-13*  
 USE spectroscopy

### spectrophones

*INIS: 1978-02-23; ETDE: 2002-06-13*  
 USE photoacoustic spectrometers

### SPECTROPHOTOMETERS

**BT1** measuring instruments  
*RT* spectrometers  
*RT* spectrophotometry

### SPECTROPHOTOMETRY

*RT* flame photometry  
*RT* photometry  
*RT* spectrophotometers  
*RT* spectroscopy

### SPECTROSCOPIC CURVE OF GROWTH

*INIS: 1975-08-27; ETDE: 1976-08-24*  
*UF* curve of growth (spectroscopic)  
**\*BT1** optical depth curve  
*RT* absorption spectra  
*RT* cosmic gases  
*RT* line broadening  
*RT* optical properties  
*RT* oscillator strengths

### SPECTROSCOPIC FACTORS

**BT1** dimensionless numbers  
*RT* nuclear reactions  
*RT* scattering

### SPECTROSCOPY

(From March 1983 till March 1997 PHOTO-INDUCED TRANSIENT SPECTROSCOPY was a valid ETDE descriptor.)

*UF* photo-induced transient spectroscopy  
*UF* pits  
*UF* spectrometry  
**NT1** absorption spectroscopy  
**NT1** alpha spectroscopy  
**NT1** baryon spectroscopy  
**NT1** beta spectroscopy  
**NT1** deep level transient spectroscopy  
**NT1** electron spectroscopy  
**NT2** auger electron spectroscopy  
**NT2** energy-loss spectroscopy  
**NT2** photoelectron spectroscopy  
**NT3** x-ray photoelectron spectroscopy  
**NT1** emission spectroscopy  
**NT2** fluorescence spectroscopy  
**NT1** gamma spectroscopy  
**NT1** in-beam spectroscopy  
**NT1** ion-neutralization spectroscopy  
**NT1** ion spectroscopy  
**NT2** ion cyclotron resonance spectroscopy  
**NT1** laser spectroscopy  
**NT2** raman spectroscopy  
**NT1** mass spectroscopy  
**NT2** icp mass spectroscopy  
**NT2** resonance ionization mass spectroscopy  
**NT1** meson spectroscopy  
**NT1** neutron spectroscopy  
**NT1** photoacoustic spectroscopy  
**NT1** rutherford backscattering spectroscopy  
**NT1** x-ray spectroscopy  
*RT* flame photometry  
*RT* matrix isolation  
*RT* multispectral photography  
*RT* multispectral scanners  
*RT* photometry  
*RT* post-irradiation examination  
*RT* quantum electronics  
*RT* radiation detection  
*RT* radioassay  
*RT* spectrometers  
*RT* spectrophotometry

### SPEECH

2000-04-12  
*RT* communications  
*RT* sound waves  
*RT* speech synthesizers

### SPEECH SYNTHESIZERS

*INIS: 2000-04-12; ETDE: 1981-07-18*  
**\*BT1** electronic equipment  
*RT* acoustics  
*RT* computer codes  
*RT* electronic circuits  
*RT* simulation  
*RT* sound waves  
*RT* speech

### speed

*INIS: 1984-04-04; ETDE: 2002-06-13*  
 USE velocity

### speed indicators

*INIS: 1978-11-24; ETDE: 1975-08-19*  
 USE velocimeters

### SPEED LIMIT

*INIS: 2000-04-12; ETDE: 1977-07-23*  
*RT* laws

### SPEED REGULATORS

**\*BT1** control equipment

### SPENCER-FANO THEORY

*RT* neutron slowing-down theory

### spending

*INIS: 1992-04-09; ETDE: 1981-07-06*  
 USE expenditures

### SPENT FUEL CASKS

1994-07-14  
 (Until July 1994 this concept was indexed by CASKS.)  
**\*BT1** casks  
*RT* spent fuel elements

### SPENT FUEL ELEMENTS

*UF* irradiated fuel elements  
**\*BT1** fuel elements  
*RT* burnup  
*RT* fuel integrity  
*RT* reprocessing  
*RT* spent fuel casks  
*RT* spent fuels  
*RT* wackersdorf reprocessing plant  
*RT* wak

### SPENT FUEL STORAGE

1996-04-16  
*UF* fuel cooling installations  
*UF* storage (spent fuel)  
**BT1** storage  
**NT1** away-from-reactor storage  
**NT1** monitored retrievable storage  
*RT* after-heat  
*RT* dry storage  
*RT* fuel cooling time  
*RT* fuel cycle centers  
*RT* fuel integrity  
*RT* fuel racks  
*RT* fuel storage pools  
*RT* nuclear waste policy acts  
*RT* storage facilities  
*RT* us mrs project  
*RT* wet storage

### SPENT FUELS

*UF* irradiated fuels  
**\*BT1** nuclear fuels  
*RT* fission products  
*RT* fuel cooling time  
*RT* fuel integrity  
*RT* fuel reprocessing plants  
*RT* monitored retrievable storage  
*RT* nuclear waste policy acts  
*RT* radioactive wastes  
*RT* reactors  
*RT* spent fuel elements  
*RT* storage facilities  
*RT* us mrs project  
*RT* wackersdorf reprocessing plant  
*RT* wak

### SPENT LIQUORS

*INIS: 1993-02-15; ETDE: 1978-08-07*  
*Liquid effluent from the digestion of wood during pulping.*  
*UF* black liquors  
*UF* sulfite waste liquor  
**\*BT1** industrial wastes  
**\*BT1** liquid wastes  
*RT* waste disposal  
*RT* waste product utilization

### SPENT SEED

*INIS: 2000-04-12; ETDE: 1979-04-11*  
*Restricted to MHD seeds.*  
*RT* coal-fired mhd generators  
*RT* plasma seeding  
*RT* seed recovery

**SPENT SHALES**

1992-04-13

- UF *retorted shales*
- RT *oil shales*
- RT *portland cement*
- RT *shales*
- RT *solid wastes*

**sperm**

- USE *spermatozoa*

**spermatids**

- USE *spermatozoa*

**SPERMATOCYTES**

- BT1 *germ cells*

**SPERMATOGENESIS**

- BT1 *gametogenesis*
- RT *reproduction*
- RT *spermatogonia*
- RT *spermatozoa*
- RT *stem cells*
- RT *testes*

**SPERMATOGONIA**

1975-11-07

- BT1 *germ cells*
- RT *spermatogenesis*
- RT *spermatozoa*

**SPERMATOZOA**

- UF *sperm*
- UF *spermatids*
- \*BT1 *gametes*
- RT *spermatogenesis*
- RT *spermatogonia*

**SPERMIDINE**

- \*BT1 *amines*

**SPERMINE**

- UF *gerontine*
- UF *musculamine*
- UF *neuridine*
- \*BT1 *amines*

**SPERT-1 REACTOR**

INEEL, Idaho Falls, Idaho, USA. Shut down in 1964.

- UF *special power excursion reactor-1*
- \*BT1 *enriched uranium reactors*
- \*BT1 *experimental reactors*
- \*BT1 *research reactors*
- \*BT1 *tank type reactors*
- \*BT1 *thermal reactors*
- \*BT1 *water moderated reactors*

**SPERT-2 REACTOR**

INEEL, Idaho Falls, Idaho, USA. Shut down in 1965.

- UF *special power excursion reactor-2*
- \*BT1 *enriched uranium reactors*
- \*BT1 *experimental reactors*
- \*BT1 *heavy water cooled reactors*
- \*BT1 *heavy water moderated reactors*
- \*BT1 *tank type reactors*
- \*BT1 *thermal reactors*
- \*BT1 *water cooled reactors*
- \*BT1 *water moderated reactors*

**SPERT-3 REACTOR**

INEEL, Idaho Falls, Idaho, USA. Shut down in 1968.

- UF *special power excursion reactor-3*
- \*BT1 *enriched uranium reactors*
- \*BT1 *experimental reactors*
- \*BT1 *tank type reactors*
- \*BT1 *thermal reactors*
- \*BT1 *water cooled reactors*
- \*BT1 *water moderated reactors*

**SPERT-4 REACTOR**

INEEL, Idaho Falls, Idaho, USA. Shut down in 1970.

- UF *special power excursion reactor-4*
- \*BT1 *enriched uranium reactors*
- \*BT1 *experimental reactors*
- \*BT1 *pool type reactors*
- \*BT1 *thermal reactors*

**sphalerite**

2000-04-12

*Zinc sulfide, ZnS, a cubic crystal.*

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE *sulfide minerals*

**sphene**

INIS: 1984-04-04; ETDE: 1981-11-24

(This was a valid ETDE descriptor prior to January 1984.)

- USE *titanite*

**spher**

INIS: 2000-04-12; ETDE: 1981-01-27

- USE *shell pellet heat exchanger retorting*

**SPHERATOR**

- \*BT1 *internal ring devices*

**SPHERES**

- RT *geometry*
- RT *shape*

**spheres (fuel)**

2000-04-12

(From January 1975 to February 1997 FUEL SPHERES was a valid ETDE descriptor.)

- USE *fuel elements*

**spherical aberrations**

INIS: 2000-04-12; ETDE: 1979-07-24

- USE *geometrical aberrations*

**SPHERICAL CONFIGURATION**

- BT1 *configuration*

**SPHERICAL HARMONICS**

- UF *cn method*
- BT1 *functions*
- RT *laplace equation*
- RT *mathematics*
- RT *yvonne method*

**SPHERICAL HARMONICS METHOD**

- \*BT1 *approximations*
- NT1 *p1-approximation*
- NT1 *p2-approximation*
- NT1 *p3-approximation*
- RT *legendre polynomials*
- RT *marshak boundary conditions*
- RT *neutron transport theory*

**SPHERICAL MODEL**

- \*BT1 *nuclear models*

**SPHEROIDS**

INIS: 1976-02-11; ETDE: 1975-10-01

- RT *geometry*
- RT *shape*

**SPHEROMAK DEVICES**

INIS: 1981-07-06; ETDE: 1979-10-23

*Tokamak with aspect ratio approximately equal to one.*

- \*BT1 *tokamak devices*
- NT1 *cdx-u spheromak*
- NT1 *ctx spheromak*
- NT1 *globus-m spheromak*
- NT1 *mast tokamak*
- NT1 *nstx device*
- NT1 *sspx device*
- NT1 *sunist spheromak*

NT1 *ts-3 device***SPHINGOMYELINS**

- \*BT1 *phospholipids*

**SPICES**

1996-04-26

- UF *ginger*
- RT *capsicum*
- RT *flavor*
- RT *food*
- RT *peppers*

**spicules**

- USE *solar prominences*

**SPIDERS**

- \*BT1 *arachnids*

**spikes (thermal)**

- USE *thermal spikes*

**SPILLWAYS**

INIS: 1992-10-05; ETDE: 1994-08-18

(Prior to August 1994 SPILLWAY was a valid ETDE descriptor.)

- RT *dams*
- RT *hydroelectric power plants*

**SPIN**

- BT1 *angular momentum*
- BT1 *particle properties*
- RT *chirality*
- RT *heisenberg model*
- RT *helicity*
- RT *high spin states*
- RT *joos-weinberg equation*
- RT *morrison rule*
- RT *orbital angular momentum*
- RT *pauli spin operators*
- RT *quantum numbers*
- RT *schmidt lines*
- RT *schmidt model*
- RT *sherman tables*
- RT *spin exchange*
- RT *spin flip*
- RT *spin-lattice relaxation*
- RT *spin orientation*
- RT *spin-spin relaxation*
- RT *spinors*
- RT *two-component neutrino theory*
- RT *weil equation*

**SPIN ECHO**

- RT *nuclear magnetic resonance*

**SPIN EXCHANGE***Not for chemical reactions.*

- RT *exchange interactions*
- RT *spin*

**SPIN FLIP**

- RT *inelastic scattering*
- RT *nuclear reaction kinetics*
- RT *spin*

**SPIN GLASS STATE**

INIS: 1978-07-03; ETDE: 1977-08-24

*A magnetic state in alloys of ferromagnetic material and nonmagnetic material in which the magnetic atoms are frozen into random orientation.*

- RT *ferromagnetic materials*
- RT *magnetism*

**SPIN-LATTICE RELAXATION**

- BT1 *relaxation*
- RT *nuclear magnetic resonance*
- RT *spin*

**spin-off**

2000-04-12

- USE *technology transfer*

**SPIN-ON COATING**

INIS: 1999-08-19; ETDE: 1979-12-10

\*BT1 surface coating

**SPIN-ON COATINGS**

INIS: 2000-04-12; ETDE: 1979-12-10

BT1 coatings

**spin-orbit interaction**

USE l-s coupling

**SPIN ORIENTATION**

For the process and condition in quantum physics only; see also POLARIZATION.

BT1 orientation

RT muon spin relaxation

RT nuclear alignment

RT nuclear magnetism

RT particle properties

RT polarization-asymmetry ratio

RT polarized beams

RT polarized targets

RT spin

RT stern-gerlach experiment

**spin-spin interaction**

USE j-j coupling

**SPIN-SPIN RELAXATION**

BT1 relaxation

RT nuclear magnetic resonance

RT spin

**SPIN WAVES**

RT magnons

**SPINACH**

\*BT1 magnoliopsida

\*BT1 vegetables

**SPINAL CORD**

\*BT1 central nervous system

RT ganglions

RT myelitis

RT reflexes

RT vertebrae

**spine**

USE vertebrae

**SPINELS**

\*BT1 oxide minerals

RT aluminium oxides

RT magnesium oxides

RT magnetite

**SPINOR FIELDS**

INIS: 1978-02-23; ETDE: 1978-05-01

RT quantum field theory

**spinor symmetry**

1984-12-04

USE boson-fermion symmetry

**SPINORS**

RT spin

RT vectors

**SPIPERONE**

INIS: 1994-07-20; ETDE: 1987-04-24

\*BT1 autonomic nervous system agents

RT dopamine

**SPIRAL CONFIGURATION**

BT1 configuration

**spiral orbit spectrometers**

USE flat magnetic spectrometers

**SPIRAL READER DIGITIZERS**

\*BT1 digitizers

**SPIROCHAETES**

\*BT1 bacteria

RT syphilis

**spitzer self-collision time**

ETDE: 2002-06-13

USE spitzer theory

**spitzer self-collision time theory**

2000-04-12

USE spitzer theory

**SPITZER THEORY**

UF spitzer self-collision time

UF spitzer self-collision time theory

UF spitzer value

\*BT1 charged-particle transport theory

RT plasma

**spitzer value**

USE spitzer theory

**SPLAT COOLING**

BT1 cooling

RT quench hardening

**SPLEEN**

\*BT1 organs

RT abdomen

RT blood circulation

RT blood formation

RT immune system diseases

RT lymphatic system

RT macrophages

RT peritoneum

RT reticuloendothelial system

RT spleen cells

RT spleen colony formation

RT splenectomy

RT splenomegaly

**SPLEEN CELLS**

\*BT1 somatic cells

RT spleen

**SPLEEN COLONY FORMATION**

BT1 colony formation

RT blood formation

RT chimeras

RT colony forming units

RT radiation chimeras

RT spleen

**SPLENECTOMY**

\*BT1 surgery

RT lymphatic system

RT spleen

**SPLENOMEGALY**

BT1 pathological changes

BT1 symptoms

RT hemic diseases

RT leukemia

RT spleen

**SPLICING**

INIS: 1995-06-09; ETDE: 1994-02-25

The process by which introns are removed from gene transcripts to form mature messenger RNA molecules.

BT1 rna processing

RT exons

RT gene regulation

RT introns

RT nucleoproteins

RT rna

**SPLINE FUNCTIONS**

INIS: 1978-09-28; ETDE: 1978-10-19

BT1 functions

RT interpolation

RT mathematics

RT polynomials

RT series expansion

**split dose irradiation**

USE fractionated irradiation

**SPLIT TABLE REACTOR**

INEEL, Idaho Falls, Idaho, USA.

UF str reactor (split table)

\*BT1 zero power reactors

**SPOIL BANKS**

INIS: 1992-09-01; ETDE: 1976-03-22

Banks of disturbed earth, mine wastes, tailings.

\*BT1 solid wastes

RT acid mine drainage

RT dredge spoil

RT land reclamation

RT mineral wastes

**SPONDYLITIS**

UF ankylosing spondylitis

BT1 rheumatic diseases

\*BT1 skeletal diseases

RT vertebrae

**SPONTANEOUS COMBUSTION**

INIS: 2000-07-11; ETDE: 1975-08-19

\*BT1 combustion

RT explosions

RT fire hazards

RT fire prevention

RT fires

**spontaneous emission (cooperative)**

INIS: 1993-11-09; ETDE: 2002-06-13

USE superradiance

**SPONTANEOUS FISSION**

\*BT1 fission

\*BT1 nuclear decay

RT fission isomers

RT oklo phenomenon

RT spontaneous fission radioisotopes

**SPONTANEOUS FISSION RADIOISOTOPES**

INIS: 1986-06-09; ETDE: 1991-07-25

\*BT1 radioisotopes

NT1 americium 237

NT1 americium 238

NT1 americium 239

NT1 americium 240

NT1 americium 241

NT1 americium 242

NT1 americium 243

NT1 americium 244

NT1 americium 245

NT1 americium 246

NT1 berkelium 242

NT1 berkelium 243

NT1 berkelium 244

NT1 berkelium 245

NT1 berkelium 249

NT1 bohrium 261

NT1 bohrium 262

NT1 californium 246

NT1 californium 248

NT1 californium 249

NT1 californium 250

NT1 californium 252

NT1 californium 254

NT1 californium 256

NT1 curium 240

NT1 curium 241

NT1 curium 242

NT1 curium 243

NT1 curium 244

NT1 curium 245

NT1 curium 246

NT1 curium 248

NT1 curium 250

NT1 dubnium 255

NT1 dubnium 256  
 NT1 dubnium 257  
 NT1 dubnium 258  
 NT1 dubnium 259  
 NT1 dubnium 260  
 NT1 dubnium 261  
 NT1 dubnium 262  
 NT1 dubnium 263  
 NT1 einsteinium 253  
 NT1 einsteinium 254  
 NT1 einsteinium 255  
 NT1 element 112 283  
 NT1 fermium 242  
 NT1 fermium 244  
 NT1 fermium 246  
 NT1 fermium 248  
 NT1 fermium 250  
 NT1 fermium 252  
 NT1 fermium 254  
 NT1 fermium 255  
 NT1 fermium 256  
 NT1 fermium 257  
 NT1 fermium 258  
 NT1 fermium 259  
 NT1 hassium 264  
 NT1 hassium 265  
 NT1 meitnerium 266  
 NT1 mendelevium 259  
 NT1 neptunium 237  
 NT1 nobelium 250  
 NT1 nobelium 252  
 NT1 nobelium 254  
 NT1 nobelium 256  
 NT1 nobelium 258  
 NT1 plutonium 235  
 NT1 plutonium 236  
 NT1 plutonium 237  
 NT1 plutonium 238  
 NT1 plutonium 239  
 NT1 plutonium 240  
 NT1 plutonium 241  
 NT1 plutonium 242  
 NT1 plutonium 243  
 NT1 plutonium 244  
 NT1 rutherfordium 253  
 NT1 rutherfordium 254  
 NT1 rutherfordium 255  
 NT1 rutherfordium 256  
 NT1 rutherfordium 257  
 NT1 rutherfordium 258  
 NT1 rutherfordium 259  
 NT1 rutherfordium 260  
 NT1 rutherfordium 261  
 NT1 rutherfordium 262  
 NT1 rutherfordium 263  
 NT1 seaborgium 259  
 NT1 seaborgium 260  
 NT1 seaborgium 261  
 NT1 seaborgium 262  
 NT1 seaborgium 263  
 NT1 seaborgium 265  
 NT1 seaborgium 266  
 NT1 thorium 230  
 NT1 thorium 232  
 NT1 uranium 232  
 NT1 uranium 233  
 NT1 uranium 234  
 NT1 uranium 235  
 NT1 uranium 236  
 NT1 uranium 238  
 RT spontaneous fission

**SPONTANEOUS MUTATIONS**

INIS: 1978-02-23; ETDE: 1978-05-01

UF natural mutations  
 BT1 mutations

**spontaneous potential logging**

INIS: 2000-04-12; ETDE: 1976-06-07

USE sp logging

**SPORADIC E**

\*BT1 e region

**SPORES**

NT1 bacterial spores  
 NT1 conidia  
 NT1 microspores  
 RT fungi  
 RT reproduction

**SPOROZOA**

INIS: 1993-07-19; ETDE: 1981-06-17

BT1 parasites  
 \*BT1 protozoa  
 NT1 babesidae  
 NT1 plasmodium

**SPORT FACILITIES**

2004-09-14

UF facilities (sport)  
 RT buildings  
 RT recreational areas

**SPOT MARKET**

INIS: 1992-01-29; ETDE: 1979-12-10

UF rotterdam spot market  
 BT1 market  
 RT economics  
 RT prices  
 RT supply and demand

**spot welding**

INIS: 1976-03-17; ETDE: 2002-06-13

USE welding

**spot welds**

INIS: 1976-03-17; ETDE: 2002-06-13

USE welded joints

**SPR-2 REACTOR**

Sandia Laboratories, Albuquerque, New Mexico, USA.

UF sandia pulsed reactor-ii  
 UF spr-ii reactor  
 \*BT1 pulsed reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**SPR-3 REACTOR**

Sandia Laboratories, Albuquerque, New Mexico, USA.

UF sandia pulsed reactor-iii  
 UF spr-iii reactor  
 \*BT1 pulsed reactors  
 \*BT1 research reactors

**SPR-4 REACTOR**

INIS: 1984-06-21; ETDE: 1982-08-11

Sandia Laboratories, Albuquerque, New Mexico, USA.

UF sandia pulse reactor-4  
 UF sandia pulsed reactor-iv  
 UF spr-iv reactor  
 \*BT1 pulsed reactors  
 \*BT1 research reactors

**spr-ii reactor**

USE spr-2 reactor

**spr-iii reactor**

INIS: 1984-06-21; ETDE: 2002-06-13

USE spr-3 reactor

**spr-iv reactor**

INIS: 1984-06-21; ETDE: 2002-06-13

USE spr-4 reactor

**SPRAY COATING**

UF metal spraying  
 \*BT1 surface coating  
 NT1 flame spraying  
 NT1 plasma arc spraying

RT sprayed coatings

**SPRAY COOLING**

INIS: 1976-07-30; ETDE: 1976-11-01

BT1 cooling  
 RT droplets  
 RT fog cooling  
 RT sprays

**SPRAY DRYING**

BT1 drying  
 RT dry scrubbers  
 RT evaporation

**spray ponds**

1992-06-05

USE cooling ponds  
 USE sprays

**spray systems (containment)**

USE containment spray systems

**SPRAYED COATINGS**

BT1 coatings  
 RT spray coating

**SPRAYS**

UF fog (sprays)  
 UF spray ponds  
 RT atomization  
 RT dispersions  
 RT droplets  
 RT scrubbers  
 RT scrubbing  
 RT spargers  
 RT spray cooling  
 RT washout

**SPREAD F**

\*BT1 f region

**SPRING-8 STORAGE RING**

INIS: 1990-09-24; ETDE: 1990-10-09

BT1 storage rings  
 \*BT1 synchrotron radiation sources

**SPRINGS**

Mechanical springs only.

BT1 machine parts  
 RT mechanical vibrations  
 RT torsion

**springs (water)**

INIS: 2000-04-12; ETDE: 1980-06-06

USE water springs

**SPROUT INHIBITION**

BT1 inhibition  
 RT garlic  
 RT onions  
 RT potatoes  
 RT storage life

**SPROUTING**

RT plant growth  
 RT plants  
 RT vernalization

**SPRUCES**

INIS: 1991-12-13; ETDE: 1983-03-23

\*BT1 conifers  
 \*BT1 trees

**spur reactor**

2000-04-12

Space Power Unit Reactor, 300 kw.

USE space power reactors

**SPURIONS**

\*BT1 postulated particles  
 \*BT1 strange particles  
 RT selection rules

**SPUTTER-ION PUMPS**

- \*BT1 vacuum pumps
- RT getters
- RT penning discharges
- RT philips gages
- RT sputtering

**SPUTTERING**

- NT1 cathode sputtering
- NT1 neutron sputtering
- RT arc welding
- RT deposition
- RT ion beams
- RT sputter-ion pumps
- RT vacuum coating
- RT vapor deposited coatings

**SQUALANE**

- \*BT1 alkanes

**SQUALENE**

- \*BT1 polyenes
- \*BT1 terpenes

**SQUARE CONFIGURATION**

- \*BT1 rectangular configuration

**square-wave generators**

- USE function generators

**SQUARE-WELL POTENTIAL**

- \*BT1 nuclear potential

**SQUARYLIUM DYES**

INIS: 2000-04-12; ETDE: 1979-05-03

- BT1 dyes
- RT aromatics
- RT heterocyclic compounds
- RT organic nitrogen compounds

**SQUID DEVICES**

*Superconducting Quantum Interference Devices.*

- UF *superconducting quantum interference devices*
- \*BT1 fluxmeters
- \*BT1 microwave equipment
- BT1 superconducting devices
- RT interferometers
- RT rf systems
- RT superconductors

**SQUIRRELS**

1996-11-13

- \*BT1 rodents

**sr-0f reactor**

2000-04-12

(Prior to June 1991 this was a valid ETDE descriptor.)

- USE zero power reactors

**SR-1 REACTOR**

- \*BT1 enriched uranium reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**SR-305 REACTOR**

*Savannah River Plant, Aiken, South Carolina, USA. Shut down in 1981.*

- UF *savannah river test pile-305*
- \*BT1 graphite moderated reactors
- \*BT1 production reactors
- \*BT1 thermal reactors

**SR-3P REACTOR**

ETDE: 1975-09-11

- \*BT1 thermal reactors
- \*BT1 training reactors
- \*BT1 water cooled reactors

**SR-OA REACTOR**

*Skoda National Corporations, Plzen, Czech Republic.*

- UF *skoda (plzen) reactor*
- \*BT1 enriched uranium reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors
- \*BT1 zero power reactors

**sr-ob reactor**

- USE subcritical assemblies

**SRC-II PROCESS**

INIS: 2000-04-12; ETDE: 1977-08-24  
*Modified SRC process with higher field of liquid and gaseous products which are recovered by vacuum distillation.*

- \*BT1 coal liquefaction
- RT src process

**SRC PROCESS**

2000-04-04

- UF *pittsburg-midway solvent refined coal process*
- UF *solvent-refined coal process*
- SF *solvent-refining coal plants*
- RT *solvent-refined coal*
- RT *src-ii process*

**SRE REACTOR**

*Rockwell International, Santa Susana, California, USA.*

- UF *sodium reactor experiment*
- \*BT1 enriched uranium reactors
- \*BT1 experimental reactors
- \*BT1 power reactors
- \*BT1 sgr type reactors
- \*BT1 thermal reactors
- \*BT1 thorium reactors

**SRI LANKA**

- UF *ceylon*
- BT1 asia
- BT1 developing countries
- BT1 islands
- RT indian ocean

**sriracha reactor**

INIS: 1985-03-15; ETDE: 1985-04-09

- USE ao-phai-1 reactor

**srn**

INIS: 1984-10-23; ETDE: 1984-11-08

*Standard Reference Materials.*

- USE calibration standards

**SRR-1 REACTOR**

2004-03-15

*Atomic Energy Commission, Damascus, Syria.*

- UF *syrian miniature neutron source reactor*
- \*BT1 mnsr type reactors

**SRR-UTR-100 REACTOR**

*Scottish Universities Research and Reactor Centre, East Kilbride by Glasgow, United Kingdom.*

- UF *glasgow utr-100 reactor*
- UF *scottish research reactor center utr-100 reactor*
- \*BT1 argonaut type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**ssc**

INIS: 1985-01-18; ETDE: 2002-06-13

*Superconducting Super Collider.*

- USE superconducting super collider

**SSDL**

INIS: 1980-07-24; ETDE: 1980-08-12  
*Secondary Standard Dosimetry Laboratories.*

- UF *secondary standard dosimetry laboratories*
- RT calibration standards
- RT dosimetry

**SSPX DEVICE**

INIS: 1999-07-26; ETDE: 1999-09-03  
*Sustained Spheromak Physics Experiment, Lawrence Livermore National Laboratory, USA.*

- \*BT1 spheromak devices

**ST LAWRENCE RIVER**

INIS: 1976-07-06; ETDE: 1976-08-25

- UF *saint lawrence river*
- \*BT1 rivers
- RT new york
- RT ontario
- RT quebec

**st lucie-1 reactor**

INIS: 1990-06-25; ETDE: 2002-06-13

- USE lucie-1 reactor

**st lucie-2 reactor**

INIS: 1990-06-25; ETDE: 2002-06-13

- USE lucie-2 reactor

**ST PETERSBURG INSTITUTE OF NUCLEAR PHYSICS**

1997-08-08

*Until July 1997 this was known as the LENINGRAD INSTITUTE OF NUCLEAR PHYSICS.*

- UF *leningrad institute of nuclear physics*
- \*BT1 russian organizations

**ST TOKAMAK**

UF *tokamak model st*

- \*BT1 tokamak devices

**staat amt atomsicherheit und strahlenschutz**

INIS: 2000-04-12; ETDE: 1985-08-09

- USE bundesamt fuer strahlenschutz

**staatliches amt fuer atomsicherheit und strahlenschutz**

INIS: 1995-02-20; ETDE: 2002-06-13

- USE bundesamt fuer strahlenschutz

**STABILITY**

- NT1 orbit stability
- NT1 phase stability
- NT1 reactor stability
- NT1 slope stability
- RT equilibrium
- RT instability
- RT lyapunov method
- RT stabilization
- RT thixotropy

**stability (fission reactor)**

INIS: 1982-11-29; ETDE: 2002-06-13

- USE reactor stability

**stability (reactor)**

2000-04-12

- USE reactor stability

**STABILIZATION**

1998-10-30

(Until October 1998 this concept was indexed by STABILITY.)

- RT inhibition
- RT stability
- RT var control systems

**STABILIZED SUPERCONDUCTORS**

BT1 superconductors

**STABLE ISOTOPES**

BT1 isotopes

NT1 aluminium 27  
 NT1 antimony 121  
 NT1 antimony 123  
 NT1 argon 36  
 NT1 argon 38  
 NT1 argon 40  
 NT1 arsenic 75  
 NT1 barium 130  
 NT1 barium 132  
 NT1 barium 134  
 NT1 barium 135  
 NT1 barium 136  
 NT1 barium 137  
 NT1 barium 138  
 NT1 beryllium 9  
 NT1 bismuth 209  
 NT1 boron 10  
 NT1 boron 11  
 NT1 bromine 79  
 NT1 bromine 81  
 NT1 cadmium 106  
 NT1 cadmium 108  
 NT1 cadmium 110  
 NT1 cadmium 111  
 NT1 cadmium 112  
 NT1 cadmium 113  
 NT1 cadmium 114  
 NT1 cadmium 116  
 NT1 calcium 40  
 NT1 calcium 42  
 NT1 calcium 43  
 NT1 calcium 44  
 NT1 calcium 46  
 NT1 calcium 48  
 NT1 carbon 12  
 NT1 carbon 13  
 NT1 cerium 136  
 NT1 cerium 138  
 NT1 cerium 140  
 NT1 cerium 142  
 NT1 cesium 133  
 NT1 chlorine 35  
 NT1 chlorine 37  
 NT1 chromium 50  
 NT1 chromium 52  
 NT1 chromium 53  
 NT1 chromium 54  
 NT1 cobalt 59  
 NT1 copper 63  
 NT1 copper 65  
 NT1 deuterium  
 NT1 dysprosium 156  
 NT1 dysprosium 158  
 NT1 dysprosium 160  
 NT1 dysprosium 161  
 NT1 dysprosium 162  
 NT1 dysprosium 163  
 NT1 dysprosium 164  
 NT1 erbium 162  
 NT1 erbium 164  
 NT1 erbium 166  
 NT1 erbium 167  
 NT1 erbium 168  
 NT1 erbium 170  
 NT1 europium 151  
 NT1 europium 153  
 NT1 fluorine 19  
 NT1 gadolinium 154  
 NT1 gadolinium 155  
 NT1 gadolinium 156  
 NT1 gadolinium 157  
 NT1 gadolinium 158  
 NT1 gadolinium 160  
 NT1 gallium 69

NT1 gallium 71  
 NT1 germanium 70  
 NT1 germanium 72  
 NT1 germanium 73  
 NT1 germanium 74  
 NT1 germanium 76  
 NT1 gold 197  
 NT1 hafnium 176  
 NT1 hafnium 177  
 NT1 hafnium 178  
 NT1 hafnium 179  
 NT1 hafnium 180  
 NT1 helium 3  
   NT2 helium 3 a  
   NT2 helium 3 al  
   NT2 helium 3 b  
 NT1 helium 4  
   NT2 helium i  
   NT2 helium ii  
 NT1 holmium 165  
 NT1 hydrogen 1  
 NT1 indium 113  
 NT1 iodine 127  
 NT1 iridium 191  
 NT1 iridium 193  
 NT1 iron 54  
 NT1 iron 56  
 NT1 iron 57  
 NT1 iron 58  
 NT1 krypton 78  
 NT1 krypton 80  
 NT1 krypton 82  
 NT1 krypton 83  
 NT1 krypton 84  
 NT1 krypton 86  
 NT1 lanthanum 139  
 NT1 lead 204  
 NT1 lead 206  
 NT1 lead 207  
 NT1 lead 208  
 NT1 lithium 6  
 NT1 lithium 7  
 NT1 lutetium 175  
 NT1 magnesium 24  
 NT1 magnesium 25  
 NT1 magnesium 26  
 NT1 manganese 55  
 NT1 mercury 196  
 NT1 mercury 198  
 NT1 mercury 199  
 NT1 mercury 200  
 NT1 mercury 201  
 NT1 mercury 202  
 NT1 mercury 204  
 NT1 molybdenum 100  
 NT1 molybdenum 92  
 NT1 molybdenum 94  
 NT1 molybdenum 95  
 NT1 molybdenum 96  
 NT1 molybdenum 97  
 NT1 molybdenum 98  
 NT1 neodymium 142  
 NT1 neodymium 143  
 NT1 neodymium 145  
 NT1 neodymium 146  
 NT1 neodymium 148  
 NT1 neodymium 150  
 NT1 neon 20  
 NT1 neon 21  
 NT1 neon 22  
 NT1 nickel 58  
 NT1 nickel 60  
 NT1 nickel 61  
 NT1 nickel 62  
 NT1 nickel 64  
 NT1 niobium 93  
 NT1 nitrogen 14  
 NT1 nitrogen 15  
 NT1 osmium 184

NT1 osmium 186  
 NT1 osmium 187  
 NT1 osmium 188  
 NT1 osmium 189  
 NT1 osmium 190  
 NT1 osmium 192  
 NT1 oxygen 16  
 NT1 oxygen 17  
 NT1 oxygen 18  
 NT1 palladium 102  
 NT1 palladium 104  
 NT1 palladium 105  
 NT1 palladium 106  
 NT1 palladium 108  
 NT1 palladium 110  
 NT1 phosphorus 31  
 NT1 platinum 192  
 NT1 platinum 194  
 NT1 platinum 195  
 NT1 platinum 196  
 NT1 platinum 198  
 NT1 potassium 39  
 NT1 potassium 41  
 NT1 praseodymium 141  
 NT1 rhenium 185  
 NT1 rhenium 187  
 NT1 rhodium 103  
 NT1 rubidium 85  
 NT1 ruthenium 100  
 NT1 ruthenium 101  
 NT1 ruthenium 102  
 NT1 ruthenium 104  
 NT1 ruthenium 96  
 NT1 ruthenium 98  
 NT1 ruthenium 99  
 NT1 samarium 144  
 NT1 samarium 148  
 NT1 samarium 149  
 NT1 samarium 150  
 NT1 samarium 152  
 NT1 samarium 154  
 NT1 scandium 45  
 NT1 selenium 74  
 NT1 selenium 76  
 NT1 selenium 77  
 NT1 selenium 78  
 NT1 selenium 80  
 NT1 selenium 82  
 NT1 silicon 28  
 NT1 silicon 29  
 NT1 silicon 30  
 NT1 silver 107  
 NT1 silver 109  
 NT1 sodium 23  
 NT1 strontium 84  
 NT1 strontium 86  
 NT1 strontium 87  
 NT1 strontium 88  
 NT1 sulfur 32  
 NT1 sulfur 33  
 NT1 sulfur 34  
 NT1 sulfur 36  
 NT1 tantalum 181  
 NT1 tellurium 120  
 NT1 tellurium 122  
 NT1 tellurium 123  
 NT1 tellurium 124  
 NT1 tellurium 125  
 NT1 tellurium 126  
 NT1 tellurium 128  
 NT1 tellurium 130  
 NT1 terbium 159  
 NT1 thallium 203  
 NT1 thallium 205  
 NT1 thulium 169  
 NT1 tin 112  
 NT1 tin 114  
 NT1 tin 115  
 NT1 tin 116

**NT1** tin 117  
**NT1** tin 118  
**NT1** tin 119  
**NT1** tin 120  
**NT1** tin 122  
**NT1** tin 124  
**NT1** titanium 46  
**NT1** titanium 47  
**NT1** titanium 48  
**NT1** titanium 49  
**NT1** titanium 50  
**NT1** tungsten 180  
**NT1** tungsten 182  
**NT1** tungsten 183  
**NT1** tungsten 184  
**NT1** tungsten 186  
**NT1** vanadium 51  
**NT1** xenon 124  
**NT1** xenon 126  
**NT1** xenon 128  
**NT1** xenon 129  
**NT1** xenon 130  
**NT1** xenon 131  
**NT1** xenon 132  
**NT1** xenon 134  
**NT1** xenon 136  
**NT1** ytterbium 168  
**NT1** ytterbium 170  
**NT1** ytterbium 171  
**NT1** ytterbium 172  
**NT1** ytterbium 173  
**NT1** ytterbium 174  
**NT1** ytterbium 176  
**NT1** yttrium 89  
**NT1** zinc 64  
**NT1** zinc 66  
**NT1** zinc 67  
**NT1** zinc 68  
**NT1** zinc 70  
**NT1** zirconium 90  
**NT1** zirconium 91  
**NT1** zirconium 92  
**NT1** zirconium 94  
**NT1** zirconium 96  
*RT* carriers  
*RT* magic nuclei  
*RT* translocation

**STACK DISPOSAL**

\*BT1 waste disposal  
*RT* chemical effluents  
*RT* electrostatic precipitators  
*RT* gaseous wastes  
*RT* ground release  
*RT* plumes  
*RT* pollution control equipment  
*RT* radioactive effluents  
*RT* radioactive waste disposal  
*RT* release limits  
*RT* stacks

**STACKING FAULTS**

\*BT1 crystal defects  
*RT* dislocations

**STACKS**

*RT* buildings  
*RT* gaseous wastes  
*RT* plumes  
*RT* radioactive clouds  
*RT* smokes  
*RT* stack disposal  
*RT* ventilation

**STACY REACTOR**

*INIS: 2001-09-25; ETDE: 2001-11-30*

*JAERI, Tokai, Ibaraki, Japan.*

*UF static experiment critical facility*

\*BT1 enriched uranium reactors  
 \*BT1 plutonium reactors

\*BT1 zero power reactors  
*RT* tracy reactor

**STADE REACTOR**

*UF kernkraftwerk stade*  
*UF kks reactor*  
 \*BT1 pwr type reactors

**STAGED COMBUSTION**

*INIS: 1992-07-21; ETDE: 1983-07-07*  
*Combustion in which a fuel-rich stage is followed by an air-rich stage to control NOx emissions.*

\*BT1 combustion  
*RT* air pollution abatement

**STAGNATION**

*RT* fluid flow

**STAGNATION POINT**

*INIS: 1993-05-06; ETDE: 1976-09-14*  
*Point in a field of flow about a body where the fluid particles have zero velocity with respect to the body.*

*RT* flames  
*RT* fluid mechanics

**STAINLESS STEEL-16-8-2**

*INIS: 1993-10-03; ETDE: 1975-10-28*  
 \*BT1 steel-cr16ni8mo2

**STAINLESS STEEL-17-4PH**

*INIS: 1993-10-03; ETDE: 1978-02-15*  
 \*BT1 steel-cr17cu4ni4nb-l

**STAINLESS STEEL-17-7PH**

*INIS: 2000-04-12; ETDE: 1979-05-29*  
 \*BT1 aluminium alloys  
 \*BT1 chromium-nickel steels

**STAINLESS STEEL-18-10**

*INIS: 1993-10-03; ETDE: 1979-05-29*  
 \*BT1 steel-cr18ni10

**stainless steel-18-4-1**

*INIS: 2000-04-12; ETDE: 1979-11-23*  
 (Prior to 1989 this was a valid ETDE descriptor.)

USE stainless steels

**STAINLESS STEEL-18-8**

*1993-10-03*  
 \*BT1 steel-cr18ni8

**stainless steel-19-9dl**

*2000-04-12*  
 (Prior to 1989 this was a valid ETDE descriptor.)  
 USE stainless steels

**STAINLESS STEEL-20-25**

*1993-10-03*  
 \*BT1 steel-ni25cr20

**STAINLESS STEEL-21-6-9**

*INIS: 1993-10-03; ETDE: 1979-12-10*  
*UF nitronic 40*  
 \*BT1 steel-cr21mn9ni6

**STAINLESS STEEL-301**

*1993-10-03*  
 \*BT1 steel-cr17ni7

**STAINLESS STEEL-302**

*1993-10-03*  
 \*BT1 steel-cr18ni9

**STAINLESS STEEL-303**

*INIS: 2000-04-12; ETDE: 1985-10-10*  
 \*BT1 chromium-nickel steels

**STAINLESS STEEL-304**

*1993-10-03*  
 \*BT1 steel-cr19ni10

**STAINLESS STEEL-304L**

*1993-10-03*  
 \*BT1 steel-cr19ni10-l

**STAINLESS STEEL-305**

*INIS: 1993-10-03; ETDE: 1976-04-19*  
 \*BT1 steel-cr18ni12

**STAINLESS STEEL-308**

*1993-10-03*  
 \*BT1 steel-cr20ni11

**STAINLESS STEEL-308L**

*INIS: 1993-10-03; ETDE: 1978-10-23*  
 \*BT1 steel-cr20ni11-l

**STAINLESS STEEL-309**

*1993-10-03*  
 \*BT1 steel-cr23ni14

**STAINLESS STEEL-309S**

*1993-10-03*  
 \*BT1 steel-cr23ni14

**STAINLESS STEEL-310**

*1993-10-03*  
 \*BT1 steel-cr25ni20

**STAINLESS STEEL-316**

*1993-10-03*  
 \*BT1 steel-cr17ni12mo3

**STAINLESS STEEL-316L**

*1993-10-03*  
 \*BT1 steel-cr17ni12mo3-l

**STAINLESS STEEL-317**

*INIS: 2000-04-12; ETDE: 1978-09-11*  
 \*BT1 stainless steels

**STAINLESS STEEL-318**

*2000-04-12*  
 \*BT1 stainless steels

**STAINLESS STEEL-321**

*1993-10-03*  
 \*BT1 steel-cr18ni10ti

**STAINLESS STEEL-329**

*2000-04-12*  
 \*BT1 chromium-nickel steels

**stainless steel-330**

*INIS: 1997-01-28; ETDE: 1977-07-23*  
 (Until October 1996 this was a valid descriptor.)  
 USE austenitic steels  
 USE chromium-nickel steels

**STAINLESS STEEL-347**

*1993-10-03*  
 \*BT1 steel-cr18ni11nb

**STAINLESS STEEL-348**

*1993-10-03*  
 \*BT1 steel-cr18ni11nbco

**STAINLESS STEEL-403**

*1993-10-03*  
 \*BT1 steel-cr12

**STAINLESS STEEL-405**

*1993-10-03*  
 \*BT1 steel-cr13al

**STAINLESS STEEL-406**

*2000-04-12*  
 \*BT1 chromium steels

**STAINLESS STEEL-410**

*1999-10-08*  
 (Until October 1999 this was indexed by STEEL-CR13.)  
 \*BT1 steel-cr13



**STAINLESS STEEL-422**

INIS: 2000-04-12; ETDE: 1976-11-01

\*BT1 stainless steels

**STAINLESS STEEL-430**

1993-10-03

\*BT1 steel-cr16

**stainless steel-431**

INIS: 1997-01-28; ETDE: 1977-04-12

(Until October 1996 this was a valid descriptor.)

USE steel-cr16ni

**STAINLESS STEEL-440**

1993-10-03

\*BT1 steel-cr17mo

**STAINLESS STEEL-446**

1993-10-03

\*BT1 steel-cr25

**stainless steel-441n**

INIS: 1997-01-28; ETDE: 1981-03-13

(Until October 1996 this was a valid descriptor.)

USE chromium steels  
USE low carbon-high alloy steels  
USE molybdenum alloys  
USE nickel alloys**stainless steel-am-350**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE steel-cr17ni4mo3

**STAINLESS STEEL-FV-548**

INIS: 2000-04-12; ETDE: 1979-05-25

\*BT1 stainless steels

**stainless steel-fv548**

1983-11-07

USE steel-cr17ni12monb

**STAINLESS STEEL-JBK-75**

INIS: 2000-04-12; ETDE: 1980-01-24

\*BT1 nickel alloys  
\*BT1 stainless steels  
\*BT1 titanium alloys**STAINLESS STEEL M-50**

INIS: 2000-04-12; ETDE: 1979-11-23

\*BT1 molybdenum alloys  
\*BT1 stainless steels**STAINLESS STEEL-PH-15-7-MO**

INIS: 2000-04-12; ETDE: 1979-05-29

\*BT1 chromium-nickel steels

**stainless steel-z2cn18-10**

INIS: 1997-01-28; ETDE: 1979-05-29

(Until October 1996 this was a valid descriptor.)

USE steel-cr18ni10-l

**stainless steel-z2cn18-10n**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**stainless steel-z2cnd17-12**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr17ni12mo3-l

**stainless steel-z3cmn18-8-6n**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**stainless steel-z3cnd17-12**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr17ni12mo3-l

**stainless steel-z3cnd18-13**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**stainless steel-z6cn18-10**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr18ni10

**stainless steel-z6cnd17-12**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr17ni12mo3

**stainless steel-z6cnd17-13b**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**stainless steel-z6cndt17-13b**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**stainless steel-z6cnt18-10**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr18ni10ti

**stainless steel-z6cnt18-12b**

INIS: 2000-04-12; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**stainless steel-z8cnt18-10**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr18ni10ti

**STAINLESS STEEL-ZCND17-13**

INIS: 1993-10-03; ETDE: 1979-05-29

\*BT1 manganese alloys  
\*BT1 silicon additions  
\*BT1 steel-cr17ni12mo3-l**STAINLESS STEELS**

1996-07-23

(The UF terms below have been valid ETDE descriptors.)

UF *croloy 299*  
UF *stainless steel-18-4-1*  
UF *stainless steel-19-9dl*  
UF *steel-000kh25*  
UF *steel-000kh28*  
UF *steel-00kh20n32t*  
UF *steel-03kh13ag13*  
UF *steel-0kh18g8n2t*  
UF *steel-cr17mn15nni*  
UF *tenelon*

\*BT1 high alloy steels

NT1 chromium-nickel steels

NT2 alloy-d-9

NT2 carpenter

NT2 chromium-nickel-molybdenum steels

NT3 alloy-m-813

NT3 steel-cr11ni10mo2ti-l

NT3 steel-cr15ni15motib

NT3 steel-cr16ni13monbv

NT3 steel-cr16ni15mo3nb

NT3 steel-cr16ni16monb

NT3 steel-cr16ni8mo2

NT4 stainless steel-16-8-2

NT3 steel-cr16ni9mo2

NT3 steel-cr17ni12mo3

NT4 stainless steel-316

NT3 steel-cr17ni12mo3-l

NT4 stainless steel-316l

NT4 stainless steel-zcnd17-13

NT3 steel-cr17ni12monb

NT3 steel-cr17ni13mo2ti

NT3 steel-cr17ni13mo3ti

NT3 steel-ni26cr15ti2moyalb

NT4 alloy-a-286

NT2 durco

NT2 enduro

NT2 stainless steel-17-7ph

NT2 stainless steel-303

NT2 stainless steel-329

NT2 stainless steel-ph-15-7-mo

NT2 steel-cr17ni13

NT2 steel-cr17ni7

NT3 stainless steel-301

NT2 steel-cr18ni10

NT3 stainless steel-18-10

NT2 steel-cr18ni10-l

NT2 steel-cr18ni10ti

NT3 stainless steel-321

NT2 steel-cr18ni11

NT3 steel-x6crni1811

NT2 steel-cr18ni11nb

NT3 stainless steel-347

NT2 steel-cr18ni11nbc0

NT3 stainless steel-348

NT2 steel-cr18ni12

NT3 stainless steel-305

NT2 steel-cr18ni12ti

NT2 steel-cr18ni8

NT3 stainless steel-18-8

NT2 steel-cr18ni9

NT3 stainless steel-302

NT2 steel-cr18ni9ti

NT2 steel-cr19ni10

NT3 stainless steel-304

NT2 steel-cr19ni10-l

NT3 stainless steel-304l

NT2 steel-cr20ni11

NT3 stainless steel-308

NT2 steel-cr20ni11-l

NT3 stainless steel-308l

NT2 steel-cr23ni14

NT3 stainless steel-309

NT3 stainless steel-309s

NT2 steel-cr23ni18

NT2 steel-cr25ni20

NT3 alloy-hk-40

NT3 stainless steel-310

NT2 steel-ni25cr20

NT3 stainless steel-20-25

NT2 steel-ni36cr12ti3al-l

NT2 timken alloys

NT1 chromium steels

NT2 chromium-molybdenum steels

NT3 chromium-nickel-molybdenum steels

NT4 alloy-m-813

NT4 steel-cr11ni10mo2ti-l

NT4 steel-cr15ni15motib

NT4 steel-cr16ni13monbv

NT4 steel-cr16ni15mo3nb

NT4 steel-cr16ni16monb

NT4 steel-cr16ni8mo2

NT5 stainless steel-16-8-2

NT4 steel-cr16ni9mo2

NT4 steel-cr17ni12mo3

**NT5** stainless steel-316  
**NT4** steel-cr17ni12mo3-l  
**NT5** stainless steel-316l  
**NT5** stainless steel-zcnd17-13  
**NT4** steel-cr17ni12monb  
**NT4** steel-cr17ni13mo2ti  
**NT4** steel-cr17ni13mo3ti  
**NT4** steel-ni26cr15ti2movalb  
**NT5** alloy-a-286  
**NT2** magnet steel-ks  
**NT2** miduale  
**NT2** stainless steel-406  
**NT2** steel-cr10mo2  
**NT2** steel-cr12  
**NT3** stainless steel-403  
**NT2** steel-cr12moniv  
**NT2** steel-cr12mov  
**NT3** alloy-ht-9  
**NT2** steel-cr13  
**NT3** stainless steel-410  
**NT2** steel-cr13al  
**NT3** stainless steel-405  
**NT2** steel-cr16  
**NT3** stainless steel-430  
**NT2** steel-cr16ni  
**NT2** steel-cr17cu4ni4nb-l  
**NT3** stainless steel-17-4ph  
**NT2** steel-cr17mo  
**NT3** stainless steel-440  
**NT2** steel-cr17ni4mo3  
**NT2** steel-cr18  
**NT2** steel-cr25  
**NT3** stainless steel-446  
**NT2** steel-cr9mo  
**NT2** steel-cr9monbv  
**NT1** low carbon-high alloy steels  
**NT2** steel-cr11ni10mo2ti-l  
**NT2** steel-cr17cu4ni4nb-l  
**NT3** stainless steel-17-4ph  
**NT2** steel-cr17ni12mo3-l  
**NT3** stainless steel-316l  
**NT3** stainless steel-zcnd17-13  
**NT2** steel-cr18ni10-l  
**NT2** steel-cr19ni10-l  
**NT3** stainless steel-304l  
**NT2** steel-cr20ni11-l  
**NT3** stainless steel-308l  
**NT2** steel-ni36cr12ti3al-l  
**NT1** stainless steel-317  
**NT1** stainless steel-318  
**NT1** stainless steel-422  
**NT1** stainless steel-fv-548  
**NT1** stainless steel-jbk-75  
**NT1** stainless steel m-50  
**NT1** steel-cr21mn9ni6  
**NT2** stainless steel-21-6-9  
**NT1** sweetalloy  
*RT* corrosion resistant alloys  
*RT* heat resisting alloys

**STAINS**

*RT* banding techniques  
*RT* cleaning  
*RT* dyes  
*RT* histological techniques

**STAMEN**

*UF* anthers  
*UF* stamen hairs  
**BT1** flowers

**stamen hairs**

USE stamen

**STAND DENSITY**

*INIS: 1999-04-22; ETDE: 1988-01-13*  
*Number of trees per unit area.*  
*RT* biomass  
*RT* forests

**standard electroweak model**

*INIS: 2000-04-12; ETDE: 1985-03-26*  
 USE weinberg-salam gauge model

**STANDARD INDUSTRIAL****CLASSIFICATION**

*INIS: 2000-04-12; ETDE: 1980-08-12*  
**BT1** classification  
*RT* standards

**standard man**

USE reference man

**STANDARD MODEL**

*INIS: 1995-08-10; ETDE: 1985-03-26*  
*For the local gauge theory based on a*  
*SU(3)xSU(2)xU(1) symmetry that describes*  
*strong, weak and electromagnetic interactions*  
*among elementary particles.*

**\*BT1** grand unified theory  
*RT* electromagnetic interactions  
*RT* kobayashi-maskawa matrix  
*RT* quantum chromodynamics  
*RT* quantum electrodynamics  
*RT* strong interactions  
*RT* weak interactions  
*RT* weinberg angle  
*RT* weinberg-salam gauge model

**STANDARD OF LIVING**

*INIS: 2000-04-05; ETDE: 1978-10-23*  
 (From November 1978 till March 1997  
 QUALITY OF LIFE was a valid ETDE  
 descriptor.)

*UF* living standards  
*UF* quality of life  
*SF* way of life  
*RT* economic development  
*RT* income

**standard reference materials**

*INIS: 1984-10-23; ETDE: 1984-11-08*  
 USE calibration standards

**STANDARDIZATION**

1977-02-08  
*RT* benchmarks  
*RT* calibration standards  
*RT* cen  
*RT* energy efficiency standards  
*RT* quality assurance  
*RT* quality control  
*RT* safety standards  
*RT* specifications  
*RT* standards  
*RT* standards document

**STANDARDIZED TERMINOLOGY**

*UF* controlled terminology  
*UF* thesauri  
*UF* vocabulary (controlled)  
*RT* cen  
*RT* information retrieval  
*RT* information systems  
*RT* iso  
*RT* machine translations

**STANDARDS**

1991-08-14  
*UF* automobile efficiency standards  
**NT1** calibration standards  
**NT1** energy efficiency standards  
**NT1** safety standards  
**NT2** annual limit of intake  
**NT2** dose limits  
**NT2** maximum acceptable contamination  
**NT2** maximum inhalation quantity  
**NT2** maximum permissible activity  
**NT2** maximum permissible body burden  
**NT2** maximum permissible  
 concentration

**NT2** maximum permissible dose  
**NT2** maximum permissible exposure  
**NT2** maximum permissible intake  
**NT2** maximum permissible level  
*RT* benchmarks  
*RT* certification  
*RT* compliance  
*RT* international electrotechnical  
 commission  
*RT* specifications  
*RT* standard industrial classification  
*RT* standardization  
*RT* standards document

**standards (calibration)**

*ETDE: 2002-06-13*  
 USE calibration standards

**standards (safety)**

*ETDE: 2002-06-13*  
 USE safety standards

**STANDARDS DOCUMENT**

*INIS: 1987-09-22; ETDE: 1987-10-23*  
*Use only in conjunction with literary indicator*  
*W for indexing the text of national or*  
*international standards.*

*RT* cen  
*RT* international electrotechnical  
 commission  
*RT* iso  
*RT* standardization  
*RT* standards

**STANDBY MODE**

2004-05-13  
*RT* electrical equipment  
*RT* electronic equipment  
*RT* operation  
*RT* start-up

**standing crop**

*INIS: 2000-04-12; ETDE: 1977-01-28*  
 USE biomass

**STANDING WAVES**

*UF* waves (standing)  
*RT* electromagnetic radiation  
*RT* mechanical vibrations  
*RT* steady-state conditions  
*RT* travelling waves  
*RT* wave propagation  
*RT* waveguides  
*RT* wavelengths

**STANFORD 1.2-GEV LINAC**

1995-03-02  
 (Until February 1995 this descriptor was  
 spelled STANFORD 1200-MEV LINAC.)  
*UF* stanford 1200-mev linac  
**\*BT1** linear accelerators  
*RT* stanford linear accelerator center

**stanford 1200-mev linac**

*INIS: 1995-03-02; ETDE: 2002-06-13*  
 (Until February 1995 this was a valid  
 descriptor.)  
 USE stanford 1.2-gev linac

**STANFORD 20-GEV LINAC**

*UF* slac 2-mile linac  
**\*BT1** linear accelerators  
*RT* stanford linear accelerator center  
*RT* stanford linear collider

**stanford large detector**

*INIS: 1991-12-17; ETDE: 2002-06-13*  
 USE stanford linear collider detector

**STANFORD LINEAR ACCELERATOR CENTER**

INIS: 1995-02-17; ETDE: 1976-12-16

UF *slac*  
 \*BT1 us doe  
 \*BT1 us erda  
 RT california  
 RT stanford 1.2-gev linac  
 RT stanford 20-gev linac  
 RT stanford linear collider

**STANFORD LINEAR COLLIDER**

INIS: 1984-02-22; ETDE: 1983-06-20

UF *slc*  
 \*BT1 linear colliders  
 RT accelerator facilities  
 RT stanford 20-gev linac  
 RT stanford linear accelerator center  
 RT stanford linear collider detector

**STANFORD LINEAR COLLIDER DETECTOR**

INIS: 1992-01-14; ETDE: 1986-01-14  
*A detector for the SLAC Linear Collider (SLC) designed to study electron-positron interactions up to 100 GeV.*

UF *slc detectors*  
 UF *stanford large detector*  
 SF *sld*  
 \*BT1 radiation detectors  
 RT cherenkov counters  
 RT drift chambers  
 RT shower counters  
 RT stanford linear collider

**STANLEIGH MINE**

INIS: 1982-10-28; ETDE: 1982-11-30

\*BT1 uranium mines  
 RT elliot lake

**STANNATES**

1997-06-17

*Specific compounds, except those of significance to energy research and development, should be indexed by coordination of a descriptor of the form (cation) compounds and the above anion descriptor.*

BT1 oxygen compounds  
 BT1 tin compounds  
 NT1 cadmium stannates  
 RT tin oxides

**STAPHYLOCOCCUS**

\*BT1 bacteria

**stapp theory**

1996-07-08

(Until June 1996 this was a valid descriptor.)

SEE nucleons  
 SEE wave propagation

**stapp-ypsilantis-metropolis theory**

1996-07-08

(Prior to August 1996 STAPP THEORY was a valid ETDE descriptor.)

SEE nucleons  
 SEE wave propagation

**STAR ACCRETION**

UF *accretion (stars)*  
 \*BT1 star evolution  
 RT accretion disks  
 RT cosmic dust  
 RT cosmological models  
 RT eruptive variable stars  
 RT interstellar grains  
 RT interstellar space  
 RT planet-system accretion  
 RT protostars  
 RT stars

**STAR BURNING**

INIS: 1978-08-30; ETDE: 1978-10-19

*Astrophysical processes only.*

UF *stellar burning*  
 NT1 carbon burning  
 NT1 cno cycle  
 NT1 helium burning  
 NT1 hydrogen burning

**STAR CLUSTERS**

UF *clusters (star)*  
 RT stars

**STAR EVOLUTION**

BT1 evolution  
 NT1 r process  
 NT1 s process  
 NT1 star accretion  
 RT carbon burning  
 RT cno cycle  
 RT cosmology  
 RT galactic evolution  
 RT gravitational collapse  
 RT helium burning  
 RT herbig-haro objects  
 RT hertzsprung-russell diagram  
 RT hydrogen burning  
 RT origin  
 RT solar system evolution  
 RT star models  
 RT stars

**STAR MODELS**

INIS: 1975-10-23; ETDE: 1975-12-16

*Mathematical models of stars.*

UF *models (star)*  
 UF *solar models*  
 BT1 mathematical models  
 RT carbon burning  
 RT cno cycle  
 RT hydrogen burning  
 RT star evolution  
 RT stars

**STARCH**

UF *amylum*  
 \*BT1 polysaccharides  
 BT1 reagents  
 RT polyacetals

**starch gum**

USE dextrin

**STARFIRE TOKAMAK**

INIS: 1981-07-06; ETDE: 1980-03-29

\*BT1 tokamak devices

**starfish event**

1994-10-14

*A test made during PROJECT DOMINIC.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE atmospheric explosions  
 USE nuclear explosions

**STARK EFFECT**

RT electric fields  
 RT line broadening  
 RT magneto-optical effects  
 RT spectral shift

**STARK REACTOR**

*Schnell-Thermischen Argonaut Reaktor Karlsruhe.*

UF *sar-2 reactor*  
 \*BT1 argonaut type reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**STARQUAKES**

INIS: 2000-04-12; ETDE: 1976-04-19

RT neutron stars

RT pulsars

**STARS**

NT1 binary stars  
 NT2 eruptive variable stars  
 NT3 novae  
 NT3 supernovae  
 NT3 t tauri stars  
 NT1 dwarf stars  
 NT2 black dwarf stars  
 NT2 red dwarf stars  
 NT2 white dwarf stars  
 NT1 giant stars  
 NT2 red giant stars  
 NT2 supergiant stars  
 NT1 magnetic stars  
 NT1 main sequence stars  
 NT2 carbon stars  
 NT2 sun  
 NT2 wolf-rayet stars  
 NT1 neutron stars  
 NT1 supermassive stars  
 NT1 symbiotic stars  
 NT1 variable stars  
 NT2 eruptive variable stars  
 NT3 novae  
 NT3 supernovae  
 NT3 t tauri stars  
 NT2 pulsating variable stars  
 NT3 cepheids  
 RT astronomy  
 RT black holes  
 RT carbon burning  
 RT chandrasekhar theory  
 RT nucleosynthesis  
 RT planetary nebulae  
 RT proper motion  
 RT protostars  
 RT quasars  
 RT r process  
 RT s process  
 RT star accretion  
 RT star clusters  
 RT star evolution  
 RT star models  
 RT stellar activity  
 RT stellar atmospheres  
 RT stellar flares  
 RT stellar winds  
 RT white holes

**STARSPOTS**

INIS: 1984-02-22; ETDE: 1984-03-06

*Small regions of stellar surfaces that have a luminosity different from that of their surroundings. For the Sun use SUNSPOTS.*

UF *stellar spots*  
 BT1 stellar activity  
 NT1 sunspots  
 RT stellar atmospheres  
 RT stellar flares  
 RT variable stars

**START TOKAMAK**

INIS: 1994-03-15; ETDE: 1994-02-25

*Small Tight Aspect Ratio Tokamak at Culham Laboratories, Culham, UK.*

UF *small tight aspect ratio tokamak*  
 \*BT1 tokamak devices

**START-UP**

INIS: 1986-04-04; ETDE: 1976-12-15

NT1 reactor start-up  
 RT operation  
 RT standby mode

**start-up (fission reactor)**

INIS: 1982-11-29; ETDE: 2002-06-13

USE reactor start-up

**start-up (reactor)**

2000-04-12

USE reactor start-up

**starvation**

USE fasting

**state buildings**

INIS: 2000-04-12; ETDE: 1981-01-09

USE public buildings

**state diagrams**

USE phase diagrams

**state enterprises**

INIS: 2000-04-12; ETDE: 1979-07-24

USE public enterprises

**STATE GOVERNMENT**

INIS: 1980-11-07; ETDE: 1977-08-09

For the government of a major subdivision of a nation, e.g., the governments of the individual States of the United States of America. For the government of a nation state use NATIONAL GOVERNMENT.

UF provincial government

RT compact commissions

RT government policies

RT institutional sector

RT legislation

RT local government

RT national government

RT public officials

RT regional cooperation

RT regulations

RT social services

RT state officials

RT us federal assistance programs

**state liability**

INIS: 1990-12-15; ETDE: 2002-06-13

(Prior to December 1990, this was a valid descriptor.)

USE liabilities

**STATE OFFICIALS**

INIS: 2000-04-12; ETDE: 1979-11-23

UF governors

\*BT1 public officials

RT state government

**states (energy)**

USE energy levels

**static electricity eliminators**

ETDE: 1976-05-19

USE electrostatic charge eliminators

**static experiment critical facility**

INIS: 2001-09-25; ETDE: 2001-11-30

USE stacy reactor

**STATIC LOADS**

INIS: 1981-02-27; ETDE: 1976-08-04

UF loads (static)

RT deformation

RT dynamic loads

RT mechanical tests

RT strain rate

RT stresses

**STATIC MASS SPECTROMETERS**

\*BT1 mass spectrometers

**static reservoir pressure**

INIS: 1986-07-09; ETDE: 1978-09-11

USE reservoir pressure

**stationary low power plant-1**

USE sl-1 reactor

**stationary medium power plant-1**

1993-11-09

USE sm-1 reactor

**stationary medium power plant-1a**

1993-11-09

USE sm-1a reactor

**STATIONARY POLLUTANT****SOURCES**

INIS: 1992-03-09; ETDE: 1977-03-08

Use for general articles when sources are not named. See also specific stationary sources, e.g., FOSSIL-FUEL POWERPLANTS.

BT1 pollution sources

RT air pollution

RT emission

RT mobile pollutant sources

RT pollution

RT water pollution

**STATISTICAL DATA**

INIS: 1980-09-12; ETDE: 1980-07-09

Use only in conjunction with literary indicator N for data flagging.

\*BT1 numerical data

**STATISTICAL MECHANICS**

BT1 mechanics

RT anyons

RT bbgky equation

RT boltzmann equation

RT boltzmann statistics

RT bose-einstein statistics

RT ergodic hypothesis

RT fermi statistics

RT kinetic equations

RT kinetics

RT kubo formula

RT liouville theorem

RT mean-field theory

RT occupation number

RT parastatistics

RT partition functions

**STATISTICAL MODELS**

UF models (statistical)

BT1 mathematical models

NT1 feynman gas model

NT1 thermodynamic model

NT2 hydrodynamic model

RT kriging

RT particle models

RT systems analysis

**STATISTICS**

1996-03-04

Limited to the indexing of information on the mathematical discipline of statistics or its application in nuclear science; for indexing numerical values of a statistical nature use STATISTICAL DATA.

UF kurtosis

UF skewness

BT1 mathematics

NT1 game theory

NT1 kriging

NT1 multivariate analysis

NT1 regression analysis

NT1 time-series analysis

RT chaos theory

RT data covariances

RT degrees of freedom

RT expectation value

RT fault tree analysis

RT gauss function

RT maximum-likelihood fit

RT probabilistic estimation

RT probability

RT random phase approximation

RT stochastic processes

RT systems analysis

RT virial theorem

RT weighting functions

**statni urad pro jadernou bezpecnost**

INIS: 1998-01-29; ETDE: 1998-02-24

USE subj

**STATORS**

1977-01-25

RT armatures

RT machine parts

RT rotors

**stauffer aquaclus process**

2000-04-12

A simple and efficient absorption method capable of reducing sulfur dioxide levels in diverse waste gas streams to low limits. All sulfur compounds in the tail gases are incinerated to sulfur dioxide which is then absorbed in the aquaclus solvent.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**STEADY FLOW**

SF perfect flow

BT1 fluid flow

NT1 ideal flow

RT steady-state conditions

**STEADY-STATE CONDITIONS**

Reached when all transients fade out.

RT equilibrium

RT standing waves

RT steady flow

RT steady-state fusion reactors

RT transients

**STEADY-STATE D-T REACTORS**

\*BT1 d-t reactors

\*BT1 steady-state fusion reactors

**STEADY-STATE FUSION REACTORS**

BT1 thermonuclear reactors

NT1 steady-state d-t reactors

RT steady-state conditions

**STEAM**

UF steam coolant

NT1 natural steam

RT bosch process

RT coolants

RT district heating

RT flash heating

RT flashed steam systems

RT flashing

RT mollier diagrams

RT rankine cycle engines

RT steam generation

RT steam generators

RT steam-iron process

RT steam lines

RT steam quality

RT steam systems

RT superheating

RT total flow systems

RT water

RT water vapor

**STEAM CONDENSERS**

UF condensers (steam)

BT1 vapor condensers

NT1 ice condensers

NT1 isolation condensers

RT film condensation

RT heat exchangers

RT heat transfer

RT reactor cooling systems

RT steam separators

**steam coolant**

USE steam

**STEAM COOLED REACTORS**

1999-10-14

BT1 reactors  
RT gas cooled reactors**steam drive process**

INIS: 2000-04-12; ETDE: 1976-06-07

USE fluid injection processes

**steam explosion process**

INIS: 2000-04-12; ETDE: 1984-10-10

USE autohydrolysis

**steam generating heavy water reactor**

1993-11-09

USE sghwr reactor

**STEAM GENERATION**

INIS: 1986-07-09; ETDE: 1975-10-01

NT1 cogeneration  
RT refuse-fueled power plants  
RT steam  
RT steam generators**STEAM GENERATION PLANTS**

INIS: 2000-07-24; ETDE: 1981-06-13

RT central heating plants  
RT district heating  
RT total energy systems**STEAM GENERATORS**UF generators (steam)  
\*BT1 vapor generators  
RT boiler fuels  
RT boiling  
RT economizers  
RT feedwater  
RT heat exchangers  
RT heat transfer  
RT reactor cooling systems  
RT steam  
RT steam generation  
RT superheaters  
RT waterwall incinerators**STEAM INJECTION**

INIS: 1992-08-12; ETDE: 1976-03-11

BT1 fluid injection  
RT thermal recovery  
RT well stimulation**STEAM-IRON PROCESS**

2000-04-12

*Reactions in multiplicity of steel cylindrical retorts for hydrogen production.*BT1 chemical reactions  
RT hydrogen production  
RT iron  
RT steam**STEAM JET EJECTORS**BT1 vapor jet ejectors  
RT reactor cooling systems**STEAM LINES**

1975-11-27

BT1 pipelines  
RT pipe whip  
RT reactor cooling systems  
RT steam  
RT steam mufflers  
RT steam systems  
RT steam traps**STEAM MUFFLERS**

1992-07-20

*For reduction of noise from escaping steam.*RT noise  
RT steam lines**STEAM QUALITY**RT steam  
RT thermodynamics**STEAM REFORMER PROCESSES**

1999-01-29

UF *segas process*  
\*BT1 reformer processes  
RT gas recycle hydrogenation process  
RT hydrogen production**STEAM SEPARATORS**UF *separators (steam)*  
\*BT1 vapor separators  
RT flashed steam systems  
RT reactor cooling systems  
RT steam condensers**STEAM SOAK PROCESSES**

2000-04-12

BT1 fluid injection processes  
RT oil sands**STEAM STRIPPING**

INIS: 2000-04-12; ETDE: 1984-12-10

\*BT1 waste processing  
BT1 water treatment  
RT waste water**steam superheaters**

USE superheaters

**STEAM SYSTEMS**

2000-03-27

SF *braun standard turbine island*  
SF *c f braun standard turbine island*  
BT1 energy systems  
NT1 flashed steam systems  
RT reactor cooling systems  
RT steam  
RT steam lines  
RT steam traps**STEAM TRAPS**

INIS: 2000-03-27; ETDE: 1979-04-12

*Devices that drain and remove condensate automatically from steam lines.*BT1 traps  
RT steam lines  
RT steam systems**STEAM TURBINES**\*BT1 turbines  
RT flashed steam systems  
RT gas turbines  
RT reactor cooling systems**STEAMBOAT SPRINGS**

2000-04-12

*Undeveloped geothermal field under exploration.*

\*BT1 nevada

**STEARATES**

INIS: 2000-04-12; ETDE: 1976-11-01

BT1 carboxylic acid salts  
RT octadecanoic acid**stearic acid**

USE octadecanoic acid

**steel-000kh18n13**

INIS: 2000-04-12; ETDE: 1979-05-30

(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**steel-000kh20n16ag6**

INIS: 2000-04-12; ETDE: 1979-05-30

(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**steel-000kh20n20**

INIS: 2000-04-12; ETDE: 1979-05-30

(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 nickel-CHROMIUM STEELS was used for this concept in ETDE.)

USE chromium alloys  
USE nickel steels**steel-000kh25**

INIS: 2000-04-12; ETDE: 1979-05-30

(Prior to 1989 this was a valid ETDE descriptor.)

USE stainless steels

**steel-000kh28**

INIS: 2000-04-12; ETDE: 1979-05-30

(Prior to 1989 this was a valid ETDE descriptor.)

USE stainless steels

**steel-00kh20n32t**

INIS: 2000-04-12; ETDE: 1979-05-30

(Prior to 1989 this was a valid ETDE descriptor.)

USE stainless steels

**steel-03kh11n10m2t**

INIS: 1983-11-07; ETDE: 1979-05-30

(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr11ni10mo2ti-l

**steel-03kh11n10m2tk6**

INIS: 2000-04-12; ETDE: 1979-05-30

(Prior to 1989 this was a valid ETDE descriptor.)

USE chromium-nickel steels

**steel-03kh13ag13**

INIS: 2000-04-12; ETDE: 1979-05-30

(Prior to 1989 this was a valid ETDE descriptor.)

USE stainless steels

**steel-08g2sfb**

INIS: 2000-04-12; ETDE: 1979-05-30

(Prior to 1989 this was a valid ETDE descriptor.)

USE carbon steels

**steel-08kh18n10t**

INIS: 1983-11-07; ETDE: 1982-02-11

(Prior to 1989 this was a valid ETDE descriptor.)

USE steel-cr18ni10ti

**steel-0kh16n15m3b**

INIS: 1983-11-07; ETDE: 1979-05-29

USE steel-cr16ni15mo3nb

**steel-0kh18g8n2t**

INIS: 2000-04-12; ETDE: 1979-06-21

USE stainless steels

**steel-0kh18n10t**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to March 1989 this was a valid ETDE descriptor.)

USE steel-cr18ni10ti

**steel-0kh18n9t**

INIS: 1983-11-07; ETDE: 1979-05-29

(Prior to December 1988 this was a valid ETDE descriptor.)

USE steel-cr18ni9ti

**steel-0kh19nt**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-0kh21n5t**

INIS: 1996-11-13; ETDE: 1979-05-29  
(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 STEEL-CR21NI5TI was used for this concept in ETDE.)  
USE chromium steels  
USE nickel alloys

**steel-0kh22n5t**

INIS: 1996-11-13; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 STEEL-CR22NI5TI was used for this concept in ETDE.)  
USE chromium steels  
USE nickel alloys

**steel-1-kh18n20t3p**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept.)  
USE chromium alloys  
USE nickel steels

**steel-10cd9-10**

INIS: 1997-01-28; ETDE: 1979-05-30  
(Until October 1996 this was a valid descriptor.)  
USE steel-cr2mo

**steel-10crninb910**

ETDE: 1979-05-30  
USE steel-cr2moninb

**steel-12kh1mf**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-crmov

**steel-12kh2mv8fb**

INIS: 2000-04-12; ETDE: 1979-06-21  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE steels

**steel-12kh2nch**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-ni3cr

**steel-12kh2v5fb**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE steels

**steel-12khm**

INIS: 1983-11-07; ETDE: 1979-05-30  
USE steel-crmo

**steel-12khn3**

INIS: 1983-11-07; ETDE: 1979-05-31  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-ni3cr

**steel-12khn3a**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-ni3cr

**steel-13cr6nimo**

INIS: 1996-11-13; ETDE: 2002-06-13  
USE austenitic steels  
USE chromium-nickel-molybdenum steels

**steel-15cd9-10**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE steel-cr2mo

**steel-15kh1m1f**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-crmov

**steel-15kh1m1fl**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-crmov

**steel-15kh2mfa**

INIS: 1983-11-07; ETDE: 1982-01-07  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-cr2mov

**steel-15khg2sfnr**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-molybdenum steels

**steel-18kh16n6**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-18kh2n4va**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-ni4crw

**steel-18mnv6**

INIS: 2000-04-12; ETDE: 1979-06-21  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE steels

**steel-1kh12v2mf**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium steels

**steel-1kh16n14v2br ehp17**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-1kh16n15m3b**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-cr16ni15mo3nb

**steel-1kh16n4b**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-1kh18n10t**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-cr18ni10ti

**steel-1kh18n9**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni9

**steel-1kh18n9t**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni9ti

**steel-20kh**

INIS: 1983-11-07; ETDE: 1979-06-21  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-crni

**steel-20kh2n2m**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-20khmf**

INIS: 2000-04-12; ETDE: 1979-06-21  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-molybdenum steels

**steel-20khn3mf**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-20m5**

INIS: 1994-06-27; ETDE: 1979-06-21  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE manganese steels

**steel-20n14**

INIS: 1996-11-13; ETDE: 1979-06-21  
(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 STEEL-N14 was used for this concept in ETDE.)  
USE low alloy steels  
USE nickel alloys

**steel-22nimocr37**

INIS: 1981-02-27; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE steel-nimocr

**steel-28cdv508**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to June 1989 this was a valid ETDE descriptor.)  
USE steel-crmov

**steel-2kh13**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to June 1989 this was as valid ETDE descriptor.)  
USE steel-cr13

**steel-2kh18n8v2**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-2kh8v8m2k8**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-molybdenum steels

**steel-30n9k4**

INIS: 1994-07-01; ETDE: 1979-06-21  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE nickel steels

**steel-37khn3t**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept in ETDE.)  
USE chromium alloys  
USE nickel steels

**steel-38kh5msfa**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-molybdenum steels

**steel-38khmyua**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-cralnimo

**steel-3hk5s**

ETDE: 1979-05-31  
USE steel-cr2moninb

**steel-3kh15n13yu3**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-40k14g18f**

INIS: 2000-04-12; ETDE: 1979-06-21  
(Prior to May 2001 this was a valid descriptor.)  
USE chromium steels  
USE manganese alloys  
USE vanadium alloys

**steel-40kh**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-crni

**steel-40kh13n8g8**

INIS: 1996-11-13; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor; from then till March 1997 STEEL-CR13MN8NI8 was used for this concept.)  
USE austenitic steels  
USE chromium-nickel steels  
USE manganese alloys

**steel-40kh2n5sm**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept.)  
USE chromium alloys  
USE nickel steels

**steel-40khn**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-nicr

**steel-40khnma**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-nicrmo

**steel-42kh2gsnm**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel-molybdenum steels

**steel-4kh12n8g8mfb**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-4kh14nv2m**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-5kh2mf**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-crmov

**steel-60kh3g8n8v**

INIS: 2000-04-12; ETDE: 1979-06-21  
(Prior to 1989 this was a valid ETDE descriptor.)  
SEE chromium alloys  
SEE steels

**steel-7kh18n9**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni9

**steel-9cr**

INIS: 1988-03-08; ETDE: 2002-06-13  
USE steel-cr10mo2

**steel-9kh18**

INIS: 1983-11-07; ETDE: 1979-05-30  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-cr18

**steel-9khs**

INIS: 2000-04-12; ETDE: 1979-05-30  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium steels

**STEEL-ASTM-A105**

INIS: 2000-04-12; ETDE: 1979-05-29  
\*BT1 carbon steels

**STEEL-ASTM-A106**

1993-10-03  
\*BT1 carbon steels

**STEEL-ASTM-A212**

1993-10-03  
\*BT1 carbon steels

**STEEL-ASTM-A285**

INIS: 1993-10-03; ETDE: 1978-12-20  
UF a 285 steel  
\*BT1 carbon steels

**STEEL-ASTM-A302**

1993-10-03  
\*BT1 steel-mnmo

**STEEL-ASTM-A350**

2000-04-12  
\*BT1 low alloy steels

**steel-astm-a350 (gr 1)**

INIS: 1983-11-09; ETDE: 2002-06-13  
USE carbon steels

**steel-astm-a350 (gr 2)**

INIS: 1983-11-09; ETDE: 2002-06-13  
USE carbon steels

**steel-astm-a350 (gr 3)**

INIS: 1996-11-13; ETDE: 2002-06-13  
USE low alloy steels  
USE nickel alloys

**steel-astm-a350 (gr 4)**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-crni

**STEEL-ASTM-A387**

INIS: 2000-04-12; ETDE: 1979-03-27  
\*BT1 low alloy steels

**steel-astm-a387 (gr 11)**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-crmov

**steel-astm-a387 (gr 12)**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-crmov

**steel-astm-a387 (gr 2)**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-crmov

**steel-astm-a387 (gr 21)**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-cr2mo

**steel-astm-a387 (gr 22)**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-cr2mo

**steel-astm-a387 (gr 5)**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-cr5mo

**steel-astm-a416**

INIS: 1997-01-28; ETDE: 1979-03-28  
(Until October 1996 this was a valid descriptor.)  
USE carbon steels

**STEEL-ASTM-A508**

1999-02-18  
\*BT1 low alloy steels

**steel-astm-a508 (gr 2)**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-nimocr

**steel-astm-a508 (gr 3)**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-mnimo

**steel-astm-a508 (gr 4)**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-ni3crmo

**steel-astm-a508 (gr 5)**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-ni3crmov

**STEEL-ASTM-A516**

INIS: 1993-10-03; ETDE: 1976-02-19  
\*BT1 carbon steels

**STEEL-ASTM-A533**

1993-01-28

For grade A or B use STEEL-MNNIMO, and  
for grade C or D use STEEL-MNMO.

\*BT1 low alloy steels

**steel-astm-a533 (gr a)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-mnnimo

**steel-astm-a533 (gr b)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-astm-a533-b

**steel-astm-a533 (gr c)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-mnmo

**steel-astm-a533 (gr d)**

INIS: 1983-11-07; ETDE: 2002-06-13

USE steel-mnmo

**STEEL-ASTM-A533-B**

1999-05-27

UF steel-astm-a533 (gr b)

\*BT1 carbon steels

\*BT1 steel-mnnimo

**STEEL-ASTM-A537**

INIS: 1993-10-03; ETDE: 1981-01-27

\*BT1 steel-mncumo

**STEEL-ASTM-A542**

1993-10-03

\*BT1 steel-cr2mo

**STEEL-ASTM-A543**

1993-10-03

\*BT1 steel-ni3crmo

**STEEL-ASTM-A572**

INIS: 2000-04-12; ETDE: 1979-12-17

\*BT1 steels

**STEEL-CD-4MCU**

INIS: 2000-04-12; ETDE: 1979-09-06

UF cd-4mcu

\*BT1 chromium alloys

\*BT1 copper alloys

\*BT1 corrosion resistant alloys

\*BT1 iron base alloys

\*BT1 molybdenum alloys

\*BT1 nickel alloys

**STEEL-CR10MO2**

INIS: 1988-03-08; ETDE: 1989-11-06

UF steel-9cr

UF steel-jfms

\*BT1 chromium steels

\*BT1 martensitic steels

\*BT1 molybdenum alloys

RT first wall

**STEEL-CR11NI10MO2TI-L**

1983-11-07

UF steel-03kh11n10m2t

UF steel-ehp 678

UF steel-ehp 679

UF steel-ehp678

UF steel-ehp679

\*BT1 chromium-nickel-molybdenum steels

\*BT1 corrosion resistant alloys

\*BT1 low carbon-high alloy steels

\*BT1 titanium alloys

**STEEL-CR12**

1983-11-07

UF steel-kh12

\*BT1 chromium steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 martensitic steels

NT1 stainless steel-403

**STEEL-CR12MONIV**

INIS: 1984-02-23; ETDE: 1990-11-26

UF steel-x20cromov 121

\*BT1 chromium steels

\*BT1 corrosion resistant alloys

\*BT1 ferritic steels

\*BT1 heat resisting alloys

\*BT1 molybdenum additions

\*BT1 nickel additions

\*BT1 vanadium additions

**STEEL-CR12MOV**

1983-11-08

UF steel-ht-9

UF steel-kh12m

\*BT1 chromium steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 martensitic steels

\*BT1 molybdenum additions

\*BT1 vanadium additions

NT1 alloy-ht-9

**STEEL-CR13**

INIS: 1999-10-08; ETDE: 1983-11-19

UF croloy 12

UF steel-2kh13

UF steel-kh13

\*BT1 chromium steels

\*BT1 corrosion resistant alloys

\*BT1 croloy

\*BT1 heat resisting alloys

\*BT1 martensitic steels

NT1 stainless steel-410

**STEEL-CR13AL**

1983-11-07

\*BT1 aluminium additions

\*BT1 chromium steels

\*BT1 corrosion resistant alloys

\*BT1 ferritic steels

\*BT1 heat resisting alloys

NT1 stainless steel-405

**steel-cr13mn8ni8**

INIS: 1997-01-28; ETDE: 1983-11-19

(Until October 1996 this was a valid  
descriptor.)

USE austenitic steels

USE chromium-nickel steels

USE manganese alloys

**steel-cr13ni6mo-l**

INIS: 1997-01-28; ETDE: 1990-11-26

(Until October 1996 this was a valid  
descriptor.)

USE austenitic steels

USE chromium-nickel-molybdenum steels

USE low carbon-high alloy steels

**STEEL-CR15NI15MOTIB**

1983-11-07

UF steel-din-1-4970

\*BT1 austenitic steels

\*BT1 boron additions

\*BT1 chromium-nickel-molybdenum steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 titanium additions

**STEEL-CR16**

1983-11-07

UF croloy 18

\*BT1 chromium steels

\*BT1 corrosion resistant alloys

\*BT1 croloy

\*BT1 ferritic steels

\*BT1 heat resisting alloys

NT1 stainless steel-430

**STEEL-CR16NI**

INIS: 1996-11-13; ETDE: 1983-11-19

(From April 1977 till March 1997  
STAINLESS STEEL-431 was a valid ETDE  
descriptor.)

UF stainless steel-431

\*BT1 chromium steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 martensitic steels

\*BT1 nickel alloys

**STEEL-CR16NI13MONBV**

1983-11-07

UF steel-din-1-4988

\*BT1 austenitic steels

\*BT1 chromium-nickel-molybdenum steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 niobium additions

\*BT1 vanadium additions

**STEEL-CR16NI15MO3NB**

1983-11-07

UF steel-0kh16n15m3b

UF steel-1kh16n15m3b

UF steel-kh16n15m3b

\*BT1 austenitic steels

\*BT1 chromium-nickel-molybdenum steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 niobium additions

**STEEL-CR16NI16MONB**

1983-11-07

UF steel-din-1-4981

\*BT1 austenitic steels

\*BT1 chromium-nickel-molybdenum steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 niobium additions

**STEEL-CR16NI8MO2**

1983-11-07

\*BT1 austenitic steels

\*BT1 chromium-nickel-molybdenum steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

NT1 stainless steel-16-8-2

**STEEL-CR16NI9MO2**

2003-01-23

UF steel-kh16n9m2

\*BT1 chromium-nickel-molybdenum steels

\*BT1 manganese additions

\*BT1 silicon additions

**STEEL-CR17CU4NI4NB-L**

INIS: 1983-11-07; ETDE: 1989-11-06

\*BT1 chromium steels

\*BT1 copper alloys

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 low carbon-high alloy steels

\*BT1 martensitic steels

\*BT1 nickel alloys

\*BT1 niobium additions

NT1 stainless steel-17-4ph

**steel-cr17mn15nni**

INIS: 1996-07-23; ETDE: 1984-01-27

(Until July 1996 this was a valid descriptor.)

USE stainless steels

**STEEL-CR17MO**

1983-11-07

\*BT1 chromium steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 martensitic steels

\*BT1 molybdenum additions



NT1 stainless steel-440

### STEEL-CR17NI12MO3

1983-11-07

UF stainless steel-z6cnd17-12

UF steel-din-1-4919

\*BT1 austenitic steels

\*BT1 chromium-nickel-molybdenum steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

NT1 stainless steel-316

### STEEL-CR17NI12MO3-L

1983-11-07

UF stainless steel-z2cnd17-12

UF stainless steel-z3cnd17-12

\*BT1 austenitic steels

\*BT1 chromium-nickel-molybdenum steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 low carbon-high alloy steels

NT1 stainless steel-316l

NT1 stainless steel-zcnd17-13

### STEEL-CR17NI12MONB

1983-11-07

UF stainless steel-fv548

\*BT1 austenitic steels

\*BT1 chromium-nickel-molybdenum steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 niobium additions

### STEEL-CR17NI13

INIS: 1985-09-06; ETDE: 1990-11-26

\*BT1 austenitic steels

\*BT1 chromium-nickel steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

### STEEL-CR17NI13MO2TI

1983-11-07

UF steel-kh17n13m2t

\*BT1 austenitic steels

\*BT1 chromium-nickel-molybdenum steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 titanium additions

### STEEL-CR17NI13MO3TI

1983-11-07

UF alloy-ehi 183

UF alloy-ehi 397

UF alloy-ehi 432

UF steel-kh17n13m3t

\*BT1 austenitic steels

\*BT1 chromium-nickel-molybdenum steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 titanium additions

### STEEL-CR17NI14MO3

INIS: 1996-11-13; ETDE: 1983-11-16

(From 1974 till March 1997 STAINLESS

STEEL-AM-350 was a valid ETDE

descriptor.)

UF stainless steel-am-350

\*BT1 chromium steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 molybdenum alloys

\*BT1 nickel alloys

### STEEL-CR17NI7

1983-11-07

\*BT1 austenitic steels

\*BT1 chromium-nickel steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

NT1 stainless steel-301

### STEEL-CR18

1983-11-07

UF steel-9kh18

UF steel-kh18

\*BT1 chromium steels

\*BT1 corrosion resistant alloys

\*BT1 martensitic steels

### STEEL-CR18NI10

1983-11-07

UF croloy 3035

UF stainless steel-z6cn18-10

UF steel-kh18n10

\*BT1 austenitic steels

\*BT1 chromium-nickel steels

\*BT1 corrosion resistant alloys

\*BT1 croloy

\*BT1 heat resisting alloys

NT1 stainless steel-18-10

### STEEL-CR18NI10-L

INIS: 1996-11-13; ETDE: 1983-11-16

(From May 1979 till March 1997

STAINLESS STEEL-Z2CN18-10 was a valid

ETDE descriptor.)

UF stainless steel-z2cn18-10

\*BT1 austenitic steels

\*BT1 chromium-nickel steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 low carbon-high alloy steels

### STEEL-CR18NI10TI

1983-11-07

UF stainless steel-z6cnt18-10

UF stainless steel-z8cnt18-10

UF steel-08kh18n10t

UF steel-0kh18n10t

UF steel-1kh18n10t

UF steel-kh18n10t

\*BT1 austenitic steels

\*BT1 chromium-nickel steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 titanium additions

NT1 stainless steel-321

### STEEL-CR18NI11

1983-11-07

UF steel-din-1-4948

\*BT1 austenitic steels

\*BT1 chromium-nickel steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

NT1 steel-x6crni1811

### STEEL-CR18NI11NB

1983-11-07

\*BT1 austenitic steels

\*BT1 chromium-nickel steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 niobium additions

NT1 stainless steel-347

### STEEL-CR18NI11NBCO

1983-11-07

INIS: 1983-11-07; ETDE: 1984-02-10

\*BT1 austenitic steels

\*BT1 chromium-nickel steels

\*BT1 cobalt additions

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 niobium additions

NT1 stainless steel-348

### STEEL-CR18NI12

1983-11-07

\*BT1 austenitic steels

\*BT1 chromium-nickel steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

NT1 stainless steel-305

### STEEL-CR18NI12TI

1983-11-07

UF steel-kh18n12t

\*BT1 austenitic steels

\*BT1 chromium-nickel steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 titanium additions

### STEEL-CR18NI8

1983-11-07

\*BT1 austenitic steels

\*BT1 chromium-nickel steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

NT1 stainless steel-18-8

### STEEL-CR18NI9

1983-11-07

UF steel-1kh18n9

UF steel-7kh18n9

UF steel-din-1-4301

UF steel-kh18n9

\*BT1 austenitic steels

\*BT1 chromium-nickel steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

NT1 stainless steel-302

### STEEL-CR18NI9TI

1983-11-07

UF steel-0kh18n9t

UF steel-1kh18n9t

UF steel-kh18n9t

\*BT1 austenitic steels

\*BT1 chromium-nickel steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 titanium additions

### STEEL-CR19NI10

1983-11-07

\*BT1 austenitic steels

\*BT1 chromium-nickel steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

NT1 stainless steel-304

### STEEL-CR19NI10-L

1983-11-07

\*BT1 austenitic steels

\*BT1 chromium-nickel steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 low carbon-high alloy steels

NT1 stainless steel-304l

### STEEL-CR20NI11

1983-11-07

\*BT1 austenitic steels

\*BT1 chromium-nickel steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

NT1 stainless steel-308

### STEEL-CR20NI11-L

1983-11-07

\*BT1 austenitic steels

\*BT1 chromium-nickel steels

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

\*BT1 low carbon-high alloy steels

NT1 stainless steel-308l

### STEEL-CR21MN9NI6

1983-11-07

\*BT1 austenitic steels

\*BT1 chromium alloys

\*BT1 corrosion resistant alloys

\*BT1 heat resisting alloys

- \*BT1 manganese alloys
- \*BT1 nickel alloys
- \*BT1 nitrogen additions
- \*BT1 stainless steels
- NT1** stainless steel-21-6-9

**steel-cr21ni5ti**

*INIS: 1997-01-28; ETDE: 1983-11-19*  
(Until October 1996 this was a valid descriptor.)

- USE chromium steels
- USE nickel alloys

**steel-cr22ni5ti**

*INIS: 1997-01-28; ETDE: 1983-11-19*  
(Until October 1996 this was a valid descriptor.)

- USE chromium steels
- USE nickel alloys

**STEEL-CR23NI14**

1983-11-07

- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1** stainless steel-309
- NT1** stainless steel-309s

**STEEL-CR23NI18**

1983-11-07

- UF steel-kh23n18*
- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys

**STEEL-CR25**

1983-11-07

- UF steel-kh25*
- \*BT1 chromium steels
- \*BT1 corrosion resistant alloys
- \*BT1 ferritic steels
- \*BT1 heat resisting alloys
- NT1** stainless steel-446

**STEEL-CR25NI20**

1983-11-07

- UF alloy-ck-20*
- UF hk 40*
- \*BT1 austenitic steels
- \*BT1 chromium-nickel steels
- \*BT1 corrosion resistant alloys
- \*BT1 heat resisting alloys
- NT1** alloy-hk-40
- NT1** stainless steel-310

**steel-cr26ni5mo-1**

*INIS: 1997-01-28; ETDE: 1983-11-19*  
(Until October 1996 this was a valid descriptor.)

- USE chromium steels
- USE low carbon-high alloy steels
- USE molybdenum alloys
- USE nickel alloys

**STEEL-CR2MO**

*INIS: 1996-11-13; ETDE: 1983-11-09*  
(From May 1979 till March 1997 STEEL-10CD9-10 was a valid ETDE descriptor; from May 1979 till June 1989 STEEL-15CD9-10 was a valid ETDE descriptor.)

- UF croloy 2*
- UF steel-10cd9-10*
- UF steel-15cd9-10*
- UF steel-astm-a387 (gr 21)*
- UF steel-astm-a387 (gr 22)*
- \*BT1 chromium alloys
- \*BT1 croloy
- \*BT1 low alloy steels
- \*BT1 molybdenum additions

**NT1** steel-astm-a542

**STEEL-CR2MONINB**

1983-11-07

- UF sandvik-ht8x6*
- UF steel-10crninb910*
- UF steel-3hk5s*
- UF steel-din-1-6770*
- \*BT1 chromium alloys
- \*BT1 heat resisting alloys
- \*BT1 low alloy steels
- \*BT1 molybdenum additions
- \*BT1 nickel additions
- \*BT1 niobium additions
- RT* ferrite

**STEEL-CR2MOV**

1983-11-07

- UF steel-15kh2mfa*
- \*BT1 chromium alloys
- \*BT1 copper additions
- \*BT1 heat resisting alloys
- \*BT1 low alloy steels
- \*BT1 molybdenum additions
- \*BT1 nickel additions
- \*BT1 vanadium additions

**STEEL-CR2NIMOV**

*INIS: 1986-05-23; ETDE: 1990-11-26*

- \*BT1 chromium alloys
- \*BT1 copper additions
- \*BT1 low alloy steels
- \*BT1 molybdenum additions
- \*BT1 nickel alloys
- \*BT1 vanadium additions

**STEEL-CR5MO**

1983-11-07

- UF croloy 5*
- UF steel-astm-a387 (gr 5)*
- UF steel-kh5m*
- \*BT1 chromium alloys
- \*BT1 croloy
- \*BT1 low alloy steels
- \*BT1 molybdenum additions

**STEEL-CR9MO**

*INIS: 1984-02-23; ETDE: 1990-11-26*

- \*BT1 chromium steels
- \*BT1 ferritic steels
- \*BT1 molybdenum additions

**STEEL-CR9MONBV**

*INIS: 1996-11-13; ETDE: 1983-11-19*

(Until October 1996 this was a valid descriptor.)

- UF steel-z10cdnbv9*
- \*BT1 chromium steels
- \*BT1 ferritic steels
- \*BT1 molybdenum alloys
- \*BT1 niobium additions
- \*BT1 vanadium additions

**STEEL-CRALNIMO**

1983-11-07

- UF steel-38khmyua*
- \*BT1 aluminium additions
- \*BT1 chromium alloys
- \*BT1 low alloy steels
- \*BT1 molybdenum additions
- \*BT1 nickel additions

**STEEL-CRMO**

1983-11-07

- UF steel-12khm*
- UF steel-astm-a387 (gr 11)*
- UF steel-astm-a387 (gr 12)*
- UF steel-astm-a387 (gr 2)*
- \*BT1 chromium additions
- \*BT1 low alloy steels
- \*BT1 molybdenum additions
- \*BT1 nickel additions

**STEEL-CRMOV**

1983-11-07

- UF steel-12kh1mf*
- UF steel-15kh1mf*
- UF steel-15kh1m1f1*
- UF steel-28cdv508*
- UF steel-5kh2mf*
- \*BT1 chromium alloys
- \*BT1 copper additions
- \*BT1 low alloy steels
- \*BT1 molybdenum additions
- \*BT1 nickel additions
- \*BT1 vanadium additions

**STEEL-CRNI**

1983-11-07

- UF steel-20kh*
- UF steel-40kh*
- UF steel-astm-a350 (gr 4)*
- \*BT1 chromium additions
- \*BT1 copper additions
- \*BT1 low alloy steels
- \*BT1 nickel additions

**steel-din-1-4301**

*INIS: 1983-11-07; ETDE: 1980-08-12*  
(Prior to December 1988 this was a valid ETDE descriptor.)

- USE steel-cr18ni9

**steel-din-1-4449**

*INIS: 2000-04-12; ETDE: 1979-05-29*  
(Prior to 1989 this was a valid ETDE descriptor.)

- USE chromium-nickel steels

**steel-din-1-4919**

*INIS: 1983-11-18; ETDE: 1980-08-12*  
(Prior to March 1989 this was a valid ETDE descriptor.)

- USE steel-cr17ni12mo3

**steel-din-1-4948**

*INIS: 1983-11-07; ETDE: 1979-05-29*  
*Equivalent to STAINLESS STEEL-304.*  
(prior to March 1989 this was a valid ETDE descriptor.)

- USE steel-cr18ni11

**steel-din-1-4970**

*INIS: 1983-11-07; ETDE: 1979-05-29*  
(Prior to March 1989 this was a valid ETDE descriptor.)

- USE steel-cr15ni15motib

**steel-din-1-4981**

*INIS: 1983-11-07; ETDE: 1979-05-29*  
(Prior to March 1989 this was a valid ETDE descriptor.)

- USE steel-cr16ni16monb

**steel-din-1-4988**

*INIS: 1983-11-07; ETDE: 1979-05-29*  
(Prior to March 1989 this was a valid ETDE descriptor.)

- USE steel-cr16ni13monbv

**steel-din-1-6310**

*INIS: 1983-11-08; ETDE: 1980-05-07*  
(Prior to March 1989 this was a valid ETDE descriptor.)

- USE steel-mnnimov

**steel-din-1-6342**

*INIS: 1983-11-07; ETDE: 1980-08-12*  
(Prior to March 1989 this was a valid ETDE descriptor.)

- USE steel-mnnimov

**steel-din-1-6343**

INIS: 1983-11-08; ETDE: 1980-08-12  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-mnnimo

**steel-din-1-6348**

INIS: 1996-07-23; ETDE: 1980-08-12  
(Prior to March 1989 this was a valid ETDE descriptor; from March 1989 till March 1997 STEEL-NI3MOV was used for this concept.)  
USE low alloy steels  
USE nickel alloys

**steel-din-1-6742**

INIS: 1983-11-08; ETDE: 1980-08-12  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-ni3crmo

**steel-din-1-6751**

INIS: 1983-11-07; ETDE: 1980-08-12  
USE steel-nimocr

**steel-din-1-6770**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-cr2moninb

**steel-din-1-6950**

INIS: 1983-11-07; ETDE: 1980-08-12  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-ni3crmov

**steel-ehp 678**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-cr11ni10mo2ti-l

**steel-ehp 679**

INIS: 1983-11-07; ETDE: 2002-06-13  
USE steel-cr11ni10mo2ti-l

**steel-ehp678**

INIS: 2000-04-12; ETDE: 1979-06-21  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-cr11ni10mo2ti-l

**steel-ehp679**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-cr11ni10mo2ti-l

**steel-ehp699**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel-molybdenum steels

**steel-ht-9**

INIS: 1985-09-06; ETDE: 2002-06-13  
USE steel-cr12mov

**STEEL-IN-787**

INIS: 2000-04-12; ETDE: 1976-08-24  
\*BT1 carbon steels  
\*BT1 copper alloys  
\*BT1 molybdenum alloys  
\*BT1 nickel alloys  
\*BT1 niobium alloys

**steel industry**

INIS: 1992-03-10; ETDE: 1979-12-10  
USE metal industry

**steel-ifms**

INIS: 1988-03-08; ETDE: 2002-06-13  
USE steel-cr10mo2

**steel-kh12**

INIS: 1983-11-07; ETDE: 1979-05-31  
USE steel-cr12

**steel-kh12m**

INIS: 1983-11-08; ETDE: 1979-05-29  
USE steel-cr12mov

**steel-kh12n20t3p**

INIS: 2000-04-12; ETDE: 1979-05-31  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 nickel-CHROMIUM STEELS was used for this concept.)  
USE chromium alloys  
USE nickel steels

**steel-kh13**

INIS: 1983-11-07; ETDE: 1979-05-31  
USE steel-cr13

**steel-kh13s2yu2bt**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium steels

**steel-kh14k9n6m5**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel-molybdenum steels

**steel-kh14n8yum2**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-kh15n20m2t2**

INIS: 2000-04-12; ETDE: 1979-05-29  
USE chromium-nickel-molybdenum steels

**steel-kh15n7yum2**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-kh15n9yu**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-kh16n15m3b**

INIS: 1983-11-07; ETDE: 1979-05-29  
USE steel-cr16ni15mo3nb

**steel-kh16n9m2**

INIS: 2003-01-23; ETDE: 1979-05-29  
(Prior to January 2003 this was a valid descriptor.)  
USE steel-cr16ni9mo2

**steel-kh17n13m2t**

INIS: 1983-11-07; ETDE: 1979-05-29  
USE steel-cr17ni13mo2ti

**steel-kh17n13m3t**

INIS: 1983-11-07; ETDE: 1979-05-29  
USE steel-cr17ni13mo3ti

**steel-kh17n5m3**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel-molybdenum steels

**steel-kh18**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18

**steel-kh18n10**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni10

**steel-kh18n10t**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni10ti

**steel-kh18n12t**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni12ti

**steel-kh18n22v2t2**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept.)  
USE chromium alloys  
USE nickel steels

**steel-kh18n8**

INIS: 2000-04-12; ETDE: 1979-05-29  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-nickel steels

**steel-kh18n9**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni9

**steel-kh18n9t**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr18ni9ti

**steel-kh20n45b**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE alloy-ni45fe34cr20

**steel-kh23n18**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr23ni18

**steel-kh25**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr25

**steel-kh5m**

INIS: 1983-11-07; ETDE: 1979-05-29  
(Prior to December 1988 this was a valid ETDE descriptor.)  
USE steel-cr5mo

**steel-khn35vt**

*INIS: 2000-04-12; ETDE: 1979-05-29*  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept.)  
USE chromium alloys  
USE nickel steels

**STEEL-MNCUMO**

*1983-11-07*  
\*BT1 chromium additions  
\*BT1 copper additions  
\*BT1 low alloy steels  
\*BT1 manganese alloys  
\*BT1 molybdenum additions  
\*BT1 nickel additions  
NT1 steel-astm-a537

**STEEL-MNMO**

*1983-11-07*  
UF steel-astm-a533 (gr c)  
UF steel-astm-a533 (gr d)  
\*BT1 low alloy steels  
\*BT1 manganese alloys  
\*BT1 molybdenum additions  
NT1 steel-astm-a302

**STEEL-MNNIMO**

*INIS: 1999-05-27; ETDE: 1983-11-09*  
UF steel-astm-a508 (gr 3)  
UF steel-astm-a533 (gr a)  
UF steel-din-1-6310  
UF steel-din-1-6343  
\*BT1 low alloy steels  
\*BT1 manganese alloys  
\*BT1 molybdenum additions  
\*BT1 nickel additions  
NT1 steel-astm-a533-b

**STEEL-MNNIMOV**

*1983-11-07*  
UF steel-din-1-6342  
\*BT1 low alloy steels  
\*BT1 manganese alloys  
\*BT1 molybdenum additions  
\*BT1 nickel alloys  
\*BT1 vanadium additions

**steel-n26khtl**

*INIS: 2000-04-12; ETDE: 1979-05-29*  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept.)  
USE chromium alloys  
USE nickel steels

**steel-n36khtyu**

*INIS: 1983-11-07; ETDE: 1979-05-29*  
(Prior to March 1989 this was a valid ETDE descriptor.)  
USE steel-ni36cr12ti3al-l

**steel-ni17cr14moti-l**

*INIS: 1997-01-28; ETDE: 1990-11-26*  
(Until October 1996 this was a valid descriptor.)  
USE austenitic steels  
USE chromium-nickel-molybdenum steels  
USE low carbon-high alloy steels

**STEEL-NI25CR20**

*1983-11-07*  
\*BT1 austenitic steels  
\*BT1 chromium-nickel steels  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
NT1 stainless steel-20-25

**STEEL-NI26CR15TI2MOVALB**

*1983-11-07*  
\*BT1 aluminium additions  
\*BT1 austenitic steels  
\*BT1 boron additions  
\*BT1 chromium-nickel-molybdenum steels  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 titanium alloys  
\*BT1 vanadium additions  
NT1 alloy-a-286

**STEEL-NI36CR12TI3AL-L**

*1983-11-07*  
UF steel-n36khtyu  
SF alloy-ehi 702  
\*BT1 aluminium additions  
\*BT1 chromium-nickel steels  
\*BT1 corrosion resistant alloys  
\*BT1 low carbon-high alloy steels  
\*BT1 titanium alloys

**steel-ni36cr18**

*INIS: 1997-01-28; ETDE: 1983-11-19*  
(Until October 1996 this was a valid descriptor.)  
USE austenitic steels  
USE chromium-nickel steels

**STEEL-NI3CR**

*1983-11-07*  
UF steel-12kh2nch  
UF steel-12khn3  
UF steel-12khn3a  
\*BT1 chromium additions  
\*BT1 copper additions  
\*BT1 low alloy steels  
\*BT1 nickel alloys

**STEEL-NI3CRMO**

*1983-11-07*  
UF steel-astm-a508 (gr 4)  
UF steel-din-1-6742  
\*BT1 chromium alloys  
\*BT1 low alloy steels  
\*BT1 molybdenum additions  
\*BT1 nickel alloys  
\*BT1 vanadium additions  
NT1 steel-astm-a543

**STEEL-NI3CRMV**

*1983-11-07*  
UF steel-astm-a508 (gr 5)  
UF steel-din-1-6950  
\*BT1 chromium alloys  
\*BT1 low alloy steels  
\*BT1 molybdenum additions  
\*BT1 nickel alloys  
\*BT1 vanadium additions

**steel-ni3mov**

*INIS: 1996-07-23; ETDE: 1983-11-10*  
(Until July 1996 this was a valid descriptor.)  
USE low alloy steels  
USE nickel alloys

**steel-ni4**

*INIS: 1997-01-28; ETDE: 1984-02-10*  
(Until October 1996 this was a valid descriptor.)  
USE low alloy steels  
USE nickel alloys

**STEEL-NI4CRW**

*1983-11-07*  
UF steel-18kh2n4va  
\*BT1 chromium alloys  
\*BT1 copper additions  
\*BT1 low alloy steels  
\*BT1 nickel alloys  
\*BT1 tungsten additions

**STEEL-NICR**

*1983-11-07*  
UF steel-40khn  
\*BT1 chromium additions  
\*BT1 copper additions  
\*BT1 low alloy steels  
\*BT1 nickel alloys

**STEEL-NICRMO**

*1983-11-07*  
UF steel-40khnma  
\*BT1 chromium additions  
\*BT1 copper additions  
\*BT1 low alloy steels  
\*BT1 molybdenum additions  
\*BT1 nickel alloys  
\*BT1 nitrogen additions

**STEEL-NIMOCR**

*1983-11-07*  
UF steel-22nimocr37  
UF steel-astm-a508 (gr 2)  
UF steel-din-1-6751  
\*BT1 chromium additions  
\*BT1 heat resisting alloys  
\*BT1 low alloy steels  
\*BT1 molybdenum additions  
\*BT1 nickel additions

**steel-r18**

*INIS: 2000-04-12; ETDE: 1979-06-21*  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium steels

**steel-sae-1006**

*INIS: 1997-01-28; ETDE: 1977-04-13*  
(Until October 1996 this was a valid descriptor.)  
USE carbon steels

**STEEL-SAE-1045**

*INIS: 2000-04-12; ETDE: 1979-06-21*  
\*BT1 carbon steels

**steel vnt**

*INIS: 1997-01-28; ETDE: 1978-12-20*  
(Prior to March 1997 this was a valid ETDE descriptor.)  
USE manganese steels

**steel-vzh102**

*INIS: 2000-04-12; ETDE: 1979-05-29*  
(Prior to June 1989 this was a valid ETDE descriptor. From then till March 1997 NICKEL-CHROMIUM STEELS was used for this concept.)  
USE chromium alloys  
USE nickel steels

**steel-x20crmov 121**

*INIS: 1984-04-25; ETDE: 2002-06-13*  
USE steel-cr12moniv

**STEEL-X6CRNI1811**

*INIS: 1993-10-03; ETDE: 1979-05-29*  
\*BT1 steel-cr18ni11

**steel-z10cdnbv9**

*INIS: 1997-01-28; ETDE: 1979-05-29*  
(Prior to March 1997 this was a valid ETDE descriptor.)  
USE steel-cr9monbv

**steel-z10cdv7**

*INIS: 2000-04-12; ETDE: 1979-05-29*  
(Prior to 1989 this was a valid ETDE descriptor.)  
USE chromium-molybdenum steels

**STEELS**

UF steel-12kh2mv8fb

- UF steel-12kh2v5fb*  
*UF steel-18mnv6*  
*SF steel-60kh3g8n8v*  
 \*BT1 carbon additions  
 \*BT1 iron base alloys  
**NT1** austenitic steels  
   **NT2** steel-cr15ni15motib  
   **NT2** steel-cr16ni13monbv  
   **NT2** steel-cr16ni15mo3nb  
   **NT2** steel-cr16ni16monb  
   **NT2** steel-cr16ni8mo2  
     **NT3** stainless steel-16-8-2  
   **NT2** steel-cr17ni12mo3  
     **NT3** stainless steel-316  
   **NT2** steel-cr17ni12mo3-l  
     **NT3** stainless steel-316l  
   **NT3** stainless steel-zcnd17-13  
   **NT2** steel-cr17ni12monb  
   **NT2** steel-cr17ni13  
   **NT2** steel-cr17ni13mo2ti  
   **NT2** steel-cr17ni13mo3ti  
   **NT2** steel-cr17ni7  
     **NT3** stainless steel-301  
   **NT2** steel-cr18ni10  
     **NT3** stainless steel-18-10  
   **NT2** steel-cr18ni10-l  
   **NT2** steel-cr18ni10ti  
     **NT3** stainless steel-321  
   **NT2** steel-cr18ni11  
     **NT3** steel-x6crni1811  
   **NT2** steel-cr18ni11nb  
     **NT3** stainless steel-347  
   **NT2** steel-cr18ni11nbco  
     **NT3** stainless steel-348  
   **NT2** steel-cr18ni12  
     **NT3** stainless steel-305  
   **NT2** steel-cr18ni12ti  
   **NT2** steel-cr18ni8  
     **NT3** stainless steel-18-8  
   **NT2** steel-cr18ni9  
     **NT3** stainless steel-302  
   **NT2** steel-cr18ni9ti  
   **NT2** steel-cr19ni10  
     **NT3** stainless steel-304  
   **NT2** steel-cr19ni10-l  
     **NT3** stainless steel-304l  
   **NT2** steel-cr20ni11  
     **NT3** stainless steel-308  
   **NT2** steel-cr20ni11-l  
     **NT3** stainless steel-308l  
   **NT2** steel-cr21mn9ni6  
     **NT3** stainless steel-21-6-9  
   **NT2** steel-cr23ni14  
     **NT3** stainless steel-309  
     **NT3** stainless steel-309s  
   **NT2** steel-cr23ni18  
   **NT2** steel-cr25ni20  
     **NT3** alloy-hk-40  
     **NT3** stainless steel-310  
   **NT2** steel-ni25cr20  
     **NT3** stainless steel-20-25  
   **NT2** steel-ni26cr15ti2movalb  
     **NT3** alloy-a-286  
**NT1** carbon steels  
   **NT2** steel-astm-a105  
   **NT2** steel-astm-a106  
   **NT2** steel-astm-a212  
   **NT2** steel-astm-a285  
   **NT2** steel-astm-a516  
   **NT2** steel-astm-a533-b  
   **NT2** steel-in-787  
   **NT2** steel-sae-1045  
**NT1** croloy  
   **NT2** steel-cr13  
     **NT3** stainless steel-410  
   **NT2** steel-cr16  
     **NT3** stainless steel-430  
   **NT2** steel-cr18ni10  
     **NT3** stainless steel-18-10  
   **NT2** steel-cr2mo  
   **NT3** steel-astm-a542  
   **NT2** steel-cr5mo  
**NT1** ferritic steels  
   **NT2** steel-cr12moniv  
   **NT2** steel-cr13al  
     **NT3** stainless steel-405  
   **NT2** steel-cr16  
     **NT3** stainless steel-430  
   **NT2** steel-cr25  
     **NT3** stainless steel-446  
   **NT2** steel-cr9mo  
   **NT2** steel-cr9monbv  
**NT1** high alloy steels  
   **NT2** stainless steels  
     **NT3** chromium-nickel steels  
       **NT4** alloy-d-9  
       **NT4** carpenter  
       **NT4** chromium-nickel-molybdenum steels  
       **NT5** alloy-m-813  
       **NT5** steel-cr11ni10mo2ti-l  
       **NT5** steel-cr15ni15motib  
       **NT5** steel-cr16ni13monbv  
       **NT5** steel-cr16ni15mo3nb  
       **NT5** steel-cr16ni16monb  
       **NT5** steel-cr16ni8mo2  
       **NT6** stainless steel-16-8-2  
       **NT5** steel-cr16ni9mo2  
       **NT5** steel-cr17ni12mo3  
       **NT6** stainless steel-316  
       **NT5** steel-cr17ni12mo3-l  
       **NT6** stainless steel-316l  
       **NT6** stainless steel-zcnd17-13  
       **NT5** steel-cr17ni12monb  
       **NT5** steel-cr17ni13mo2ti  
       **NT5** steel-cr17ni13mo3ti  
       **NT5** steel-ni26cr15ti2movalb  
       **NT6** alloy-a-286  
       **NT4** durco  
       **NT4** enduro  
       **NT4** stainless steel-17-7ph  
       **NT4** stainless steel-303  
       **NT4** stainless steel-329  
       **NT4** stainless steel-ph-15-7-mo  
       **NT4** steel-cr17ni13  
       **NT4** steel-cr17ni7  
       **NT5** stainless steel-301  
       **NT4** steel-cr18ni10  
       **NT5** stainless steel-18-10  
       **NT4** steel-cr18ni10-l  
       **NT4** steel-cr18ni10ti  
       **NT5** stainless steel-321  
       **NT4** steel-cr18ni11  
       **NT5** steel-x6crni1811  
       **NT4** steel-cr18ni11nb  
       **NT5** stainless steel-347  
       **NT4** steel-cr18ni11nbco  
       **NT5** stainless steel-348  
       **NT4** steel-cr18ni12  
       **NT5** stainless steel-305  
       **NT4** steel-cr18ni12ti  
       **NT4** steel-cr18ni8  
       **NT5** stainless steel-18-8  
       **NT4** steel-cr18ni9  
       **NT5** stainless steel-302  
       **NT4** steel-cr18ni9ti  
       **NT4** steel-cr19ni10  
       **NT5** stainless steel-304  
       **NT4** steel-cr19ni10-l  
       **NT5** stainless steel-304l  
       **NT4** steel-cr20ni11  
       **NT5** stainless steel-308  
       **NT4** steel-cr20ni11-l  
       **NT5** stainless steel-308l  
       **NT4** steel-cr23ni14  
       **NT5** stainless steel-309  
       **NT5** stainless steel-309s  
       **NT4** steel-cr23ni18  
       **NT4** steel-cr25ni20  
       **NT5** alloy-hk-40  
       **NT5** stainless steel-310  
       **NT4** steel-ni25cr20  
       **NT3** stainless steel-20-25  
       **NT2** steel-ni26cr15ti2movalb  
       **NT3** alloy-a-286  
       **NT4** magnet steel-ks  
       **NT4** miduale  
       **NT4** stainless steel-406  
       **NT4** steel-cr10mo2  
       **NT4** steel-cr12  
       **NT5** stainless steel-403  
       **NT4** steel-cr12moniv  
       **NT4** steel-cr12mov  
       **NT5** alloy-ht-9  
       **NT4** steel-cr13  
       **NT5** stainless steel-410  
       **NT4** steel-cr13al  
       **NT5** stainless steel-405  
       **NT4** steel-cr16  
       **NT5** stainless steel-430  
       **NT4** steel-cr16ni  
       **NT4** steel-cr17cu4ni4nb-l  
       **NT5** stainless steel-17-4ph  
       **NT4** steel-cr17mo  
       **NT5** stainless steel-440  
       **NT4** steel-cr17ni4mo3  
       **NT4** steel-cr18  
       **NT4** steel-cr25  
       **NT5** stainless steel-446  
       **NT4** steel-cr9mo  
       **NT4** steel-cr9monbv  
       **NT3** low carbon-high alloy steels  
       **NT4** steel-cr11ni10mo2ti-l  
       **NT4** steel-cr17cu4ni4nb-l  
       **NT5** stainless steel-17-4ph  
       **NT4** steel-cr17ni12mo3-l  
       **NT5** stainless steel-316l  
       **NT5** stainless steel-zcnd17-13  
       **NT4** steel-cr18ni10-l  
       **NT4** steel-cr19ni10-l  
       **NT5** stainless steel-304l  
       **NT4** steel-cr20ni11-l  
       **NT5** stainless steel-308l  
       **NT4** steel-ni36cr12ti3al-l  
       **NT3** stainless steel-317  
       **NT3** stainless steel-318  
       **NT3** stainless steel-422  
       **NT3** stainless steel-fv-548  
       **NT3** stainless steel-jbk-75  
       **NT3** stainless steel-m-50  
       **NT3** steel-cr21mn9ni6  
       **NT4** stainless steel-21-6-9  
       **NT3** sweetalloy  
       **NT1** low alloy steels  
       **NT4** steel-cr25ni20  
       **NT5** alloy-hk-40  
       **NT5** stainless steel-310  
       **NT4** steel-ni25cr20  
       **NT5** stainless steel-20-25  
       **NT4** steel-ni36cr12ti3al-l  
       **NT4** timken alloys  
       **NT3** chromium steels  
       **NT4** chromium-molybdenum steels  
       **NT5** chromium-nickel-molybdenum steels  
       **NT6** alloy-m-813  
       **NT6** steel-cr11ni10mo2ti-l  
       **NT6** steel-cr15ni15motib  
       **NT6** steel-cr16ni13monbv  
       **NT6** steel-cr16ni15mo3nb  
       **NT6** steel-cr16ni16monb  
       **NT6** steel-cr16ni8mo2  
       **NT7** stainless steel-16-8-2  
       **NT6** steel-cr16ni9mo2  
       **NT6** steel-cr17ni12mo3  
       **NT7** stainless steel-316  
       **NT6** steel-cr17ni12mo3-l  
       **NT7** stainless steel-316l  
       **NT7** stainless steel-zcnd17-13  
       **NT6** steel-cr17ni12monb  
       **NT6** steel-cr17ni13mo2ti  
       **NT6** steel-cr17ni13mo3ti  
       **NT6** steel-ni26cr15ti2movalb  
       **NT7** alloy-a-286  
       **NT4** magnet steel-ks  
       **NT4** miduale  
       **NT4** stainless steel-406  
       **NT4** steel-cr10mo2  
       **NT4** steel-cr12  
       **NT5** stainless steel-403  
       **NT4** steel-cr12moniv  
       **NT4** steel-cr12mov  
       **NT5** alloy-ht-9  
       **NT4** steel-cr13  
       **NT5** stainless steel-410  
       **NT4** steel-cr13al  
       **NT5** stainless steel-405  
       **NT4** steel-cr16  
       **NT5** stainless steel-430  
       **NT4** steel-cr16ni  
       **NT4** steel-cr17cu4ni4nb-l  
       **NT5** stainless steel-17-4ph  
       **NT4** steel-cr17mo  
       **NT5** stainless steel-440  
       **NT4** steel-cr17ni4mo3  
       **NT4** steel-cr18  
       **NT4** steel-cr25  
       **NT5** stainless steel-446  
       **NT4** steel-cr9mo  
       **NT4** steel-cr9monbv  
       **NT3** low carbon-high alloy steels  
       **NT4** steel-cr11ni10mo2ti-l  
       **NT4** steel-cr17cu4ni4nb-l  
       **NT5** stainless steel-17-4ph  
       **NT4** steel-cr17ni12mo3-l  
       **NT5** stainless steel-316l  
       **NT5** stainless steel-zcnd17-13  
       **NT4** steel-cr18ni10-l  
       **NT4** steel-cr19ni10-l  
       **NT5** stainless steel-304l  
       **NT4** steel-cr20ni11-l  
       **NT5** stainless steel-308l  
       **NT4** steel-ni36cr12ti3al-l  
       **NT3** stainless steel-317  
       **NT3** stainless steel-318  
       **NT3** stainless steel-422  
       **NT3** stainless steel-fv-548  
       **NT3** stainless steel-jbk-75  
       **NT3** stainless steel-m-50  
       **NT3** steel-cr21mn9ni6  
       **NT4** stainless steel-21-6-9  
       **NT3** sweetalloy  
       **NT1** low alloy steels

NT2 steel-astm-a350  
 NT2 steel-astm-a387  
 NT2 steel-astm-a508  
 NT2 steel-astm-a533  
 NT2 steel-cr2mo  
 NT3 steel-astm-a542  
 NT2 steel-cr2moninb  
 NT2 steel-cr2mov  
 NT2 steel-cr2nimov  
 NT2 steel-cr5mo  
 NT2 steel-cralnimo  
 NT2 steel-crmno  
 NT2 steel-crmov  
 NT2 steel-crimi  
 NT2 steel-mncumo  
 NT3 steel-astm-a537  
 NT2 steel-mnmo  
 NT3 steel-astm-a302  
 NT2 steel-mnnimo  
 NT3 steel-astm-a533-b  
 NT2 steel-mnnimov  
 NT2 steel-ni3cr  
 NT2 steel-ni3crmo  
 NT3 steel-astm-a543  
 NT2 steel-ni3crmov  
 NT2 steel-ni4crw  
 NT2 steel-nicr  
 NT2 steel-nicrmo  
 NT2 steel-nimocr  
 NT1 manganese steels  
 NT1 martensitic steels  
 NT2 maraging steels  
 NT2 steel-cr10mo2  
 NT2 steel-cr12  
 NT3 stainless steel-403  
 NT2 steel-cr12mov  
 NT3 alloy-ht-9  
 NT2 steel-cr13  
 NT3 stainless steel-410  
 NT2 steel-cr16ni  
 NT2 steel-cr17cu4ni4nb-1  
 NT3 stainless steel-17-4ph  
 NT2 steel-cr17mo  
 NT3 stainless steel-440  
 NT2 steel-cr18  
 NT1 nickel steels  
 NT2 sweetalloy  
 NT1 steel-astm-a572  
 RT bainite  
 RT cementite  
 RT decarburization  
 RT ferrite  
 RT martensite  
 RT pearlite

**steenstrupine**

INIS: 1997-01-28; ETDE: 1991-10-22  
 (Until October 1996 this was a valid descriptor.)

USE phosphate minerals  
 USE silicate minerals  
 USE thorium minerals  
 USE uranium minerals

**STEK REACTOR**

UF krito critical assembly  
 UF petten stek reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 pool type reactors  
 \*BT1 thermal reactors

**STELLAR ACTIVITY**

1984-12-04  
 NT1 starspots  
 NT2 sunspots  
 NT1 stellar flares  
 NT2 solar flares  
 NT1 stellar winds  
 NT2 solar wind  
 RT cosmic radiation

RT stars  
 RT stellar radiation

**STELLAR ATMOSPHERES**

For the Sun use SOLAR ATMOSPHERE or one of its NTs.

BT1 atmospheres  
 NT1 solar atmosphere  
 NT2 chromosphere  
 NT2 heliosphere  
 NT2 photosphere  
 NT2 solar corona  
 NT1 stellar chromospheres  
 NT1 stellar coronae  
 NT2 solar corona  
 NT1 stellar magnetospheres  
 RT stars  
 RT starspots

**stellar burning**

INIS: 1978-08-30; ETDE: 1978-10-19  
 USE star burning

**STELLAR CHROMOSPHERES**

INIS: 1984-11-30; ETDE: 1984-12-27  
 \*BT1 stellar atmospheres

**STELLAR CORONAE**

INIS: 1984-02-22; ETDE: 1984-03-06  
 For the Sun use SOLAR CORONA.  
 UF coronae (stellar)  
 \*BT1 stellar atmospheres  
 NT1 solar corona

**STELLAR FLARES**

For the Sun use SOLAR FLARES.  
 BT1 stellar activity  
 NT1 solar flares  
 RT stars  
 RT starspots  
 RT stellar winds

**STELLAR MAGNETOSPHERES**

UF magnetospheres (stellar)  
 \*BT1 stellar atmospheres  
 RT magnetic stars

**STELLAR RADIATION**

INIS: 1976-02-11; ETDE: 1975-07-29  
 BT1 radiations  
 NT1 solar radiation  
 NT2 diffuse solar radiation  
 NT2 direct solar radiation  
 NT2 solar particles  
 NT3 solar alpha particles  
 NT3 solar electrons  
 NT3 solar neutrinos  
 NT3 solar neutrons  
 NT3 solar protons  
 NT2 solar radiowave radiation  
 RT cosmic radiation  
 RT stellar activity

**stellar spots**

INIS: 1984-02-22; ETDE: 1984-03-06  
 USE starspots

**STELLAR WINDS**

For the Sun use SOLAR WIND.  
 SF mass loss  
 BT1 stellar activity  
 NT1 solar wind  
 RT stars  
 RT stellar flares

**STELLARATOR MODEL C**

\*BT1 stellarators

**STELLARATOR TYPE REACTORS**

INIS: 1995-01-16; ETDE: 1976-09-15  
 BT1 thermonuclear reactors  
 RT stellarators

**STELLARATORS**

1996-07-18

(CLASP DEVICE, PULSATOR STELLARATOR, TOR DEVICES, and W STELLARATORS have been valid ETDE descriptors.)

UF clasp device  
 UF pulsator stellarator  
 UF tor devices  
 \*BT1 closed plasma devices  
 NT1 cleo stellarator  
 NT1 heliac stellarators  
 NT2 h-1 heliac  
 NT2 hsx stellarator  
 NT2 sheila heliac  
 NT2 tj-ii heliac  
 NT1 heliotron-e stellarator  
 NT1 ims stellarator  
 NT1 jipp stellarator  
 NT1 jippt-2 device  
 NT1 l-2 stellarator  
 NT1 proto-cleo stellarators  
 NT1 sirius device  
 NT1 stellarator model c  
 NT1 torsatron stellarators  
 NT2 atf torsatron  
 NT2 chs torsatron  
 NT2 tj-iiu torsatron  
 NT2 vint torsatron  
 NT1 uragan stellarator  
 NT1 wega stellarator  
 NT1 wendelstein-2b stellarator  
 NT1 wendelstein-7 stellarator  
 RT banana regime  
 RT divertors  
 RT kruskal limit  
 RT magnetic surfaces  
 RT marfe  
 RT mode rational surfaces  
 RT pfirsch-schlueter regime  
 RT plasma radial profiles  
 RT sawtooth oscillations  
 RT stellarator type reactors

**STELLITE**

1996-11-13

UF alloy-co62cr28mo6ni3  
 UF alloy-co64cr29w4  
 UF alloy-co66cr26w6  
 UF alloy-hs-21  
 UF haynes stellite no 21  
 UF stellite 156  
 \*BT1 cobalt base alloys  
 NT1 alloy-co54cr20w15ni10  
 NT2 alloy-hs-25  
 NT2 haynes 25 alloy  
 NT1 alloy-co60cr30w4  
 NT2 stellite 6  
 NT1 alloy-hs-31

**stellite 156**

INIS: 1996-07-17; ETDE: 1978-10-30  
 (Until July 1996 this was a valid descriptor.)  
 USE chromium alloys  
 USE stellite  
 USE tungsten alloys

**STELLITE 6**

INIS: 1993-10-03; ETDE: 1978-10-30  
 UF alloy-hs-6  
 UF stooody  
 \*BT1 alloy-co60cr30w4

**stellite 6 (deloro)**

INIS: 1996-11-13; ETDE: 1984-07-10  
 USE deloro stellite 6

**stem (plant)**

USE plant stems

**STEM CELLS**

- \*BT1 somatic cells
- RT blood formation
- RT bone marrow
- RT colony forming units
- RT spermatogenesis

**STEMMING MATERIALS**

- INIS: 2000-04-12; ETDE: 1979-08-08
- BT1 materials
- RT boreholes
- RT grouting

**STENDAL-1 REACTOR**

- INIS: 1986-08-19; ETDE: 1986-09-05
- Stendal, Federal Republic of Germany.
- \*BT1 wwer type reactors

**stepanov method**

- INIS: 2000-04-12; ETDE: 1980-02-11
- SEE inverted stepanov method

**stepper motors**

- 2006-07-03
- Electric motors which turn through a certain angle, e.g. 90 deg, when a pulsed signal is applied.
- SEE electric motors

**STEREOCHEMISTRY**

- RT enantiomorphs
- RT isomers
- RT ligands
- RT molecular structure
- RT optical activity
- RT racemates
- RT racemization

**STERILE INSECT RELEASE**

- RT agriculture
- RT insect dispersal
- RT pest control
- RT radiosterilization
- RT sterile male technique
- RT sterility
- RT sterilization

**STERILE MALE TECHNIQUE**

- RT agriculture
- RT insect dispersal
- RT insects
- RT mass rearing
- RT parasites
- RT pest control
- RT radiosterilization
- RT sterile insect release
- RT sterilization

**STERILITY**

- RT fertility
- RT genetic control
- RT reproductive disorders
- RT sterile insect release

**STERILIZATION**

- UF disinfection
- NT1 radiosterilization
- NT2 radappertization
- RT bacterial spores
- RT chemosterilants
- RT disinfestation
- RT food
- RT germicides
- RT grain disinfestation
- RT inactivation
- RT pasteurization
- RT preservation
- RT sterile insect release
- RT sterile male technique

**STERLING-1 REACTOR**

- Rochester Gas and Electric Corp., Oswego, New York, USA. Canceled in 1980 before construction began.
- \*BT1 pwr type reactors

**STERLING-2 REACTOR**

- 2000-04-12
- Rochester Gas and Electric Corp., Oswego, New York, USA. Canceled in 1980 before construction began.
- \*BT1 pwr type reactors

**STERLING EVENT**

- BT1 vela project

**STERN-GERLACH EXPERIMENT**

- RT beams
- RT measuring methods
- RT spin orientation

**STERNHEIMER FORMULA**

- RT multipoles

**STEROID HORMONES**

- BT1 hormones
- NT1 androgens
- NT2 androstenedione
- NT2 androsterone
- NT2 hydroxyandrostenone
- NT2 testosterone
- NT1 corticosteroids
- NT2 glucocorticoids
- NT3 corticosterone
- NT3 cortisone
- NT3 dexamethasone
- NT3 hydrocortisone
- NT3 prednisolone
- NT3 prednisone
- NT2 mineralocorticoids
- NT3 aldosterone
- NT1 estrogens
- NT2 estradiol
- NT2 estriol
- NT2 estrone
- NT1 progesterone
- RT adrenal hormones

**STEROIDS**

- BT1 organic compounds
- NT1 androstanes
- NT2 androgens
- NT3 androstenedione
- NT3 androsterone
- NT3 hydroxyandrostenone
- NT3 testosterone
- NT1 estranes
- NT2 estradiol
- NT2 estriol
- NT2 estrone
- NT1 pregnanes
- NT2 corticosteroids
- NT3 glucocorticoids
- NT4 corticosterone
- NT4 cortisone
- NT4 dexamethasone
- NT4 hydrocortisone
- NT4 prednisolone
- NT4 prednisone
- NT3 mineralocorticoids
- NT4 aldosterone
- NT2 hydroxypregnenone
- NT2 progesterone
- NT1 sterols
- NT2 bile acids
- NT3 cholic acid
- NT2 cholesterol
- NT2 ergosterol
- NT2 sitosterol
- RT cardiotonics
- RT hormones

- RT urinary ketosteroids

**STEROLS**

- 1996-10-23
- UF lanolin
- UF wool fat
- \*BT1 hydroxy compounds
- \*BT1 steroids
- NT1 bile acids
- NT2 cholic acid
- NT1 cholesterol
- NT1 ergosterol
- NT1 sitosterol

**stes**

- INIS: 2000-04-12; ETDE: 1982-05-24
- USE seasonal thermal energy storage

**STF REACTOR**

- INIS: 1977-06-13; ETDE: 1976-11-17
- ANL, Argonne, Illinois, USA.
- UF safety test facility reactor
- \*BT1 air cooled reactors
- \*BT1 fast reactors
- \*BT1 research reactors
- \*BT1 test reactors

**STH**

- UF growth hormone
- UF somatotropic hormone
- \*BT1 pituitary hormones
- RT acromegaly
- RT anabolism
- RT growth
- RT hpl
- RT somatostatin

**stiffness**

- INIS: 1984-04-04; ETDE: 2002-06-13
- USE flexibility

**stilbamidine**

- 1996-07-08
- (Until June 1996 this was a valid descriptor.)
- USE amidines

**STILBENE**

- UF 1,2-diphenylethylene
- \*BT1 aromatics
- \*BT1 hydrocarbons
- RT organic crystal phosphors
- RT stilbestrol

**STILBESTROL**

- \*BT1 polyphenols
- RT estrogens
- RT stilbene

**still gas**

- INIS: 2000-04-12; ETDE: 1979-12-10
- USE refinery gases

**STILLAGE**

- INIS: 2000-04-12; ETDE: 1980-11-25
- The mash from an alcoholic fermentation after removal of the alcohol in a still.
- \*BT1 organic wastes
- RT distillation
- RT distillers dried grains
- RT fermentation
- RT waste product utilization

**stilton-hushed echo event**

- INIS: 2000-04-12; ETDE: 1975-09-11
- USE bedrock project

**stimulants (central nervous system)**

- INIS: 1993-11-09; ETDE: 1981-04-20
- USE analeptics

**STIMULATED EMISSION**

- 1999-10-14
- BT1 emission

BT1 energy-level transitions  
 NT1 superradiance  
 RT einstein coefficients  
 RT electrical pumping  
 RT electron beam pumping  
 RT gasers  
 RT lasers  
 RT masers  
 RT nuclear pumping  
 RT optical pumping

**stimulated emission devices**

INIS: 2000-01-06; ETDE: 1981-08-21

SEE gasers  
 SEE lasers  
 SEE masers

**STIMULATION**

1999-04-16

UF growth stimulation  
 NT1 well stimulation  
 NT2 explosive stimulation  
 RT hormones  
 RT metabolic activation  
 RT mitogens  
 RT stimuli

**stimulation (explosive)**

INIS: 1975-08-22; ETDE: 2002-06-13

USE explosive stimulation

**STIMULI**

RT bioelectricity  
 RT stimulation

**STIR REACTOR**

Atomics International Div., Rockwell International, Santa Susana, California, USA. Shut down in 1972.

UF shield test reactor  
 UF str reactor (shield test)

\*BT1 enriched uranium reactors  
 \*BT1 hydride moderated reactors  
 \*BT1 pool type reactors  
 \*BT1 thermal reactors

**STIRLING CYCLE**

BT1 thermodynamic cycles  
 RT stirling engines  
 RT thermodynamics

**STIRLING ENGINES**

Engines that operate on the stirling thermodynamic cycle.

\*BT1 heat engines  
 RT aaps  
 RT regeneration  
 RT regenerators  
 RT solar heat engines  
 RT stirling cycle

**STIRRING**

RT mixing  
 RT turbulence

**STISHOVITE**

INIS: 2000-04-12; ETDE: 1977-10-20

A mineral consisting essentially of silicon dioxide.

\*BT1 oxide minerals  
 RT silicon oxides

**stm**

INIS: 2000-04-12; ETDE: 1999-09-09

USE scanning tunneling microscopy

**STOCHASTIC COOLING**

INIS: 1981-08-31; ETDE: 1979-10-23

Gradual reduction of emittance of coasting charged-particle beams by feedback sensing and correcting statistical fluctuations of beam position or momentum.

BT1 beam cooling  
 NT1 momentum cooling

**stochastic momentum cooling**

INIS: 1982-04-13; ETDE: 1982-05-07

USE momentum cooling

**STOCHASTIC PROCESSES**

NT1 markov process  
 RT chaos theory  
 RT chapman-kolmogorov equation  
 RT gaussian processes  
 RT monte carlo method  
 RT statistics

**STOCKBARGER METHOD**

BT1 crystal growth methods  
 RT crystal growth

**stockholm r-1 reactor**

USE r-1 reactor

**STOCKPILES**

1999-07-12

(Until July 1999 this information was indexed by INVENTORIES.)

RT reserves

**stocks**

INIS: 2000-04-12; ETDE: 1979-05-02

USE inventories

**STOERMER THEORY**

RT charged particles  
 RT magnetic fields

**STOICHIOMETRY**

1986-05-26

(Prior to June 1986 CHEMICAL COMPOSITION was used for this concept.)

RT chemical composition  
 RT chemical reactions  
 RT chemistry

**STOKERS**

INIS: 1992-03-16; ETDE: 1976-09-14

Mechanical devices used in boilers or furnaces for feeding coal, removing refuse, controlling air supply, and mixing with combustibles for efficient combustion.

\*BT1 fuel feeding systems  
 RT boilers  
 RT burners  
 RT coal  
 RT furnaces

**STOKES LAW**

RT viscous flow

**STOKES PARAMETERS**

RT polarization

**STOMACH**

UF rumen  
 \*BT1 gastrointestinal tract  
 \*BT1 organs  
 RT gastrectomy  
 RT gastric acid  
 RT gastrin  
 RT intrinsic factor  
 RT pepsin  
 RT vomiting

**STOMATA**

INIS: 1992-09-04; ETDE: 1976-01-07

BT1 openings  
 RT plants

RT transpiration

**stone and webster coal solution gasification process**

INIS: 2000-04-12; ETDE: 1976-08-24

USE coal gasification

**stone and webster gasification process**

INIS: 2000-04-12; ETDE: 1976-08-04

Process for production of low-sulfur fuels from coal by stepwise addition of hydrogen to coal. Enough hydrogen is added in the first step to convert coal to liquids, which are then hydrogasified to methane, ethane, and aromatic liquid products.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal gasification

**STONE AND WEBSTER IONIC PROCESS**

2000-04-12

Desulfurization process using aqueous caustic soda solution to absorb sulfur dioxide; solution is regenerated in electrolytic cells.

\*BT1 desulfurization

**STONE METEORITES**

BT1 meteorites  
 NT1 achondrites  
 NT1 chondrites  
 RT rocks

**stone-webster reference pwr**

INIS: 1984-06-21; ETDE: 2002-06-13

USE swessar standard plant

**stoody**

INIS: 2000-04-12; ETDE: 1978-12-20

USE stellite 6

**stopping**

USE absorption

**STOPPING POWER**

UF stopping power (total atomic)  
 UF stopping power (total linear)  
 UF stopping power (total mass)  
 RT absorption  
 RT atomic number  
 RT density  
 RT energy losses  
 RT range

**stopping power (total atomic)**

USE stopping power

**stopping power (total linear)**

USE stopping power

**stopping power (total mass)**

USE stopping power

**stoppings**

INIS: 1996-04-18; ETDE: 1978-04-27

USE ventilation barriers

**STOR-M TOKAMAK**

INIS: 1999-07-26; ETDE: 1999-09-03

Saskatchewan Torus-Modified.

\*BT1 tokamak devices

**STORAGE**

1996-04-16

NT1 dry storage  
 NT1 energy storage  
 NT2 cold storage  
 NT2 compressed air energy storage  
 NT2 flywheel energy storage  
 NT2 heat storage  
 NT3 latent heat storage



**NT3** seasonal thermal energy storage  
**NT3** sensible heat storage  
**NT3** thermochemical heat storage  
**NT2** magnetic energy storage  
**NT3** superconducting magnetic energy storage  
**NT2** off-peak energy storage  
**NT2** photochemical energy storage  
**NT2** pumped storage  
**NT1** hydrogen storage  
**NT1** spent fuel storage  
**NT2** away-from-reactor storage  
**NT2** monitored retrievable storage  
**NT1** underground storage  
**NT1** waste storage  
**NT2** radioactive waste storage  
**NT3** monitored retrievable storage  
**NT1** wet storage  
*RT* inventories  
*RT* storage facilities  
*RT* stowage  
*RT* transport  
*RT* water reservoirs

**storage (spent fuel)**

2000-04-12

USE spent fuel storage

**storage (wastes)**

2000-04-12

USE waste storage

**storage batteries**

INIS: 2000-04-12; ETDE: 1976-05-13

USE electric batteries

**storage batteries (lead-acid)**

INIS: 1992-05-04; ETDE: 1976-05-13

USE lead-acid batteries

**storage devices (data)**

USE memory devices

**STORAGE FACILITIES**

INIS: 1984-01-18; ETDE: 1977-01-28

*UF* facilities (storage)*UF* tank farms*RT* energy facilities*RT* floating roof tanks*RT* inventories*RT* maintenance facilities*RT* natural gas*RT* nuclear facilities*RT* radioactive waste facilities*RT* spent fuel storage*RT* spent fuels*RT* storage*RT* terminal facilities*RT* wastes**STORAGE LIFE***UF* market life*RT* food processing*RT* lifetime*RT* radiopreservation*RT* sprout inhibition**storage pools (fuel)**

INIS: 1985-01-17; ETDE: 2002-06-13

USE fuel storage pools

**STORAGE RINGS**

1996-07-08

(Prior to August 1996 PRECETRON STORAGE RING was a valid ETDE descriptor.)

*UF* precetron storage ring*UF* rings (storage)**NT1** adone**NT1** advanced light source**NT1** advanced photon source

**NT1** astrid storage ring  
**NT1** beijing electron-positron collider  
**NT1** bessy storage ring  
**NT1** brookhaven rhic  
**NT1** celsius storage ring  
**NT1** cern cesar  
**NT1** cern isr  
**NT1** cern lhc  
**NT1** cesr storage ring  
**NT1** cosy storage ring  
**NT1** dci orsay storage ring  
**NT1** doris storage ring  
**NT1** escar storage ring  
**NT1** esr storage ring  
**NT1** euterpe storage ring  
**NT1** hera storage ring  
**NT1** indus-1  
**NT1** indus-2  
**NT1** isabelle storage rings  
**NT1** lep storage rings  
**NT1** lns storage ring  
**NT1** nap-m storage ring  
**NT1** orsay storage rings  
**NT1** pampus storage ring  
**NT1** pep storage rings  
**NT2** epic storage ring  
**NT1** petra storage ring  
**NT1** popae storage ring  
**NT1** serpukhov tevatron  
**NT1** spear  
**NT1** spring-8 storage ring  
**NT1** superconducting super collider  
**NT1** surf ii storage ring  
**NT1** tristan storage rings  
**NT1** tsr storage ring  
**NT1** vep-1  
**NT1** vepp-2  
**NT1** vepp-3  
**NT1** vepp-4  
*RT* accelerators  
*RT* synchrotron radiation sources

**storage tubes**

USE electron tubes

USE image storage tubes

**STORED ENERGY****BT1** energy**\*BT1** thermodynamic properties*RT* tank circuits**stores**

INIS: 2000-04-12; ETDE: 1981-01-09

USE commercial buildings

**STORM DOORS**

INIS: 2000-04-12; ETDE: 1977-06-21

**\*BT1** doors*RT* thermal insulation*RT* weatherization**STORM WINDOWS**

INIS: 2000-04-12; ETDE: 1977-06-21

**\*BT1** windows*RT* thermal insulation*RT* weatherization**STORMS**

INIS: 1992-03-31; ETDE: 1975-11-26

**NT1** hurricanes**NT1** monsoons**NT1** tornadoes*RT* atmospheric precipitations*RT* cloud cover*RT* clouds*RT* lightning*RT* meteorology*RT* natural disasters*RT* rain*RT* runoff*RT* snow*RT* water waves*RT* wave forces*RT* weather*RT* wind loads**stover**

INIS: 1991-12-11; ETDE: 1979-04-11

(This concept in ETDE should be indexed by

the coordination of the descriptor

AGRICULTURAL WASTES with a

descriptor indicating the field crop.)

USE agricultural wastes

**STOVES**

INIS: 1993-02-15; ETDE: 1976-08-04

*UF* stoves (coal burning)*UF* stoves (electric)*UF* stoves (gas burning)*UF* stoves (wood burning)*UF* wood stoves**\*BT1** appliances*RT* coal burning appliances*RT* ovens*RT* wood burning appliances**stoves (coal burning)**

INIS: 1993-02-15; ETDE: 2001-03-07

USE coal burning appliances

USE stoves

**stoves (electric)**

INIS: 1993-02-15; ETDE: 2001-03-07

USE electric appliances

USE stoves

**stoves (gas burning)**

INIS: 1993-02-15; ETDE: 2001-03-07

USE gas appliances

USE stoves

**stoves (wood burning)**

INIS: 1993-02-15; ETDE: 2001-03-07

USE stoves

USE wood burning appliances

**STOWAGE**

INIS: 2000-04-12; ETDE: 1979-12-17

Positioning for safekeeping, e.g., heliostat inversion during hailstorms.

*RT* positioning*RT* storage**STOWING**

INIS: 2000-04-12; ETDE: 1979-06-06

*UF* packing*RT* backfilling*RT* strata control*RT* underground mining**STP-3M DEVICE**

INIS: 1993-03-10; ETDE: 1993-04-16

Nagoya University, Japan.

**\*BT1** toroidal screw pinch devices**str reactor (shield test)**

USE stir reactor

**str reactor (split table)**

USE split table reactor

**STRAHLENSCHUTZKOMMISSION**

INIS: 1978-11-24; ETDE: 1980-07-23

**\*BT1** german fr organizations*RT* radiation protection**STRAIGHT-LINE PATH APPROXIMATION**

INIS: 1975-09-16; ETDE: 1975-10-01

Assumes that transverse-momentum transfer is small in high-energy particle interactions.

**\*BT1** approximations*RT* eikonal approximation

RT linear momentum transfer  
 RT particle interactions  
 RT transverse momentum

**STRAIN AGING**

BT1 aging  
 RT cold working

**STRAIN GAGES**

(From September 1976 till March 1997 TENSIMETERS was a valid ETDE descriptor.)

UF gages (strain)  
 SF tensimeters  
 BT1 measuring instruments  
 RT extensometers  
 RT mechanical tests  
 RT strains

**STRAIN HARDENING**

UF shock wave hardening  
 UF shock-wave hardening  
 UF work hardening  
 BT1 hardening  
 RT cold working  
 RT strains

**STRAIN RATE**

INIS: 1986-05-23; ETDE: 1976-01-07  
 RT static loads  
 RT strains  
 RT tensile properties

**STRAIN SOFTENING**

1977-07-05  
 A softening of a metal exhibited during deformation. It can occur at either high or low temperatures, depending upon the metal.  
 UF work softening  
 RT strains

**STRAINS**

RT deformation  
 RT elasticity  
 RT poisson ratio  
 RT ratcheting  
 RT strain gages  
 RT strain hardening  
 RT strain rate  
 RT strain softening  
 RT stresses  
 RT tensile properties

**strait event**

INIS: 2000-04-12; ETDE: 1977-06-21  
 USE anvil project

**STRAIT OF HORMUZ**

INIS: 1992-06-04; ETDE: 1980-10-27  
 \*BT1 persian gulf

**STRAND BREAKS**

1998-02-16  
 BT1 dna damages  
 RT biological radiation effects  
 RT chemical radiation effects  
 RT decomposition  
 RT dna  
 RT dna repair  
 RT molecular biology  
 RT pyrimidine dimers  
 RT radiation effects  
 RT radiation injuries  
 RT rna

**strange baryons**

INIS: 1987-12-21; ETDE: 1988-03-16  
 USE hyperons

**STRANGE MESONS**

INIS: 1995-08-07; ETDE: 1988-02-02  
 UF k-1240 resonances

UF k-1871 resonances  
 UF k\*resonances  
 UF l-1770 resonances  
 \*BT1 mesons  
 \*BT1 strange particles  
 NT1 b s mesons  
 NT1 d s-2536 mesons  
 NT1 d s mesons  
 NT1 d\*s-2110 mesons  
 NT1 k-1460 mesons  
 NT1 k-1830 mesons  
 NT1 k\*-1410 mesons  
 NT1 k\*-1680 mesons  
 NT1 k\*-892 mesons  
 NT1 k\*0-1430 mesons  
 NT1 k\*2-1430 mesons  
 NT1 k\*3-1780 mesons  
 NT1 k\*4-2045 mesons  
 NT1 k1-1270 mesons  
 NT1 k1-1400 mesons  
 NT1 k2-1770 mesons  
 NT1 k2-1820 mesons  
 NT1 kaons  
 NT2 antikaons  
 NT3 antikaons neutral  
 NT2 cosmic kaons  
 NT2 kaons minus  
 NT2 kaons neutral  
 NT3 antikaons neutral  
 NT3 kaons neutral long-lived  
 NT3 kaons neutral short-lived  
 NT2 kaons plus

**STRANGE PARTICLES**

1995-10-04

BT1 elementary particles  
 NT1 hyperons  
 NT2 antihyperons  
 NT3 antilambda particles  
 NT3 antiomega particles  
 NT3 antisigma particles  
 NT3 antixi particles  
 NT2 lambda baryons  
 NT3 lambda-1405 baryons  
 NT3 lambda-1520 baryons  
 NT3 lambda-1600 baryons  
 NT3 lambda-1670 baryons  
 NT3 lambda-1690 baryons  
 NT3 lambda-1800 baryons  
 NT3 lambda-1810 baryons  
 NT3 lambda-1820 baryons  
 NT3 lambda-1830 baryons  
 NT3 lambda-1890 baryons  
 NT3 lambda-2100 baryons  
 NT3 lambda-2110 baryons  
 NT3 lambda particles  
 NT4 antilambda particles  
 NT2 lambda-n-2130 dibaryons  
 NT2 omega baryons  
 NT3 omega-2250 baryons  
 NT3 omega particles  
 NT4 antiomega particles  
 NT4 omega minus particles  
 NT2 sigma baryons  
 NT3 sigma-1385 baryons  
 NT3 sigma-1660 baryons  
 NT3 sigma-1670 baryons  
 NT3 sigma-1750 baryons  
 NT3 sigma-1770 baryons  
 NT3 sigma-1775 baryons  
 NT3 sigma-1915 baryons  
 NT3 sigma-1940 baryons  
 NT3 sigma-2030 baryons  
 NT3 sigma-2455 baryons  
 NT3 sigma particles  
 NT4 antisigma particles  
 NT4 sigma minus particles  
 NT4 sigma neutral particles  
 NT4 sigma plus particles

NT2 xi baryons  
 NT3 xi-1530 baryons  
 NT3 xi-1690 baryons  
 NT3 xi-1820 baryons  
 NT3 xi-1950 baryons  
 NT3 xi-2030 baryons  
 NT3 xi-2250 baryons  
 NT3 xi-2500 baryons  
 NT3 xi particles  
 NT4 antixi particles  
 NT4 xi minus particles  
 NT4 xi neutral particles  
 NT2 z\*baryons  
 NT1 s quarks  
 NT1 spurions  
 NT1 strange mesons  
 NT2 b s mesons  
 NT2 d s-2536 mesons  
 NT2 d s mesons  
 NT2 d\*s-2110 mesons  
 NT2 k-1460 mesons  
 NT2 k-1830 mesons  
 NT2 k\*-1410 mesons  
 NT2 k\*-1680 mesons  
 NT2 k\*-892 mesons  
 NT2 k\*0-1430 mesons  
 NT2 k\*2-1430 mesons  
 NT2 k\*3-1780 mesons  
 NT2 k\*4-2045 mesons  
 NT2 k1-1270 mesons  
 NT2 k1-1400 mesons  
 NT2 k2-1770 mesons  
 NT2 k2-1820 mesons  
 NT2 kaons  
 NT3 antikaons  
 NT4 antikaons neutral  
 NT3 cosmic kaons  
 NT3 kaons minus  
 NT3 kaons neutral  
 NT4 antikaons neutral  
 NT4 kaons neutral long-lived  
 NT4 kaons neutral short-lived  
 NT3 kaons plus  
 RT strangeness  
 RT strangeonium

**STRANGENESS**

BT1 particle properties  
 RT gauge invariance  
 RT gell-mann theory  
 RT strange particles  
 RT strangeness analog resonances

**STRANGENESS ANALOG RESONANCES**

UF analog resonances (strangeness)  
 RT energy levels  
 RT nuclear reactions  
 RT strangeness

**STRANGENESS-EXCHANGE REACTIONS**

INIS: 1981-11-27; ETDE: 1979-04-12  
 Nuclear reactions in which strangeness of reactants is altered.  
 BT1 nuclear reactions

**STRANGEONIUM**

INIS: 1995-10-04; ETDE: 1988-02-01  
 A bound state of strange and anti strange quarks.  
 \*BT1 mesons  
 BT1 quarkonium  
 NT1 f2 prime-1525 mesons  
 NT1 phi-1020 mesons  
 NT1 phi-1680 mesons  
 NT1 phi3-1850 mesons  
 RT s quarks  
 RT strange particles

**STRASBOURG-CRONENBOURG REACTOR**

*Univ. of Strasbourg Reactor Dept.,  
Strasbourg, France.*

- \*BT1 argonaut type reactors
- \*BT1 training reactors

**STRATA CONTROL**

*INIS: 1993-02-16; ETDE: 1978-05-03  
Measures taken to control movement of  
geologic strata.*

- UF ground control
- RT caving
- RT rock mechanics
- RT roof bolts
- RT slope stability
- RT stowing
- RT strata movement

**STRATA MOVEMENT**

*INIS: 1992-08-28; ETDE: 1978-05-03*

- RT caving
- RT geologic strata
- RT ground motion
- RT ground uplift
- RT rock falls
- RT rock mechanics
- RT strata control
- RT underground mining

**strategic defense initiative**

*INIS: 1994-09-22; ETDE: 1984-11-29  
USE ballistic missile defense*

**STRATEGIC PETROLEUM RESERVE**

*INIS: 1999-10-08; ETDE: 1977-10-20*

- \*BT1 reserves
- RT energy supplies
- RT petroleum
- RT underground storage

**STRATEGIC POINTS**

*Points in the fuel cycle at which measurement  
of the flow of nuclear material would be useful  
for safeguards purposes.*

- RT material balance area
- RT safeguards

**STRATIFICATION**

- RT geologic strata
- RT layers
- RT stratified charge engines

**STRATIFIED CHARGE ENGINES**

*2000-04-12*

- \*BT1 internal combustion engines
- RT automobiles
- RT combustion
- RT fuel injection systems
- RT stratification

**STRATIGRAPHY**

*That branch of geology which treats of the  
formation, composition, sequence, and  
correlation of the stratified rocks as parts of  
the earth's crust.*

- BT1 geology
- RT geologic strata
- RT geologic structures
- RT geomorphology
- RT layers
- RT palynology
- RT site characterization

**STRATOSPHERE**

- UF high altitude (stratosphere)
- BT1 earth atmosphere
- RT global fallout
- RT magnetic rigidity
- RT ozone layer

- RT supersonic transport
- RT tropopause

**STRAW**

*INIS: 1991-12-11; ETDE: 1978-12-11*

- RT agricultural wastes
- RT plant stems

**STRAWBERRIES**

- \*BT1 berries
- \*BT1 rosaceae

**STRAY RADIATION**

- BT1 radiations
- RT scattering
- RT shielding

**STREAK CAMERAS**

*INIS: 1986-10-29; ETDE: 1984-09-21*

*Cameras which produce two-dimensional  
images where time is one coordinate.*

- BT1 cameras
- RT radiation detectors
- RT streak photography

**STREAK PHOTOGRAPHY**

- BT1 photography
- RT streak cameras

**STREAMER SPARK CHAMBERS**

- \*BT1 spark chambers

**streaming (radiation)**

- USE radiation streaming

**STREAMS**

*INIS: 1999-03-15; ETDE: 1976-04-19*

*(Until March 1999 this concept was indexed  
in INIS by RIVERS.)*

- UF brooks
- UF creeks
- \*BT1 rivers
- RT water currents
- RT watersheds

**streets**

- 1992-03-05
- USE roads

**strelkinite**

*INIS: 2000-04-12; ETDE: 1975-12-16*

*(Prior to August 1996 this was a valid ETDE  
descriptor.)*

- USE oxide minerals
- USE uranium minerals

**strength (compression)**

- USE compression strength

**strength (flexural)**

- USE flexural strength

**strength (fracture)**

- USE fracture properties

**strength (impact)**

- USE impact strength

**strength (shear)**

- USE shear properties

**strength (tensile)**

- USE tensile properties

**strength (ultimate)**

*1980-05-14*

- USE ultimate strength

**strength (yield)**

- USE yield strength

**STRENGTH FUNCTIONS**

- BT1 functions
- RT energy levels

- RT oscillator strengths

**streptidine kinase**

*INIS: 2000-04-12; ETDE: 1981-04-20*

*(Prior to March 1997 this was a valid ETDE  
descriptor.)*

- USE fibrinolytic agents
- USE phosphotransferases

**STREPTOCOCCAL PROTEINASE**

*INIS: 1984-01-18; ETDE: 1981-01-12*

*Code number 3.4.22.10.*

- UF streptokinase
- \*BT1 sh-proteinases
- RT fibrinolysis
- RT streptococcus
- RT thrombosis

**STREPTOCOCCUS**

- \*BT1 bacteria
- RT streptococcal proteinase

**streptokinase**

*1984-01-18*

*(Prior to January 1984 this was a valid  
descriptor, and older material is so indexed.)*

- USE streptococcal proteinase

**STREPTOMYCES**

- \*BT1 bacteria
- RT streptomycin

**STREPTOMYCIN**

- \*BT1 antibiotics
- RT streptomycetes
- RT tuberculosis

**STREPTOZOCIN**

*INIS: 2000-03-29; ETDE: 1981-04-20*

- UF streptozotocin
- UF streptozotocin 7

- \*BT1 antibiotics
- \*BT1 antineoplastic drugs

**streptozotocin**

*2000-03-29*

*ANTIBIOTICS, ANTINEOPLASTIC DRUGS.*

*(Prior to March 2000, this concept was  
indexed by SACCHARIDES and NITROSO  
COMPOUNDS in combination with a  
descriptor for the application, e.g.)*

- USE streptozocin

**streptozotocin 7**

*2000-04-12*

*(Prior to April 1981, this concept in ETDE  
was indexed by ANTIBIOTICS, NITROSO  
COMPOUNDS, and SACCHARIDES.)*

- USE streptozocin

**stress (biological)**

- USE biological stress

**STRESS ANALYSIS**

- RT homalite
- RT photoelasticity
- RT stress intensity factors
- RT stresses

**stress concentration factors**

*INIS: 1978-08-14; ETDE: 2002-06-13*

- USE stress intensity factors

**STRESS CORROSION**

- \*BT1 corrosion

**STRESS INTENSITY FACTORS**

*INIS: 1978-08-14; ETDE: 1978-10-19*

- UF stress concentration factors
- RT crack propagation
- RT cracks
- RT defects
- RT fracture mechanics

RT fracture properties  
 RT fractures  
 RT mechanical tests  
 RT stress analysis

**STRESS RELAXATION**

UF relaxation (stress)  
 UF relieving (stress)  
 UF stress relieving  
 BT1 relaxation  
 RT annealing  
 RT creep  
 RT heat treatments  
 RT stresses

**stress relieving**

USE stress relaxation

**STRESSES**

For mechanical stress only; see also

**BIOLOGICAL STRESS.**

UF loads (stresses)  
 NT1 flow stress  
 NT1 residual stresses  
 NT1 thermal stresses  
 RT dilatancy  
 RT dynamic loads  
 RT materials testing  
 RT mechanical properties  
 RT mechanical tests  
 RT pore pressure  
 RT ratcheting  
 RT s-n diagram  
 RT shear  
 RT static loads  
 RT strains  
 RT stress analysis  
 RT stress relaxation  
 RT tensile properties  
 RT thermoelasticity  
 RT wind loads

**stretch model**

USE aligned coupling scheme

**STRETFORD PROCESS**

2000-04-12

Process for sweetening natural and industrial gases by complete removal of hydrogen sulfide and partial removal of organic sulfur compounds; gas is washed with aqueous solution containing sodium carbonate, sodium vanadate, anthraquinonedisulfonic acid.

\*BT1 desulfurization

**STRIATIONS**

RT electric discharges

**STRING MODELS**

Treating the interactions of extended particles through breaking and connection of strings.

\*BT1 extended particle model  
 \*BT1 quark model  
 NT1 superstring models  
 RT particle interactions  
 RT particle structure  
 RT quantum chromodynamics

**strip mining**

INIS: 1975-10-09; ETDE: 2002-02-27

USE surface mining

**STRIPED BASS**

INIS: 1992-09-08; ETDE: 1978-01-23

\*BT1 anadromous fishes

**stripper foils**

USE beam strippers

**strippers**

USE beam strippers

**STRIPPING**

For nuclear reactions only; for electron stripping use ELECTRON LOSS.

\*BT1 transfer reactions  
 RT butler theory  
 RT oppenheimer-phillips process  
 RT serber theory

**STRONG-ABSORPTION MODEL**

\*BT1 nuclear models

**STRONG-COUPPLING MODEL**

\*BT1 particle models  
 RT coupling  
 RT strong interactions  
 RT weak-coupling model

**STRONG INTERACTIONS**

\*BT1 basic interactions  
 NT1 charge-exchange interactions  
 NT1 peripheral collisions  
 RT annihilation  
 RT charge independence  
 RT chew-low method  
 RT cim model  
 RT grand unified theory  
 RT hadron-hadron interactions  
 RT hadronic particle decay  
 RT quark-gluon interactions  
 RT rescattering  
 RT standard model  
 RT strong-coupling model

**strongly damped heavy ion reactions**

INIS: 1993-11-09; ETDE: 2002-06-13

USE deep inelastic heavy ion reactions

**STRONGLY IONIZED GASES**

Ionization factor above 10(-4).

\*BT1 ionized gases

**STRONTIUM**

\*BT1 alkaline earth metals

**STRONTIUM 100**

INIS: 1979-04-27; ETDE: 1979-05-25

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 101**

INIS: 1984-06-21; ETDE: 1984-03-19

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 102**

INIS: 1986-01-21; ETDE: 1985-08-08

\*BT1 beta-minus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 75**

INIS: 1996-06-17; ETDE: 1996-05-31

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 76**

INIS: 1992-03-26; ETDE: 1992-08-12

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei

\*BT1 seconds living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 77**

INIS: 1976-10-29; ETDE: 1976-12-16

\*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 78**

1976-01-27

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 79**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 80**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 strontium isotopes

**STRONTIUM 81**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 82**

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 strontium isotopes

**STRONTIUM 83**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 strontium isotopes

**STRONTIUM 84**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 stable isotopes  
 \*BT1 strontium isotopes

**STRONTIUM 84 TARGET**

ETDE: 1976-07-09

BT1 targets

**STRONTIUM 85**

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 strontium isotopes

**STRONTIUM 86**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei

- \*BT1 stable isotopes
- \*BT1 strontium isotopes

**STRONTIUM 86 TARGET**

ETDE: 1976-07-09

- BT1 targets

**STRONTIUM 87**

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes
- \*BT1 strontium isotopes

**STRONTIUM 87 TARGET**

INIS: 1976-03-17; ETDE: 1976-07-12

- BT1 targets

**STRONTIUM 88**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 strontium isotopes

**STRONTIUM 88 TARGET**

ETDE: 1976-07-09

- BT1 targets

**STRONTIUM 89**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 strontium isotopes

**STRONTIUM 90**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 strontium isotopes
- \*BT1 years living radioisotopes
- RT radioisotope generators

**STRONTIUM 90 TARGET**

INIS: 1983-09-01; ETDE: 1976-11-01

- BT1 targets

**STRONTIUM 91**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 strontium isotopes

**STRONTIUM 92**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 strontium isotopes

**STRONTIUM 93**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 94**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 95**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 96**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 97**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 98**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM 99**

1976-03-17

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 strontium isotopes

**STRONTIUM ADDITIONS***Alloys containing not more than 1% Sr are listed here.*

- \*BT1 strontium alloys

**STRONTIUM ALLOYS**

1996-07-23

*Alloys containing more than 1% Sr.*

- UF strontium base alloys
- BT1 alloys
- NT1 strontium additions

**strontium base alloys**

1996-07-23

(Until July 1996 this was a valid descriptor.)

- USE strontium alloys

**strontium borides**

1996-07-23

(Until July 1996 this was a valid descriptor.)

- USE borides
- USE strontium compounds

**STRONTIUM BROMIDES**

- \*BT1 bromides
- \*BT1 strontium compounds

**STRONTIUM CARBIDES**

- \*BT1 carbides
- \*BT1 strontium compounds

**STRONTIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 strontium compounds

**STRONTIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 strontium compounds

**STRONTIUM COMPLEXES**

- \*BT1 alkaline earth metal complexes

**STRONTIUM COMPOUNDS**

1996-07-23

- UF strontium borides
- BT1 alkaline earth metal compounds
- NT1 strontium bromides
- NT1 strontium carbides
- NT1 strontium carbonates
- NT1 strontium chlorides
- NT1 strontium fluorides
- NT1 strontium hydrides
- NT1 strontium hydroxides
- NT1 strontium iodides

- NT1 strontium nitrates
- NT1 strontium oxides
- NT1 strontium perchlorates
- NT1 strontium phosphates
- NT1 strontium silicates
- NT1 strontium sulfates
- NT1 strontium sulfides
- NT1 strontium titanates
- NT1 strontium tungstates
- NT1 strontium uranates

**STRONTIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 strontium compounds

**STRONTIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 strontium compounds

**STRONTIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 strontium compounds

**STRONTIUM IODIDES**

- \*BT1 iodides
- \*BT1 strontium compounds

**STRONTIUM IONS**

- \*BT1 ions

**STRONTIUM ISOTOPES**

1999-02-01

- \*BT1 alkaline earth isotopes
- NT1 strontium 100
- NT1 strontium 101
- NT1 strontium 102
- NT1 strontium 75
- NT1 strontium 76
- NT1 strontium 77
- NT1 strontium 78
- NT1 strontium 79
- NT1 strontium 80
- NT1 strontium 81
- NT1 strontium 82
- NT1 strontium 83
- NT1 strontium 84
- NT1 strontium 85
- NT1 strontium 86
- NT1 strontium 87
- NT1 strontium 88
- NT1 strontium 89
- NT1 strontium 90
- NT1 strontium 91
- NT1 strontium 92
- NT1 strontium 93
- NT1 strontium 94
- NT1 strontium 95
- NT1 strontium 96
- NT1 strontium 97
- NT1 strontium 98
- NT1 strontium 99
- RT bone seekers

**STRONTIUM NITRATES**

- \*BT1 nitrates
- \*BT1 strontium compounds

**STRONTIUM OXIDES**

- \*BT1 oxides
- \*BT1 strontium compounds

**STRONTIUM PERCHLORATES**

INIS: 1988-02-02; ETDE: 1977-11-28

- \*BT1 perchlorates
- \*BT1 strontium compounds

**STRONTIUM PHOSPHATES**

- \*BT1 phosphates
- \*BT1 strontium compounds

**STRONTIUM SILICATES**

- \*BT1 silicates
- \*BT1 strontium compounds

**STRONTIUM SULFATES**

- \*BT1 strontium compounds
- \*BT1 sulfates

**STRONTIUM SULFIDES**

- \*BT1 strontium compounds
- \*BT1 sulfides

**STRONTIUM TITANATES**

- INIS: 1990-05-17; ETDE: 1976-09-28*
- \*BT1 strontium compounds
  - \*BT1 titanates

**STRONTIUM TUNGSTATES**

- INIS: 1979-04-27; ETDE: 1976-11-17*
- \*BT1 strontium compounds
  - \*BT1 tungstates

**STRONTIUM URANATES**

- INIS: 1991-09-16; ETDE: 1978-11-14*
- \*BT1 strontium compounds
  - \*BT1 uranates

**strophanthin**

- INIS: 1990-12-07; ETDE: 1984-06-14*  
(Prior to December 1990, this was a valid descriptor.)
- USE cardiotonics

**STROPHANTHINS**

- INIS: 2000-04-12; ETDE: 1981-04-20*
- \*BT1 cardiac glycosides
  - NT1 ouabain

**STROPHANTIN**

- 2000-04-12*
- \*BT1 glycosides

**STRUCTURAL BEAMS**

- INIS: 2000-04-03; ETDE: 1977-08-24*
- UF beams (structural)
  - RT building materials
  - RT construction

**structural buckling**

- USE deformation

**STRUCTURAL CHEMICAL ANALYSIS**

- UF analysis (structural chemical)
- UF sequence analysis
- NT1 dna sequencing
- RT absorption spectroscopy
- RT amino acid sequence
- RT chemical analysis
- RT coordination valences
- RT debye-scherrer method
- RT derivatization
- RT electron spin resonance
- RT extreme ultraviolet spectra
- RT infrared spectra
- RT laue method
- RT magnetic circular dichroism
- RT moessbauer effect
- RT molecular structure
- RT neutron diffraction
- RT nuclear magnetic resonance
- RT thermal analysis
- RT ultraviolet spectra
- RT x-ray diffraction
- RT x-ray diffractometers

**structural materials**

- USE building materials

**STRUCTURAL MODELS**

- UF models (structural)
- NT1 mockup
- NT2 phantoms
- NT1 scale models
- RT comparative evaluations
- RT functional models

- RT hypothesis
- RT mathematical models
- RT morphology
- RT response functions

**structure (crystal)**

- USE crystal structure

**structure (molecular)**

- INIS: 2000-04-12; ETDE: 1975-12-16*
- USE molecular structure

**STRUCTURE-ACTIVITY RELATIONSHIPS**

- INIS: 1984-12-04; ETDE: 1983-11-23*
- RT biological effects
  - RT biological functions
  - RT dynamic function studies
  - RT enzyme activity
  - RT molecular structure
  - RT protein engineering
  - RT protein structure

**STRUCTURE FACTORS**

- INIS: 1981-05-11; ETDE: 1978-12-20*  
*In macroscopic particle systems, for factors related to intensity of diffracted beam used in structure determination for liquids and solids, as by X-ray diffraction.*
- BT1 dimensionless numbers
  - RT crystal structure
  - RT liquids
  - RT solids

**STRUCTURE FUNCTIONS**

- Momentum distribution of constituents within an elementary particle.*
- BT1 functions
  - RT emc effect
  - RT gribov-lipatov relation
  - RT particle models
  - RT particle structure

**structures (buildings)**

- USE buildings

**structures (mechanics)**

- USE mechanical structures

**STRUTINSKY THEORY**

- RT fission
- RT nuclear models

**STRYCHNINE**

- \*BT1 alkaloids
- \*BT1 indoles

**STSF ASSEMBLY**

- Gulf, San Diego, California, USA. Subcritical Time-of-Flight Spectrum Facility.*
- UF subcritical time-of-flight spectrum facility
  - \*BT1 subcritical assemblies

**STTFUA**

- INIS: 2000-04-12; ETDE: 1981-06-13*  
*Solar thermal Test Facility Users Association.*
- RT msstf
  - RT test facilities

**stud welding**

- INIS: 1976-03-17; ETDE: 2002-06-13*
- USE welding

**studs**

- USE fasteners

**studsvik fr-0 reactor**

- USE fr-0 reactor

**studsvik r-2 reactor**

- USE r-2 reactor

**studsvik r2-0 reactor**

- USE r2-0 reactor

**sturgis-floating nuclear power plant**

- 1993-11-09*
- USE mh-1a reactor

**STURM-LIOUVILLE EQUATION**

- \*BT1 differential equations
- RT eigenfunctions
- RT green function

**STX DEVICES**

- INIS: 1999-03-03; ETDE: 1986-03-04*  
*A very low aspect ratio toroidal confinement device that can operate as a tokamak, as a pinch, or as a reversed-field pinch. As a tokamak, the spherical torus confines a plasma that is characterized by high toroidal beta, low poloidal beta, large neutral elongation, high plasma current for a given edge q, and strong paramagnetism.*
- \*BT1 tokamak devices
  - RT reverse-field pinch

**STYRENE**

- UF phenylethylene
- UF vinylbenzene
- \*BT1 alkylated aromatics
- \*BT1 hydrocarbons
- RT polystyrene
- RT vinyl monomers

**styrene-divinylbenzene copolymer**

- USE polystyrene-dvb

**styrene polymers**

- USE polystyrene

**SU-2 GROUPS**

- \*BT1 su groups

**SU-3 GROUPS**

- \*BT1 su groups
- RT charm particles
- RT higgs model
- RT quantum chromodynamics

**SU-4 GROUPS**

- \*BT1 su groups

**SU-5 GROUPS**

- \*BT1 su groups
- RT grand unified theory

**SU-6 GROUPS**

- \*BT1 su groups

**SU-7 GROUPS**

- INIS: 1981-02-27; ETDE: 1981-03-13*
- \*BT1 su groups

**SU-8 GROUPS**

- INIS: 1976-10-07; ETDE: 1976-11-01*
- \*BT1 su groups

**SU-9 GROUPS**

- INIS: 1981-02-27; ETDE: 1989-09-18*
- \*BT1 su groups

**SU GROUPS**

- \*BT1 lie groups
- NT1 su-2 groups
- NT1 su-3 groups
- NT1 su-4 groups
- NT1 su-5 groups
- NT1 su-6 groups
- NT1 su-7 groups
- NT1 su-8 groups
- NT1 su-9 groups
- RT goldstone bosons
- RT instantons
- RT unitary symmetry

**SUBBITUMINOUS COAL**

1992-05-22

*Coal that is intermediate between bituminous coal and lignite.*

\*BT1 coal

RT bituminous coal

RT lignite

**SUBCELLULAR DISTRIBUTION**

INIS: 1987-04-28; ETDE: 1985-12-13

BT1 distribution

RT cell constituents

RT cell membranes

RT cell nuclei

RT lysosomes

RT mitochondria

RT ribosomes

RT ultracentrifugation

**subcellular organelles**

INIS: 2000-04-12; ETDE: 1991-08-21

USE cell constituents

**subcontractors**

INIS: 1986-07-09; ETDE: 1983-03-23

USE contractors

**SUBCOOLED BOILING**

UF local boiling

UF surface boiling

\*BT1 boiling

**SUBCOOLING**

BT1 cooling

RT vapor condensation

**SUBCRITICAL ASSEMBLIES**

UF exponential piles

UF fast breeder blanket facility (fbf)

UF neutron multiplier facility

UF sr-ob reactor

\*BT1 experimental reactors

NT1 pse reactor

NT1 stsf assembly

**subcritical flow**

USE laminar flow

**subcritical time-of-flight spectrum facility**

1993-11-09

USE stsf assembly

**subcriticality**

INIS: 1979-01-18; ETDE: 1994-08-18

(Prior to August 1994, this was a valid ETDE descriptor.)

USE criticality

**SUBCUTANEOUS INJECTION**

\*BT1 injection

**SUBDUCTION ZONES**

INIS: 2000-04-12; ETDE: 1985-08-22

*Narrow belts in which one lithospheric plate descends under another.*

UF benioff zone

RT plate tectonics

RT seismicity

**SUBLETHAL IRRADIATION**

BT1 irradiation

RT dose-response relationships

RT lethal irradiation

RT lethal radiation dose

RT radiation doses

**SUBLIMATION**

\*BT1 evaporation

RT refining

RT separation processes

RT sublimation cooling

RT sublimation heat

**SUBLIMATION COOLING**

BT1 cooling

RT sublimation

**SUBLIMATION HEAT**

UF heat of sublimation

UF latent heat of sublimation

\*BT1 transition heat

RT ablation

RT sublimation

**SUBMARINE CANYONS**

INIS: 2000-04-12; ETDE: 1981-10-24

*Steep valley-like submarine depressions crossing the continental margin.*

RT continental shelf

RT continental slope

RT sea bed

RT topography

**SUBMARINES***Any self-powered underwater craft or towed underwater barges and arrays.*

UF underwater vehicles

BT1 ships

RT nuclear ships

**SUBMERGED ARC WELDING**

\*BT1 arc welding

**subsidence (ground)**

INIS: 1982-07-22; ETDE: 1975-10-01

USE ground subsidence

**subsidies**

INIS: 1982-12-03; ETDE: 1979-05-03

(Prior to April 1997 this was a valid ETDE descriptor.)

USE financial incentives

**SUBSONIC FLOW**

BT1 fluid flow

RT aerodynamics

RT compressible flow

**substitution equivalent**

INIS: 2000-04-12; ETDE: 1979-05-31

USE energy substitution equivalent

**substitution techniques**

USE pile replacement techniques

**SUBSTOICHIOMETRY**

RT activation analysis

RT impurities

RT isotope dilution

RT quantitative chemical analysis

**SUBSTRATES**

RT catalyst supports

RT enzymes

RT layers

RT thin films

**subsurface environments**

INIS: 2000-04-12; ETDE: 1985-06-21

(Prior to August 1992 this was a valid ETDE descriptor.)

SEE underground

**SUBSURFACE STRUCTURES**

1999-10-15

RT civil defense

RT earth-covered buildings

RT fallout shelters

RT shelters

RT tunnels

RT underground facilities

RT underground storage

**subsystem test facility**

INIS: 2000-04-12; ETDE: 1980-11-08

USE msstf

**SUBTERRENE PENETRATORS***Rock-melting equipment for excavation, drilling, and tunneling.*

\*BT1 drills

\*BT1 earth penetrators

RT boreholes

RT excavation

RT heating

RT materials drilling

RT melting

RT rock drilling

RT tunnels

**suburbs**

USE urban areas

**SUCCINIC ACID**

\*BT1 dicarboxylic acids

RT aspartic acid

**sucker rod pumps**

INIS: 2000-04-12; ETDE: 1984-05-10

USE rod pumps

**sucrose**

USE saccharose

**SUDAN**

BT1 africa

BT1 arab countries

BT1 developing countries

RT Nile river

RT red sea

**SUDBURY NEUTRINO OBSERVATORY**

INIS: 1992-08-06; ETDE: 1992-09-10

*Sudbury, Ontario, Canada.*

RT neutrino detection

RT underground facilities

**SUDDEN APPROXIMATION**

1975-08-22

*A high energy limit which assumes that the internal motions of the target are slow compared with the duration of the collision.*

\*BT1 approximations

RT collisions

RT hamiltonians

RT quantum mechanics

RT transients

RT wave functions

**SUDDEN COMMENCEMENTS**

RT magnetic storms

**SUDDEN IONOSPHERIC DISTURBANCE**

UF sid

\*BT1 ionospheric storms

RT ionosphere

**SUEZ CANAL**

INIS: 1992-06-04; ETDE: 1978-02-14

\*BT1 inland waterways

RT egyptian arab republic

**sugar**

USE saccharose

**SUGAR BEETS**

INIS: 1991-12-16; ETDE: 1977-06-02

\*BT1 beets

**SUGAR CANE**

\*BT1 reeds

RT crops

RT molasses

**SUGAR INDUSTRY**

INIS: 2000-05-08; ETDE: 1981-08-04

- BT1 industry
- RT biomass
- RT saccharides
- RT saccharose

**sugars**

- USE saccharides

**SUGAWARA THEORY**

- RT quantum field theory

**SUJB**

INIS: 1998-01-29; ETDE: 1998-02-24

State Office for Nuclear Safety, Czech Republic.

- UF *statni urad pro jadernou bezpecnost*
- \*BT1 czech organizations

**SULF-X PROCESS**

INIS: 2000-04-12; ETDE: 1985-02-22

The sulf-x process is a wet absorption process that utilizes a slurry of regenerated ferrous sulfide solids to achieve removal of 90 to 99% of sulfur dioxide from boiler flue gases by wet scrubbing. It is technically feasible for use with all fossil-fuel types.

- \*BT1 desulfurization

**sulfadiazine**

1996-10-23

(Until October 1996 this was a valid descriptor.)

- USE pyrimidines
- USE sulfonamides

**SULFAMIC ACID**

1994-07-01

- \*BT1 inorganic acids

**SULFANILIC ACID**

UF *aminobenzenesulfonic acid-para*

- \*BT1 amines
- \*BT1 sulfonic acids

**SULFATE MINERALS**

INIS: 1996-11-13; ETDE: 1982-05-12

- UF *johannite*
- UF *schroeckingerite*
- UF *zippeite*
- BT1 minerals
- NT1 alunite
- NT1 anhydrite
- NT1 barite
- NT1 gypsum
- NT1 polyhalite
- RT aluminium sulfates
- RT barium sulfates
- RT calcium sulfates
- RT copper sulfates
- RT magnesium sulfates
- RT potassium sulfates
- RT sodium sulfates
- RT uranium sulfates

**SULFATE-REDUCING BACTERIA**

INIS: 1991-10-24; ETDE: 1984-05-08

- \*BT1 bacteria
- NT1 desulfovibrio
- RT desulfurization
- RT sulfur cycle

**SULFATES**

1997-06-19

For salts only; see also SULFURIC ACID ESTERS.

- UF *actinium sulfates*
- UF *americium sulfates*
- UF *berkelium sulfates*
- UF *osmium sulfates*
- UF *protactinium sulfates*

- BT1 oxygen compounds
- BT1 sulfur compounds
- NT1 acid sulfates
- NT1 aluminium sulfates
- NT1 ammonium sulfates
- NT1 antimony sulfates
- NT1 barium sulfates
- NT1 beryllium sulfates
- NT1 bismuth sulfates
- NT1 cadmium sulfates
- NT1 calcium sulfates
- NT1 cerium sulfates
- NT1 cesium sulfates
- NT1 chromium sulfates
- NT1 cobalt sulfates
- NT1 copper sulfates
- NT1 dysprosium sulfates
- NT1 erbium sulfates
- NT1 europium sulfates
- NT1 gadolinium sulfates
- NT1 gallium sulfates
- NT1 hafnium sulfates
- NT1 holmium sulfates
- NT1 indium sulfates
- NT1 iridium sulfates
- NT1 iron sulfates
- NT1 lanthanum sulfates
- NT1 lead sulfates
- NT1 lithium sulfates
- NT1 lutetium sulfates
- NT1 magnesium sulfates
- NT1 manganese sulfates
- NT1 mercury sulfates
- NT1 molybdenum sulfates
- NT1 neodymium sulfates
- NT1 neptunium sulfates
- NT1 nickel sulfates
- NT1 niobium sulfates
- NT1 platinum sulfates
- NT1 plutonium sulfates
- NT1 potassium sulfates
- NT1 praseodymium sulfates
- NT1 radium sulfates
- NT1 rhenium sulfates
- NT1 rubidium sulfates
- NT1 ruthenium sulfates
- NT1 samarium sulfates
- NT1 scandium sulfates
- NT1 silver sulfates
- NT1 sodium sulfates
- NT1 strontium sulfates
- NT1 tantalum sulfates
- NT1 terbium sulfates
- NT1 thallium sulfates
- NT1 thorium sulfates
- NT1 thulium sulfates
- NT1 tin sulfates
- NT1 titanium sulfates
- NT1 uranium sulfates
- NT1 uranyl sulfates
- NT1 vanadium sulfates
- NT1 ytterbium sulfates
- NT1 yttrium sulfates
- NT1 zinc sulfates
- NT1 zirconium sulfates
- RT glucuronide conjugates
- RT glutathione conjugates
- RT sulfation
- RT sulfuric acid
- RT thiosulfates

**SULFATION**

INIS: 2000-04-12; ETDE: 1991-07-08

Conversion of a compound into a sulfate by the oxidation of sulfur or the addition of a sulfate group.

- BT1 chemical reactions
- RT oxidation
- RT sulfates

**SULFENAMIDES**

2000-04-12

- \*BT1 amides
- \*BT1 organic sulfur compounds

**sulfex process**

2000-04-12

(Prior to August 1996 this was a valid ETDE descriptor.)

- USE reprocessing

**sulphydryl compounds**

- USE thiols

**SULFHYDRYL RADICALS**

- BT1 radicals

**SULFIBAN PROCESS**

INIS: 2000-04-12; ETDE: 1976-09-14

A process for coke oven gas desulfurization using mono-ethanolamine scrubbing.

- \*BT1 desulfurization

**SULFIDATION**

INIS: 1982-09-21; ETDE: 1979-07-24

- BT1 chemical reactions

**SULFIDE MINERALS**

INIS: 1984-04-25; ETDE: 1982-05-12

(From March 1977 till February 1995 CINNABAR was a valid ETDE descriptor;

from April 1975 till March 1997

SPHALERITE was a valid ETDE descriptor.)

- UF *cinnabar*
- UF *sphalerite*
- BT1 minerals
- NT1 chalcopyrite
- NT1 galena
- NT1 marcasite
- NT1 pyrite
- NT1 pyrrhotite
- NT2 troilite
- RT copper sulfides
- RT iron sulfides
- RT lead sulfides
- RT mercury sulfides

**SULFIDES**

1997-06-18

- UF *americium sulfides*
- UF *berkelium sulfides*
- UF *beryllium sulfides*
- UF *californium sulfides*
- UF *curium sulfides*
- UF *polysulfides*
- BT1 chalcogenides
- BT1 sulfur compounds
- NT1 aluminium sulfides
- NT1 antimony sulfides
- NT1 arsenic sulfides
- NT1 barium sulfides
- NT1 bismuth sulfides
- NT1 boron sulfides
- NT1 cadmium sulfides
- NT1 calcium sulfides
- NT1 carbon sulfides
- NT1 cerium sulfides
- NT1 cesium sulfides
- NT1 chromium sulfides
- NT1 cobalt sulfides
- NT1 copper sulfides
- NT1 dimethyl sulfide
- NT1 dysprosium sulfides
- NT1 erbium sulfides
- NT1 europium sulfides
- NT1 gadolinium sulfides
- NT1 gallium sulfides
- NT1 germanium sulfides
- NT1 hafnium sulfides
- NT1 holmium sulfides
- NT1 hydrogen sulfides



**NT1** indium sulfides  
**NT1** iron sulfides  
**NT1** lanthanum sulfides  
**NT1** lead sulfides  
**NT1** lithium sulfides  
**NT1** lutetium sulfides  
**NT1** magnesium sulfides  
**NT1** manganese sulfides  
**NT1** mercury sulfides  
**NT1** molybdenum sulfides  
**NT1** neodymium sulfides  
**NT1** neptunium sulfides  
**NT1** nickel sulfides  
**NT1** niobium sulfides  
**NT1** osmium sulfides  
**NT1** palladium sulfides  
**NT1** phosphorus sulfides  
**NT1** platinum sulfides  
**NT1** plutonium sulfides  
**NT1** potassium sulfides  
**NT1** praseodymium sulfides  
**NT1** rhenium sulfides  
**NT1** rhodium sulfides  
**NT1** rubidium sulfides  
**NT1** ruthenium sulfides  
**NT1** samarium sulfides  
**NT1** scandium sulfides  
**NT1** selenium sulfides  
**NT1** silicon sulfides  
**NT1** silver sulfides  
**NT1** sodium sulfides  
**NT1** strontium sulfides  
**NT1** tantalum sulfides  
**NT1** technetium sulfides  
**NT1** tellurium sulfides  
**NT1** terbium sulfides  
**NT1** thallium sulfides  
**NT1** thorium sulfides  
**NT1** thulium sulfides  
**NT1** tin sulfides  
**NT1** titanium sulfides  
**NT1** tungsten sulfides  
**NT1** uranium sulfides  
**NT1** vanadium sulfides  
**NT1** ytterbium sulfides  
**NT1** yttrium sulfides  
**NT1** zinc sulfides  
**NT1** zirconium sulfides  
**RT** oxysulfides

### sulfonic acids

*INIS: 1984-04-04; ETDE: 2000-11-27*

USE organic acids  
 USE organic sulfur compounds

### SULFINOL PROCESS

2000-04-12

*Process for removal of acidic gas constituents, such as hydrogen sulfide, carbon dioxide, COS, and mercaptans, from natural, refinery, and synthesis gases and lng feedstocks.*

\*BT1 desulfurization

### sulfite waste liquor

*INIS: 1993-02-15; ETDE: 1978-08-08*

USE spent liquors

### SULFITES

*Specific compounds should be indexed by coordination of a descriptor of the form (cation) compounds and the above anion descriptor.*

**BT1** oxygen compounds  
**BT1** sulfur compounds  
**NT1** acid sulfites  
**RT** sulfurous acid

### SULFOCHLORINATION

\*BT1 chlorination  
 \*BT1 sulfonation

### sulfocyanides

USE thiocyanates

### SULFONAMIDES

1996-10-23

*UF sulfadiazine*

\*BT1 amides  
 \*BT1 antimicrobial agents  
 \*BT1 organic sulfur compounds  
**RT** sulfonic acids

### SULFONATES

1997-06-19

*For salts of sulfonic acids; for esters see*

*SULFONIC ACIDESTERS.*

\*BT1 organic sulfur compounds  
**NT1** indocyanine green  
**NT1** petroleum sulfonates  
**RT** sulfonic acid esters  
**RT** sulfonic acids

### SULFONATION

**BT1** chemical reactions

**NT1** sulfochlorination

### SULFONES

1996-10-23

*UF spadns*

*UF sulfophenyl-naphthalene-sulfonic acid*

\*BT1 organic sulfur compounds

### SULFONIC ACID ESTERS

1997-06-19

\*BT1 esters

\*BT1 organic sulfur compounds

**NT1** alkyl benzenesulfonates

**NT1** ethyl methanesulfonate

**NT1** methyl methanesulfonate

**NT1** petroleum sulfonates

**RT** sulfonates

**RT** sulfonic acids

### SULFONIC ACIDS

1996-10-23

*UF acid chrome dyes*

*UF beryllon*

*UF congo red*

*UF dsnadns*

*UF erioglauaine*

*UF spadns*

*UF sulfophenyl-naphthalene-sulfonic acid*

*SF syntans*

\*BT1 organic acids

\*BT1 organic sulfur compounds

**NT1** arsenazo

**NT1** bromosulfophthalein

**NT1** chromotropic acid

**NT1** eriochrome dyes

**NT1** evans blue

**NT1** ferron

**NT1** methyl orange

**NT1** nitroso-r salt

**NT1** sulfanilic acid

**NT1** taurine

**NT1** thorin

**NT1** tiron

**NT1** trypan blue

**NT1** unithiol

**RT** chloramines

**RT** sulfonamides

**RT** sulfonates

**RT** sulfonic acid esters

### sulfophenyl-naphthalene-sulfonic acid

1996-10-23

*(Prior to March 1997 SPADNS was used for this concept in ETDE.)*

USE sulfones

USE sulfonic acids

### sulfox process

*INIS: 2000-04-12; ETDE: 1976-01-23*

*Conversion of hydrogen sulfide in some refinery gas or water streams to high-purity molten sulfur. Process operates on aqueous solution of ammonia and hydrogen sulfide, which may be refinery sour water or rich solution obtained by absorbing hydrogen sulfide from refinery gas with aqueous ammonia recycled from sulfox unit.*

*(Prior to March 1994, this was a valid ETDE descriptor.)*

USE desulfurization

### SULFOXIDES

\*BT1 organic sulfur compounds

**NT1** dmsol

**NT1** dpsol

### SULFREEN PROCESS

2000-04-12

*Process for desulfurization of residue gas from Claus tail unit to produce liquid S; hydrogen sulfide and sulfur dioxide are made to react at temperatures below the S dew point of the reaction gas mixture.*

\*BT1 desulfurization

### SULFUR

*UF sulfur sulfides*

\*BT1 nonmetals

**RT** otto process

**RT** penelec process

**RT** resox process

**RT** sour crudes

**RT** sulfur content

### SULFUR 24

*INIS: 1978-02-23; ETDE: 1978-05-01*

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 sulfur isotopes

### SULFUR 27

*INIS: 1986-08-19; ETDE: 1984-05-08*

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 sulfur isotopes

### SULFUR 28

*INIS: 1989-09-14; ETDE: 1984-05-08*

\*BT1 beta-plus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 sulfur isotopes

### SULFUR 29

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 sulfur isotopes

### SULFUR 30

\*BT1 beta-plus decay radioisotopes

\*BT1 even-even nuclei

\*BT1 light nuclei

\*BT1 seconds living radioisotopes

\*BT1 sulfur isotopes

### SULFUR 31

\*BT1 beta-plus decay radioisotopes

\*BT1 even-odd nuclei

\*BT1 light nuclei

\*BT1 seconds living radioisotopes

\*BT1 sulfur isotopes

### SULFUR 32

\*BT1 even-even nuclei

\*BT1 light nuclei

- \*BT1 stable isotopes
- \*BT1 sulfur isotopes
- RT sulfur 32 beams
- RT sulfur 32 reactions

**SULFUR 32 BEAMS**

- \*BT1 ion beams
- RT sulfur 32

**SULFUR 32 REACTIONS**

- \*BT1 heavy ion reactions
- RT sulfur 32

**SULFUR 32 TARGET**

- ETDE: 1976-07-09
- BT1 targets

**SULFUR 33**

- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 stable isotopes
- \*BT1 sulfur isotopes

**SULFUR 33 REACTIONS**

- INIS: 1978-04-21; ETDE: 1978-07-06
- \*BT1 heavy ion reactions

**SULFUR 33 TARGET**

- ETDE: 1976-07-09
- BT1 targets

**SULFUR 34**

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 stable isotopes
- \*BT1 sulfur isotopes
- RT sulfur 34 reactions

**SULFUR 34 REACTIONS**

- \*BT1 heavy ion reactions
- RT sulfur 34

**SULFUR 34 TARGET**

- ETDE: 1976-07-09
- BT1 targets

**SULFUR 35**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 sulfur isotopes

**SULFUR 36**

- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 stable isotopes
- \*BT1 sulfur isotopes

**SULFUR 36 REACTIONS**

- INIS: 1980-07-24; ETDE: 1980-08-12
- \*BT1 heavy ion reactions

**SULFUR 36 TARGET**

- ETDE: 1976-07-09
- BT1 targets

**SULFUR 37**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 sulfur isotopes

**SULFUR 38**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 light nuclei
- \*BT1 sulfur isotopes

**SULFUR 38 BEAMS**

- INIS: 1986-12-09; ETDE: 1987-02-24
- \*BT1 radioactive ion beams

**SULFUR 39**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 light nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 sulfur isotopes
- RT sulfur 39 reactions

**SULFUR 39 REACTIONS**

- INIS: 1992-09-23; ETDE: 1985-07-18
- \*BT1 heavy ion reactions
- RT sulfur 39

**SULFUR 40**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 light nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 sulfur isotopes

**SULFUR 41**

- INIS: 1976-03-17; ETDE: 1976-02-19
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 sulfur isotopes

**SULFUR 42**

- INIS: 1976-03-17; ETDE: 1976-02-19
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 sulfur isotopes

**SULFUR 43**

- INIS: 1980-07-24; ETDE: 1980-02-11
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 sulfur isotopes

**SULFUR 44**

- INIS: 1986-04-02; ETDE: 1986-07-03
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 sulfur isotopes

**SULFUR 45**

- INIS: 1989-09-14; ETDE: 1989-10-16
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 sulfur isotopes

**SULFUR 46**

- INIS: 1989-09-14; ETDE: 1989-10-16
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 sulfur isotopes

**SULFUR 47**

- INIS: 1989-09-14; ETDE: 1989-10-16
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 sulfur isotopes

**SULFUR 48**

- INIS: 1990-04-19; ETDE: 1990-05-16
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 sulfur isotopes

**SULFUR ADDITIONS**

- 2000-04-12
- BT1 alloys
- NT1 ni-hard

**sulfur carbides**

- USE carbon sulfides

**SULFUR CHLORIDES**

- \*BT1 chlorides
- BT1 sulfur compounds

**SULFUR COMPLEXES**

- BT1 complexes

**SULFUR COMPOUNDS**

- UF polythionates
- UF polythionic acids
- NT1 carbon oxysulfide
- NT1 oxysulfides
- NT1 persulfates
- NT1 persulfuric acid
- NT1 sulfates
  - NT2 acid sulfates
  - NT2 aluminium sulfates
  - NT2 ammonium sulfates
  - NT2 antimony sulfates
  - NT2 barium sulfates
  - NT2 beryllium sulfates
  - NT2 bismuth sulfates
  - NT2 cadmium sulfates
  - NT2 calcium sulfates
  - NT2 cerium sulfates
  - NT2 cesium sulfates
  - NT2 chromium sulfates
  - NT2 cobalt sulfates
  - NT2 copper sulfates
  - NT2 dysprosium sulfates
  - NT2 erbium sulfates
  - NT2 europium sulfates
  - NT2 gadolinium sulfates
  - NT2 gallium sulfates
  - NT2 hafnium sulfates
  - NT2 holmium sulfates
  - NT2 indium sulfates
  - NT2 iridium sulfates
  - NT2 iron sulfates
  - NT2 lanthanum sulfates
  - NT2 lead sulfates
  - NT2 lithium sulfates
  - NT2 lutetium sulfates
  - NT2 magnesium sulfates
  - NT2 manganese sulfates
  - NT2 mercury sulfates
  - NT2 molybdenum sulfates
  - NT2 neodymium sulfates
  - NT2 neptunium sulfates
  - NT2 nickel sulfates
  - NT2 niobium sulfates
  - NT2 platinum sulfates
  - NT2 plutonium sulfates
  - NT2 potassium sulfates
  - NT2 praseodymium sulfates
  - NT2 radium sulfates
  - NT2 rhenium sulfates
  - NT2 rubidium sulfates
  - NT2 ruthenium sulfates
  - NT2 samarium sulfates
  - NT2 scandium sulfates
  - NT2 silver sulfates
  - NT2 sodium sulfates
  - NT2 strontium sulfates
  - NT2 tantalum sulfates
  - NT2 terbium sulfates
  - NT2 thallium sulfates
  - NT2 thorium sulfates
  - NT2 thulium sulfates
  - NT2 tin sulfates
  - NT2 titanium sulfates
  - NT2 uranium sulfates
  - NT2 uranyl sulfates
  - NT2 vanadium sulfates
  - NT2 ytterbium sulfates
  - NT2 yttrium sulfates
  - NT2 zinc sulfates
  - NT2 zirconium sulfates
- NT1 sulfides
  - NT2 aluminium sulfides
  - NT2 antimony sulfides
  - NT2 arsenic sulfides
  - NT2 barium sulfides
  - NT2 bismuth sulfides
  - NT2 boron sulfides
  - NT2 cadmium sulfides

NT2 calcium sulfides  
 NT2 carbon sulfides  
 NT2 cerium sulfides  
 NT2 cesium sulfides  
 NT2 chromium sulfides  
 NT2 cobalt sulfides  
 NT2 copper sulfides  
 NT2 dimethyl sulfide  
 NT2 dysprosium sulfides  
 NT2 erbium sulfides  
 NT2 europium sulfides  
 NT2 gadolinium sulfides  
 NT2 gallium sulfides  
 NT2 germanium sulfides  
 NT2 hafnium sulfides  
 NT2 holmium sulfides  
 NT2 hydrogen sulfides  
 NT2 indium sulfides  
 NT2 iron sulfides  
 NT2 lanthanum sulfides  
 NT2 lead sulfides  
 NT2 lithium sulfides  
 NT2 lutetium sulfides  
 NT2 magnesium sulfides  
 NT2 manganese sulfides  
 NT2 mercury sulfides  
 NT2 molybdenum sulfides  
 NT2 neodymium sulfides  
 NT2 neptunium sulfides  
 NT2 nickel sulfides  
 NT2 niobium sulfides  
 NT2 osmium sulfides  
 NT2 palladium sulfides  
 NT2 phosphorus sulfides  
 NT2 platinum sulfides  
 NT2 plutonium sulfides  
 NT2 potassium sulfides  
 NT2 praseodymium sulfides  
 NT2 rhenium sulfides  
 NT2 rhodium sulfides  
 NT2 rubidium sulfides  
 NT2 ruthenium sulfides  
 NT2 samarium sulfides  
 NT2 scandium sulfides  
 NT2 selenium sulfides  
 NT2 silicon sulfides  
 NT2 silver sulfides  
 NT2 sodium sulfides  
 NT2 strontium sulfides  
 NT2 tantalum sulfides  
 NT2 technetium sulfides  
 NT2 tellurium sulfides  
 NT2 terbium sulfides  
 NT2 thallium sulfides  
 NT2 thorium sulfides  
 NT2 thulium sulfides  
 NT2 tin sulfides  
 NT2 titanium sulfides  
 NT2 tungsten sulfides  
 NT2 uranium sulfides  
 NT2 vanadium sulfides  
 NT2 ytterbium sulfides  
 NT2 yttrium sulfides  
 NT2 zinc sulfides  
 NT2 zirconium sulfides  
 NT1 sulfites  
   NT2 acid sulfites  
 NT1 sulfur chlorides  
 NT1 sulfur fluorides  
 NT1 sulfur nitrides  
 NT1 sulfur oxides  
   NT2 sulfur dioxide  
   NT2 sulfur trioxide  
 NT1 sulfuric acid  
 NT1 sulfurous acid  
 NT1 sulfuryl compounds  
 RT organic sulfur compounds

**SULFUR CONTENT**

*INIS: 1992-02-04; ETDE: 1980-08-12*

RT chemical composition

RT coal

RT sulfur

**SULFUR CYCLE**

*INIS: 1991-10-22; ETDE: 1979-03-05*

RT ecological concentration

RT ecosystems

RT metabolism

RT mineral cycling

RT sulfate-reducing bacteria

RT sulfur-oxidizing bacteria

**SULFUR DIOXIDE**

*1991-12-11*

(Prior to January 1992, this was indexed by

SULFUR OXIDES.)

\*BT1 sulfur oxides

**SULFUR FLUORIDES**

\*BT1 fluorides

BT1 sulfur compounds

RT gas-insulated substations

**sulfur hydrides**

USE hydrogen sulfides

**SULFUR IONS**

\*BT1 ions

**SULFUR ISOTOPES**

*1999-07-16*

BT1 isotopes

NT1 sulfur 24

NT1 sulfur 27

NT1 sulfur 28

NT1 sulfur 29

NT1 sulfur 30

NT1 sulfur 31

NT1 sulfur 32

NT1 sulfur 33

NT1 sulfur 34

NT1 sulfur 35

NT1 sulfur 36

NT1 sulfur 37

NT1 sulfur 38

NT1 sulfur 39

NT1 sulfur 40

NT1 sulfur 41

NT1 sulfur 42

NT1 sulfur 43

NT1 sulfur 44

NT1 sulfur 45

NT1 sulfur 46

NT1 sulfur 47

NT1 sulfur 48

**SULFUR METERS**

*INIS: 1983-02-04; ETDE: 1978-12-11*

\*BT1 meters

RT chemical analysis

RT pollution control equipment

**SULFUR NITRIDES**

UF nitrogen sulfides

\*BT1 nitrides

BT1 sulfur compounds

**SULFUR ORES**

*INIS: 2000-04-12; ETDE: 1978-06-14*

BT1 ores

**SULFUR OXIDES**

\*BT1 oxides

BT1 sulfur compounds

NT1 sulfur dioxide

NT1 sulfur trioxide

RT oxysulfides

**SULFUR-OXIDIZING BACTERIA**

*INIS: 1991-10-24; ETDE: 1984-01-27*

\*BT1 bacteria

NT1 rhodococcus

NT1 thiobacillus ferrooxidans

NT1 thiobacillus oxidans

RT desulfurization

RT sulfur cycle

**sulfur sulfides**

USE sulfur

**SULFUR TRIOXIDE**

*1992-05-22*

\*BT1 sulfur oxides

**SULFURIC ACID**

UF hydrogen sulfates

\*BT1 inorganic acids

BT1 oxygen compounds

BT1 sulfur compounds

RT acid sulfates

RT acid sulfites

RT persulfuric acid

RT sulfates

RT sulfuric acid esters

RT sulfuryl compounds

**SULFURIC ACID ESTERS**

*1978-04-21*

UF sodium lauryl sulfates

\*BT1 esters

\*BT1 organic sulfur compounds

RT sulfuric acid

**SULFUROUS ACID**

\*BT1 inorganic acids

BT1 oxygen compounds

BT1 sulfur compounds

RT sulfites

**SULFURYL COMPOUNDS**

*1994-09-29*

BT1 sulfur compounds

RT sulfuric acid

**SUM RULES**

BT1 equations

RT quantum mechanics

**SUMMER-1 REACTOR**

*South Carolina Electric and Gas Co.,*

*Jenkinsville, South Carolina, USA.*

UF virgil c summer-1 reactor

\*BT1 pwr type reactors

**SUMMIT-1 REACTOR**

*Delmarva Power and Light Co., Kent Co.,*

*Delaware, USA. Canceled in 1975 before*

*construction began.*

\*BT1 enriched uranium reactors

\*BT1 helium cooled reactors

\*BT1 htgr type reactors

\*BT1 power reactors

**SUMMIT-2 REACTOR**

*Delmarva Power and Light Co., Kent Co.,*

*Delaware, USA. Canceled in 1975 before*

*construction began.*

\*BT1 enriched uranium reactors

\*BT1 helium cooled reactors

\*BT1 htgr type reactors

\*BT1 power reactors

**SUN**

\*BT1 main sequence stars

RT chromosphere

RT energy sources

RT international geophysical year

RT international quiet sun year

RT international solar maximum year

RT orbiting solar observatories

RT photosphere  
 RT sky  
 RT solar activity  
 RT solar atmosphere  
 RT solar corona  
 RT solar cycle  
 RT solar energy  
 RT solar flares  
 RT solar granulation  
 RT solar prominences  
 RT solar radiation  
 RT solar radio bursts  
 RT solar system  
 RT solar wind  
 RT solar x-ray bursts

**SUN BEAM OPERATION**

INIS: 2000-04-12; ETDE: 1986-11-20

\*BT1 nuclear explosions  
 \*BT1 underground explosions  
 RT contained explosions

**SUN CHARTS**

INIS: 2000-04-12; ETDE: 1980-03-04

Charts that map the height angle and horizontal angle of the sun for a given location and time.

\*BT1 diagrams  
 RT altitude  
 RT coordinates  
 RT insolation  
 RT solar radiation

**SUN SHADES**

INIS: 2000-04-12; ETDE: 1975-10-01

RT buildings  
 RT cooling load  
 RT curtains  
 RT shading  
 RT shutters

**SUNDESERT-1 REACTOR**

INIS: 1977-10-17; ETDE: 1977-05-07

San Diego Gas and Electric Co., Blythe, California, USA. Canceled in 1978 before construction began.

\*BT1 pwr type reactors

**SUNDESERT-2 REACTOR**

INIS: 1977-10-17; ETDE: 1977-05-07

San Diego Gas and Electric Co., Blythe, California, USA. Canceled in 1978 before construction began.

\*BT1 pwr type reactors

**SUNFLOWER OIL**

INIS: 2000-04-12; ETDE: 1984-03-06

\*BT1 vegetable oils

**SUNFLOWERS**

UF *helianthus annuus*  
 UF *jerusalem artichokes*  
 \*BT1 magnoliopsida

**SUNIST SPHEROMAK**

2006-07-25

Department of Engineering Physics, Tsinghua University, and Institute of Physics, China Academy of Science, Beijing, China.

UF *sino united spherical tokamak*  
 \*BT1 spheromak devices

**SUNNYSIDE DEPOSIT**

INIS: 2000-04-12; ETDE: 1977-05-07

\*BT1 oil sand deposits  
 RT oil sands  
 RT utah

**SUNSHINE PROJECT**

UF *project sunshine*  
 RT fallout

**SUNSPOTS**

BT1 solar activity  
 \*BT1 starspots  
 RT photosphere  
 RT solar cycle  
 RT solar flares

**super high frequency radiation**

1999-10-15

USE ghz range 01-100  
 USE radiowave radiation

**SUPER KUKLA REACTOR**

1975-11-27

Lawrence Livermore Laboratory, Livermore, California, USA. Prompt burst reactor. Shut down in 1979.

\*BT1 pulsed reactors  
 \*BT1 research and test reactors

**SUPER PHENIX REACTOR**

Creys Malville, Isere, France.

UF *creys-malville reactor*  
 \*BT1 enriched uranium reactors  
 \*BT1 Imfbr type reactors  
 \*BT1 plutonium reactors  
 \*BT1 sodium cooled reactors

**super power water boiler**

USE supo reactor

**superalloys**

INIS: 2000-04-12; ETDE: 1983-01-21

USE heat resisting alloys

**supercapacitors**

2005-07-05

SEE capacitive energy storage equipment

**SUPERCHARGERS**

2000-04-12

UF *supercharging*  
 BT1 compressors  
 NT1 turbochargers  
 RT blowers  
 RT internal combustion engines

**supercharging**

2000-04-12

USE superchargers

**SUPERCOMPUTERS**

INIS: 1997-06-17; ETDE: 1984-11-09

The largest, fastest, most powerful computers available at any given time.

\*BT1 digital computers  
 RT cdc computers  
 RT cedar computers  
 RT cray computers  
 RT hypercube computers  
 RT nec computers  
 RT vector processing

**SUPERCONDUCTING CABLES**

\*BT1 electric cables  
 RT cryogenic cables  
 RT gas-insulated cables  
 RT superconducting composites  
 RT superconducting devices  
 RT superconductivity

**SUPERCONDUCTING CAVITY RESONATORS**

\*BT1 cavity resonators  
 BT1 superconducting devices  
 RT cyclic accelerators  
 RT microwave equipment  
 RT rf systems

**SUPERCONDUCTING COILS**

INIS: 1995-02-27; ETDE: 1975-11-11

(Prior to January 1983 this concept was indexed by SUPERCONDUCTING DEVICES.)

\*BT1 electric coils  
 RT magnet coils  
 RT magnetic energy storage equipment  
 RT superconducting magnetic energy storage  
 RT superconducting magnets

**SUPERCONDUCTING COLLOID DETECTORS**

INIS: 1976-10-07; ETDE: 1976-11-01

Operates on the principle that a charged particle passing through a superconducting colloid in the metastable, superheated state leads to a measurable change in the inductance of a surrounding pick-up coil.

\*BT1 radiation detectors  
 BT1 superconducting devices  
 RT colloids  
 RT position sensitive detectors

**SUPERCONDUCTING COMPOSITES**

Superconductors embedded or clad in a conductor matrix.

\*BT1 composite materials  
 RT superconducting cables

**SUPERCONDUCTING CYCLOTRONS**

INIS: 1991-10-08; ETDE: 1983-03-24

\*BT1 cyclotrons  
 NT1 milan superconducting cyclotron  
 NT1 texas superconducting cyclotron  
 RT superconducting devices

**SUPERCONDUCTING DEVICES**

1976-02-24

Restricted to general or review articles and bibliographies.

NT1 cryotrons  
 NT1 flux pumps  
 NT1 squid devices  
 NT1 superconducting cavity resonators  
 NT1 superconducting colloid detectors  
 NT1 superconducting generators  
 NT1 superconducting magnets  
 NT1 superconducting motors  
 RT superconducting cables  
 RT superconducting cyclotrons  
 RT superconducting junctions

**SUPERCONDUCTING FILMS**

1983-06-30

BT1 films  
 RT superconductors

**superconducting flux pumps**

2000-04-12

USE flux pumps

**SUPERCONDUCTING GENERATORS**

\*BT1 rotating generators  
 BT1 superconducting devices

**SUPERCONDUCTING JUNCTIONS**

1999-10-15

SF *junctions*  
 NT1 josephson junctions  
 RT superconducting devices  
 RT superconductors  
 RT tunnel effect

**SUPERCONDUCTING MAGNETIC ENERGY STORAGE**

INIS: 1995-01-11; ETDE: 1982-10-20

(Until January 1995 this concept was indexed to SUPERCONDUCTIVE ENERGY STORAGE.)

UF *smes*

UF *superconductive energy storage*

\*BT1 magnetic energy storage

RT superconducting coils

RT superconducting magnets

**SUPERCONDUCTING MAGNETS**

1995-02-27

(From February 1979 to March 1997 LARGE COIL PROGRAM was a valid ETDE descriptor.)

UF *large coil program*

UF *superconducting solenoids*

\*BT1 electromagnets

BT1 superconducting devices

RT magnet coils

RT magnetic energy storage

RT magnetic energy storage equipment

RT superconducting coils

RT superconducting magnetic energy storage

RT superconductors

**SUPERCONDUCTING MOTORS**

\*BT1 electric motors

BT1 superconducting devices

**superconducting quantum interference devices**

1993-11-09

USE squid devices

**superconducting solenoids**

INIS: 1984-04-04; ETDE: 2002-06-13

USE solenoids

USE superconducting magnets

**SUPERCONDUCTING SUPER COLLIDER**

INIS: 1985-01-18; ETDE: 1984-03-06

UF *desertron*

UF *ssc*

BT1 storage rings

\*BT1 synchrotrons

**SUPERCONDUCTING WIRES**

1982-11-30

BT1 wires

RT superconductors

**superconductive energy storage**

INIS: 1995-01-11; ETDE: 2002-06-13

(Until January 1995 this was a valid descriptor.)

USE superconducting magnetic energy storage

**SUPERCONDUCTIVITY**

1996-01-24

\*BT1 electric conductivity

RT abrikosov theory

RT ac losses

RT anyons

RT bcs theory

RT belyaev theory

RT bogolyubov method

RT coherence length

RT collective excitations

RT cooper pairs

RT critical current

RT critical field

RT cryogenics

RT electron-electron coupling

RT electron-hole coupling

RT electron-ion coupling

RT electron-phonon coupling

RT energy gap

RT flux quantization

RT ginzburg-landau theory

RT gorkov-eliasberg theory

RT helicon resonance

RT high-*tc* superconductors

RT hubbard model

RT intermediate state

RT josephson effect

RT kisslinger-sorensen theory

RT kostelitz-thouless theory

RT london equation

RT magnetic flux

RT meissner-ochsenfeld effect

RT mixed state

RT penetration depth

RT pippard theory

RT proximity effect

RT quenching

RT superconducting cables

RT tunnel effect

**SUPERCONDUCTORS**

NT1 organic superconductors

NT2 bedt-tff

NT2 tmtsf

NT2 ttf-*tcnq*

NT1 stabilized superconductors

NT1 type-i superconductors

NT1 type-ii superconductors

NT2 high-*tc* superconductors

RT abrikosov theory

RT electric conductors

RT magnetic shielding

RT squid devices

RT superconducting films

RT superconducting junctions

RT superconducting magnets

RT superconducting wires

**SUPERCONVERGENCE RELATIONS**

RT convergence

RT mathematics

RT series expansion

**supercritical flow**

USE turbulent flow

**SUPERCritical FLUID CHROMATOGRAPHY**

INIS: 1993-03-23; ETDE: 1983-07-07

\*BT1 chromatography

RT capillaries

RT chemical analysis

**SUPERCritical GAS EXTRACTION**

INIS: 1994-09-08; ETDE: 1978-11-14

*Extraction of a substance with a solvent in its supercritical state.*

\*BT1 solvent extraction

RT coal liquefaction

RT coal liquids

**SUPERCritical STATE**

INIS: 1992-01-30; ETDE: 1986-07-08

*Homogeneous phase existing above critical temperature and above critical pressure.*

RT critical pressure

RT critical temperature

RT phase transformations

**SUPERDEFORMED NUCLEI**

1994-04-12

\*BT1 deformed nuclei

**SUPERDISLOCATIONS**

*Groups of dislocations with specific space configuration.*

RT dislocations

**SUPERFLUID MODEL**

\*BT1 nuclear models

**SUPERFLUIDITY**

RT bose-einstein condensation

RT cryogenics

RT fifth sound

RT film flow

RT fluid flow

RT fourth sound

RT ginzburg-pitaevskii theory

RT helium 3 a

RT helium 3 a 1

RT helium 3 b

RT helium ii

RT khalatnikov theory

RT kostelitz-thouless theory

RT lambda point

RT landau liquid helium theory

RT second sound

RT third sound

RT viscosity

RT vortex flow

RT zero sound

**superfluorescence**

INIS: 1984-02-22; ETDE: 2002-06-13

USE superradiance

**superfund**

INIS: 2000-04-12; ETDE: 1985-01-28

*Comprehensive environmental response, compensation, and liability act of 1980; public law 96-510.*

(Prior to November 1991 this was a valid ETDE descriptor.)

USE us superfund

**SUPERGIANT STARS**

\*BT1 giant stars

**supergranulation**

USE solar granulation

**SUPERGRAVITY**

INIS: 1977-09-15; ETDE: 1977-11-10

*A theory connecting fermion-boson supersymmetry with gravitation.*

\*BT1 unified-field theories

RT compactification

RT gauge invariance

RT graded lie groups

RT gravitation

RT gravitons

RT kaluza-klein theory

RT quantum field theory

RT quantum gravity

RT supersymmetry

**SUPERHEATERS**

UF *steam superheaters*

RT reactor cooling systems

RT steam generators

RT superheating

**SUPERHEATING**

BT1 heating

NT1 nuclear superheating

RT steam

RT superheaters

**superheavy elements**

USE transactinide elements

**superheterodyne receivers**

1976-02-11

USE heterodyne receivers

**SUPERHILAC**

UF *berkeley superhilac*

\*BT1 hilacs

RT bevalac

**SUPERIOR PROCESS**

INIS: 2000-04-12; ETDE: 1977-03-08  
*Circular-grate retort used in processing shale; nahcolite and dawsonite are co-products with shale oil.*  
 RT oil shales

**SUPERLATTICES**

RT order-disorder transformations  
 RT solid solutions

**SUPERMASSIVE STARS**

*Of the order of 100000 solar masses.*  
 BT1 stars

**SUPERMULTIPLETS**

BT1 multiplets

**SUPERNOVA REMNANTS**

BT1 cosmic radio sources  
 NT1 crab nebula  
 RT pulsars  
 RT supernovae

**SUPERNOVAE**

\*BT1 eruptive variable stars  
 RT novae  
 RT supernova remnants

**SUPEROPERATORS**

*Acting on other mathematical operator(s).*  
 BT1 mathematical operators

**SUPEROXIDE DISMUTASE**

INIS: 1986-12-03; ETDE: 1984-02-10  
 UF sod  
 \*BT1 oxidoreductases

**SUPEROXIDE RADICALS**

INIS: 1984-04-04; ETDE: 1977-08-24  
 BT1 radicals

**SUPERPARAMAGNETISM**

INIS: 1976-02-11; ETDE: 1976-04-19  
*Quasiparamagnetism of small magnetically ordered particles.*  
 BT1 magnetism

**SUPERPHOSPHATES**

BT1 fertilizers  
 \*BT1 phosphates

**SUPERRADIANCE**

INIS: 1984-02-22; ETDE: 1980-05-06  
*A fast cooperative spontaneous deexcitation process in which an ensemble of atoms emit an intense burst of radiation.*  
 UF cooperative spontaneous emission  
 UF emission (cooperative spontaneous)  
 UF spontaneous emission (cooperative)  
 UF superfluorescence  
 \*BT1 photon emission  
 \*BT1 stimulated emission  
 RT atoms  
 RT fluorescence  
 RT laser radiation

**SUPERSATURATION**

BT1 saturation  
 RT precipitation  
 RT solubility  
 RT solutions

**SUPERSELECTION RULES**

BT1 selection rules  
 RT quantum mechanics

**SUPERSONIC FLOW**

BT1 fluid flow  
 RT aerodynamics  
 RT compressible flow  
 RT shock waves  
 RT transonic flow

RT wind tunnels

**SUPERSONIC TRANSPORT**

\*BT1 air transport  
 RT aircraft  
 RT cosmic radiation  
 RT solar flares  
 RT stratosphere

**SUPERSTRING MODELS**

INIS: 1992-05-25; ETDE: 1992-06-02  
 \*BT1 string models  
 RT particle structure  
 RT supersymmetry

**supersymmetric particles**

INIS: 1987-12-21; ETDE: 1988-03-16  
 USE sparticles

**SUPERSYMMETRY**

INIS: 1978-02-23; ETDE: 1978-05-01  
 BT1 symmetry  
 RT graded lie groups  
 RT group theory  
 RT quantum field theory  
 RT supergravity  
 RT superstring models  
 RT unified-field theories

**supertankers**

INIS: 2000-04-12; ETDE: 1976-03-31  
 USE tanker ships

**SUPERTHERM**

INIS: 2000-04-12; ETDE: 1979-08-09  
 \*BT1 chromium alloys  
 \*BT1 cobalt alloys  
 \*BT1 iron alloys  
 \*BT1 nickel alloys  
 \*BT1 silicon alloys  
 \*BT1 tungsten alloys

**supervisor codes**

INIS: 1988-11-16; ETDE: 2002-06-13  
 USE executive codes

**supervoltage radiotherapy**

USE radiotherapy

**SUPO REACTOR**

*LASL, Los Alamos, New Mexico, USA. Shut down in 1974.*  
 UF los alamos water boiler reactor  
 UF super power water boiler  
 \*BT1 aqueous homogeneous reactors  
 \*BT1 enriched uranium reactors  
 \*BT1 research reactors  
 \*BT1 thermal reactors

**supply**

INIS: 1984-04-04; ETDE: 2002-06-13  
 USE availability

**SUPPLY AND DEMAND**

INIS: 1991-10-11; ETDE: 1978-03-08  
*Relationship between the quantity that producers wish to sell at various prices and the quantity of a commodity that consumers wish to buy.*  
 RT demand  
 RT demand factors  
 RT domestic supplies  
 RT economics  
 RT energy demand  
 RT energy supplies  
 RT market  
 RT spot market  
 RT supply disruption  
 RT trade

**SUPPLY DISRUPTION**

INIS: 1991-12-17; ETDE: 1979-10-23  
 RT embargoes  
 RT energy supplies  
 RT shortages  
 RT supply and demand

**SUPPORT PILLARS**

INIS: 2000-04-12; ETDE: 1979-06-06  
 RT supports

**SUPPORTED LIQUID MEMBRANES**

INIS: 1998-10-21; ETDE: 1985-09-24  
 BT1 membranes  
 RT membrane transport  
 RT separation processes

**SUPPORTS**

UF columns (structural)  
 BT1 mechanical structures  
 NT1 foundations  
 NT1 fuel racks  
 NT1 powered supports  
 NT2 shield supports  
 RT catalyst supports  
 RT mining equipment  
 RT reactor core restraints  
 RT restraints  
 RT roof bolts  
 RT support pillars

**supports (catalyst)**

INIS: 1992-01-16; ETDE: 1980-10-07  
 USE catalyst supports

**suppression**

INIS: 2000-04-12; ETDE: 1976-01-26  
 USE inhibition

**supra-thermal electrons**

1994-02-28  
 USE tail electrons

**supra-thermal ions**

INIS: 1994-02-28; ETDE: 2002-06-13  
 USE tail ions

**supralethal doses**

USE supralethal irradiation

**SUPRALETHAL IRRADIATION**

UF supralethal doses  
 BT1 irradiation  
 RT death  
 RT dose-response relationships  
 RT lethal irradiation  
 RT lethal radiation dose  
 RT mortality  
 RT radiation doses

**sur-100 aachen**

USE sur-100 series reactor

**sur-100 berlin**

USE sur-100 series reactor

**sur-100 bremen**

USE sur-100 series reactor

**sur-100 darmstadt**

USE sur-100 series reactor

**sur-100 hamburg**

USE sur-100 series reactor

**sur-100 karlsruhe**

USE sur-100 series reactor

**sur-100 kiel**

USE sur-100 series reactor

**sur-100 muenchen**

USE sur-100 series reactor

**SUR-100 SERIES REACTOR**

UF *siemens unterrichtsreaktor*  
 UF *sur-100 aachen*  
 UF *sur-100 berlin*  
 UF *sur-100 bremen*  
 UF *sur-100 darmstadt*  
 UF *sur-100 hamburg*  
 UF *sur-100 karlsruhe*  
 UF *sur-100 kiel*  
 UF *sur-100 muenchen*  
 UF *sur-100 stuttgart*  
 UF *sur-100 ulm*  
 \*BT1 enriched uranium reactors  
 \*BT1 organic moderated reactors  
 \*BT1 solid homogeneous reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**sur-100 stuttgart**

USE *sur-100 series reactor*

**sur-100 ulm**

USE *sur-100 series reactor*

**surcharges**

INIS: 2000-04-12; ETDE: 1979-11-23  
*Extra or additional fees or taxes, usually for some special service.*  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 SEE *charges*  
 SEE *taxes*

**SURF II STORAGE RING**

INIS: 1984-07-20; ETDE: 1984-08-20  
*NBS Synchrotron Ultraviolet Radiation Facility.*

UF *nbs synchrotron ultraviolet radiation facility*  
 UF *synchrotron uv radiation facility (nbs)*  
 BT1 *storage rings*  
 \*BT1 *synchrotron radiation sources*

**surface-active agents**

USE *surfactants*

**SURFACE AIR**

\*BT1 *air*  
 RT *earth atmosphere*  
 RT *particle resuspension*

**SURFACE AREA**

INIS: 1999-10-20; ETDE: 1977-09-19  
*Extent of the area covered by a surface. See also SPECIFIC SURFACE AREA.*  
 BT1 *surface properties*  
 RT *surfaces*

**surface area (specific)**

INIS: 1982-09-21; ETDE: 2002-06-13  
 USE *specific surface area*

**SURFACE BARRIER DETECTORS**

\*BT1 *semiconductor detectors*  
 RT *depletion layer*  
 RT *surface barrier transistors*

**SURFACE BARRIER TRANSISTORS**

\*BT1 *transistors*  
 RT *depletion layer*  
 RT *surface barrier detectors*

**surface boiling**

USE *subcooled boiling*

**SURFACE CLEANING**

BT1 *cleaning*  
 BT1 *surface finishing*  
 RT *decontamination*  
 RT *descaling*  
 RT *polishing*

RT *scrapers*  
 RT *shot peening*

**SURFACE COATING**

UF *coating (surface)*  
 UF *coating processes*  
 BT1 *deposition*  
 NT1 *chemical coating*  
 NT2 *chemical vapor deposition*  
 NT2 *electrochemical coating*  
 NT3 *anodization*  
 NT1 *cladding*  
 NT1 *diffusion coating*  
 NT1 *dip coating*  
 NT2 *hot dipping*  
 NT1 *electrodeposition*  
 NT2 *electroplating*  
 NT1 *energy beam deposition*  
 NT1 *physical vapor deposition*  
 NT1 *plating*  
 NT2 *electroplating*  
 NT2 *vapor plating*  
 NT1 *screen printing*  
 NT1 *spin-on coating*  
 NT1 *spray coating*  
 NT2 *flame spraying*  
 NT2 *plasma arc spraying*  
 NT1 *vacuum coating*  
 RT *coatings*  
 RT *corrosion protection*  
 RT *hard facing*  
 RT *liners*  
 RT *lining processes*  
 RT *surface finishing*  
 RT *waterproofing*

**SURFACE CONTAMINATION**

*For radioactive contamination only; see also POLLUTION.*

UF *contamination (surface)*  
 UF *soiling*  
 BT1 *contamination*  
 RT *decontamination*  
 RT *radioactivity*  
 RT *surface contamination monitors*

**SURFACE CONTAMINATION MONITORS**

\*BT1 *radiation monitors*  
 RT *surface contamination*

**surface delta interaction**

USE *surface delta potential*

**SURFACE DELTA POTENTIAL**

1999-10-20  
 UF *modified surface delta potential*  
 UF *surface delta interaction*  
 \*BT1 *nucleon-nucleon potential*  
 RT *surface potential*

**surface-effect machines**

INIS: 2000-04-12; ETDE: 1977-08-09  
 USE *air cushion vehicles*

**SURFACE ENERGY**

1999-10-20  
*The energy per unit area of an exposed surface of a liquid; generally greater than the surface tension.*  
 (Prior to June 1986 SURFACE TENSION was used for this concept.)  
 \*BT1 *free energy*  
 BT1 *surface properties*  
 RT *surface tension*

**SURFACE EXPLOSIONS**

1996-06-26  
 UF *bravo event*  
 UF *holly event*  
 UF *middle gust event*

UF *mike event*  
 UF *zuni event*  
 BT1 *explosions*  
 RT *castle project*  
 RT *cratering explosions*  
 RT *craters*  
 RT *nuclear excavation*  
 RT *nuclear explosions*  
 RT *plowshare project*  
 RT *redwing project*

**SURFACE FINISHING**

UF *finishing (surface)*  
 NT1 *descaling*  
 NT1 *etching*  
 NT1 *polishing*  
 NT2 *chemical polishing*  
 NT2 *electropolishing*  
 NT2 *mechanical polishing*  
 NT1 *surface cleaning*  
 RT *coatings*  
 RT *machining*  
 RT *metallography*  
 RT *surface coating*  
 RT *surface hardening*

**SURFACE FORCES**

INIS: 2000-04-12; ETDE: 1979-05-31  
*External forces which act only on the surfaces of bodies.*  
 RT *mechanics*

**SURFACE HARDENING**

BT1 *hardening*  
 BT1 *surface treatments*  
 NT1 *carburization*  
 RT *cold working*  
 RT *shot peening*  
 RT *surface finishing*

**SURFACE IONIZATION**

BT1 *ionization*  
 NT1 *adiabatic surface ionization*  
 RT *ion thrusters*

**SURFACE MINING**

1991-08-09  
 UF *cross-ridge mining*  
 UF *open pit mining*  
 UF *quarrying*  
 UF *strip mining*  
 BT1 *mining*  
 RT *auger mining*  
 RT *coal mining*  
 RT *contained explosions*  
 RT *cratering explosions*  
 RT *culm*  
 RT *excavation*  
 RT *fracturing*  
 RT *mines*  
 RT *mining engineering*  
 RT *oil sand mining*  
 RT *oil shale mining*  
 RT *slope stability*  
 RT *underground mining*

**SURFACE MINING ACTS**

INIS: 1992-02-21; ETDE: 1978-04-27  
 \*BT1 *mining laws*

**SURFACE POTENTIAL**

INIS: 1999-10-20; ETDE: 1979-04-11  
 BT1 *potentials*  
 RT *surface delta potential*  
 RT *surface properties*  
 RT *work functions*

**SURFACE PROPERTIES**

NT1 *absorptivity*  
 NT1 *emissivity*  
 NT1 *reflectivity*  
 NT1 *roughness*

NT1 sorptive properties  
 NT1 surface area  
 NT1 surface energy  
 NT1 surface tension  
 RT adhesion  
 RT adsorption  
 RT ceramography  
 RT corrosion  
 RT physical properties  
 RT surface potential  
 RT surface treatments  
 RT tribology  
 RT waterproofing  
 RT wettability

**SURFACE TENSION**

*The force acting on the surface of a liquid, tending to minimize the area of the surface; it equals the free energy per unit surface.*

UF tension (surface)  
 SF interfacial tension  
 BT1 surface properties  
 RT surface energy  
 RT surfactants

**SURFACE TREATMENTS**

NT1 pickling  
 NT2 corrosion pickling  
 NT1 shot peening  
 NT1 surface hardening  
 NT2 carburization  
 RT sample preparation  
 RT surface properties  
 RT waterproofing

**SURFACE WATERS**

NT1 coastal waters  
 NT2 bays  
 NT3 bay of biscay  
 NT3 bay of fundy  
 NT3 biscayne bay  
 NT3 chesapeake bay  
 NT3 delaware bay  
 NT3 galveston bay  
 NT3 matagorda bay  
 NT3 onslow bay  
 NT3 prudhoe bay  
 NT3 sequim bay  
 NT2 estuaries  
 NT3 fiords  
 NT3 long island sound  
 NT1 inland waterways  
 NT2 manivier canal  
 NT2 panama canal  
 NT2 suex canal  
 NT1 lakes  
 NT2 ambrosia lake  
 NT2 aral sea  
 NT2 athabasca lake  
 NT2 caspian sea  
 NT2 dead sea  
 NT2 great lakes  
 NT3 lake erie  
 NT3 lake huron  
 NT3 lake michigan  
 NT3 lake ontario  
 NT3 lake superior  
 NT2 great salt lake  
 NT2 lake baikal  
 NT2 lake balaton  
 NT2 lake drukshiai  
 NT2 lake wabamun  
 NT2 salton sea  
 NT1 ponds  
 NT2 cooling ponds  
 NT2 settling ponds  
 NT2 solar ponds  
 NT3 roof ponds  
 NT1 rivers  
 NT2 allegheny river

NT2 altamaha river  
 NT2 amazon river  
 NT2 arkansas river  
 NT2 au sable river  
 NT2 blind river  
 NT2 brahmaputra river  
 NT2 brazos river  
 NT2 cape fear river  
 NT2 chattahoochee river  
 NT2 clinch river  
 NT2 colorado river  
 NT2 columbia river  
 NT2 connecticut river  
 NT2 cumberland river  
 NT2 danube river  
 NT2 delaware river  
 NT2 detroit river  
 NT2 dneiper river  
 NT2 dudvah river  
 NT2 fraser river  
 NT2 ganga river  
 NT2 grand river  
 NT2 gunnison river  
 NT2 hron river  
 NT2 hudson river  
 NT2 james river  
 NT2 kennebec river  
 NT2 lewis river  
 NT2 little tennessee river  
 NT2 menominee river  
 NT2 mississippi river  
 NT2 missouri river  
 NT2 mohawk river  
 NT2 nelson river  
 NT2 niagara river  
 NT2 niger river  
 NT2 Nile river  
 NT2 north platte river  
 NT2 ohio river  
 NT2 ottawa river  
 NT2 peace river  
 NT2 piceance creek  
 NT2 po river  
 NT2 potomac river  
 NT2 pripet river  
 NT2 rhine river  
 NT2 rhone river  
 NT2 rio grande river  
 NT2 saginaw river  
 NT2 saint clair river  
 NT2 saint john river  
 NT2 santee river  
 NT2 savannah river  
 NT2 severn river  
 NT2 skagit river  
 NT2 st lawrence river  
 NT2 streams  
 NT2 susquehanna river  
 NT2 techa river  
 NT2 tennessee river  
 NT2 thames river  
 NT2 tigris river  
 NT2 vah river  
 NT2 volga river  
 NT2 white river  
 NT2 yangtze river  
 NT2 yellow creek  
 NT2 yellow river  
 NT2 yukon river  
 NT1 seas  
 NT2 antarctic ocean  
 NT3 weddell sea  
 NT2 aral sea  
 NT2 arctic ocean  
 NT3 beaufort sea  
 NT4 prudhoe bay  
 NT3 chukchi sea  
 NT2 atlantic ocean  
 NT3 baltimore canyon

NT3 bay of biscay  
 NT3 bay of fundy  
 NT3 biscayne bay  
 NT3 caribbean sea  
 NT4 gulf of mexico  
 NT5 galveston bay  
 NT5 san antonio bay  
 NT3 chesapeake bay  
 NT3 delaware bay  
 NT3 gulf of maine  
 NT3 irish sea  
 NT3 long island sound  
 NT3 mid-atlantic bight  
 NT4 new york bight  
 NT3 north sea  
 NT4 wadden sea  
 NT3 onslow bay  
 NT3 sargasso sea  
 NT3 south atlantic bight  
 NT3 weddell sea  
 NT2 baltic sea  
 NT2 black sea  
 NT2 caspian sea  
 NT2 indian ocean  
 NT3 arabian sea  
 NT4 persian gulf  
 NT5 strait of hormuz  
 NT3 timor sea  
 NT2 mediterranean sea  
 NT3 adriatic sea  
 NT3 aegean sea  
 NT2 pacific ocean  
 NT3 bering sea  
 NT3 china sea  
 NT3 gulf of alaska  
 NT3 gulf of california  
 NT3 puget sound  
 NT3 san francisco bay  
 NT3 santa barbara channel  
 NT3 sequim bay  
 NT3 tasman sea  
 NT2 red sea  
 NT3 gulf of suex  
 NT1 swimming pools  
 NT1 territorial waters  
 NT1 water reservoirs  
 NT2 cooling ponds  
 RT air-water interactions  
 RT alluvial deposits  
 RT atmospheric precipitations  
 RT fishes  
 RT floods  
 RT ground water  
 RT hydrology  
 RT hydrosphere  
 RT irrigation  
 RT liquid wastes  
 RT marshes  
 RT plankton  
 RT swamps  
 RT water  
 RT water currents  
 RT water resources  
 RT watersheds  
 RT wetlands

**surface waves (plasma)**

2001-01-08

USE plasma surface waves

**surface waves (seismic)**

INIS: 1980-05-14; ETDE: 1978-07-05

USE seismic surface waves

**SURFACES**

UF crystal faces  
 NT1 spectrally selective surfaces  
 RT adsorption  
 RT blisters  
 RT interfaces



RT rewetting  
 RT surface area  
 RT topological foliation  
 RT two-dimensional calculations

**surfacing, hard**

INIS: 2000-07-24; ETDE: 1978-07-05  
 USE hard facing

**SURFACTANTS**

UF dispersants (chemical)  
 UF surface-active agents  
 NT1 wetting agents  
 NT2 detergents  
 NT3 pluronics  
 RT surface tension

**SURGERY**

UF radiosurgery  
 UF sympathectomy  
 UF vagotomy  
 BT1 medicine  
 NT1 adrenalectomy  
 NT1 castration  
 NT1 gastrectomy  
 NT1 hepatectomy  
 NT1 hypophysectomy  
 NT1 laryngectomy  
 NT1 nephrectomy  
 NT1 plastic surgery  
 NT1 splenectomy  
 NT1 thymectomy  
 NT1 thyroidectomy  
 RT anesthesia  
 RT surgical materials  
 RT therapy

**SURGES**

RT electric controllers  
 RT electric currents  
 RT electric potential  
 RT electrical transients  
 RT fluid flow  
 RT hydraulics  
 RT overcurrent  
 RT overvoltage  
 RT pulses  
 RT transients  
 RT var control systems  
 RT voltage regulators

**SURGICAL MATERIALS**

BT1 materials  
 BT1 medical supplies  
 RT isomed  
 RT prostheses  
 RT surgery

**SURINAM**

BT1 developing countries  
 \*BT1 south america

**surmac reactors**

INIS: 2000-04-12; ETDE: 1978-01-23  
 (Prior to July 1985, this was a valid ETDE descriptor.)  
 USE surmac tokamak

**SURMAC TOKAMAK**

INIS: 1982-11-30; ETDE: 1983-02-09  
 UF surmac reactors  
 \*BT1 tokamak devices

**SURPLUS NUCLEAR FACILITIES**

INIS: 1995-04-10; ETDE: 1986-01-15  
*Nuclear facilities, usually radioactively contaminated, that have been declared surplus.*  
 BT1 nuclear facilities

**SURPLUS POWER**

INIS: 1993-06-09; ETDE: 1984-02-10  
*Electric power generating capacity in excess of firm load requirements.*

\*BT1 electric power  
 RT electric utilities  
 RT sellback

**SURRY-1 REACTOR**

Virginia Electric and Power Co., Surry, Virginia, USA.

UF surry power station unit-1  
 \*BT1 pwr type reactors

**SURRY-2 REACTOR**

Virginia Electric and Power Co., Surry, Virginia, USA.

UF surry power station unit-2  
 \*BT1 pwr type reactors

**SURRY-3 REACTOR**

Virginia Electric and Power Co., Surry, Virginia, USA. Canceled in 1977 before construction began.

\*BT1 pwr type reactors

**SURRY-4 REACTOR**

Virginia Electric and Power Co., Surry, Virginia, USA. Canceled in 1977 before construction began.

\*BT1 pwr type reactors

**surry power station unit-1**

USE surry-1 reactor

**surry power station unit-2**

USE surry-2 reactor

**surveillance**

2000-03-29  
 (Prior to May 1996 this was a valid ETDE descriptor.)

SEE inspection  
 SEE medical surveillance  
 SEE monitoring  
 SEE security

**surveillance (medical)**

ETDE: 2002-06-13  
 USE medical surveillance

**surveillance (radioactivity)**

USE radiation monitoring

**survey (radioactivity)**

USE radiation monitoring

**SURVEY MONITORS**

\*BT1 radiation monitors

**surveys**

INIS: 2000-04-12; ETDE: 1980-05-06  
 SEE geochemical surveys  
 SEE geologic surveys  
 SEE geophysical surveys  
 SEE marine surveys  
 SEE public opinion

**SURVIVAL CURVES**

UF survival fraction  
 RT biological effects  
 RT dose-response relationships  
 RT lethal irradiation  
 RT mortality  
 RT radiosensitivity

**survival fraction**

USE survival curves

**SURVIVAL TIME**

RT lethal irradiation  
 RT time dependence

**susceptibility (magnetic)**

USE magnetic susceptibility

**suse cyclotron (munich)**

INIS: 1984-07-20; ETDE: 1984-08-20  
 USE munich suse cyclotron

**SUSPENSIONS**

BT1 dispersions  
 NT1 slurries  
 NT2 fuel slurries  
 RT drilling fluids  
 RT filters  
 RT fluidization  
 RT fluidized beds  
 RT turbidity

**suspensions (fuel)**

USE fuel slurries

**SUSQUEHANNA-1 REACTOR**

PPL Susquehanna, LLC, Berwick, Pennsylvania, USA.

UF susquehanna steam electric station unit-1

\*BT1 bwr type reactors

**SUSQUEHANNA-2 REACTOR**

PPL Susquehanna, LLC, Berwick, Pennsylvania, USA.

UF susquehanna steam electric station unit-2

\*BT1 bwr type reactors

**SUSQUEHANNA RIVER**

\*BT1 rivers  
 RT maryland  
 RT new york  
 RT pennsylvania

**susquehanna steam electric station unit-1**

1993-11-09

USE susquehanna-1 reactor

**susquehanna steam electric station unit-2**

1993-11-09

USE susquehanna-2 reactor

**SUSTAINABLE DEVELOPMENT**

2000-09-26

*Development that meets the needs of the present while still allowing future generations to meet their own needs without shortages or harm to the environment.*

BT1 resource development  
 RT economic development  
 RT energy policy  
 RT energy source development  
 RT environmental policy  
 RT environmental protection  
 RT resource depletion  
 RT resource exploitation  
 RT resource management

**SUYDAM CRITERION**

UF suydam theory  
 RT mercier criterion  
 RT plasma instability

**suydam theory**

USE suydam criterion

**sv 40 virus**

USE simian virus

**sv40 virus**

INIS: 1976-03-25; ETDE: 2000-11-24  
 USE oncogenic viruses



RT plants  
RT predator-prey interactions  
RT rhizobium

**SYMBIOTIC STARS**

1983-03-15

*Objects whose spectra have characteristics of disparate spectral classes.*

BT1 stars  
RT accretion disks  
RT binary stars

**symbolic logic**

INIS: 1986-07-10; ETDE: 1975-11-11

USE mathematical logic

**SYMMETRY**

NT1 axial symmetry  
NT1 boson-fermion symmetry  
NT1 chiral symmetry  
NT1 crossing symmetry  
NT1 supersymmetry  
NT1 unitary symmetry  
RT asymmetry  
RT configuration  
RT distribution  
RT invariance principles  
RT orientation  
RT symmetry breaking  
RT symmetry groups

**SYMMETRY BREAKING**

RT compactification  
RT higgs bosons  
RT instantons  
RT symmetry  
RT symmetry groups

**SYMMETRY GROUPS**

1997-08-20

NT1 dynamical groups  
  NT2 o groups  
NT1 lie groups  
  NT2 conformal groups  
  NT2 de sitter group  
  NT2 graded lie groups  
  NT2 o groups  
  NT2 poincare groups  
  NT3 lorentz groups  
NT2 sl groups  
NT2 so groups  
  NT3 so-10 groups  
  NT3 so-12 groups  
  NT3 so-2 groups  
  NT3 so-3 groups  
  NT3 so-4 groups  
  NT3 so-5 groups  
  NT3 so-6 groups  
  NT3 so-8 groups  
NT2 sp groups  
NT2 su groups  
  NT3 su-2 groups  
  NT3 su-3 groups  
  NT3 su-4 groups  
  NT3 su-5 groups  
  NT3 su-6 groups  
  NT3 su-7 groups  
  NT3 su-8 groups  
  NT3 su-9 groups  
NT2 sw groups  
NT2 u groups  
  NT3 u-1 groups  
  NT3 u-12 groups  
  NT3 u-2 groups  
  NT3 u-3 groups  
  NT3 u-4 groups  
  NT3 u-5 groups  
  NT3 u-6 groups  
NT1 quantum groups  
NT1 space groups  
RT casimir operators

RT current algebra  
RT group theory  
RT irreducible representations  
RT nonunitary representations  
RT symmetry  
RT symmetry breaking

**sympathectomy**

USE autonomic nervous system  
USE surgery

**sympathetic nervous system**

USE autonomic nervous system

**SYMPATHOLYTICS**

UF *adrenergics-blocking agents*  
\*BT1 autonomic nervous system agents  
NT1 ergotamine  
NT1 reserpine  
RT autonomic nervous system  
RT neuroregulators  
RT parasympatholytics  
RT parasympathomimetics  
RT sympathomimetics

**SYMPATHOMIMETICS**

UF *adrenergics*  
\*BT1 autonomic nervous system agents  
NT1 adrenaline  
NT1 amphetamines  
  NT2 benzedrine  
NT1 dopamine  
NT1 ephedrine  
NT1 noradrenaline  
NT1 serotonin  
  NT2 bufotenine  
NT1 tyramine  
RT autonomic nervous system  
RT neuroregulators  
RT parasympatholytics  
RT parasympathomimetics  
RT sympatholytics  
RT vasoconstriction  
RT vasodilation

**symplectic groups**

USE sp groups

**symposia**

USE meetings

**SYMPTOMS**

NT1 anemias  
  NT2 ischemia  
  NT2 megaloblastic anemia  
  NT2 sickle cell anemia  
  NT2 thalassemia  
NT1 ascites  
NT1 constipation  
NT1 diarrhea  
NT1 edema  
NT1 erythema  
NT1 fever  
NT1 heart failure  
NT1 hemorrhage  
NT1 hypertension  
NT1 inflammation  
NT1 jaundice  
NT1 leukopenia  
  NT2 lymphopenia  
NT1 nausea  
NT1 pain  
NT1 splenomegaly  
NT1 uremia  
NT1 vomiting  
RT chlorosis  
RT diagnosis  
RT diseases  
RT pathological changes  
RT peritonitis

**SYNCHROCYCLOTRONS**

1996-07-18

(Prior to March 1997 CHICAGO SYNCHROCYCLOTRON was a valid ETDE descriptor.)

UF *chicago synchrocyclotron*  
UF *fm cyclotrons*  
UF *frequency modulated cyclotrons*  
UF *phasotrons*  
\*BT1 cyclic accelerators  
NT1 berkeley synchrocyclotron  
NT1 cern synchrocyclotron  
NT1 dubna synchrocyclotron  
NT1 harvard synchrocyclotron  
NT1 harwell synchrocyclotron  
NT1 iko synchrocyclotron  
NT1 leningrad synchrocyclotron  
NT1 megill synchrocyclotron  
NT1 orsay synchrocyclotron  
NT1 uppsala synchrocyclotron  
RT cyclotrons  
RT synchrotrons

**SYNCHRONIZATION**

INIS: 1977-10-17; ETDE: 1976-12-16

RT antimetabolites  
RT cell cycle  
RT coincidence methods  
RT resonance  
RT synchronous cultures  
RT tuning

**SYNCHRONOUS CULTURES**

BT1 cell cultures  
RT antimetabolites  
RT cell cycle  
RT synchronization

**synchrophasotrons**

USE synchrotrons

**SYNCHROTRON OSCILLATIONS**

\*BT1 beam dynamics  
BT1 oscillations

**SYNCHROTRON RADIATION**

UF *bremsstrahlung (magnetic)*  
UF *magnetic bremsstrahlung*  
\*BT1 bremsstrahlung  
RT cyclotron radiation  
RT synchrotron radiation sources  
RT wiggler magnets

**SYNCHROTRON RADIATION SOURCES**

INIS: 1981-07-06; ETDE: 1979-05-31

BT1 radiation sources  
NT1 advanced light source  
NT1 advanced photon source  
NT1 european synchrotron radiation facility  
  NT1 indus-1  
  NT1 indus-2  
  NT1 kek photon factory  
  NT1 lnls storage ring  
  NT1 nsls  
  NT1 pohang light source  
  NT1 spring-8 storage ring  
  NT1 surf ii storage ring  
  NT1 swiss light source  
  RT light sources  
  RT storage rings  
  RT synchrotron radiation  
  RT x-ray sources

**synchrotron uv radiation facility (nbs)**

INIS: 1993-11-09; ETDE: 2002-06-13

USE surf ii storage ring





UF supra-thermal ions  
 \*BT1 ions  
 RT distribution functions  
 RT non-equilibrium plasma  
 RT tail electrons

**TAILINGS**

INIS: 1981-02-27; ETDE: 1979-05-31  
 Solid residue separated in the preparation of various products.

UF mine tailings  
 \*BT1 solid wastes  
 NT1 mill tailings  
 NT1 oil sand tailings  
 RT mineral wastes  
 RT ore processing  
 RT remedial action  
 RT separation processes

**TAIWAN**

1993-01-27  
 UF formosa  
 \*BT1 china  
 BT1 islands

**TAIWAN RESEARCH REACTOR**

\*BT1 heavy water cooled reactors  
 \*BT1 heavy water moderated reactors  
 \*BT1 isotope production reactors  
 \*BT1 materials testing reactors  
 \*BT1 natural uranium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 thermal reactors

**TAJKISTAN**

INIS: 1997-08-20; ETDE: 1993-04-08  
 (Until January 1993, this was indexed by USSR.)  
 SF soviet union  
 SF union of soviet socialist republics  
 SF ussr  
 BT1 asia

**TAKAHAMA-1 REACTOR**

KEPCO, Takahama, Fukui, Japan.  
 UF kansai-3 reactor  
 \*BT1 pwr type reactors

**TAKAHAMA-2 REACTOR**

KEPCO, Takahama, Fukui, Japan.  
 UF kansai-4 reactor  
 \*BT1 pwr type reactors

**TAKAHAMA-3 REACTOR**

INIS: 1981-07-13; ETDE: 1981-08-04  
 KEPCO, Takahama, Fukui, Japan.  
 \*BT1 pwr type reactors

**TAKAHAMA-4 REACTOR**

INIS: 1981-07-13; ETDE: 1981-08-04  
 KEPCO, Takahama, Fukui, Japan.  
 \*BT1 pwr type reactors

**TAKAHAX PROCESS**

2000-04-12  
 Process for removal of up to 99.9% of hydrogen sulfide from gas streams particularly those with low initial hydrogen sulfide concentration and/or high carbon dioxide/hydrogen sulfide ratios.  
 \*BT1 desulfurization

**TAKENOYU GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1977-08-09  
 BT1 geothermal fields  
 RT japan

**TAKINOUE GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1978-04-27  
 BT1 geothermal fields  
 RT hachimantai  
 RT japan

**TALC**

\*BT1 silicate minerals  
 RT magnesium silicates

**TALL OIL**

INIS: 1999-05-03; ETDE: 1980-11-08  
 A yellow-black, malodorous, resinous admixture derived from wood pulping waste liquors. It is used in lubricants and greases.  
 \*BT1 oils

**TALMI INTEGRALS**

BT1 integrals  
 RT shell models

**TALSPEAK PROCESS**

INIS: 1979-01-18; ETDE: 1978-08-07  
 \*BT1 reprocessing  
 RT solvent extraction

**tam**

INIS: 1981-05-11; ETDE: 1981-06-13  
 USE tamoxifen

**TAMM-DANCOFF METHOD**

BT1 calculation methods  
 RT boson expansion  
 RT quantum mechanics

**tammuz-1 reactor**

INIS: 1985-06-07; ETDE: 1985-07-18  
 USE tz1 reactor

**tammuz-2 reactor**

INIS: 1985-06-07; ETDE: 1985-07-18  
 USE tz2 reactor

**TAMOXIFEN**

INIS: 1981-05-11; ETDE: 1981-06-13  
 UF tam  
 \*BT1 organic nitrogen compounds  
 RT estrogens  
 RT receptors

**tan (triacetoneamine-n-oxy)**

(Prior to July 1985 this was a valid ETDE descriptor.)  
 USE triacetoneamine-n-oxy

**TANDEM ELECTROSTATIC ACCELERATORS**

INIS: 1996-07-18; ETDE: 1979-08-09  
 (Prior to February 1979 this information was indexed to VAN DE GRAAFF ACCELERATORS.)

UF learn tandem accelerator  
 \*BT1 electrostatic accelerators  
 NT1 antares tandem accelerator  
 NT1 crnl mp tandem accelerator  
 NT1 jaeri tandem accelerator  
 NT1 orsay tandem accelerator  
 NT1 vivitron tandem accelerator  
 RT dynamitrons  
 RT van de graaff accelerators

**tandem mirror devices**

INIS: 2000-04-12; ETDE: 1981-04-17  
 SEE tmr reactors  
 SEE tmx devices

**tandem mirror experiment at uclll**

INIS: 1984-06-21; ETDE: 2002-06-13  
 USE tmx devices

**tandem mirror type reactors**

INIS: 1981-07-06; ETDE: 1981-08-04  
 USE tmr reactors

**TANDEM MIRRORS**

1983-09-06  
 (Prior to September 1983 this concept in ETDE was indexed to TMX DEVICES.)  
 \*BT1 magnetic mirrors  
 NT1 gamma 10 devices  
 NT1 phaedrus mirror devices  
 NT1 tara devices  
 NT1 tmx devices  
 RT tlm configurations  
 RT tmr reactors

**TANK CIRCUITS**

BT1 electronic circuits  
 RT stored energy

**tank farms**

INIS: 2000-04-12; ETDE: 1979-12-10  
 USE storage facilities

**tank type critical assembly**

USE tca reactor

**TANK TYPE REACTORS**

BT1 reactors  
 NT1 aarr reactor  
 NT1 alrr reactor  
 NT1 aquilon reactor  
 NT1 atr reactor  
 NT1 atrs reactor  
 NT1 borax-1 reactor  
 NT1 borax-2 reactor  
 NT1 borax-3 reactor  
 NT1 borax-4 reactor  
 NT1 borax-5 reactor  
 NT1 br-02 reactor  
 NT1 br-1 reactor  
 NT1 br-2 reactor  
 NT1 br-3-vn reactor  
 NT1 cirus reactor  
 NT1 cp-3 reactor  
 NT1 cp-3m reactor  
 NT1 cp-5 reactor  
 NT1 dca reactor  
 NT1 dido reactor  
 NT1 diorit reactor  
 NT1 dmtr reactor  
 NT1 dr-3 reactor  
 NT1 eco reactor  
 NT1 el-1 reactor  
 NT1 el-2 reactor  
 NT1 el-3 reactor  
 NT1 eocr reactor  
 NT1 eole reactor  
 NT1 esada-vesr reactor  
 NT1 essor reactor  
 NT1 etr reactor  
 NT1 etrr-1 reactor  
 NT1 ewa reactor  
 NT1 ewg-1 reactor  
 NT1 fir-1 reactor  
 NT1 fir-2 reactor  
 NT1 frj-2 reactor  
 NT1 getr reactor  
 NT1 grenoble reactor  
 NT1 gtrr reactor  
 NT1 hbwr reactor  
 NT1 hfbr reactor  
 NT1 hfir reactor  
 NT1 hfr reactor  
 NT1 hifar reactor  
 NT1 hwetr reactor  
 NT1 igr reactor  
 NT1 irr-2 reactor  
 NT1 ispra-1 reactor  
 NT1 janus reactor  
 NT1 jeep-2 reactor  
 NT1 jmtr reactor  
 NT1 jrr-2 reactor  
 NT1 jrr-3 reactor

NT1 jun0 reactor  
NT1 kamini reactor  
NT1 litr reactor  
NT1 loft reactor  
NT1 lprr reactor  
NT1 mir reactor  
NT1 mitr reactor  
NT1 mnsr type reactors  
NT2 gharr-1 reactor  
NT2 mnsr-ciae reactor  
NT2 mnsr-sd reactor  
NT2 mnsr-sh reactor  
NT2 mnsr-sz reactor  
NT2 nirr-1 reactor  
NT2 parr-2 reactor  
NT2 srr-1 reactor  
NT1 mrr reactor  
NT1 mtr reactor  
NT1 murr reactor  
NT1 nbsr reactor  
NT1 netr reactor  
NT1 nora reactor  
NT1 nru reactor  
NT1 nrx reactor  
NT1 ntr reactor  
NT1 nuclear furnace reactor  
NT1 orphee reactor  
NT1 orr reactor  
NT1 osiris reactor  
NT1 ovr reactor  
NT1 pbf reactor  
NT1 pbr reactor  
NT1 pegase reactor  
NT1 pelinduna reactor  
NT1 pik reactor  
NT1 pluto reactor  
NT1 prcf reactor  
NT1 prr reactor  
NT1 pse reactor  
NT1 purnima-3 reactor  
NT1 r-1 reactor  
NT1 r-2 reactor  
NT1 r-a reactor  
NT1 ra-0 reactor  
NT1 ra-2 reactor  
NT1 ra-3 reactor  
NT1 ra-4 reactor  
NT1 ra-5 reactor  
NT1 rake-2 reactor  
NT1 rb-3 reactor  
NT1 rospo reactor  
NT1 rpt reactor  
NT1 safari-1 reactor  
NT1 sm-2 reactor  
NT1 spert-1 reactor  
NT1 spert-2 reactor  
NT1 spert-3 reactor  
NT1 sr-1 reactor  
NT1 sr-0a reactor  
NT1 taiwan research reactor  
NT1 tca reactor  
NT1 thermos reactor  
NT1 triga-1-michigan reactor  
NT1 tsr-1 reactor  
NT1 venus reactor  
NT1 wntr reactor  
NT1 wr-1 reactor  
NT1 wtr reactor  
NT1 wwr type reactors  
NT2 budapest training reactor  
NT2 irt-1 libya reactor  
NT2 irt-baghdad reactor  
NT2 lvr-15 reactor  
NT2 wwr-2 reactor  
NT2 wwr-k-almaty reactor  
NT2 wwr-m-kiev reactor  
NT2 wwr-m-leningrad reactor  
NT2 wwr-s-bucharest reactor  
NT2 wwr-s-budapest reactor

NT2 wwr-s-cairo reactor  
NT2 wwr-s-moscow reactor  
NT2 wwr-s-prague reactor  
NT2 wwr-s-tashkent reactor  
NT2 wwr-sm rossendorf reactor  
NT2 wwr-z reactor  
NT1 zed-2 reactor  
NT1 zeep reactor  
NT1 zlfr reactor  
NT1 zpr reactor

### TANKER SHIPS

INIS: 1992-05-22; ETDE: 1976-03-11

UF crude carriers  
UF supertankers  
UF ulcc  
UF vlcc  
BT1 ships  
RT deep water oil terminals  
RT lightering  
RT maritime transport  
RT petroleum

### TANKS

(From April 1975 till February 1997  
ACCUMULATORS was a valid ETDE  
descriptor.)

UF accumulators  
BT1 containers  
NT1 floating roof tanks  
NT1 hydraulic accumulators  
RT hydrogen storage  
RT liners  
RT sensible heat storage

### TANNIC ACID

UF digallic acid  
UF gallotannic acid  
UF tannin  
\*BT1 carboxylic acids  
\*BT1 polyphenols

### tannin

USE tannic acid

### TANTALATES

Specific compounds should be indexed by  
coordination of a descriptor of the form  
(CATION) COMPOUNDS and the above  
anion descriptor.

BT1 oxygen compounds  
\*BT1 tantalum compounds  
RT tantalum oxides

### TANTALITE

\*BT1 oxide minerals  
RT iron oxides  
RT manganese oxides  
RT tantalum oxides

### TANTALUM

\*BT1 refractory metals  
\*BT1 transition elements

### TANTALUM 156

INIS: 1989-07-19; ETDE: 1989-08-01

\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 tantalum isotopes

### TANTALUM 157

INIS: 1979-09-18; ETDE: 1979-10-23

\*BT1 alpha decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 tantalum isotopes

### TANTALUM 158

INIS: 1979-09-18; ETDE: 1979-10-23

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 tantalum isotopes

### TANTALUM 159

INIS: 1979-09-18; ETDE: 1979-10-23

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 tantalum isotopes

### TANTALUM 160

INIS: 1979-09-18; ETDE: 1979-10-23

\*BT1 alpha decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 tantalum isotopes

### TANTALUM 161

INIS: 1979-09-18; ETDE: 1979-10-23

\*BT1 alpha decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 tantalum isotopes

### TANTALUM 162

INIS: 1985-10-23; ETDE: 1985-11-13

\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 tantalum isotopes

### TANTALUM 163

INIS: 1980-12-01; ETDE: 1980-08-25

\*BT1 alpha decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 tantalum isotopes

### TANTALUM 164

INIS: 1982-08-27; ETDE: 1982-09-10

\*BT1 alpha decay radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 tantalum isotopes

### TANTALUM 165

INIS: 1982-08-27; ETDE: 1982-09-10

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-even nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 tantalum isotopes

### TANTALUM 166

1975-08-22

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 odd-odd nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 tantalum isotopes

### TANTALUM 167

INIS: 1976-07-06; ETDE: 1976-04-19

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 intermediate mass nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 tantalum isotopes





NT1 tantalum selenides  
 NT1 tantalum silicates  
 NT1 tantalum silicides  
 NT1 tantalum sulfates  
 NT1 tantalum sulfides  
 NT1 tantalum tellurides  
 NT1 tantalum tungstates

**TANTALUM FLUORIDES**

\*BT1 fluorides  
 \*BT1 tantalum compounds

**TANTALUM HYDRIDES**

\*BT1 hydrides  
 \*BT1 tantalum compounds

**TANTALUM HYDROXIDES**

\*BT1 hydroxides  
 \*BT1 tantalum compounds

**TANTALUM IODIDES**

\*BT1 iodides  
 \*BT1 tantalum compounds

**TANTALUM IONS**

\*BT1 ions

**TANTALUM ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 tantalum 156  
 NT1 tantalum 157  
 NT1 tantalum 158  
 NT1 tantalum 159  
 NT1 tantalum 160  
 NT1 tantalum 161  
 NT1 tantalum 162  
 NT1 tantalum 163  
 NT1 tantalum 164  
 NT1 tantalum 165  
 NT1 tantalum 166  
 NT1 tantalum 167  
 NT1 tantalum 168  
 NT1 tantalum 169  
 NT1 tantalum 170  
 NT1 tantalum 171  
 NT1 tantalum 172  
 NT1 tantalum 173  
 NT1 tantalum 174  
 NT1 tantalum 175  
 NT1 tantalum 176  
 NT1 tantalum 177  
 NT1 tantalum 178  
 NT1 tantalum 179  
 NT1 tantalum 180  
 NT1 tantalum 181  
 NT1 tantalum 182  
 NT1 tantalum 183  
 NT1 tantalum 184  
 NT1 tantalum 185  
 NT1 tantalum 186

**TANTALUM NITRIDES**

\*BT1 nitrides  
 \*BT1 tantalum compounds

**TANTALUM ORES**

BT1 ores

**TANTALUM OXIDES**

1996-06-28

\*BT1 oxides  
 \*BT1 tantalum compounds  
 RT oxide minerals  
 RT tantalates  
 RT tantalite  
 RT tapiolite

**TANTALUM PHOSPHATES**

1984-01-18

\*BT1 phosphates  
 \*BT1 tantalum compounds

**TANTALUM PHOSPHIDES**

INIS: 2000-04-12; ETDE: 1976-09-14

\*BT1 phosphides  
 \*BT1 tantalum compounds

**TANTALUM SELENIDES**

1976-02-05

\*BT1 selenides  
 \*BT1 tantalum compounds

**TANTALUM SILICATES**

INIS: 2000-04-12; ETDE: 1979-03-27

\*BT1 silicates  
 \*BT1 tantalum compounds

**TANTALUM SILICIDES**

1979-01-18

\*BT1 silicides  
 \*BT1 tantalum compounds

**TANTALUM SULFATES**

1982-02-10

\*BT1 sulfates  
 \*BT1 tantalum compounds

**TANTALUM SULFIDES**

\*BT1 sulfides  
 \*BT1 tantalum compounds

**TANTALUM TELLURIDES**

INIS: 1980-07-24; ETDE: 1975-11-11

\*BT1 tantalum compounds  
 \*BT1 tellurides

**TANTALUM TUNGSTATES**

INIS: 1979-09-18; ETDE: 1976-04-19

\*BT1 tantalum compounds  
 \*BT1 tungstates

**tanzania (united republic of)**

2003-07-09

USE united republic of tanzania

**tapeworms**

USE cestodes

**TAPIOLITE**

2000-04-12

\*BT1 oxide minerals  
 RT iron oxides  
 RT niobium oxides  
 RT tantalum oxides

**TAPIRO REACTOR**

CNEN, Casaccia Center, Rome, Italy.

\*BT1 fast reactors  
 \*BT1 research reactors  
 \*BT1 test reactors

**TAR**

\*BT1 other organic compounds  
 NT1 bitumens  
 NT2 asphalts  
 NT2 coal tar  
 NT2 thucholite  
 NT1 shale tar  
 RT pitches

**tar sand oil**

INIS: 2000-04-12; ETDE: 1976-07-07

USE bitumens

**tar sand tailings**

1992-05-04

USE oil sand tailings

**TAR SAND TRIANGLE DEPOSIT**

INIS: 2000-04-12; ETDE: 1977-05-07

\*BT1 oil sand deposits  
 RT oil sands  
 RT utah

**tar sands**

1975-09-01

USE oil sands

**TARA DEVICES**

INIS: 1984-07-20; ETDE: 1984-02-23

Tandem mirror experiment at MIT.

\*BT1 tandem mirrors

**TARAPUR-1 REACTOR**

Boisar, Maharashtra, India.

\*BT1 bwr type reactors

**TARAPUR-2 REACTOR**

Boisar, Maharashtra, India.

\*BT1 bwr type reactors

**TARAPUR-3 REACTOR**

2005-07-22

Nuclear Power Corporation of India Ltd.,

Boisar, Maharashtra, India.

\*BT1 phwr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**TARAPUR-4 REACTOR**

2005-07-22

Nuclear Power Corporation of India Ltd.,

Boisar, Maharashtra, India.

\*BT1 phwr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**TARGET CHAMBERS**

BT1 accelerator facilities

RT accelerators

RT targets

**target holders**

INIS: 1976-03-25; ETDE: 2002-06-13

USE sample holders

**TARGETS**

1998-01-29

NT1 actinium 227 target  
 NT1 aluminium 25 target  
 NT1 aluminium 26 target  
 NT1 aluminium 27 target  
 NT1 aluminium 28 target  
 NT1 americium 241 target  
 NT1 americium 242 target  
 NT1 americium 243 target  
 NT1 antimony 118 target  
 NT1 antimony 120 target  
 NT1 antimony 121 target  
 NT1 antimony 123 target  
 NT1 antimony 127 target  
 NT1 argon 36 target  
 NT1 argon 37 target  
 NT1 argon 38 target  
 NT1 argon 40 target  
 NT1 arsenic 75 target  
 NT1 astatine 212 target  
 NT1 barium 127 target  
 NT1 barium 130 target  
 NT1 barium 134 target  
 NT1 barium 135 target  
 NT1 barium 136 target  
 NT1 barium 137 target  
 NT1 barium 138 target  
 NT1 barium 139 target  
 NT1 berkelium 249 target  
 NT1 beryllium 10 target  
 NT1 beryllium 11 target  
 NT1 beryllium 6 target  
 NT1 beryllium 7 target  
 NT1 beryllium 8 target  
 NT1 beryllium 9 target  
 NT1 bismuth 207 target  
 NT1 bismuth 208 target  
 NT1 bismuth 209 target

NTI bismuth 210 target	NTI dysprosium 154 target	NTI indium 110 target
NTI boron 10 target	NTI dysprosium 156 target	NTI indium 113 target
NTI boron 11 target	NTI dysprosium 158 target	NTI indium 115 target
NTI boron 12 target	NTI dysprosium 160 target	NTI indium 127 target
NTI boron 13 target	NTI dysprosium 161 target	NTI iodine 127 target
NTI boron 8 target	NTI dysprosium 162 target	NTI iodine 128 target
NTI bromine 71 target	NTI dysprosium 163 target	NTI iodine 129 target
NTI bromine 76 target	NTI dysprosium 164 target	NTI ion beam targets
NTI bromine 79 target	NTI dysprosium 165 target	NTI iridium 189 target
NTI bromine 81 target	NTI einsteinium 253 target	NTI iridium 190 target
NTI cadmium 106 target	NTI einsteinium 254 target	NTI iridium 191 target
NTI cadmium 108 target	NTI einsteinium 255 target	NTI iridium 193 target
NTI cadmium 109 target	NTI electron beam targets	NTI iridium 194 target
NTI cadmium 110 target	NTI erbium 162 target	NTI iron 54 target
NTI cadmium 111 target	NTI erbium 163 target	NTI iron 55 target
NTI cadmium 112 target	NTI erbium 164 target	NTI iron 56 target
NTI cadmium 113 target	NTI erbium 165 target	NTI iron 57 target
NTI cadmium 114 target	NTI erbium 166 target	NTI iron 58 target
NTI cadmium 116 target	NTI erbium 167 target	NTI krypton 76 target
NTI calcium 39 target	NTI erbium 168 target	NTI krypton 77 target
NTI calcium 40 target	NTI erbium 170 target	NTI krypton 80 target
NTI calcium 41 target	NTI europium 151 target	NTI krypton 82 target
NTI calcium 42 target	NTI europium 152 target	NTI krypton 83 target
NTI calcium 43 target	NTI europium 153 target	NTI krypton 84 target
NTI calcium 44 target	NTI europium 154 target	NTI krypton 85 target
NTI calcium 46 target	NTI europium 155 target	NTI krypton 86 target
NTI calcium 48 target	NTI fermium 253 target	NTI lanthanum 139 target
NTI calcium 49 target	NTI fermium 254 target	NTI laser targets
NTI californium 244 target	NTI fermium 255 target	NTI lead 200 target
NTI californium 246 target	NTI fermium 256 target	NTI lead 202 target
NTI californium 249 target	NTI fermium 257 target	NTI lead 204 target
NTI californium 250 target	NTI fermium 258 target	NTI lead 205 target
NTI californium 251 target	NTI fermium 259 target	NTI lead 206 target
NTI californium 252 target	NTI fermium 260 target	NTI lead 207 target
NTI californium 254 target	NTI fluorine 16 target	NTI lead 208 target
NTI carbon 11 target	NTI fluorine 17 target	NTI lead 209 target
NTI carbon 12 target	NTI fluorine 18 target	NTI lead 210 target
NTI carbon 13 target	NTI fluorine 19 target	NTI lithium 11 target
NTI carbon 14 target	NTI gadolinium 142 target	NTI lithium 6 target
NTI carbon 16 target	NTI gadolinium 148 target	NTI lithium 7 target
NTI cerium 136 target	NTI gadolinium 152 target	NTI lithium 8 target
NTI cerium 138 target	NTI gadolinium 154 target	NTI lithium 9 target
NTI cerium 140 target	NTI gadolinium 155 target	NTI lutetium 174 target
NTI cerium 141 target	NTI gadolinium 156 target	NTI lutetium 175 target
NTI cerium 142 target	NTI gadolinium 157 target	NTI lutetium 176 target
NTI cerium 144 target	NTI gadolinium 158 target	NTI magnesium 23 target
NTI cesium 131 target	NTI gadolinium 159 target	NTI magnesium 24 target
NTI cesium 132 target	NTI gadolinium 160 target	NTI magnesium 25 target
NTI cesium 133 target	NTI gallium 65 target	NTI magnesium 26 target
NTI cesium 134 target	NTI gallium 67 target	NTI magnesium 27 target
NTI cesium 135 target	NTI gallium 69 target	NTI manganese 51 target
NTI cesium 137 target	NTI gallium 71 target	NTI manganese 52 target
NTI chlorine 35 target	NTI germanium 70 target	NTI manganese 53 target
NTI chlorine 36 target	NTI germanium 71 target	NTI manganese 54 target
NTI chlorine 37 target	NTI germanium 72 target	NTI manganese 55 target
NTI chromium 50 target	NTI germanium 73 target	NTI mercury 193 target
NTI chromium 52 target	NTI germanium 74 target	NTI mercury 196 target
NTI chromium 53 target	NTI germanium 75 target	NTI mercury 198 target
NTI chromium 54 target	NTI germanium 76 target	NTI mercury 199 target
NTI chromium 56 target	NTI germanium 86 target	NTI mercury 200 target
NTI cobalt 56 target	NTI gold 187 target	NTI mercury 201 target
NTI cobalt 57 target	NTI gold 193 target	NTI mercury 202 target
NTI cobalt 58 target	NTI gold 194 target	NTI mercury 204 target
NTI cobalt 59 target	NTI gold 195 target	NTI mercury 206 target
NTI cobalt 60 target	NTI gold 196 target	NTI molybdenum 100 target
NTI copper 61 target	NTI gold 197 target	NTI molybdenum 92 target
NTI copper 63 target	NTI gold 198 target	NTI molybdenum 94 target
NTI copper 64 target	NTI gold 199 target	NTI molybdenum 95 target
NTI copper 65 target	NTI hafnium 174 target	NTI molybdenum 96 target
NTI curium 242 target	NTI hafnium 176 target	NTI molybdenum 97 target
NTI curium 243 target	NTI hafnium 177 target	NTI molybdenum 98 target
NTI curium 244 target	NTI hafnium 178 target	NTI neodymium 142 target
NTI curium 245 target	NTI hafnium 179 target	NTI neodymium 143 target
NTI curium 246 target	NTI hafnium 180 target	NTI neodymium 144 target
NTI curium 247 target	NTI helium 3 target	NTI neodymium 145 target
NTI curium 248 target	NTI helium 4 target	NTI neodymium 146 target
NTI curium 249 target	NTI helium 6 target	NTI neodymium 147 target
NTI curium 250 target	NTI holmium 165 target	NTI neodymium 148 target
NTI deuterium target	NTI hydrogen 1 target	

NT1	neodymium 149 target	NT1	promethium 147 target	NT1	tellurium 130 target
NT1	neodymium 150 target	NT1	promethium 149 target	NT1	terbium 159 target
NT1	neon 20 target	NT1	protactinium 231 target	NT1	terbium 160 target
NT1	neon 21 target	NT1	protactinium 232 target	NT1	thallium 203 target
NT1	neon 22 target	NT1	protactinium 233 target	NT1	thallium 205 target
NT1	neptunium 232 target	NT1	radium 226 target	NT1	thallium 207 target
NT1	neptunium 236 target	NT1	rhenium 184 target	NT1	thallium 209 target
NT1	neptunium 237 target	NT1	rhenium 185 target	NT1	thorium 228 target
NT1	neptunium 238 target	NT1	rhenium 186 target	NT1	thorium 229 target
NT1	neptunium 239 target	NT1	rhenium 187 target	NT1	thorium 230 target
NT1	nickel 56 target	NT1	rhodium 103 target	NT1	thorium 231 target
NT1	nickel 57 target	NT1	rhodium 96 target	NT1	thorium 232 target
NT1	nickel 58 target	NT1	rubidium 84 target	NT1	thorium 233 target
NT1	nickel 59 target	NT1	rubidium 85 target	NT1	thorium 234 target
NT1	nickel 60 target	NT1	rubidium 87 target	NT1	thorium 238 target
NT1	nickel 61 target	NT1	rubidium 88 target	NT1	thorium 239 target
NT1	nickel 62 target	NT1	ruthenium 100 target	NT1	thulium 169 target
NT1	nickel 63 target	NT1	ruthenium 101 target	NT1	thulium 171 target
NT1	nickel 64 target	NT1	ruthenium 102 target	NT1	tin 110 target
NT1	niobium 91 target	NT1	ruthenium 103 target	NT1	tin 112 target
NT1	niobium 92 target	NT1	ruthenium 104 target	NT1	tin 114 target
NT1	niobium 93 target	NT1	ruthenium 96 target	NT1	tin 115 target
NT1	niobium 94 target	NT1	ruthenium 98 target	NT1	tin 116 target
NT1	niobium 95 target	NT1	ruthenium 99 target	NT1	tin 117 target
NT1	niobium 96 target	NT1	samarium 144 target	NT1	tin 118 target
NT1	nitrogen 12 target	NT1	samarium 145 target	NT1	tin 119 target
NT1	nitrogen 13 target	NT1	samarium 146 target	NT1	tin 120 target
NT1	nitrogen 14 target	NT1	samarium 147 target	NT1	tin 122 target
NT1	nitrogen 15 target	NT1	samarium 148 target	NT1	tin 124 target
NT1	nitrogen 16 target	NT1	samarium 149 target	NT1	tin 125 target
NT1	osmium 184 target	NT1	samarium 150 target	NT1	tin 126 target
NT1	osmium 186 target	NT1	samarium 151 target	NT1	titanium 44 target
NT1	osmium 187 target	NT1	samarium 152 target	NT1	titanium 45 target
NT1	osmium 188 target	NT1	samarium 154 target	NT1	titanium 46 target
NT1	osmium 189 target	NT1	scandium 45 target	NT1	titanium 47 target
NT1	osmium 190 target	NT1	scandium 47 target	NT1	titanium 48 target
NT1	osmium 191 target	NT1	selenium 72 target	NT1	titanium 49 target
NT1	osmium 192 target	NT1	selenium 74 target	NT1	titanium 50 target
NT1	osmium 193 target	NT1	selenium 75 target	NT1	tritium target
NT1	oxygen 14 target	NT1	selenium 76 target	NT1	tungsten 180 target
NT1	oxygen 15 target	NT1	selenium 77 target	NT1	tungsten 182 target
NT1	oxygen 16 target	NT1	selenium 78 target	NT1	tungsten 183 target
NT1	oxygen 17 target	NT1	selenium 80 target	NT1	tungsten 184 target
NT1	oxygen 18 target	NT1	selenium 82 target	NT1	tungsten 185 target
NT1	palladium 102 target	NT1	silicon 28 target	NT1	tungsten 186 target
NT1	palladium 104 target	NT1	silicon 29 target	NT1	uranium 232 target
NT1	palladium 105 target	NT1	silicon 30 target	NT1	uranium 233 target
NT1	palladium 106 target	NT1	silicon 32 target	NT1	uranium 234 target
NT1	palladium 107 target	NT1	silicon 34 target	NT1	uranium 235 target
NT1	palladium 108 target	NT1	silver 106 target	NT1	uranium 236 target
NT1	palladium 110 target	NT1	silver 107 target	NT1	uranium 237 target
NT1	palladium 118 target	NT1	silver 108 target	NT1	uranium 238 target
NT1	phosphorus 30 target	NT1	silver 109 target	NT1	uranium 239 target
NT1	phosphorus 31 target	NT1	silver 110 target	NT1	uranium 240 target
NT1	phosphorus 32 target	NT1	sodium 21 target	NT1	uranium 243 target
NT1	platinum 190 target	NT1	sodium 22 target	NT1	vanadium 48 target
NT1	platinum 192 target	NT1	sodium 23 target	NT1	vanadium 49 target
NT1	platinum 194 target	NT1	strontium 84 target	NT1	vanadium 50 target
NT1	platinum 195 target	NT1	strontium 86 target	NT1	vanadium 51 target
NT1	platinum 196 target	NT1	strontium 87 target	NT1	xenon 123 target
NT1	platinum 198 target	NT1	strontium 88 target	NT1	xenon 124 target
NT1	plutonium 235 target	NT1	strontium 90 target	NT1	xenon 125 target
NT1	plutonium 236 target	NT1	sulfur 32 target	NT1	xenon 126 target
NT1	plutonium 237 target	NT1	sulfur 33 target	NT1	xenon 127 target
NT1	plutonium 238 target	NT1	sulfur 34 target	NT1	xenon 128 target
NT1	plutonium 239 target	NT1	sulfur 36 target	NT1	xenon 129 target
NT1	plutonium 240 target	NT1	tantalum 179 target	NT1	xenon 130 target
NT1	plutonium 241 target	NT1	tantalum 180 target	NT1	xenon 131 target
NT1	plutonium 242 target	NT1	tantalum 181 target	NT1	xenon 132 target
NT1	plutonium 243 target	NT1	tantalum 182 target	NT1	xenon 134 target
NT1	plutonium 244 target	NT1	technetium 99 target	NT1	xenon 136 target
NT1	polarized targets	NT1	tellurium 119 target	NT1	ytterbium 168 target
NT1	polonium 208 target	NT1	tellurium 120 target	NT1	ytterbium 169 target
NT1	polonium 210 target	NT1	tellurium 122 target	NT1	ytterbium 170 target
NT1	potassium 39 target	NT1	tellurium 123 target	NT1	ytterbium 171 target
NT1	potassium 40 target	NT1	tellurium 124 target	NT1	ytterbium 172 target
NT1	potassium 41 target	NT1	tellurium 125 target	NT1	ytterbium 173 target
NT1	praseodymium 141 target	NT1	tellurium 126 target	NT1	ytterbium 174 target
NT1	promethium 145 target	NT1	tellurium 128 target	NT1	ytterbium 176 target

NT1 yttrium 87 target  
 NT1 yttrium 88 target  
 NT1 yttrium 89 target  
 NT1 zinc 64 target  
 NT1 zinc 65 target  
 NT1 zinc 66 target  
 NT1 zinc 67 target  
 NT1 zinc 68 target  
 NT1 zinc 70 target  
 NT1 zirconium 90 target  
 NT1 zirconium 91 target  
 NT1 zirconium 92 target  
 NT1 zirconium 93 target  
 NT1 zirconium 94 target  
 NT1 zirconium 96 target  
 RT nuclear reactions  
 RT polarization-asymmetry ratio  
 RT positioning  
 RT scattering  
 RT target chambers

**TARIFFS**

INIS: 1992-02-23; ETDE: 1978-06-14  
*Duties imposed by a government on imported or exported goods.*  
 UF import taxes  
 RT exports  
 RT imports  
 RT taxes  
 RT trade

**TARTARIC ACID**

UF dihydroxysuccinic acid  
 \*BT1 hydroxy acids  
 RT rochelle salt

**tartaric acid esters**

1996-07-23  
 (Until July 1996 this was a valid descriptor.)  
 USE carboxylic acid esters

**TARTRATES**

BT1 carboxylic acid salts  
 NT1 rochelle salt

**tashkent wwr-s reactor**

INIS: 1984-06-21; ETDE: 2002-06-13  
 USE wwr-s-tashkent reactor

**TASK SCHEDULING**

INIS: 1992-04-02; ETDE: 1985-01-28  
*The routing of data within a computer.*  
 \*BT1 data processing  
 RT array processors  
 RT executive codes  
 RT parallel processing

**TASMAN SEA**

INIS: 2000-04-12; ETDE: 1977-04-12  
 \*BT1 pacific ocean  
 RT australia  
 RT new zealand  
 RT tasmania

**TASMANIA**

\*BT1 australia  
 BT1 islands  
 RT indian ocean  
 RT pacific ocean  
 RT tasman sea

**TASTE BUDS**

\*BT1 sense organs  
 RT flavor

**taste particles**

INIS: 1978-08-14; ETDE: 1978-10-19  
*Flavor of quarks proposed in certain U(3) gauge theories of electroweak interactions.*  
 (This was a valid descriptor from August 1978 to March 2006.)  
 SEE quarks

**TATARIAN REACTOR**

INIS: 1990-01-29; ETDE: 1990-02-13  
*Tatar, Russian Federation.*  
 \*BT1 wwer type reactors

**TATB**

INIS: 2000-04-12; ETDE: 1975-08-19  
 UF 1,3,5-triamino-2,4,6-trinitrobenzene  
 \*BT1 chemical explosives

**tau leptons**

INIS: 1979-04-27; ETDE: 1979-05-25  
 USE tau particles

**TAU NEUTRINOS**

INIS: 1978-08-30; ETDE: 1978-02-14  
 \*BT1 heavy leptons  
 \*BT1 neutrinos

**TAU PARTICLES**

INIS: 1978-07-03; ETDE: 1978-02-14  
 UF tau leptons  
 UF tauons  
 \*BT1 heavy leptons  
 RT electron-muon-tau universality

**tauons**

INIS: 1978-07-03; ETDE: 1978-08-08  
 USE tau particles

**TAURINE**

UF aminoethanesulfonic acid  
 \*BT1 amines  
 \*BT1 sulfonic acids

**tautomerism**

INIS: 2000-04-12; ETDE: 1980-03-04  
 USE isomerization

**TAX CREDITS**

INIS: 2000-07-28; ETDE: 1980-10-27  
*Forms of tax cancellation or exemption. Taxes are levied but remitted in whole or in part, usually on the basis of other taxes paid.*  
 (Prior to November 1980, this concept in ETDE was indexed by FINANCIAL INCENTIVES.)  
 UF tax offsets  
 BT1 financial incentives  
 RT charges  
 RT economics  
 RT taxes

**TAX LAWS**

INIS: 1990-12-15; ETDE: 1978-03-08  
 (Prior to December 1990, this descriptor was spelled TAX LAW.)  
 BT1 laws

**tax offsets**

INIS: 2000-04-12; ETDE: 1984-03-06  
 USE tax credits

**TAXES**

1997-06-19  
 (From November 1979 till March 1997 SURCHARGES was a valid ETDE descriptor.)  
 SF surcharges  
 NT1 emissions tax  
 NT1 severance tax  
 NT1 windfall profits tax  
 RT charges  
 RT economic policy  
 RT economics  
 RT financial incentives  
 RT off-highway use  
 RT on-highway use  
 RT tariffs  
 RT tax credits  
 RT trade  
 RT us depletion allowances

RT us economic recovery tax act

**TAXICABS**

INIS: 1992-02-18; ETDE: 1979-11-23  
 BT1 vehicles  
 RT automobiles  
 RT occupants  
 RT transportation sector  
 RT transportation systems  
 RT vans

**TAXONOMY**

1976-05-05  
*The study of the general principles of classification.*  
 RT biology

**TBP**

UF tributyl phosphate  
 \*BT1 butyl phosphates

**tbpo (tributylphosphine oxide)**

ETDE: 2005-02-01  
 (Prior to January 2005 TBPO was a valid descriptor.)  
 USE tributylphosphine oxide

**TBR TOKAMAK**

1983-03-16  
 \*BT1 tokamak devices

**TCA REACTOR**

JAERI, Tokai, Ibaraki, Japan.  
 UF tank type critical assembly  
 \*BT1 enriched uranium reactors  
 \*BT1 research reactors  
 \*BT1 tank type reactors  
 \*BT1 water cooled reactors  
 \*BT1 water moderated reactors  
 \*BT1 zero power reactors

**TCA TOKAMAK**

INIS: 1984-04-04; ETDE: 1984-05-08  
*Experimental tokamak at Centre de Recherches en Physique des Plasmas, Lausanne.*  
 UF lausanne tokamak  
 UF tokamak chauffage alfven (switzerland)  
 \*BT1 tokamak devices

**TCABR TOKAMAK**

2004-07-09  
*Tokamak Chauffage Alfven, Institute of Physics, University of Sao Paulo, Brazil.*  
 UF tokamak chauffage alfven (brazil)  
 \*BT1 tokamak devices

**TCP**

UF tricresyl phosphates  
 \*BT1 phosphoric acid esters

**tct**

INIS: 1976-03-02; ETDE: 1975-11-26  
 USE two-component torus

**TCV TOKAMAK**

INIS: 1993-10-01; ETDE: 1993-11-08  
*Lausanne, Switzerland.*  
 \*BT1 tokamak devices

**TD-NICKEL**

*Ni-ThO2 dispersion.*  
 UF nickel-thorium oxide dispersions  
 \*BT1 cermets  
 BT1 dispersions  
 RT nickel  
 RT thorium oxides

**TD-NICKEL CHROMIUM**

*Ni-Cr-ThO2 dispersion.*  
 UF nickel chromium-td  
 \*BT1 cermets

- \*BT1 chromium alloys
- BT1 dispersions
- \*BT1 nickel base alloys
- RT thorium oxides

**TD-NMR**

1998-09-23

*Time Domain Nuclear Magnetic Resonance.*

- \*BT1 nuclear magnetic resonance

**TDA**UF *decylamine-tris*

- \*BT1 amines
- BT1 chelating agents

**tea**

- USE beverages

**TEA LEAVES**

- BT1 leaves
- RT beverages
- RT tea plants

**TEA PLANTS**

INIS: 1980-07-24; ETDE: 1980-08-12

UF *camellia sinensis*

- \*BT1 magnoliopsida
- RT beverages
- RT tea leaves

**teab**

1996-10-23

*Tetraethylammonium bromide.*

(Until October 1996 this was a valid descriptor.)

- USE bromides
- USE quaternary compounds

**teaching**

INIS: 1977-03-01; ETDE: 2002-06-13

- USE education

**teaching facilities**

INIS: 1983-06-30; ETDE: 2002-06-13

- USE educational facilities

**teak event**

1994-10-14

*A test made during project hardtack.*

(Prior to September 1994, this was a valid ETDE descriptor.)

- USE atmospheric explosions
- USE nuclear explosions

**teal oil**

- USE sesame oil

**TEAPOT PROJECT**

- RT nuclear weapons

**tear canals**

INIS: 1977-07-05; ETDE: 2002-06-13

- USE lacrimal ducts

**TEARING INSTABILITY**

INIS: 1978-11-24; ETDE: 1978-09-11

- \*BT1 plasma macroinstabilities
- RT plasma disruption

**TECHA RIVER**

1996-06-26

- \*BT1 rivers
- RT russian federation

**TECHNETATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- BT1 oxygen compounds
- \*BT1 technetium compounds
- RT technetium oxides

**TECHNETIUM**UF *masurium*

- \*BT1 refractory metals
- \*BT1 transition elements

**TECHNETIUM 100**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 technetium isotopes

**TECHNETIUM 101**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 102**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 technetium isotopes

**TECHNETIUM 103**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 technetium isotopes

**TECHNETIUM 104**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 105**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 106**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 technetium isotopes

**TECHNETIUM 107**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 technetium isotopes

**TECHNETIUM 108**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 technetium isotopes

**TECHNETIUM 109**

1976-07-06

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 technetium isotopes

**TECHNETIUM 110**

1976-07-06

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei

- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 111**

INIS: 1988-11-16; ETDE: 1988-12-02

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 technetium isotopes

**TECHNETIUM 112**

INIS: 1990-12-05; ETDE: 1991-01-15

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 113**

1998-10-21

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 88**

1996-05-14

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 technetium isotopes

**TECHNETIUM 89**

INIS: 1992-09-23; ETDE: 1981-03-16

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 90**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 technetium isotopes

**TECHNETIUM 91**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 92**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 93**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 94**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes

- \*BT1 odd-odd nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 95**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 96**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 technetium isotopes

**TECHNETIUM 97**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes
- \*BT1 years living radioisotopes

**TECHNETIUM 98**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 technetium isotopes
- \*BT1 years living radioisotopes

**TECHNETIUM 99**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 technetium isotopes
- \*BT1 years living radioisotopes

**TECHNETIUM 99 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**TECHNETIUM ADDITIONS**

*Alloys containing not more than 1% Tc are listed here.*

- \*BT1 technetium alloys

**TECHNETIUM ALLOYS**

*1995-02-27*

*Alloys containing more than 1% Tc.*

- \*BT1 transition element alloys
- NT1 technetium additions
- NT1 technetium base alloys

**TECHNETIUM BASE ALLOYS**

- \*BT1 technetium alloys

**TECHNETIUM BROMIDES**

*1984-08-23*

- \*BT1 bromides
- \*BT1 technetium compounds

**TECHNETIUM CARBIDES**

- \*BT1 carbides
- \*BT1 technetium compounds

**TECHNETIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 technetium compounds

**TECHNETIUM COMPLEXES**

- \*BT1 transition element complexes

**TECHNETIUM COMPOUNDS**

- UF *technetium tellurides*
- BT1 refractory metal compounds
- BT1 transition element compounds
- NT1 pertechnetates
- NT1 technetates
- NT1 technetium bromides
- NT1 technetium carbides
- NT1 technetium chlorides
- NT1 technetium fluorides
- NT1 technetium hydrides
- NT1 technetium iodides
- NT1 technetium oxides
- NT1 technetium phosphates
- NT1 technetium selenides
- NT1 technetium sulfides

**TECHNETIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 technetium compounds

**TECHNETIUM HYDRIDES**

- INIS: 1983-03-14; ETDE: 1982-09-10*
- \*BT1 hydrides
- \*BT1 technetium compounds

**TECHNETIUM IODIDES**

- \*BT1 iodides
- \*BT1 technetium compounds

**TECHNETIUM IONS**

- \*BT1 ions

**TECHNETIUM ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 technetium 100
- NT1 technetium 101
- NT1 technetium 102
- NT1 technetium 103
- NT1 technetium 104
- NT1 technetium 105
- NT1 technetium 106
- NT1 technetium 107
- NT1 technetium 108
- NT1 technetium 109
- NT1 technetium 110
- NT1 technetium 111
- NT1 technetium 112
- NT1 technetium 113
- NT1 technetium 88
- NT1 technetium 89
- NT1 technetium 90
- NT1 technetium 91
- NT1 technetium 92
- NT1 technetium 93
- NT1 technetium 94
- NT1 technetium 95
- NT1 technetium 96
- NT1 technetium 97
- NT1 technetium 98
- NT1 technetium 99

**TECHNETIUM OXIDES**

- \*BT1 oxides
- \*BT1 technetium compounds
- RT pertechnetates
- RT technetates

**TECHNETIUM PHOSPHATES**

*INIS: 1981-03-10; ETDE: 1980-10-27*

- \*BT1 phosphates
- \*BT1 technetium compounds

**TECHNETIUM SELENIDES**

*1992-09-17*

- \*BT1 selenides
- \*BT1 technetium compounds

**TECHNETIUM SULFIDES**

- \*BT1 sulfides
- \*BT1 technetium compounds

***technetium tellurides***

*2000-04-12*

(Prior to January 1993, this was a valid ETDE descriptor.)

- USE technetium compounds
- USE tellurides

***technical information center***

*INIS: 2000-04-12; ETDE: 1982-06-07*

(Prior to June 1994, this was a valid ETDE descriptor.)

- USE information centers
- USE us doe

***technical specifications***

- USE specifications

***technical writing***

*INIS: 2000-04-12; ETDE: 1981-11-24*

(Prior to June 1992 this was a valid ETDE descriptor.)

- SEE document types
- SEE information

**TECHNOLOGY ASSESSMENT**

*INIS: 1991-08-16; ETDE: 1976-07-07*

- RT appropriate technology
- RT delphi method
- RT feasibility studies
- RT industry

***technology development***

*INIS: 1984-10-23; ETDE: 2002-06-13*

- SEE commercialization

**TECHNOLOGY IMPACTS**

*INIS: 1986-05-26; ETDE: 1983-08-25*

- RT appropriate technology
- RT commercialization
- RT cost benefit analysis
- RT diversification
- RT economic impact
- RT economy
- RT industry
- RT social impact
- RT socio-economic factors
- RT technology transfer

**TECHNOLOGY TRANSFER**

*1977-11-21*

- UF *spin-off*
- UF *transfer of knowledge*
- RT commercialization
- RT developing countries
- RT education
- RT industry
- RT information
- RT information dissemination
- RT international cooperation
- RT inventions
- RT nuclear engineering
- RT technology impacts
- RT us ota

**TECHNOLOGY UTILIZATION**

*INIS: 1999-07-21; ETDE: 1993-08-31*

(Prior to June 1992 this was a valid ETDE descriptor. From June 1992 to August 1993 this concept in ETDE was indexed by COMMERCIALIZATION.)

- UF *mission analysis*
- SF *nanotechnology*
- RT appropriate technology
- RT commercialization
- RT developed countries
- RT feasibility studies
- RT industry

**TECTONICS**

*A branch of geology dealing with the broad architecture of the upper part of the earth's crust, that is, the regional assembling of structural or deformational features, a study of their mutual relations, their origin, and their historical evolution.*

- NT1 plate tectonics
- RT ground uplift
- RT metamorphism
- RT petrogenesis
- RT rocks

**TEDLAR**

*INIS: 2000-04-12; ETDE: 1979-05-03*

- \*BT1 fluorinated aliphatic hydrocarbons
- \*BT1 plastics
- \*BT1 polyvinyls

**teel oil**

- USE sesame oil

**TEETH**

- \*BT1 oral cavity
- RT bone tissues
- RT calcium
- RT caries
- RT dentin
- RT dentistry
- RT jaw

**TEFLON**

- \*BT1 plastics
- \*BT1 polytetrafluoroethylene

**teheran university research reactor**

*INIS: 1993-11-09; ETDE: 2002-06-13*

- USE utrr reactor

**TEHRAN NUCLEAR RESEARCH CENTRE**

*INIS: 1976-10-07; ETDE: 1976-11-01*

- UF nuclear research centre, tehran
- \*BT1 iranian organizations

**TEKTITES**

- UF australites
- UF billitonites
- UF moldavites
- UF obsidianites
- RT meteorites
- RT minerals

**tel (tetraethyl lead)**

*ETDE: 2005-02-01*

(Prior to January 2005 TEL was a valid descriptor.)

- USE tetraethyl lead

**TELANGIECTASIS**

- \*BT1 cardiovascular diseases
- \*BT1 skin diseases
- \*BT1 vascular diseases
- RT blood vessels

**TELEMETRY**

- \*BT1 data transmission
- RT mwd systems

**TELEPHONES**

*INIS: 1999-07-05; ETDE: 1976-08-24*

- RT communications
- RT data transmission
- RT public utilities

**TELESCOPE COUNTERS**

- RT coincidence circuits
- RT cosmic ray detection
- RT counting techniques
- RT hodoscopes
- RT radiation detectors

**TELESCOPES**

- NT1 pyrheliometers
- NT1 radio telescopes
- RT borescopes
- RT mirrors
- RT optical systems

**teletherapy**

*INIS: 1984-04-04; ETDE: 2002-06-13*

- USE radiotherapy

**TELEVISION**

- RT camera tubes
- RT communications
- RT radiation protection
- RT radio equipment
- RT remote viewing equipment
- RT television cameras
- RT video tapes
- RT x radiation

**TELEVISION CAMERAS**

*INIS: 1992-05-22; ETDE: 1977-03-04*

- BT1 cameras
- RT television
- RT vidicons

**TELLURATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- BT1 oxygen compounds
- BT1 tellurium compounds
- RT tellurium oxides

**TELLURIC ACID**

- \*BT1 inorganic acids
- BT1 oxygen compounds
- BT1 tellurium compounds

**TELLURIC SURVEYS**

*INIS: 2000-04-12; ETDE: 1976-08-26*

*Electrical surveys in which the earth's natural electric field is measured at two or more stations simultaneously and a quantitative estimate of the geoelectric section obtained thereby.*

- \*BT1 electrical surveys
- RT geothermal exploration

**TELLURIDES**

*1997-06-19*

- UF americium tellurides
- UF berkelium tellurides
- UF californium tellurides
- UF curium tellurides
- UF technetium tellurides
- BT1 chalcogenides
- BT1 tellurium compounds
- NT1 aluminium tellurides
- NT1 antimony tellurides
- NT1 arsenic tellurides
- NT1 beryllium tellurides
- NT1 bismuth tellurides
- NT1 cadmium tellurides
- NT1 cerium tellurides
- NT1 cesium tellurides
- NT1 chromium tellurides
- NT1 cobalt tellurides
- NT1 copper tellurides
- NT1 dysprosium tellurides
- NT1 erbium tellurides
- NT1 europium tellurides
- NT1 gadolinium tellurides
- NT1 gallium tellurides
- NT1 germanium tellurides
- NT1 gold tellurides
- NT1 hafnium tellurides
- NT1 holmium tellurides
- NT1 indium tellurides

- NT1 iridium tellurides
- NT1 iron tellurides
- NT1 lanthanum tellurides
- NT1 lead tellurides
- NT1 lithium tellurides
- NT1 magnesium tellurides
- NT1 manganese tellurides
- NT1 mercury tellurides
- NT1 molybdenum tellurides
- NT1 neodymium tellurides
- NT1 neptunium tellurides
- NT1 nickel tellurides
- NT1 niobium tellurides
- NT1 palladium tellurides
- NT1 platinum tellurides
- NT1 plutonium tellurides
- NT1 potassium tellurides
- NT1 praseodymium tellurides
- NT1 rhenium tellurides
- NT1 rhodium tellurides
- NT1 rubidium tellurides
- NT1 ruthenium tellurides
- NT1 samarium tellurides
- NT1 selenium tellurides
- NT1 silver tellurides
- NT1 sodium tellurides
- NT1 tantalum tellurides
- NT1 terbium tellurides
- NT1 thallium tellurides
- NT1 thorium tellurides
- NT1 thulium tellurides
- NT1 tin tellurides
- NT1 titanium tellurides
- NT1 tungsten tellurides
- NT1 uranium tellurides
- NT1 vanadium tellurides
- NT1 ytterbium tellurides
- NT1 yttrium tellurides
- NT1 zinc tellurides
- NT1 zirconium tellurides
- RT intermetallic compounds
- RT oxytellurides
- RT tellurium alloys

**TELLURIUM**

- \*BT1 semimetals

**TELLURIUM 106**

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 107**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 108**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 109**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 110**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 111**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 112**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 113**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 114**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 115**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 116**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 tellurium isotopes

**TELLURIUM 117**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 tellurium isotopes

**TELLURIUM 118**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 tellurium isotopes

**TELLURIUM 119**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 tellurium isotopes

**TELLURIUM 119 TARGET**

*INIS: 1975-09-01; ETDE: 1976-07-09*  
BT1 targets

**TELLURIUM 120**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tellurium isotopes

**TELLURIUM 120 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TELLURIUM 121**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 tellurium isotopes

**TELLURIUM 122**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tellurium isotopes

**TELLURIUM 122 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TELLURIUM 123**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes
- \*BT1 tellurium isotopes
- \*BT1 years living radioisotopes

**TELLURIUM 123 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TELLURIUM 124**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tellurium isotopes

**TELLURIUM 124 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TELLURIUM 125**

- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes
- \*BT1 tellurium isotopes

**TELLURIUM 125 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TELLURIUM 126**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tellurium isotopes

**TELLURIUM 126 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TELLURIUM 127**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 tellurium isotopes

**TELLURIUM 128**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tellurium isotopes

**TELLURIUM 128 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TELLURIUM 129**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 tellurium isotopes

**TELLURIUM 130**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tellurium isotopes

**TELLURIUM 130 REACTIONS**

*INIS: 1980-12-01; ETDE: 1981-01-09*  
\*BT1 heavy ion reactions

**TELLURIUM 130 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TELLURIUM 131**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 132**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 tellurium isotopes
- RT* radioisotope generators

**TELLURIUM 133**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 134**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 135**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 136**

- \*BT1 beta-minus decay radioisotopes



- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 137**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM 138**

1976-03-17

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tellurium isotopes

**TELLURIUM ADDITIONS**

- \*BT1 tellurium alloys

**TELLURIUM ALLOYS***Alloys containing more than 1% Te.*

- BT1 alloys
- NT1 tellurium additions
- RT tellurides

**TELLURIUM ARSENIDES***INIS: 2000-04-12; ETDE: 1976-02-19*

- \*BT1 arsenides
- BT1 tellurium compounds

**TELLURIUM BROMIDES**

1975-12-09

- \*BT1 bromides
- \*BT1 tellurium halides

**TELLURIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 tellurium halides

**TELLURIUM COMPLEXES**

- BT1 complexes

**TELLURIUM COMPOUNDS**

1997-06-19

- NT1 oxytellurides
- NT1 tellurates
- NT1 telluric acid
- NT1 tellurides
  - NT2 aluminium tellurides
  - NT2 antimony tellurides
  - NT2 arsenic tellurides
  - NT2 beryllium tellurides
  - NT2 bismuth tellurides
  - NT2 cadmium tellurides
  - NT2 cerium tellurides
  - NT2 cesium tellurides
  - NT2 chromium tellurides
  - NT2 cobalt tellurides
  - NT2 copper tellurides
  - NT2 dysprosium tellurides
  - NT2 erbium tellurides
  - NT2 europium tellurides
  - NT2 gadolinium tellurides
  - NT2 gallium tellurides
  - NT2 germanium tellurides
  - NT2 gold tellurides
  - NT2 hafnium tellurides
  - NT2 holmium tellurides
  - NT2 indium tellurides
  - NT2 iridium tellurides
  - NT2 iron tellurides
  - NT2 lanthanum tellurides
  - NT2 lead tellurides
  - NT2 lithium tellurides
  - NT2 magnesium tellurides
  - NT2 manganese tellurides
  - NT2 mercury tellurides
  - NT2 molybdenum tellurides

- NT2 neodymium tellurides
- NT2 neptunium tellurides
- NT2 nickel tellurides
- NT2 niobium tellurides
- NT2 palladium tellurides
- NT2 platinum tellurides
- NT2 plutonium tellurides
- NT2 potassium tellurides
- NT2 praseodymium tellurides
- NT2 rhenium tellurides
- NT2 rhodium tellurides
- NT2 rubidium tellurides
- NT2 ruthenium tellurides
- NT2 samarium tellurides
- NT2 selenium tellurides
- NT2 silver tellurides
- NT2 sodium tellurides
- NT2 tantalum tellurides
- NT2 terbium tellurides
- NT2 thallium tellurides
- NT2 thorium tellurides
- NT2 thulium tellurides
- NT2 tin tellurides
- NT2 titanium tellurides
- NT2 tungsten tellurides
- NT2 uranium tellurides
- NT2 vanadium tellurides
- NT2 ytterbium tellurides
- NT2 yttrium tellurides
- NT2 zinc tellurides
- NT2 zirconium tellurides

- NT1 tellurium arsenides
- NT1 tellurium halides
  - NT2 tellurium bromides
  - NT2 tellurium chlorides
  - NT2 tellurium fluorides
  - NT2 tellurium iodides
- NT1 tellurium hydrides
- NT1 tellurium hydroxides
- NT1 tellurium nitrates
- NT1 tellurium oxides
- NT1 tellurium sulfides

**TELLURIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 tellurium halides

**TELLURIUM HALIDES***INIS: 1991-09-16; ETDE: 1975-10-01*

- \*BT1 halides
- BT1 tellurium compounds
- NT1 tellurium bromides
- NT1 tellurium chlorides
- NT1 tellurium fluorides
- NT1 tellurium iodides

**TELLURIUM HYDRIDES***INIS: 1977-06-14; ETDE: 1977-01-10*

- \*BT1 hydrides
- BT1 tellurium compounds

**TELLURIUM HYDROXIDES***INIS: 1978-02-23; ETDE: 1978-04-06*

- \*BT1 hydroxides
- BT1 tellurium compounds

**TELLURIUM IODIDES**

- \*BT1 iodides
- \*BT1 tellurium halides

**TELLURIUM IONS**

- \*BT1 ions

**TELLURIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 tellurium 106
- NT1 tellurium 107
- NT1 tellurium 108
- NT1 tellurium 109
- NT1 tellurium 110

- NT1 tellurium 111
- NT1 tellurium 112
- NT1 tellurium 113
- NT1 tellurium 114
- NT1 tellurium 115
- NT1 tellurium 116
- NT1 tellurium 117
- NT1 tellurium 118
- NT1 tellurium 119
- NT1 tellurium 120
- NT1 tellurium 121
- NT1 tellurium 122
- NT1 tellurium 123
- NT1 tellurium 124
- NT1 tellurium 125
- NT1 tellurium 126
- NT1 tellurium 127
- NT1 tellurium 128
- NT1 tellurium 129
- NT1 tellurium 130
- NT1 tellurium 131
- NT1 tellurium 132
- NT1 tellurium 133
- NT1 tellurium 134
- NT1 tellurium 135
- NT1 tellurium 136
- NT1 tellurium 137
- NT1 tellurium 138

**TELLURIUM NITRATES***INIS: 1978-05-19; ETDE: 1978-07-05*

- \*BT1 nitrates
- BT1 tellurium compounds

**TELLURIUM ORES**

- BT1 ores

**TELLURIUM OXIDES**

- \*BT1 oxides
- BT1 tellurium compounds
- RT moctezumite
- RT oxide minerals
- RT tellurates

**TELLURIUM SULFIDES**

- \*BT1 sulfides
- BT1 tellurium compounds

**TELOMERES**

1995-01-27

*Specialized end portions of chromosomes.*

- RT chromosomal aberrations
- RT chromosomes
- RT dna replication

**TELOMERIZATION**

- \*BT1 polymerization

**telophase**

- USE mitosis

**tem (microscopy)***INIS: 1982-12-07; ETDE: 1979-01-30*

- USE transmission electron microscopy

**tem (triethylenemelamine)**

- USE alkylating agents

**TEMELIN-1 REACTOR***INIS: 1986-09-26; ETDE: 1988-02-09*

- \*BT1 wwer type reactors

**TEMELIN-2 REACTOR**

2003-03-10

- \*BT1 wwer type reactors

**TEMPERATE ZONES***INIS: 1993-03-25; ETDE: 1980-02-11**Areas or regions between the Tropic of Cancer and the Arctic Circle or between the Tropic of Capricorn and the Antarctic Circle.*

- UF zones (temperate)
- RT boreal regions

RT climates

### temperature (0 k)

2000-04-12

USE temperature zero k

### temperature (0000-0013 k)

2000-04-12

USE temperature range 0000-0013 k

### temperature (0013-0065 k)

2000-04-12

USE temperature range 0013-0065 k

### temperature (0065-0273 k)

2000-04-12

USE temperature range 0065-0273 k

### temperature (0273-0400 k)

2000-04-12

USE temperature range 0273-0400 k

### temperature (0400-1000 k)

2000-04-12

USE temperature range 0400-1000 k

### temperature (1000-4000 k)

2000-04-12

USE temperature range 1000-4000 k

### temperature (4000 k and above)

2000-04-12

USE temperature range over 4000 k

### temperature (ambient)

INIS: 2000-04-12; ETDE: 1976-05-17

USE ambient temperature

### temperature (atmospheric)

INIS: 1993-07-06; ETDE: 2002-06-13

USE ambient temperature

### temperature (body)

USE body temperature

### temperature (debye)

USE debye temperature

### temperature (electron)

USE electron temperature

### temperature (global)

INIS: 1993-07-06; ETDE: 2002-06-13

USE ambient temperature

### temperature (ion)

USE ion temperature

### temperature (neutron)

USE neutron temperature

### temperature (nuclear)

USE nuclear temperature

### temperature (photon)

USE photon temperature

### temperature (proton)

USE proton temperature

### temperature (transition)

USE transition temperature

## TEMPERATURE COEFFICIENT

BT1 reactivity coefficients

RT doppler coefficient

RT temperature dependence

## TEMPERATURE CONTROL

1999-04-07

BT1 control

RT air conditioning

RT ambient temperature

RT cooling

RT heating

RT temperature measurement

RT temperature monitoring

RT thermal comfort

RT thermal insulation

RT thermostats

## TEMPERATURE DEPENDENCE

UF heat effects

UF pyroelectricity

UF temperature effects

UF thermal effects

RT ambient temperature

RT bowing

RT temperature coefficient

RT temperature distribution

RT temperature range

RT thermal hydraulics

RT thermochemical diagrams

RT thermoelasticity

RT vernalization

## TEMPERATURE DISTRIBUTION

1982-12-01

Coordinate with the descriptor for the appropriate temperature range.

(Prior to January 1983, the temperature range was coordinated with SPATIAL

DISTRIBUTION.)

RT ambient temperature

RT isotherms

RT spatial distribution

RT temperature dependence

RT temperature gradients

RT thermal hydraulics

### temperature effects

ETDE: 1975-10-28

(Prior to June 1993, this was a valid ETDE descriptor.)

USE temperature dependence

## TEMPERATURE GRADIENTS

1986-05-26

Coordinate with the descriptor for the temperature range involved.

(Prior to June 1986 this concept was expressed with the aid of TEMPERATURE

DISTRIBUTION or SPATIAL

DISTRIBUTION.)

UF thermal gradients

NT1 geothermal gradients

RT ambient temperature

RT onsager relations

RT temperature distribution

## TEMPERATURE INVERSIONS

INIS: 1976-10-29; ETDE: 1976-12-16

Meteorological phenomena whereby warmer air layers at higher altitudes produce a closed stable air layer at lower altitudes.

UF atmospheric inversion

UF inversions (temperature)

UF thermal inversion

RT air pollution

RT earth atmosphere

RT meteorology

## TEMPERATURE LOGGING

INIS: 2000-04-12; ETDE: 1977-11-29

Measurement of well temperature as a function of depth in order to ascertain the presence of anomalies.

BT1 well logging

RT temperature measurement

## TEMPERATURE MEASUREMENT

RT ambient temperature

RT bolometers

RT calorimeters

RT calorimetry

RT degree days

RT geothermometers

RT geothermometry

RT isotherms

RT measuring instruments

RT noise thermometers

RT optical pyrometers

RT paleotemperature

RT pyrometers

RT reservoir temperature

RT temperature control

RT temperature logging

RT temperature monitoring

RT temperature surveys

RT thermocouples

RT thermography

RT thermometers

RT well temperature

## TEMPERATURE MONITORING

BT1 monitoring

RT in core instruments

RT infrared thermography

RT reactor monitoring systems

RT temperature control

RT temperature measurement

## TEMPERATURE NOISE

BT1 noise

RT cooling

RT transients

RT variations

## TEMPERATURE RANGE

INIS: 1992-01-23; ETDE: 1992-02-10

NT1 temperature range 0000-0013 k

NT1 temperature range 0013-0065 k

NT1 temperature range 0065-0273 k

NT1 temperature range 0273-0400 k

NT1 temperature range 0400-1000 k

NT1 temperature range 1000-4000 k

NT1 temperature range over 4000 k

RT ambient temperature

RT temperature dependence

RT temperature zero k

## TEMPERATURE RANGE 0000-0013 K

INIS: 1992-01-23; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to ULTRALOW TEMPERATURE.)

UF milli k range

UF temperature (0000-0013 k)

UF ultralow temperature

BT1 temperature range

RT cryogenics

## TEMPERATURE RANGE 0013-0065 K

INIS: 1992-01-23; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to VERY LOW TEMPERATURE.)

UF temperature (0013-0065 k)

UF very low temperature

BT1 temperature range

RT cryogenics

## TEMPERATURE RANGE 0065-0273 K

INIS: 1992-01-23; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to LOW TEMPERATURE.)

UF low temperature

UF temperature (0065-0273 k)

BT1 temperature range

RT cryogenics

RT freezing out

## TEMPERATURE RANGE 0273-0400 K

INIS: 1992-01-23; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to MEDIUM TEMPERATURE.)

UF medium temperature

UF temperature (0273-0400 k)

BT1 temperature range

### TEMPERATURE RANGE 0400-1000 K

INIS: 1992-01-23; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to HIGH TEMPERATURE.)

UF high temperature

UF temperature (0400-1000 k)

BT1 temperature range

### TEMPERATURE RANGE 1000-4000 K

INIS: 1992-01-23; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to VERY HIGH TEMPERATURE.)

UF temperature (1000-4000 k)

UF very high temperature

BT1 temperature range

### TEMPERATURE RANGE OVER 4000 K

INIS: 1992-07-03; ETDE: 1992-02-10

(Prior to February 1992, this subject was indexed to ULTRAHIGH TEMPERATURE.)

UF temperature (4000 k and above)

UF ultrahigh temperature

BT1 temperature range

### TEMPERATURE SURVEYS

INIS: 2000-01-21; ETDE: 1980-02-11

UF thermal surveys

\*BT1 geophysical surveys

RT geothermal exploration

RT temperature measurement

### TEMPERATURE ZERO K

INIS: 1992-09-30; ETDE: 1992-02-10

(Until September 1992, this concept was indexed by ABSOLUTE ZERO TEMPERATURE.)

UF absolute zero temperature

UF temperature (0 k)

RT cryogenics

RT temperature range

### TEMPERING

BT1 heat treatments

### TEMPORAL DOSE DISTRIBUTIONS

BT1 radiation dose distributions

RT chronic irradiation

RT cumulative radiation effects

RT dose rates

RT fractionated irradiation

RT integral doses

RT irradiation procedures

RT pulsed irradiation

RT time dependence

### TENDONS

INIS: 1992-01-16; ETDE: 1992-02-14

\*BT1 connective tissue

RT muscles

### tendons (structural)

INIS: 2000-04-12; ETDE: 1978-09-11

USE cables

### tenelon

INIS: 1996-07-23; ETDE: 1978-12-20

(Prior to March 1997 this was a valid ETDE descriptor.)

USE stainless steels

### TENNESSEE

1997-06-19

\*BT1 usa

NT1 chattanooga

NT1 oak ridge

RT chattanooga formation

RT clinch river

RT cumberland river

RT kingston steam plant

RT little tennessee river

RT mississippi river

RT nuclear fuel recovery and recycling center

RT oak ridge reservation

RT orgdp

RT ornl

RT tennessee river

RT tennessee valley region

RT y-12 plant

### TENNESSEE RIVER

1997-06-19

\*BT1 rivers

RT alabama

RT kentucky

RT tennessee

RT tennessee valley region

### tennessee tokamak

INIS: 2000-04-12; ETDE: 1984-05-08

USE tentok reactors

### TENNESSEE VALLEY AUTHORITY

INIS: 1997-06-19; ETDE: 1976-01-07

UF tva

\*BT1 us organizations

RT kingston steam plant

RT little tennessee river

RT paradise steam plant

RT shawnee steam plant

RT tennessee valley region

RT widows creek steam plant

### tennessee valley authority reactor-1

ETDE: 2002-06-13

USE tva-1 reactor

### tennessee valley authority reactor-2

ETDE: 2002-06-13

USE tva-2 reactor

### TENNESSEE VALLEY REGION

INIS: 2000-04-12; ETDE: 1978-09-13

BT1 watersheds

RT alabama

RT clinch river

RT kentucky

RT little tennessee river

RT tennessee

RT tennessee river

RT tennessee valley authority

### TENSILE PROPERTIES

UF strength (tensile)

UF tensile strength

BT1 mechanical properties

NT1 ductility

NT1 flexibility

RT compression strength

RT shear

RT strain rate

RT strains

RT stresses

RT ultimate strength

RT yield strength

### tensile strength

USE tensile properties

### tensiometers

INIS: 2000-04-12; ETDE: 1976-09-28

Use descriptor below along with descriptors for what is being measured, e.g. SURFACE TENSION, SOILS + GROUND WATER, if appropriate.

(Prior to March 1997 this was a valid descriptor.)

SEE measuring instruments

SEE moisture gages

SEE strain gages

### tension (surface)

USE surface tension

### TENSOR DOMINANCE MODEL

UF tensor meson dominance

\*BT1 particle models

RT tensor mesons

### TENSOR FIELDS

INIS: 1992-10-19; ETDE: 1992-11-04

RT quantum field theory

### TENSOR FORCES

RT nuclear forces

RT potentials

RT tensors

RT vectors

### tensor meson dominance

USE tensor dominance model

### TENSOR MESONS

1995-08-07

Mesons with spin higher than 1.

\*BT1 mesons

NT1 a2-1320 mesons

NT1 a4-2040 mesons

NT1 a6-2450 mesons

NT1 chi b2-9915 mesons

NT1 chi2-3555 mesons

NT1 d\*2-2460 mesons

NT1 f2-1270 mesons

NT1 f2-1430 mesons

NT1 f2-1720 mesons

NT1 f2-1810 mesons

NT1 f2-2010 mesons

NT1 f2-2300 mesons

NT1 f2-2340 mesons

NT1 f2 prime-1525 mesons

NT1 f4-2050 mesons

NT1 f4-2300 mesons

NT1 f6-2510 mesons

NT1 k\*2-1430 mesons

NT1 k\*3-1780 mesons

NT1 k\*4-2045 mesons

NT1 k2-1770 mesons

NT1 k2-1820 mesons

NT1 omega3-1670 mesons

NT1 phi3-1850 mesons

NT1 pi2-1670 mesons

NT1 pi2-2100 mesons

NT1 rho3-1690 mesons

NT1 rho3-2250 mesons

NT1 rho5-2350 mesons

RT meson nonets

RT noncentral forces

RT tensor dominance model

### TENSORS

NT1 dielectric tensor

NT1 energy-momentum tensor

NT1 ricci tensor

NT1 vectors

NT2 isovectors

RT mathematics

RT metrics

RT scalars

RT tensor forces

### TENTOK REACTORS

INIS: 2000-04-12; ETDE: 1984-05-08

3000-mw(t) plants fueled with D-T in D-shaped plasma with double-null poloidal divertor.

UF tennessee tokamak

\*BT1 tokamak type reactors

### teollisuuden voima oy-1 reactor

INIS: 1993-11-09; ETDE: 2002-06-13

USE olkiluoto-1 reactor

**teollisuuden voima oy-2 reaktor**

*INIS: 1993-11-09; ETDE: 2002-06-13*  
USE olkiluoto-2 reaktor

**teollisuuden voima oy-3 reaktor**

2005-09-08  
USE olkiluoto-3 reaktor

**terahertz frequency range**

2003-03-21  
USE thz range

**TERATOGEN SCREENING**

*INIS: 2000-04-12; ETDE: 1981-12-14*  
UF screening (teratogen)  
RT mutagen screening  
RT teratogenesis  
RT teratogens  
RT testing

**TERATOGENESIS**

RT biological radiation effects  
RT congenital malformations  
RT growth  
RT teratogen screening  
RT teratogens

**TERATOGENS**

*INIS: 1983-09-06; ETDE: 1980-08-25*  
RT carcinogens  
RT congenital malformations  
RT drugs  
RT fetuses  
RT genetic effects  
RT ionizing radiations  
RT mutagens  
RT neonates  
RT teratogen screening  
RT teratogenesis

**TERAWATT POWER RANGE**

*INIS: 1988-04-15; ETDE: 1989-09-18*  
BT1 power range  
NT1 power range 01-10 tw  
NT1 power range 10-100 tw  
NT1 power range 100-1000 tw

**TERBIUM**

\*BT1 rare earths

**TERBIUM 139**

*INIS: 1999-12-23; ETDE: 2000-07-14*  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 terbium isotopes

**TERBIUM 140**

*INIS: 1987-02-25; ETDE: 1987-05-01*  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 terbium isotopes

**TERBIUM 141**

*INIS: 1988-04-15; ETDE: 1988-05-23*  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 terbium isotopes

**TERBIUM 143**

1985-06-07  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes

\*BT1 terbium isotopes

**TERBIUM 144**

*INIS: 1982-06-09; ETDE: 1982-03-10*  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 terbium isotopes

**TERBIUM 145**

*INIS: 1982-06-09; ETDE: 1982-03-29*  
\*BT1 beta-plus decay radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 terbium isotopes

**TERBIUM 146**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 milliseconds living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 terbium isotopes

**TERBIUM 147**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

**TERBIUM 148**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

**TERBIUM 149**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

**TERBIUM 150**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

**TERBIUM 151**

\*BT1 alpha decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 terbium isotopes

**TERBIUM 152**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes

\*BT1 hours living radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 minutes living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

**TERBIUM 153**

\*BT1 beta-plus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

**TERBIUM 154**

\*BT1 beta-plus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

**TERBIUM 155**

\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

**TERBIUM 156**

\*BT1 beta-minus decay radioisotopes  
\*BT1 beta-plus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 hours living radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

**TERBIUM 157**

\*BT1 electron capture radioisotopes  
\*BT1 internal conversion radioisotopes  
\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes  
\*BT1 years living radioisotopes

**TERBIUM 158**

\*BT1 beta-minus decay radioisotopes  
\*BT1 electron capture radioisotopes  
\*BT1 internal conversion radioisotopes  
\*BT1 isomeric transition isotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 terbium isotopes  
\*BT1 years living radioisotopes

**TERBIUM 159**

\*BT1 odd-even nuclei  
\*BT1 rare earth nuclei  
\*BT1 stable isotopes  
\*BT1 terbium isotopes

**TERBIUM 159 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TERBIUM 160**

\*BT1 beta-minus decay radioisotopes  
\*BT1 days living radioisotopes  
\*BT1 odd-odd nuclei  
\*BT1 rare earth nuclei  
\*BT1 terbium isotopes

**TERBIUM 160 TARGET**

*INIS: 1979-04-27; ETDE: 1979-05-25*  
BT1 targets

**TERBIUM 161**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM 162**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM 163**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM 164**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM 165**

*INIS: 1986-04-28; ETDE: 1986-07-03*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 terbium isotopes

**TERBIUM 166**

*1996-11-27*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 terbium isotopes

**TERBIUM ADDITIONS**

*Alloys containing not more than 1% Tb are listed here.*

- \*BT1 rare earth additions
- \*BT1 terbium alloys

**TERBIUM ALLOYS**

*Alloys containing more than 1% Tb.*

- \*BT1 rare earth alloys
- NT1 terbium additions
- NT1 terbium base alloys

**terbium arsenides**

*INIS: 1996-07-08; ETDE: 1976-09-14*

*(Until June 1996 this was a valid descriptor.)*

- USE arsenides
- USE terbium compounds

**TERBIUM BASE ALLOYS**

- \*BT1 terbium alloys

**TERBIUM BORIDES**

- \*BT1 borides
- \*BT1 terbium compounds

**TERBIUM BROMIDES**

- \*BT1 bromides
- \*BT1 terbium compounds

**TERBIUM CARBIDES**

- \*BT1 carbides
- \*BT1 terbium compounds

**TERBIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 terbium compounds

**TERBIUM CHLORIDES**

- \*BT1 chlorides

- \*BT1 terbium compounds

**TERBIUM COMPLEXES**

- \*BT1 rare earth complexes

**TERBIUM COMPOUNDS**

*1996-07-08*

- UF *terbium arsenides*
- BT1 rare earth compounds
- NT1 terbium borides
- NT1 terbium bromides
- NT1 terbium carbides
- NT1 terbium carbonates
- NT1 terbium chlorides
- NT1 terbium fluorides
- NT1 terbium hydrides
- NT1 terbium hydroxides
- NT1 terbium iodides
- NT1 terbium nitrates
- NT1 terbium nitrides
- NT1 terbium oxides
- NT1 terbium perchlorates
- NT1 terbium phosphates
- NT1 terbium phosphides
- NT1 terbium selenides
- NT1 terbium silicides
- NT1 terbium sulfates
- NT1 terbium sulfides
- NT1 terbium tellurides

**TERBIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 terbium compounds

**TERBIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 terbium compounds

**TERBIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 terbium compounds

**TERBIUM IODIDES**

- \*BT1 iodides
- \*BT1 terbium compounds

**TERBIUM IONS**

- \*BT1 ions

**TERBIUM ISOTOPES**

- BT1 isotopes
- NT1 terbium 139
- NT1 terbium 140
- NT1 terbium 141
- NT1 terbium 143
- NT1 terbium 144
- NT1 terbium 145
- NT1 terbium 146
- NT1 terbium 147
- NT1 terbium 148
- NT1 terbium 149
- NT1 terbium 150
- NT1 terbium 151
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- NT1 terbium 158
- NT1 terbium 159
- NT1 terbium 160
- NT1 terbium 161
- NT1 terbium 162
- NT1 terbium 163
- NT1 terbium 164
- NT1 terbium 165
- NT1 terbium 166

**TERBIUM NITRATES**

- \*BT1 nitrates
- \*BT1 terbium compounds

**TERBIUM NITRIDES**

- \*BT1 nitrides
- \*BT1 terbium compounds

**TERBIUM OXIDES**

- \*BT1 oxides
- \*BT1 terbium compounds

**TERBIUM PERCHLORATES**

- \*BT1 perchlorates
- \*BT1 terbium compounds

**TERBIUM PHOSPHATES**

- \*BT1 phosphates
- \*BT1 terbium compounds

**TERBIUM PHOSPHIDES**

*INIS: 1977-01-25; ETDE: 1976-08-04*

- \*BT1 phosphides
- \*BT1 terbium compounds

**TERBIUM SELENIDES**

*INIS: 1985-03-15; ETDE: 1978-09-13*

- \*BT1 selenides
- \*BT1 terbium compounds

**TERBIUM SILICIDES**

- \*BT1 silicides
- \*BT1 terbium compounds

**TERBIUM SULFATES**

- \*BT1 sulfates
- \*BT1 terbium compounds

**TERBIUM SULFIDES**

- \*BT1 sulfides
- \*BT1 terbium compounds

**TERBIUM TELLURIDES**

*INIS: 1978-02-23; ETDE: 1977-10-20*

- \*BT1 tellurides
- \*BT1 terbium compounds

**TEREPHTHALIC ACID**

UF *benzenedicarboxylic acid-para*

- \*BT1 dicarboxylic acids

RT *dacron*

**TERMINAL FACILITIES**

*INIS: 1999-03-16; ETDE: 1977-03-04*

UF *facilities (terminal)*

- NT1 deep water oil terminals
- RT energy facilities
- RT liquefied natural gas
- RT maintenance facilities
- RT storage facilities

**TERNARY ALLOY SYSTEMS**

- BT1 alloy systems

**TERNARY FISSION**

- \*BT1 fission

**TERNE-METAL**

*2000-04-12*

- \*BT1 antimony alloys
- \*BT1 lead base alloys
- \*BT1 tin alloys

**TERPENES**

*1996-10-23*

UF *camphene*

UF *geraniol*

- BT1 organic compounds

- NT1 *camphor*
- NT1 *carotenoids*
- NT1 *squalene*
- NT1 *turpentine*

RT *oils*

**terphenyl-meta**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE terphenyls

**TERPHENYL-ORTHO**

\*BT1 terphenyls

**TERPHENYL-PARA**

\*BT1 terphenyls

**TERPHENYLS**

1996-10-23

(Prior to March 1997 TERPHENYL-META was a valid ETDE descriptor.)

UF terphenyl-meta

\*BT1 polyphenyls

NT1 terphenyl-ortho

NT1 terphenyl-para

RT liquid scintillators

RT plastic scintillators

**terramycin**

USE oxytetracycline

**terrestrial background**

USE background radiation

**TERRESTRIAL ECOSYSTEMS**

2000-05-24

BT1 ecosystems

NT1 rangelands

NT1 savannas

NT1 swamps

RT arid lands

RT deserts

RT forests

RT islands

RT land resources

RT soils

RT tundra

**territorial seas**

INIS: 1976-12-08; ETDE: 2002-06-13

USE territorial waters

**TERRITORIAL WATERS**

1999-10-21

*Waters under the sovereign jurisdiction of a nation or state including both marginal sea and inland waters.*

UF territorial seas

BT1 surface waters

RT coastal waters

RT continental shelf

RT fishery laws

RT government policies

RT high seas

RT inland waterways

RT maritime laws

RT nuclear ship visits

RT seas

**terrorism**

INIS: 2000-04-12; ETDE: 1987-05-06

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE proliferation

SEE sabotage

SEE security

SEE vulnerability

**TERTIARY PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19

UF neogene period

UF oligocene epoch

UF paleocene epoch

UF paleogene period

\*BT1 cenozoic era

NT1 eocene epoch

NT1 miocene epoch

NT1 pliocene epoch

**tertiary recovery**

INIS: 1991-10-22; ETDE: 1976-02-23

USE enhanced recovery

**terylene**

USE dacron

**tesi devices**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

USE pinch devices

**TESLA LINEAR COLLIDER**

INIS: 2005-10-27; ETDE: 2002-09-17

*TeV Energy Superconducting Linear Accelerator.*

\*BT1 linear colliders

**TEST FACILITIES**

1997-06-17

*Facilities to test the technical feasibility of a conceptor to provide the technical basis for similar facilities in larger sizes.*

UF facilities (test)

UF international fusion superconducting magnet test facility

UF liquid metal test facilities

NT1 advanced components test facility

NT1 central receiver test facility

NT1 cnrs solar facility

NT1 felix facility

NT1 msstf

NT1 test reactors

NT2 aipfr reactor

NT2 arbus reactor

NT2 astr reactor

NT2 astra reactor

NT2 atrp reactor

NT2 atr reactor

NT2 barn reactor

NT2 bawtr reactor

NT2 bgrr reactor

NT2 borax-5 reactor

NT2 br-02 reactor

NT2 brt reactor

NT2 cesnef reactor

NT2 cirus reactor

NT2 cp-5 reactor

NT2 dhruva reactor

NT2 dimple reactor

NT2 diorit reactor

NT2 ebor reactor

NT2 ebr-1 reactor

NT2 eco reactor

NT2 eocr reactor

NT2 esada-vesr reactor

NT2 essor reactor

NT2 etr reactor

NT2 etrc reactor

NT2 ffff reactor

NT2 fir-1 reactor

NT2 fmr reactor

NT2 fnr reactor

NT2 fr-2 reactor

NT2 frocf reactor

NT2 frg-1 reactor

NT2 frm reactor

NT2 getr reactor

NT2 grenoble reactor

NT2 gtr reactor

NT2 gtrr reactor

NT2 hanaro reactor

NT2 harmonie reactor

NT2 herald reactor

NT2 hero reactor

NT2 hew-305 reactor

NT2 hfir reactor

NT2 hifar reactor

NT2 hre-2 reactor

NT2 hltr reactor

NT2 htr-10 reactor

NT2 irl reactor

NT2 irr-1 reactor

NT2 irt-2000 djakarta reactor

NT2 irt-2000 moscow reactor

NT2 irt-baghdad reactor

NT2 ispra-1 reactor

NT2 jmtr reactor

NT2 kalpakkam lmfr reactor

NT2 loft reactor

NT2 mzf reactor

NT2 netr reactor

NT2 nru reactor

NT2 ntr reactor

NT2 orphee reactor

NT2 ovr reactor

NT2 pat reactor

NT2 pegase reactor

NT2 proteus reactor

NT2 ra-3 reactor

NT2 ra-4 reactor

NT2 ra-5 reactor

NT2 ra-6 reactor

NT2 ra-8 reactor

NT2 rapsodie reactor

NT2 rts-1 reactor

NT2 slc prototype reactor

NT2 safari-1 reactor

NT2 sbr-5 reactor

NT2 snaptran reactors

NT2 stf reactor

NT2 tapiro reactor

NT2 tory-2a reactor

NT2 tory-2c reactor

NT2 treat reactor

NT2 triga-1-michigan reactor

NT2 triga-2-pavia reactor

NT2 tsr-1 reactor

NT2 tsr-2 reactor

NT2 urr reactor

NT2 uvar reactor

NT2 viper reactor

NT2 wr-1 reactor

NT2 wtr reactor

NT1 tonopah test range

NT1 tritium systems test assembly

NT1 white sands solar facility

RT distributed structures

RT laboratory equipment

RT mockup

RT nuclear facilities

RT sttfua

RT testing

**test fast breeder reactor kalpakkam**

1993-11-10

USE kalpakkam lmfr reactor

**TEST PARTICLES**

RT charged particles

**TEST REACTORS**

1998-01-29

*A facility to test the technical feasibility of a conceptor to provide the technical basis for a similar facility in a larger size.*

\*BT1 research and test reactors

BT1 test facilities

NT1 aipfr reactor

NT1 arbus reactor

NT1 astr reactor

NT1 astra reactor

NT1 atrp reactor

NT1 atr reactor

NT1 barn reactor

NT1 bawtr reactor

NT1 bgrr reactor  
 NT1 borax-5 reactor  
 NT1 br-02 reactor  
 NT1 brr reactor  
 NT1 cesnef reactor  
 NT1 cirus reactor  
 NT1 cp-5 reactor  
 NT1 dhruva reactor  
 NT1 dimple reactor  
 NT1 diorit reactor  
 NT1 ebor reactor  
 NT1 ebr-1 reactor  
 NT1 eco reactor  
 NT1 eocr reactor  
 NT1 esada-vesr reactor  
 NT1 essor reactor  
 NT1 etr reactor  
 NT1 etrc reactor  
 NT1 fftf reactor  
 NT1 fir-1 reactor  
 NT1 fmr reactor  
 NT1 fnr reactor  
 NT1 fr-2 reactor  
 NT1 frctf reactor  
 NT1 frg-1 reactor  
 NT1 frn reactor  
 NT1 getr reactor  
 NT1 grenoble reactor  
 NT1 gtr reactor  
 NT1 gtrr reactor  
 NT1 hanaro reactor  
 NT1 harmonie reactor  
 NT1 herald reactor  
 NT1 hero reactor  
 NT1 hew-305 reactor  
 NT1 hfir reactor  
 NT1 hifar reactor  
 NT1 hre-2 reactor  
 NT1 htlt reactor  
 NT1 htr-10 reactor  
 NT1 irl reactor  
 NT1 irr-1 reactor  
 NT1 irt-2000 djakarta reactor  
 NT1 irt-2000 moscow reactor  
 NT1 irt-baghdad reactor  
 NT1 ispra-1 reactor  
 NT1 jmtr reactor  
 NT1 kalpakkam lmfr reactor  
 NT1 loft reactor  
 NT1 mzfr reactor  
 NT1 netr reactor  
 NT1 nru reactor  
 NT1 ntr reactor  
 NT1 orphee reactor  
 NT1 ovr reactor  
 NT1 pat reactor  
 NT1 pegase reactor  
 NT1 proteus reactor  
 NT1 ra-3 reactor  
 NT1 ra-4 reactor  
 NT1 ra-5 reactor  
 NT1 ra-6 reactor  
 NT1 ra-8 reactor  
 NT1 rapsodie reactor  
 NT1 rts-1 reactor  
 NT1 slc prototype reactor  
 NT1 safari-1 reactor  
 NT1 sbr-5 reactor  
 NT1 snaptran reactors  
 NT1 stf reactor  
 NT1 tapiro reactor  
 NT1 tory-2a reactor  
 NT1 tory-2c reactor  
 NT1 treat reactor  
 NT1 triga-1-michigan reactor  
 NT1 triga-2-pavia reactor  
 NT1 tsr-1 reactor  
 NT1 tsr-2 reactor  
 NT1 urr reactor

NT1 uvar reactor  
 NT1 viper reactor  
 NT1 wr-1 reactor  
 NT1 wtr reactor

**test wells**

INIS: 2000-04-12; ETDE: 1979-01-30  
 USE exploratory wells

**TESTES**

BT1 gonads  
 \*BT1 male genitals  
 RT androgens  
 RT spermatogenesis

**TESTING**

1995-04-09  
 Subjection to specific planned procedures  
 calculated to reveal any deficiencies.

NT1 clinical trials  
 NT1 drill stem testing  
 NT1 field tests  
 NT1 flight testing  
 NT1 frequency response testing  
 NT1 leak testing  
 NT1 materials testing  
 NT2 destructive testing  
 NT3 charpy test  
 NT2 mechanical tests  
 NT3 impact tests  
 NT4 charpy test  
 NT2 nondestructive testing  
 NT3 acoustic testing  
 NT4 acoustic emission testing  
 NT4 ultrasonic testing  
 NT3 electrical testing  
 NT3 electromagnetic testing  
 NT4 eddy current testing  
 NT3 industrial radiography  
 NT4 beta radiography  
 NT4 gamma radiography  
 NT5 gamma fuel scanning  
 NT4 neutron radiography  
 NT4 proton radiography  
 NT4 x-ray radiography  
 NT3 liquid penetrant inspection  
 NT3 magnetic testing  
 NT3 radiation attenuation testing  
 NT3 thermal testing  
 NT4 frost tests

NT1 performance testing  
 NT1 road tests  
 NT1 validation  
 RT bench-scale experiments  
 RT carcinogen screening  
 RT certification  
 RT evaluation  
 RT feasibility studies  
 RT inspection  
 RT mutagen screening  
 RT sampling  
 RT teratogen screening  
 RT test facilities

**testing (biological)**

USE bioassay

**testing (materials)**

2000-04-12  
 USE materials testing

**TESTOSTERONE**

\*BT1 androgens  
 \*BT1 hydroxy compounds  
 \*BT1 ketones

**TETA**

UF triethylenetetramine  
 \*BT1 amines

**TETAHA**

Triethylenetetraaminehexaacetic acid.  
 UF triethylenetetraaminehexaacetic acid  
 \*BT1 amino acids  
 BT1 chelating agents

**TETANUS**

\*BT1 bacterial diseases

**TETRACENE**

\*BT1 condensed aromatics  
 \*BT1 hydrocarbons

**tetrachlorobenzoquinone**

USE chloranil

**tetrachloromethane**

1985-07-22  
 (Prior to August 1985 this was a valid  
 descriptor.)  
 USE carbon tetrachloride

**TETRACYCLINES**

1996-10-22  
 (Prior to March 1997  
 CHLORTETRACYCLINE was a valid ETDE  
 descriptor.)  
 UF chlortetracycline  
 \*BT1 antibiotics  
 NT1 oxytetracycline

**TETRADECANOIC ACID**

UF myristic acid  
 \*BT1 monocarboxylic acids

**TETRAETHYL LEAD**

ETDE: 2005-02-01  
 (Prior to January 2005 TEL was used for this  
 concept.)  
 UF tel (tetraethyl lead)  
 BT1 lead compounds  
 \*BT1 organometallic compounds  
 RT fuel additives

**tetraethylammonium bromide**

1996-10-23  
 (Prior to March 1997 TEAB was used for this  
 concept in ETDE.)  
 USE bromides  
 USE quaternary compounds

**tetrafluoromethane**

INIS: 1985-07-22; ETDE: 1976-08-24  
 (Prior to August 1985 this was a valid  
 descriptor.)  
 USE carbon tetrafluoride

**TETRAGONAL LATTICES**

\*BT1 crystal lattices

**TETRAHYDROFURAN**

INIS: 2000-04-04; ETDE: 1979-11-23  
 UF thf  
 \*BT1 furans  
 NT1 mthf

**tetrahydronaphthalene**

USE tetralin

**TETRAHYDROPYRAN**

\*BT1 pyrans  
 RT ethers

**tetrahydropyrroles**

USE pyrrolidines

**tetrahydroxybutane**

USE erythritol

**TETRAHYMENA**

\*BT1 ciliata

**TETRALIN**

UF tetrahydronaphthalene

- \*BT1 aromatics
- \*BT1 hydroaromatics
- \*BT1 hydrocarbons
- RT naphthalene

**tetramethyl-4-piperidone-n-oxyl**

2000-04-12

- USE triacetoneamine-n-oxyl

**tetramethylenediamine**

- USE putrescine

**tetramethylethylene glycol**

- USE pinacol

**tetramethyltetraselenafulvalene**

INIS: 1983-10-14; ETDE: 1983-04-07

- USE tmtsf

**TETRANEUTRONS***Bound state of four neutrons.*

- \*BT1 polyneutrons

**tetraphenylethylene glycol**

2000-04-12

(Prior to February 1996 BENZOPINACOL was used for this concept in ETDE.)

- USE glycols

**tetraploidy**

- USE polyploidy

**TETRATHIAFULVALENE**

INIS: 2000-03-29; ETDE: 2005-02-01

(Prior to January 2005 TTF was used for this concept.)

UF *tjf (tetrathiafulvalene)*

- \*BT1 heterocyclic compounds
- \*BT1 organic sulfur compounds

**tetrathiafulvalene****tetracyanoquinodimethane**

INIS: 2000-05-02; ETDE: 1975-10-01

- USE ttf-tnq

**TETRAZOLES***Compounds that contain a five-membered heterocyclic ring containing four nitrogen atoms.*

- \*BT1 azoles
- NT1 tetrazolium

**TETRAZOLIUM**

- \*BT1 chlorides
- \*BT1 tetrazoles

**TETRYL**

2000-04-12

- \*BT1 amines
- \*BT1 chemical explosives
- \*BT1 nitro compounds

**TEV RANGE***From 10 exp 12 to 10 exp 15 eV.*

- BT1 energy range
- NT1 tev range 01-10
- NT1 tev range 10-100
- NT1 tev range 100-1000

**TEV RANGE 01-10**

INIS: 1977-10-17; ETDE: 1977-11-10

- \*BT1 tev range

**TEV RANGE 10-100**

INIS: 1977-10-17; ETDE: 1977-11-10

- \*BT1 tev range

**TEV RANGE 100-1000**

INIS: 1977-10-17; ETDE: 1977-11-10

- \*BT1 tev range

**tevatron**INIS: 2000-04-12; ETDE: 1983-09-15  
(Prior to July 1985 this was a valid ETDE descriptor.)

- USE fermilab tevatron

**tevatron (fermilab)**

INIS: 1984-02-22; ETDE: 2002-06-13

- USE fermilab tevatron

**tewa event**INIS: 1994-10-14; ETDE: 1984-05-23  
*A test made during PROJECT REDWING. (Prior to September 1994, this was a valid ETDE descriptor.)*

- USE atmospheric explosions
- USE nuclear explosions

**TEXACO GASIFICATION PROCESS**

INIS: 1992-07-21; ETDE: 1977-05-07

*Coal, or any carbonaceous fuel, and oxygen are reacted in carbon monoxide and hydrogen at temperatures of 1200-2200 degrees F and pressures of 300-4500 psi. Steam may be used optionally. Hydrogen and carbon monoxide are recycled to the reactor to optimize methane yield. The high-btu off gas is suitable for upgrading to pipeline quality.*

- \*BT1 coal gasification

**TEXAS**

1997-06-19

- \*BT1 usa
- RT brazos river
- RT dalhart basin
- RT galveston bay
- RT matagorda bay
- RT palo duro basin
- RT pantex plant
- RT permian basin
- RT rio grande river
- RT san antonio bay
- RT us gulf coast
- RT uvalde deposit

**TEXAS A AND M CYCLOTRON**UF *texas a and m variable energy cyclotron*

- \*BT1 isochronous cyclotrons

**texas a and m k500 cyclotron**

INIS: 1990-12-15; ETDE: 2002-06-13

(Prior to December 1990, this was a valid descriptor.)

- USE texas superconducting cyclotron

**texas a and m variable energy cyclotron**

INIS: 1993-11-10; ETDE: 2002-06-13

- USE texas a and m cyclotron

**texas college station training reactor**

1993-11-10

- USE nscr reactor

**texas experimental tokamak**

INIS: 1978-07-17; ETDE: 1978-03-08

- USE text devices

**TEXAS SUPERCONDUCTING CYCLOTRON**

INIS: 1990-12-15; ETDE: 1983-03-24

(Prior to December 1990, this concept was indexed by TEXASA AND M K500 CYCLOTRON.)

- UF *texas a and m k500 cyclotron*
- \*BT1 heavy ion accelerators
- \*BT1 isochronous cyclotrons
- \*BT1 superconducting cyclotrons

**texas university triga reactor**

INIS: 1984-06-21; ETDE: 2002-06-13

- USE triga-texas reactor

**TEXT DEVICES**

INIS: 1978-07-17; ETDE: 1978-03-08

*Text is intended for diagnostic development and basic physics experiments including rf heating.*UF *texas experimental tokamak*

- \*BT1 tokamak devices

**text editors**

INIS: 2000-04-12; ETDE: 1978-06-14

*Means, often computer codes, to create or modify any sort of text, report, or computer code. Use the descriptor below and/or MODIFICATIONS, as appropriate.*

(Prior to May 1996 this was a valid ETDE descriptor.)

- SEE computer codes

**TEXTILE INDUSTRY**

INIS: 1998-10-13; ETDE: 1977-06-24

- BT1 industry
- RT textiles

**TEXTILES**

- RT clothing
- RT cotton
- RT dacron
- RT fibers
- RT jute
- RT rayon
- RT textile industry
- RT wool

**TEXTOLITE**

- \*BT1 organic polymers

**TEXTOR TOKAMAK**

INIS: 1977-09-15; ETDE: 1977-11-10

*Torus EXperiment for Technology Oriented Research.*UF *torus experiment for technology oriented research*

- \*BT1 tokamak devices

**TEXTURE**

- RT crystal structure
- RT grain orientation
- RT schulz method

**TFCX REACTORS**

INIS: 1994-04-11; ETDE: 1984-10-24

UF *tokamak fusion core experiment*

- \*BT1 tokamak type reactors

**TFR TOKAMAK**UF *tokamak fontenay-aux-roses*

- \*BT1 tokamak devices

**tfr device**

INIS: 1985-07-22; ETDE: 1979-05-03

(Prior to August 1985 this was a valid descriptor.)

- USE tfr tokamak

**tfr reactors**

INIS: 2000-04-12; ETDE: 1978-04-06

(Prior to July 1985 this was a valid ETDE descriptor.)

- USE tfr tokamak

**TFTR TOKAMAK**

1985-07-22

(Prior to August 1985 TFTR DEVICE was used.)

- UF *tfr device*
- UF *tfr reactors*
- UF *tokamak fusion test reactor*
- \*BT1 tokamak devices



**THAI ORGANIZATIONS**

2004-03-31

BT1 national organizations

**thai research reactor-1**

USE trr-1 reactor

**THAILAND**

BT1 asia

BT1 developing countries

**THALAMUS**

\*BT1 brain

RT ganglions

**THALASSEMIA**

\*BT1 anemias

**THALLIUM**

\*BT1 metals

**THALLIUM 179**

INIS: 1983-09-01; ETDE: 1983-08-25

\*BT1 alpha decay radioisotopes

\*BT1 intermediate mass nuclei

\*BT1 isomeric transition isotopes

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 thallium isotopes

**THALLIUM 182**

INIS: 1986-07-09; ETDE: 1981-09-08

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 heavy nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 thallium isotopes

**THALLIUM 183**

INIS: 1992-09-23; ETDE: 1981-09-22

\*BT1 alpha decay radioisotopes

\*BT1 heavy nuclei

\*BT1 milliseconds living radioisotopes

\*BT1 odd-even nuclei

\*BT1 thallium isotopes

**THALLIUM 184**

1977-01-25

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 thallium isotopes

**THALLIUM 185**

INIS: 1977-01-25; ETDE: 1977-04-13

\*BT1 alpha decay radioisotopes

\*BT1 heavy nuclei

\*BT1 isomeric transition isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 thallium isotopes

**THALLIUM 186**

\*BT1 alpha decay radioisotopes

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 isomeric transition isotopes

\*BT1 odd-odd nuclei

\*BT1 seconds living radioisotopes

\*BT1 thallium isotopes

**THALLIUM 187**

\*BT1 alpha decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 isomeric transition isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 thallium isotopes

**THALLIUM 188**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 thallium isotopes

**THALLIUM 189**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 thallium isotopes

**THALLIUM 190**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 thallium isotopes

**THALLIUM 191**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 thallium isotopes

**THALLIUM 192**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 thallium isotopes

**THALLIUM 193**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 isomeric transition isotopes

\*BT1 minutes living radioisotopes

\*BT1 odd-even nuclei

\*BT1 thallium isotopes

**THALLIUM 194**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 minutes living radioisotopes

\*BT1 odd-odd nuclei

\*BT1 thallium isotopes

**THALLIUM 195**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 hours living radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 thallium isotopes

**THALLIUM 196**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 hours living radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 odd-odd nuclei

\*BT1 thallium isotopes

**THALLIUM 197**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 hours living radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 odd-even nuclei

\*BT1 seconds living radioisotopes

\*BT1 thallium isotopes

**THALLIUM 198**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 hours living radioisotopes

\*BT1 internal conversion radioisotopes

\*BT1 isomeric transition isotopes

\*BT1 odd-odd nuclei

\*BT1 thallium isotopes

**THALLIUM 199**

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 hours living radioisotopes

\*BT1 odd-even nuclei

\*BT1 thallium isotopes

**THALLIUM 200**

\*BT1 beta-plus decay radioisotopes

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 odd-odd nuclei

\*BT1 thallium isotopes

**THALLIUM 201**

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 isomeric transition isotopes

\*BT1 odd-even nuclei

\*BT1 thallium isotopes

**THALLIUM 202**

\*BT1 days living radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 odd-odd nuclei

\*BT1 thallium isotopes

**THALLIUM 203**

\*BT1 heavy nuclei

\*BT1 odd-even nuclei

\*BT1 stable isotopes

\*BT1 thallium isotopes

**THALLIUM 203 TARGET**

ETDE: 1976-07-09

BT1 targets

**THALLIUM 204**

\*BT1 beta-minus decay radioisotopes

\*BT1 electron capture radioisotopes

\*BT1 heavy nuclei

\*BT1 odd-odd nuclei

\*BT1 thallium isotopes

\*BT1 years living radioisotopes

**THALLIUM 205**

\*BT1 heavy nuclei

\*BT1 odd-even nuclei

\*BT1 stable isotopes

\*BT1 thallium isotopes

**THALLIUM 205 REACTIONS**

INIS: 1978-04-21; ETDE: 1978-07-06

\*BT1 heavy ion reactions

**THALLIUM 205 TARGET**

ETDE: 1976-07-09

BT1 targets

**THALLIUM 206**

UF radium e//

\*BT1 beta-minus decay radioisotopes

\*BT1 heavy nuclei

\*BT1 isomeric transition isotopes

- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 thallium isotopes

**THALLIUM 207**

- UF actinium c//*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 heavy nuclei
  - \*BT1 isomeric transition isotopes
  - \*BT1 minutes living radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 seconds living radioisotopes
  - \*BT1 thallium isotopes

**THALLIUM 207 TARGET**

1980-05-14

- BT1 targets

**THALLIUM 208**

- UF thorium c//*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 heavy nuclei
  - \*BT1 minutes living radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 thallium isotopes

**THALLIUM 209**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 thallium isotopes

**THALLIUM 209 TARGET**

INIS: 1984-06-21; ETDE: 1984-07-10

- BT1 targets

**THALLIUM 210**

- UF radium c//*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 heavy nuclei
  - \*BT1 minutes living radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 thallium isotopes

**THALLIUM ADDITIONS**

*Alloys containing not more than 1% Tl are listed here.*

- \*BT1 thallium alloys

**THALLIUM ALLOYS**

*Alloys containing more than 1% Tl.*

- BT1 alloys
- NT1 thallium additions
- NT1 thallium base alloys

**THALLIUM BASE ALLOYS**

- \*BT1 thallium alloys

**THALLIUM BROMIDES**

- \*BT1 bromides
- \*BT1 thallium halides

**THALLIUM CARBIDES**

INIS: 1977-09-06; ETDE: 1975-12-16

- \*BT1 carbides
- BT1 thallium compounds

**THALLIUM CARBONATES**

INIS: 1977-01-25; ETDE: 1977-10-20

- \*BT1 carbonates
- BT1 thallium compounds

**THALLIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 thallium halides

**THALLIUM COMPLEXES**

- BT1 complexes

**THALLIUM COMPOUNDS**

1997-06-19

- UF thallium hydroxides*  
*UF thallium perchlorates*

- UF thallium uranates*
- NT1 thallium carbides
  - NT1 thallium carbonates
  - NT1 thallium halides
  - NT2 thallium bromides
  - NT2 thallium chlorides
  - NT2 thallium fluorides
  - NT2 thallium iodides
  - NT1 thallium hydrides
  - NT1 thallium nitrates
  - NT1 thallium oxides
  - NT1 thallium phosphates
  - NT1 thallium selenides
  - NT1 thallium sulfates
  - NT1 thallium sulfides
  - NT1 thallium tellurides
  - NT1 thallium tungstates

**THALLIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 thallium halides

**THALLIUM HALIDES**

INIS: 1985-01-17; ETDE: 1976-05-13

- \*BT1 halides
- BT1 thallium compounds
- NT1 thallium bromides
- NT1 thallium chlorides
- NT1 thallium fluorides
- NT1 thallium iodides

**THALLIUM HYDRIDES**

INIS: 1981-06-19; ETDE: 1980-08-12

- \*BT1 hydrides
- BT1 thallium compounds

**thallium hydroxides**

1996-07-08

(Until June 1996 this was a valid descriptor.)

- USE hydroxides
- USE thallium compounds

**THALLIUM IODIDES**

- \*BT1 iodides
- \*BT1 thallium halides

**THALLIUM IONS**

- \*BT1 ions

**THALLIUM ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 thallium 179
- NT1 thallium 182
- NT1 thallium 183
- NT1 thallium 184
- NT1 thallium 185
- NT1 thallium 186
- NT1 thallium 187
- NT1 thallium 188
- NT1 thallium 189
- NT1 thallium 190
- NT1 thallium 191
- NT1 thallium 192
- NT1 thallium 193
- NT1 thallium 194
- NT1 thallium 195
- NT1 thallium 196
- NT1 thallium 197
- NT1 thallium 198
- NT1 thallium 199
- NT1 thallium 200
- NT1 thallium 201
- NT1 thallium 202
- NT1 thallium 203
- NT1 thallium 204
- NT1 thallium 205
- NT1 thallium 206
- NT1 thallium 207
- NT1 thallium 208
- NT1 thallium 209

- NT1 thallium 210

**THALLIUM NITRATES**

- \*BT1 nitrates
- BT1 thallium compounds

**THALLIUM OXIDES**

- \*BT1 oxides
- BT1 thallium compounds

**thallium perchlorates**

1996-07-23

(Until July 1996 this was a valid descriptor.)

- USE perchlorates
- USE thallium compounds

**THALLIUM PHOSPHATES**

INIS: 1979-01-18; ETDE: 1979-02-23

- \*BT1 phosphates
- BT1 thallium compounds

**THALLIUM SELENIDES**

INIS: 1980-09-12; ETDE: 1975-08-19

- \*BT1 selenides
- BT1 thallium compounds

**THALLIUM SULFATES**

- \*BT1 sulfates
- BT1 thallium compounds

**THALLIUM SULFIDES**

- \*BT1 sulfides
- BT1 thallium compounds

**THALLIUM TELLURIDES**

INIS: 1979-09-18; ETDE: 1975-11-28

- \*BT1 tellurides
- BT1 thallium compounds

**THALLIUM TUNGSTATES**

INIS: 2000-04-12; ETDE: 1976-11-17

- BT1 thallium compounds
- \*BT1 tungstates

**thallium uranates**

1996-07-23

(Until July 1996 this was a valid descriptor.)

- USE thallium compounds
- USE uranates

**THAMES RIVER**

INIS: 1976-02-11; ETDE: 1976-04-19

- \*BT1 rivers

**THAWING**

INIS: 2000-04-12; ETDE: 1976-03-11

*Process of bringing a frozen material to an unfrozen state.*

- BT1 phase transformations
- RT cryobiology
- RT defrosting
- RT freezing
- RT melting

**THE FORMER YUGOSLAV****REPUBLIC OF MACEDONIA**

INIS: 1997-06-05; ETDE: 1998-04-10

*UF former yugoslav republic of macedonia*

*UF macedonia (the former yugoslav republic of)*

*UF yugoslavia (macedonia)*

*SF yugoslavia*

- BT1 developing countries

- \*BT1 eastern europe

**the geysers**

1992-06-04

- USE geysers geothermal field

**the next step device**

INIS: 2000-04-12; ETDE: 1978-03-03

- USE tns reactors

**the next step thermonuclear reactor**

INIS: 1993-11-10; ETDE: 2002-06-13

USE tns reactors

**THEBAINE**

1996-07-08

\*BT1 morphine

**THEFT**

INIS: 1993-02-18; ETDE: 1976-02-19

UF embezzlement

BT1 crime

RT physical protection devices

RT sabotage

RT security

RT vulnerability

**thematic mapping**

INIS: 2000-04-12; ETDE: 1991-02-22

USE multispectral photography

**thenoyltrifluoroacetone**

USE tta

**theobroma**

1977-04-07

USE cacao trees

**THEOBROMINE**

UF 3,7-dimethylxanthine

\*BT1 diuretics

\*BT1 vasodilators

\*BT1 xanthes

**THEOPHYLLINE**

UF 1,3-dimethylxanthine

\*BT1 diuretics

\*BT1 vasodilators

\*BT1 xanthes

**THEORETICAL DATA**

INIS: 1996-03-12; ETDE: 1979-02-27

Use only in conjunction with literary indicator  
N for data flagging.

\*BT1 numerical data

**therapeutic agents**

INIS: 1984-05-24; ETDE: 1981-04-20

USE drugs

**THERAPEUTIC USES**

INIS: 1994-01-07; ETDE: 1985-09-24

BT1 uses

RT therapy

**THERAPY**

UF treatment (therapy)

BT1 medicine

NT1 chemotherapy

NT1 combined therapy

NT1 first aid

NT1 gene therapy

NT1 immunotherapy

NT2 radioimmunotherapy

NT1 post-irradiation therapy

NT1 radiotherapy

NT2 afterloading

NT2 brachytherapy

NT2 neutron therapy

NT3 neutron capture therapy

NT2 radioimmunotherapy

NT1 transfusions

RT balneology

RT biological recovery

RT bleomycin

RT castration

RT diet

RT drugs

RT injection

RT patients

RT radioimmunology

RT side effects

RT surgery

RT therapeutic uses

**thermal alteration**

INIS: 2000-07-24; ETDE: 1977-08-09

USE maturation

**THERMAL ANALYSIS**

UF analysis (thermal)

NT1 differential thermal analysis

NT1 dilatometry

NT1 emanation thermal analysis

NT1 thermal gravimetric analysis

RT phase diagrams

RT phase transformations

RT structural chemical analysis

RT thermal expansion

RT thermal hydraulics

**THERMAL BARRIERS**

INIS: 1983-03-16; ETDE: 1982-10-05

Localized depressions of field, particle density  
and potential which reduce thermal-energy  
transfer between plug and central-cell  
electrons in mirror devices.

RT plasma confinement

RT tmr reactors

RT tmx devices

**THERMAL BATTERIES**

2000-04-12

\*BT1 electric batteries

RT electrolytic cells

RT thermoelectric conversion

**THERMAL BOUNDARY****RESISTANCE**Thermal impedance at an interface at ultralow  
temperatures.

NT1 kapitza resistance

RT heat transfer

**THERMAL BRIDGES**

2005-07-05

Pathways, usually undesirable, through which  
heat is transferred much more readily than  
through adjacent materials.

RT building materials

RT heat gain

RT heat losses

RT thermal conduction

RT thermal insulation

**THERMAL COLUMNS**

UF columns (thermal)

UF reactor thermal columns

RT moderators

RT neutron sources

RT thermal neutrons

**THERMAL COMFORT**

INIS: 2000-04-12; ETDE: 1980-12-08

That condition which expresses satisfaction  
with the thermal environment and which is  
measured by such factors as air temperature,  
relative humidity, air velocity, etc.

SF mean radiant temperature

RT architecture

RT environment

RT humidity control

RT microclimates

RT temperature control

**THERMAL CONDUCTION**

Heat transfer by conduction.

UF conduction (thermal)

\*BT1 heat transfer

RT thermal bridges

RT thermal conductivity

RT thermal insulation

**THERMAL CONDUCTIVITY**

UF conductivity (thermal)

\*BT1 thermodynamic properties

RT heat transfer

RT liquid flow

RT matthiessen rule

RT nusselt number

RT righi-leduc effect

RT thermal conduction

RT thermal diffusivity

RT thermoelasticity

RT umklapp processes

RT wiedemann-franz law

**THERMAL CRACKING**

INIS: 1998-01-28; ETDE: 1976-12-15

\*BT1 cracking

RT catalytic cracking

RT hydrocracking

**THERMAL CYCLING**

RT mechanical tests

RT thermal shock

**thermal decay time log**

INIS: 2000-04-12; ETDE: 1979-03-27

USE neutron-gamma logging

**thermal decomposition**

USE pyrolysis

**THERMAL DEGRADATION**

1975-10-09

Impairment of properties caused by exposure  
to heat.

UF degradation (thermal)

UF heat stability

RT chemical properties

RT heating

RT mechanical properties

RT physical properties

RT pyrolysis

**THERMAL DIFFUSION**Phenomenon in which a temperature gradient  
in a mixture of fluids gives rise to a flow of  
one constituent relative to the mixture as a  
whole.

UF thermodiffusion

BT1 diffusion

RT heat transfer

RT isotope separation

RT separation processes

RT thermal diffusivity

**THERMAL DIFFUSIVITY**The quantity of heat passing normally through  
a unit area per unit time divided by the  
product of specific heat, density, and  
temperature gradient.

SF heat dissipation

\*BT1 thermodynamic properties

RT prandtl number

RT thermal conductivity

RT thermal diffusion

RT thermal insulation

**thermal effects**

INIS: 2000-04-12; ETDE: 1975-10-28

USE temperature dependence

**THERMAL EFFICIENCY**

BT1 efficiency

RT heat rate

RT thermodynamics

**THERMAL EFFLUENTS**

UF effluents (thermal)

UF heated effluents

SF emissions (industrial)

SF heat dissipation

RT cold effluents

RT emissions tax  
 RT heat sinks  
 RT thermal pollution  
 RT waste heat

### THERMAL ENERGY STORAGE EQUIPMENT

INIS: 1992-08-20; ETDE: 1975-11-28

UF heat storage devices  
 UF heat storage systems  
 \*BT1 energy storage systems  
 BT1 equipment  
 RT heat storage  
 RT latent heat storage  
 RT peaking power plants  
 RT sensible heat storage  
 RT solar-assisted power systems  
 RT solar equipment  
 RT thermochemical heat storage

### thermal envelope houses

INIS: 1992-08-25; ETDE: 1981-06-13

USE double envelope buildings

### THERMAL EQUILIBRIUM

BT1 equilibrium  
 RT thermodynamic properties

### THERMAL EXPANSION

BT1 expansion  
 RT contraction  
 RT dilatometry  
 RT elongation  
 RT expansion joints  
 RT grueneisen constant  
 RT swelling  
 RT thermal analysis  
 RT thermodynamic properties  
 RT thermoelasticity

### THERMAL FATIGUE

\*BT1 fatigue

### THERMAL FISSION

\*BT1 fission  
 \*BT1 neutron reactions  
 RT thermal neutrons  
 RT watt fission spectrum

### THERMAL FISSION FACTOR

BT1 dimensionless numbers  
 RT fission  
 RT multiplication factors

### THERMAL FRACTURES

INIS: 1995-09-08; ETDE: 1980-07-09

\*BT1 fractures  
 RT cracks  
 RT thermal fracturing  
 RT thermal stresses

### THERMAL FRACTURING

INIS: 2000-04-12; ETDE: 1980-07-09

*The formation or disintegration of a fracture or crack as a result of sudden temperature changes.*

BT1 fracturing  
 RT thermal fractures  
 RT thermal stresses

### thermal gradients

1982-12-01

*Coordinate the descriptor below with the descriptor for the temperature range involved. (Prior to June 1986, the temperature range was coordinated with TEMPERATURE DISTRIBUTION.)*

USE temperature gradients

### THERMAL GRAVIMETRIC ANALYSIS

UF thermogravimetry

UF thermogravimetry  
 \*BT1 gravimetric analysis  
 BT1 thermal analysis  
 RT decomposition

### THERMAL HYDRAULICS

2003-10-21

UF thermohydraulics  
 \*BT1 hydraulics  
 RT flow models  
 RT fluid flow  
 RT temperature dependence  
 RT temperature distribution  
 RT thermal analysis  
 RT thermodynamics

### thermal insulating glass

INIS: 2000-04-12; ETDE: 1983-03-23

USE double glazing

### THERMAL INSULATION

1997-06-17

UF insulation (thermal)  
 UF vacuum insulation panels  
 RT air conditioning  
 RT bead walls  
 RT curtains  
 RT earth berms  
 RT energy conservation  
 RT fire resistance  
 RT heat mirrors  
 RT heat transfer  
 RT mineral wool  
 RT r factors  
 RT shielding  
 RT shutters  
 RT storm doors  
 RT storm windows  
 RT temperature control  
 RT thermal bridges  
 RT thermal conduction  
 RT thermal diffusivity  
 RT thermal shields  
 RT urea-formaldehyde foams  
 RT weatherization  
 RT weatherstripping

### thermal inversion

INIS: 2000-04-12; ETDE: 1980-09-04

USE temperature inversions

### THERMAL MASS

INIS: 2000-04-12; ETDE: 1978-07-05

UF mass (thermal)  
 BT1 mass  
 RT sensible heat storage

### thermal-nelson model

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE mathematical models  
 USE thermal spikes

### THERMAL NEUTRONS

1996-07-08

*Neutrons in thermal equilibrium with the medium in which they exist.*

SF zemach-glauber formalism  
 \*BT1 neutrons  
 RT neutron temperature  
 RT thermal columns  
 RT thermal fission  
 RT watt fission spectrum

### thermal photography

INIS: 1978-07-03; ETDE: 1977-09-19

USE infrared thermography

### THERMAL POLLUTION

*Environmental temperature rise due to waste heat disposal.*

UF pollution (thermal)  
 UF thermal pollution (air)  
 UF thermal pollution (water)  
 BT1 pollution  
 RT environmental effects  
 RT plumes  
 RT thermal effluents  
 RT waste heat

### thermal pollution (air)

USE air pollution  
 USE thermal pollution

### thermal pollution (water)

USE thermal pollution  
 USE water pollution

### THERMAL POWER PLANTS

BT1 power plants  
 NT1 combined-cycle power plants  
 NT2 mhd generator etf  
 NT1 fossil-fuel power plants  
 NT2 kingston steam plant  
 NT2 paradise steam plant  
 NT2 shawnee steam plant  
 NT2 widows creek steam plant  
 NT1 geothermal power plants  
 NT1 nuclear power plants  
 NT2 bopssar standard plant  
 NT2 ebasco standard plant  
 NT2 gibbsar standard plant  
 NT2 offshore nuclear power plants  
 NT2 swessar standard plant  
 NT2 underground nuclear stations  
 NT1 ocean thermal power plants  
 NT1 refuse-fueled power plants  
 NT1 solar thermal power plants  
 NT2 distributed collector power plants  
 NT2 tower focus power plants  
 NT3 barstow solar pilot plant  
 NT1 thermonuclear power plants  
 NT1 wood-fuel power plants  
 RT district heating  
 RT heat rate  
 RT peaking power plants

### thermal properties

USE thermodynamic properties

### THERMAL RADIATION

\*BT1 electromagnetic radiation  
 RT blackbody radiation  
 RT heat transfer  
 RT infrared radiation  
 RT radiant heat transfer  
 RT rosseland approximation  
 RT thermodynamic properties

### THERMAL REACTORS

1996-02-09

BT1 reactors  
 NT1 aeg-pr-10 reactor  
 NT1 aérojet-general nucleonics reactors  
 NT1 afri reactor  
 NT1 agesta reactor  
 NT1 ai-l-77 reactor  
 NT1 akr-1 reactor  
 NT1 alrr reactor  
 NT1 anex reactor  
 NT1 anna reactor  
 NT1 aps reactor  
 NT1 apsara reactor  
 NT1 aquilon reactor  
 NT1 arbi reactor  
 NT1 arbus reactor  
 NT1 argonaut reactor  
 NT1 argos reactor

NT1	argus reactor	NT2	forsmark-3 reactor	NT2	oyster creek-1 reactor
NT1	armf-1 reactor	NT2	fukushima-1 reactor	NT2	pathfinder reactor
NT1	astra reactor	NT2	fukushima-2 reactor	NT2	peach bottom-2 reactor
NT1	athene reactor	NT2	fukushima-3 reactor	NT2	peach bottom-3 reactor
NT1	atpr reactor	NT2	fukushima-4 reactor	NT2	perry-1 reactor
NT1	atr reactor	NT2	fukushima-5 reactor	NT2	perry-2 reactor
NT1	atrc reactor	NT2	fukushima-6 reactor	NT2	philippsburg-1 reactor
NT1	atsr reactor	NT2	fukushima-ii-1 reactor	NT2	phipps bend-1 reactor
NT1	atucha-2 reactor	NT2	fukushima-ii-2 reactor	NT2	phipps bend-2 reactor
NT1	atucha reactor	NT2	fukushima-ii-3 reactor	NT2	pilgrim-1 reactor
NT1	avogadro rs-1 reactor	NT2	fukushima-ii-4 reactor	NT2	quad cities-1 reactor
NT1	avr reactor	NT2	garigliano reactor	NT2	quad cities-2 reactor
NT1	bawtr reactor	NT2	garona reactor	NT2	ringhals-1 reactor
NT1	beloyarsk-1 reactor	NT2	ge standard reactor	NT2	river bend-1 reactor
NT1	beloyarsk-2 reactor	NT2	graben-1 reactor	NT2	river bend-2 reactor
NT1	bepo reactor	NT2	graben-2 reactor	NT2	rwe-bayernwerk reactor
NT1	ber-2 reactor	NT2	grand gulf-1 reactor	NT2	shika-1 reactor
NT1	berkeley reactor	NT2	grand gulf-2 reactor	NT2	shimane-1 reactor
NT1	bgrr reactor	NT2	gundremmingen-2 reactor	NT2	shimane-2 reactor
NT1	bilibin reactor	NT2	gundremmingen-3 reactor	NT2	shoreham reactor
NT1	bohunice a-1 reactor	NT2	hamaoka-1 reactor	NT2	skagit-1 reactor
NT1	bohunice a-2 reactor	NT2	hamaoka-2 reactor	NT2	skagit-2 reactor
NT1	borax-1 reactor	NT2	hamaoka-3 reactor	NT2	sl-1 reactor
NT1	borax-2 reactor	NT2	hamaoka-4 reactor	NT2	susquehanna-1 reactor
NT1	borax-3 reactor	NT2	hamaoka-5 reactor	NT2	susquehanna-2 reactor
NT1	borax-4 reactor	NT2	hartsville-1 reactor	NT2	tarapur-1 reactor
NT1	borax-5 reactor	NT2	hartsville-2 reactor	NT2	tarapur-2 reactor
NT1	br-02 reactor	NT2	hartsville-3 reactor	NT2	tokai-2 reactor
NT1	br-1 reactor	NT2	hartsville-4 reactor	NT2	tsuruga reactor
NT1	br-2 reactor	NT2	hatch-1 reactor	NT2	tullnerfeld reactor
NT1	bradwell reactor	NT2	hatch-2 reactor	NT2	vak reactor
NT1	brr reactor	NT2	hdr reactor	NT2	vbwr reactor
NT1	bsr-1 reactor	NT2	hope creek-1 reactor	NT2	vermont yankee reactor
NT1	bsr-2 reactor	NT3	newbold island-1 reactor	NT2	verplanck-1 reactor
NT1	budapest training reactor	NT2	hope creek-2 reactor	NT2	verplanck-2 reactor
NT1	bugey-1 reactor	NT3	newbold island-2 reactor	NT2	vk-50 reactor
NT1	bwr type reactors	NT2	humboldt bay reactor	NT2	wnp-2 reactor
NT2	allens creek-1 reactor	NT2	isar reactor	NT2	wurgassen reactor
NT2	allens creek-2 reactor	NT2	jpd-2 reactor	NT2	zimmer-1 reactor
NT2	bailly-1 reactor	NT2	jpd reactor	NT2	zimmer-2 reactor
NT2	barsebaeck-1 reactor	NT2	kaiseraugst reactor	NT1	byu l-77 reactor
NT2	barsebaeck-2 reactor	NT2	kashiwazaki-kariwa-1 reactor	NT1	cabri reactor
NT2	barton-1 reactor	NT2	kashiwazaki-kariwa-2 reactor	NT1	calder hall a-1 reactor
NT2	barton-2 reactor	NT2	kashiwazaki-kariwa-3 reactor	NT1	calder hall a-2 reactor
NT2	barton-3 reactor	NT2	kashiwazaki-kariwa-4 reactor	NT1	calder hall b-3 reactor
NT2	barton-4 reactor	NT2	kashiwazaki-kariwa-5 reactor	NT1	calder hall b-4 reactor
NT2	bell reactor	NT2	kashiwazaki-kariwa-6 reactor	NT1	candu type reactors
NT2	big rock point reactor	NT2	kashiwazaki-kariwa-7 reactor	NT2	bruce-1 reactor
NT2	black fox-1 reactor	NT2	krummel reactor	NT2	bruce-2 reactor
NT2	black fox-2 reactor	NT2	kuosheng-1 reactor	NT2	bruce-3 reactor
NT2	bolsa chica-1 reactor	NT2	kuosheng-2 reactor	NT2	bruce-4 reactor
NT2	bolsa chica-2 reactor	NT2	la salle county-1 reactor	NT2	bruce-5 reactor
NT2	bonus reactor	NT2	la salle county-2 reactor	NT2	bruce-6 reactor
NT2	browns ferry-1 reactor	NT2	lacbwr reactor	NT2	bruce-7 reactor
NT2	browns ferry-2 reactor	NT2	laguna verde-1 reactor	NT2	bruce-8 reactor
NT2	browns ferry-3 reactor	NT2	laguna verde-2 reactor	NT2	cernavoda-1 reactor
NT2	brunbuettel reactor	NT2	leibstadt reactor	NT2	cordoba reactor
NT2	brunswick-1 reactor	NT2	limerick-1 reactor	NT2	darlington-1 reactor
NT2	brunswick-2 reactor	NT2	limerick-2 reactor	NT2	darlington-2 reactor
NT2	chinshan-1 reactor	NT2	lingen reactor	NT2	darlington-3 reactor
NT2	chinshan-2 reactor	NT2	mendocino-1 reactor	NT2	darlington-4 reactor
NT2	clinton-1 reactor	NT2	mendocino-2 reactor	NT2	douglas point ontario reactor
NT2	clinton-2 reactor	NT2	millstone-1 reactor	NT2	embalse reactor
NT2	cofrentes reactor	NT2	montague-1 reactor	NT2	gentilly-2 reactor
NT2	cooper reactor	NT2	montague-2 reactor	NT2	gentilly reactor
NT2	dodewaard reactor	NT2	montalto di castro-1 reactor	NT2	kaiga-1 reactor
NT2	douglas point-1 reactor	NT2	montalto di castro-2 reactor	NT2	kaiga-2 reactor
NT2	douglas point-2 reactor	NT2	monticello reactor	NT2	kakrapar-1 reactor
NT2	dresden-1 reactor	NT2	muehleberg reactor	NT2	kakrapar-2 reactor
NT2	dresden-2 reactor	NT2	nine mile point-1 reactor	NT2	kanupp reactor
NT2	dresden-3 reactor	NT2	nine mile point-2 reactor	NT2	npd reactor
NT2	duane arnold-1 reactor	NT2	okg-1 reactor	NT2	pickering-1 reactor
NT2	ebwr reactor	NT2	okg-2 reactor	NT2	pickering-2 reactor
NT2	enel-4 reactor	NT2	okg-3 reactor	NT2	pickering-3 reactor
NT2	enrico fermi-2 reactor	NT2	olkiluoto-1 reactor	NT2	pickering-4 reactor
NT2	err reactor	NT2	olkiluoto-2 reactor	NT2	pickering-5 reactor
NT2	fitzpatrick reactor	NT2	onagawa-1 reactor	NT2	pickering-6 reactor
NT2	forsmark-1 reactor	NT2	onagawa-2 reactor	NT2	pickering-7 reactor
NT2	forsmark-2 reactor	NT2	onagawa-3 reactor	NT2	pickering-8 reactor

NT2	point lepreau-1 reactor	NT1	heysham-b reactor	NT1	mtr reactor
NT2	point lepreau-2 reactor	NT1	hfbr reactor	NT1	mzfr reactor
NT2	qinshan-3-1 reactor	NT1	hfetr reactor	NT1	nbsr reactor
NT2	qinshan-3-2 reactor	NT1	hfir reactor	NT1	ncscr-1 reactor
NT2	rajasthan-1 reactor	NT1	hfr reactor	NT1	nestor reactor
NT2	rajasthan-2 reactor	NT1	hifar reactor	NT1	netr reactor
NT2	rajasthan-3 reactor	NT1	hinkley point-a reactor	NT1	nevada university reactor
NT2	rajasthan-4 reactor	NT1	hinkley point-b reactor	NT1	nhr-5 reactor
NT2	wolsung-1 reactor	NT1	hitrex-1 reactor	NT1	niederaichbach reactor
NT2	wolsung-2 reactor	NT1	hnpf reactor	NT1	nora reactor
NT2	wolsung-3 reactor	NT1	hor reactor	NT1	nrx reactor
NT2	wolsung-4 reactor	NT1	htr reactor	NT1	ntr reactor
NT1	cesar reactor	NT1	hunterston-a reactor	NT1	nur reactor
NT1	cesnef reactor	NT1	hunterston-b reactor	NT1	oldbury-a reactor
NT1	chapelcross-1 reactor	NT1	hwctr reactor	NT1	oldbury-b reactor
NT1	chapelcross-2 reactor	NT1	hwzpr reactor	NT1	opal reactor
NT1	chapelcross-3 reactor	NT1	ian-r1 reactor	NT1	osiris reactor
NT1	chapelcross-4 reactor	NT1	iear-1 reactor	NT1	owr reactor
NT1	chernobylsk-1 reactor	NT1	ignalina-1 reactor	NT1	pctr reactor
NT1	chernobylsk-2 reactor	NT1	ignalina-2 reactor	NT1	peach bottom-1 reactor
NT1	chernobylsk-3 reactor	NT1	igr reactor	NT1	pegase reactor
NT1	chernobylsk-4 reactor	NT1	irl reactor	NT1	pelinduna reactor
NT1	chinon-1 reactor	NT1	irr-1 reactor	NT1	perryman-1 reactor
NT1	chinon-2 reactor	NT1	irt-1 libya reactor	NT1	perryman-2 reactor
NT1	chinon-3 reactor	NT1	irt-2000 djakarta reactor	NT1	phebus reactor
NT1	cirene reactor	NT1	irt-2000 moscow reactor	NT1	pik physical model reactor
NT1	cirus reactor	NT1	irt-baghdad reactor	NT1	pik reactor
NT1	consort-2 reactor	NT1	irt-c reactor	NT1	pluto reactor
NT1	cp-2 reactor	NT1	irt-f reactor	NT1	pnpf reactor
NT1	cp-3 reactor	NT1	irt reactor	NT1	prr reactor
NT1	cp-3m reactor	NT1	irt-sofia reactor	NT1	pse reactor
NT1	cp-5 reactor	NT1	isis reactor	NT1	pstr reactor
NT1	cvtr reactor	NT1	ivv-2m reactor	NT1	pur-1 reactor
NT1	democritus reactor	NT1	janus reactor	NT1	purmima-3 reactor
NT1	dhruva reactor	NT1	jatr reactor	NT1	pwr type reactors
NT1	dido reactor	NT1	jen-1 reactor	NT2	aguirre reactor
NT1	dimple reactor	NT1	jen reactor	NT2	almaraz-1 reactor
NT1	dmtr reactor	NT1	jules horowitz reactor	NT2	almaraz-2 reactor
NT1	dow triga-mk-1 reactor	NT1	juno reactor	NT2	angra-1 reactor
NT1	dr-1 reactor	NT1	kaiga-3 reactor	NT2	angra-2 reactor
NT1	dr-2 reactor	NT1	kaiga-4 reactor	NT2	angra-3 reactor
NT1	dr-3 reactor	NT1	kamini reactor	NT2	ardennes b-1 reactor
NT1	dragon reactor	NT1	knk reactor	NT2	ardennes b-2 reactor
NT1	dungeness-a reactor	NT1	kuhfr reactor	NT2	ardennes reactor
NT1	dungeness-b reactor	NT1	kursk-1 reactor	NT2	arkansas-1 reactor
NT1	ebor reactor	NT1	kursk-2 reactor	NT2	arkansas-2 reactor
NT1	egcr reactor	NT1	kursk-3 reactor	NT2	asco-1 reactor
NT1	el-1 reactor	NT1	kursk-4 reactor	NT2	asco-2 reactor
NT1	el-2 reactor	NT1	latina reactor	NT2	atlantic-1 reactor
NT1	el-4 reactor	NT1	leningrad-1 reactor	NT2	atlantic-2 reactor
NT1	eocr reactor	NT1	leningrad-2 reactor	NT2	basf-1 reactor
NT1	es-salam reactor	NT1	leningrad-3 reactor	NT2	basf-2 reactor
NT1	esada-vesr reactor	NT1	leningrad-4 reactor	NT2	beaver valley-1 reactor
NT1	essor reactor	NT1	lfr reactor	NT2	beaver valley-2 reactor
NT1	etr reactor	NT1	lido reactor	NT2	bellefonte-1 reactor
NT1	etrc reactor	NT1	litr reactor	NT2	bellefonte-2 reactor
NT1	etrr-2 reactor	NT1	lpr reactor	NT2	belleville sur loire-1 reactor
NT1	ewg-1 reactor	NT1	lprr reactor	NT2	belleville sur loire-2 reactor
NT1	fir-1 reactor	NT1	lucens reactor	NT2	beznau-1 reactor
NT1	fir reactor	NT1	lvr-15 reactor	NT2	beznau-2 reactor
NT1	fr-2 reactor	NT1	lwbr type reactors	NT2	biblis-1 reactor
NT1	frg-1 reactor	NT1	maria reactor	NT2	biblis-2 reactor
NT1	frm-ii reactor	NT1	marius reactor	NT2	biblis-3 reactor
NT1	fulton-1 reactor	NT1	melusine-1 reactor	NT2	biblis-4 reactor
NT1	fulton-2 reactor	NT1	merlin reactor	NT2	blayais-1 reactor
NT1	g-1 reactor	NT1	minerve reactor	NT2	blue hills-1 reactor
NT1	g-2 reactor	NT1	mir reactor	NT2	blue hills-2 reactor
NT1	g-3 reactor	NT1	mitr reactor	NT2	borsele reactor
NT1	ga siwabessy reactor	NT1	mnsr type reactors	NT2	br-3 reactor
NT1	ga standard reactor	NT2	gharr-1 reactor	NT2	braidwood-1 reactor
NT1	getr reactor	NT2	mnsr-ciae reactor	NT2	braidwood-2 reactor
NT1	gidra reactor	NT2	mnsr-sd reactor	NT2	brokdorf reactor
NT1	gleep reactor	NT2	mnsr-sh reactor	NT2	bugey-2 reactor
NT1	hartlepool reactor	NT2	mnsr-sz reactor	NT2	bugey-3 reactor
NT1	hbwr reactor	NT2	nirr-1 reactor	NT2	bugey-4 reactor
NT1	hector reactor	NT2	parr-2 reactor	NT2	bugey-5 reactor
NT1	herald reactor	NT2	srr-1 reactor	NT2	bw standard reactor
NT1	hew-305 reactor	NT1	mrr reactor	NT2	byron-1 reactor
NT1	heysham-a reactor	NT1	msre reactor	NT2	byron-2 reactor

NT2	calhoun-1 reactor	NT3	koshkonong-1 reactor	NT2	paluel-2 reactor
NT2	calhoun-2 reactor	NT2	haven-2 reactor	NT2	paluel-3 reactor
NT2	callaway-1 reactor	NT3	koshkonong-2 reactor	NT2	paluel-4 reactor
NT2	callaway-2 reactor	NT2	ikata-2 reactor	NT2	pat reactor
NT2	calvert cliffs-1 reactor	NT2	ikata-3 reactor	NT2	pebble springs-1 reactor
NT2	calvert cliffs-2 reactor	NT2	ikata reactor	NT2	pebble springs-2 reactor
NT2	catawba-1 reactor	NT2	indian point-1 reactor	NT2	penly-1 reactor
NT2	catawba-2 reactor	NT2	indian point-2 reactor	NT2	perkins-1 reactor
NT2	cattenom-1 reactor	NT2	indian point-3 reactor	NT2	perkins-2 reactor
NT2	cattenom-2 reactor	NT2	iran-1 reactor	NT2	perkins-3 reactor
NT2	cattenom-3 reactor	NT2	iran-2 reactor	NT2	philippsburg-2 reactor
NT2	cattenom-4 reactor	NT2	isar-2 reactor	NT2	pilgrim-2 reactor
NT2	ce standard reactor	NT2	jamesport-1 reactor	NT2	pilgrim-3 reactor
NT2	cherokee-1 reactor	NT2	jamesport-2 reactor	NT2	pm-2a reactor
NT2	cherokee-2 reactor	NT2	kewaunee reactor	NT2	pm-3a reactor
NT2	cherokee-3 reactor	NT2	koeberg-1 reactor	NT2	pnp-1 reactor
NT2	chinon-b1 reactor	NT2	koeberg-2 reactor	NT2	point beach-1 reactor
NT2	civaux-1 reactor	NT2	kori-1 reactor	NT2	point beach-2 reactor
NT2	civaux-2 reactor	NT2	kori-2 reactor	NT2	prairie island-1 reactor
NT2	comanche peak-1 reactor	NT2	kori-3 reactor	NT2	prairie island-2 reactor
NT2	comanche peak-2 reactor	NT2	kori-4 reactor	NT2	qinshan-1 reactor
NT2	connecticut yankee reactor	NT2	krsko reactor	NT2	qinshan-2-1 reactor
NT2	cook-1 reactor	NT2	lemoniz-1 reactor	NT2	qinshan-2-2 reactor
NT2	cook-2 reactor	NT2	lemoniz-2 reactor	NT2	quanicassee-1 reactor
NT2	cruas-2 reactor	NT2	lenin reactor	NT2	quanicassee-2 reactor
NT2	cruas-3 reactor	NT2	leonid brezhnev reactor	NT2	rancho seco-1 reactor
NT2	cruas-4 reactor	NT2	lingao-1 reactor	NT2	remerschen reactor
NT2	crystal river-3 reactor	NT2	lingao-2 reactor	NT2	rheinsberg akw1 reactor
NT2	crystal river-4 reactor	NT2	loft reactor	NT2	ringhals-2 reactor
NT2	dampierre-1 reactor	NT2	lucie-1 reactor	NT2	ringhals-3 reactor
NT2	dampierre-2 reactor	NT2	lucie-2 reactor	NT2	ringhals-4 reactor
NT2	dampierre-3 reactor	NT2	maanshan-1 reactor	NT2	robinson-2 reactor
NT2	dampierre-4 reactor	NT2	maine yankee reactor	NT2	rooppur reactor
NT2	davis besse-1 reactor	NT2	malibu-1 reactor	NT2	rowe yankee reactor
NT2	davis besse-2 reactor	NT2	marble hill-1 reactor	NT2	s1c prototype reactor
NT2	davis besse-3 reactor	NT2	marble hill-2 reactor	NT2	saint alban-1 reactor
NT2	daya bay-1 reactor	NT2	mc guire-1 reactor	NT2	saint alban-2 reactor
NT2	daya bay-2 reactor	NT2	mc guire-2 reactor	NT2	saint laurent-b1 reactor
NT2	diablo canyon-1 reactor	NT2	mh-1a reactor	NT2	salem-1 reactor
NT2	diablo canyon-2 reactor	NT2	midland-1 reactor	NT2	salem-2 reactor
NT2	doel-1 reactor	NT2	midland-2 reactor	NT2	san onofre-1 reactor
NT2	doel-2 reactor	NT2	mihama-1 reactor	NT2	san onofre-2 reactor
NT2	doel-3 reactor	NT2	mihama-2 reactor	NT2	san onofre-3 reactor
NT2	doel-4 reactor	NT2	mihama-3 reactor	NT2	savannah reactor
NT2	efdr-50 reactor	NT2	millstone-2 reactor	NT2	saxton reactor
NT2	emsland reactor	NT2	millstone-3 reactor	NT2	seabrook-1 reactor
NT2	erie-1 reactor	NT2	muelheim-kaerlich reactor	NT2	seabrook-2 reactor
NT2	erie-2 reactor	NT2	mutsu reactor	NT2	selni reactor
NT2	farley-1 reactor	NT2	neckar-1 reactor	NT2	sendai-1 reactor
NT2	farley-2 reactor	NT2	neckar-2 reactor	NT2	sendai-2 reactor
NT2	fessenheim-1 reactor	NT2	nep-1 reactor	NT2	sequoyah-1 reactor
NT2	flamanville-1 reactor	NT2	nep-2 reactor	NT2	sequoyah-2 reactor
NT2	flamanville-2 reactor	NT2	neupotz-1 reactor	NT2	shippingport reactor
NT2	forked river-1 reactor	NT2	neupotz-2 reactor	NT2	sizewell-b reactor
NT2	genkai-1 reactor	NT2	nogent sur seine-1 reactor	NT2	sm-1 reactor
NT2	genkai-2 reactor	NT2	nogent sur seine-2 reactor	NT2	sm-1a reactor
NT2	genkai-3 reactor	NT2	north anna-1 reactor	NT2	south texas project-1 reactor
NT2	genkai-4 reactor	NT2	north anna-2 reactor	NT2	south texas project-2 reactor
NT2	ginna-1 reactor	NT2	north anna-3 reactor	NT2	stade reactor
NT2	goesgen reactor	NT2	north anna-4 reactor	NT2	sterling-1 reactor
NT2	golfech-1 reactor	NT2	north coast-1 reactor	NT2	sterling-2 reactor
NT2	golfech-2 reactor	NT2	obrigheim reactor	NT2	summer-1 reactor
NT2	grafenrheinfeld reactor	NT2	oconee-1 reactor	NT2	sundesert-1 reactor
NT2	gravelines-1 reactor	NT2	oconee-2 reactor	NT2	sundesert-2 reactor
NT2	gravelines-2 reactor	NT2	oconee-3 reactor	NT2	surry-1 reactor
NT2	gravelines-3 reactor	NT2	oi-1 reactor	NT2	surry-2 reactor
NT2	gravelines-4 reactor	NT2	oi-2 reactor	NT2	surry-3 reactor
NT2	gravelines-5 reactor	NT2	oi-3 reactor	NT2	surry-4 reactor
NT2	gravelines-6 reactor	NT2	oi-4 reactor	NT2	takahama-1 reactor
NT2	greene county reactor	NT2	oktemberyan-2 reactor	NT2	takahama-2 reactor
NT2	greenwood-2 reactor	NT2	olkiluoto-3 reactor	NT2	takahama-3 reactor
NT2	greenwood-3 reactor	NT2	otto hahn reactor	NT2	takahama-4 reactor
NT2	grohnde reactor	NT2	palisades-1 reactor	NT2	three mile island-1 reactor
NT2	hamm-uentrop reactor	NT2	palo verde-1 reactor	NT2	three mile island-2 reactor
NT2	harris-1 reactor	NT2	palo verde-2 reactor	NT2	tihange-2 reactor
NT2	harris-2 reactor	NT2	palo verde-3 reactor	NT2	tihange-3 reactor
NT2	harris-3 reactor	NT2	palo verde-4 reactor	NT2	tihange reactor
NT2	harris-4 reactor	NT2	palo verde-5 reactor	NT2	tomari-1 reactor
NT2	haven-1 reactor	NT2	paluel-1 reactor	NT2	tomari-2 reactor

NT2	tricastin-1 reactor	NT3	novovoronezh-2 reactor	NT1	taiwan research reactor
NT2	tricastin-4 reactor	NT3	novovoronezh-3 reactor	NT1	tarapur-3 reactor
NT2	trillo-1 reactor	NT3	novovoronezh-4 reactor	NT1	tarapur-4 reactor
NT2	trojan reactor	NT3	novovoronezh-5 reactor	NT1	thermos reactor
NT2	tsuruga-2 reactor	NT3	paks-1 reactor	NT1	thetis reactor
NT2	turkey point-3 reactor	NT3	paks-2 reactor	NT1	thtr-300 reactor
NT2	turkey point-4 reactor	NT3	paks-3 reactor	NT1	tokai-mura reactor
NT2	tva-1 reactor	NT3	paks-4 reactor	NT1	torness reactor
NT2	tva-2 reactor	NT3	rovno-1 reactor	NT1	toshiba reactor
NT2	tyrone-1 reactor	NT3	rovno-2 reactor	NT1	tr-1 reactor
NT2	tyrone-2 reactor	NT3	rovno-3 reactor	NT1	tr-2 reactor
NT2	ulchin-1 reactor	NT3	rovno-4 reactor	NT1	trawsfynydd reactor
NT2	ulchin-2 reactor	NT3	rovno-5 reactor	NT1	treat reactor
NT2	ulchin-3 reactor	NT3	south ukrainian-1 reactor	NT1	trico reactor
NT2	ulchin-4 reactor	NT3	south ukrainian-2 reactor	NT1	triga-1-california reactor
NT2	unterweser reactor	NT3	south ukrainian-3 reactor	NT1	triga-1-hanover reactor
NT2	vahnum-1 reactor	NT3	stendal-1 reactor	NT1	triga-1-heidelberg reactor
NT2	vahnum-2 reactor	NT3	tatarian reactor	NT1	triga-1-michigan reactor
NT2	vandellos-2 reactor	NT3	temelin-1 reactor	NT1	triga-2-bandung reactor
NT2	vogtle-1 reactor	NT3	temelin-2 reactor	NT1	triga-2-bangladesh reactor
NT2	vogtle-2 reactor	NT3	tianwan-1 reactor	NT1	triga-2-dalat reactor
NT2	vogtle-3 reactor	NT3	zaporozhe-1 reactor	NT1	triga-2-illinois reactor
NT2	vogtle-4 reactor	NT3	zaporozhe-2 reactor	NT1	triga-2-kansas reactor
NT2	waterford-3 reactor	NT3	zaporozhe-3 reactor	NT1	triga-2-ljubljana reactor
NT2	waterford-4 reactor	NT3	zaporozhe-4 reactor	NT1	triga-2-mainz reactor
NT2	watts bar-1 reactor	NT3	zaporozhe-5 reactor	NT1	triga-2-musashi reactor
NT2	watts bar-2 reactor	NT3	zaporozhe-6 reactor	NT1	triga-2-pavia reactor
NT2	westinghouse standard reactor	NT2	wyhl-1 reactor	NT1	triga-2-pitesti reactor
NT2	wnp-1 reactor	NT2	wyhl-2 reactor	NT1	triga-2 reactor
NT2	wnp-3 reactor	NT2	yellow creek-1 reactor	NT1	triga-2-rikkyo reactor
NT2	wnp-4 reactor	NT2	yellow creek-2 reactor	NT1	triga-2-rome reactor
NT2	wnp-5 reactor	NT2	yonggwang-1 reactor	NT1	triga-2-seoul reactor
NT2	wolf creek-1 reactor	NT2	yonggwang-2 reactor	NT1	triga-2-vienna reactor
NT2	wup-3 reactor	NT2	yonggwang-3 reactor	NT1	triga-3-munich reactor
NT2	wup-4 reactor	NT2	yonggwang-4 reactor	NT1	triga-3-salazar reactor
NT2	wup-5 reactor	NT2	zion-1 reactor	NT1	triga-3-seoul reactor
NT2	wup-6 reactor	NT2	zion-2 reactor	NT1	triga-brazil reactor
NT2	wwer type reactors	NT2	zorita-1 reactor	NT1	triga-texas reactor
NT3	armenian-1 reactor	NT1	r-1 reactor	NT1	triga-veterans reactor
NT3	armenian-2 reactor	NT1	r-a reactor	NT1	triton reactor
NT3	balakovo-1 reactor	NT1	ra-5 reactor	NT1	trr-1 reactor
NT3	balakovo-2 reactor	NT1	ra-6 reactor	NT1	tz1 reactor
NT3	balakovo-3 reactor	NT1	ra-8 reactor	NT1	tz2 reactor
NT3	balakovo-4 reactor	NT1	rajasthan-5 reactor	NT1	ucbrr reactor
NT3	blahutovice-1 reactor	NT1	rajasthan-6 reactor	NT1	ufr reactor
NT3	bohunice v-1 reactor	NT1	rb-1 reactor	NT1	uhtrex reactor
NT3	bohunice v-2 reactor	NT1	rb-2 reactor	NT1	uknr reactor
NT3	dukovany-1 reactor	NT1	rg-1m reactor	NT1	ulysse reactor
NT3	dukovany-2 reactor	NT1	ritmo reactor	NT1	umne-1 reactor
NT3	dukovany-3 reactor	NT1	rts-1 reactor	NT1	umrr reactor
NT3	dukovany-4 reactor	NT1	safari-1 reactor	NT1	urr reactor
NT3	greifswald-1 reactor	NT1	saint laurent-1 reactor	NT1	utr-10-kinki reactor
NT3	greifswald-2 reactor	NT1	saint laurent-2 reactor	NT1	utr reactor
NT3	greifswald-3 reactor	NT1	saphir reactor	NT1	uvar reactor
NT3	greifswald-4 reactor	NT1	scarabee reactor	NT1	uwnr reactor
NT3	greifswald-5 reactor	NT1	sghwr reactor	NT1	uwtr reactor
NT3	greifswald-6 reactor	NT1	shca reactor	NT1	vandellos reactor
NT3	juragua-1 reactor	NT1	siloe reactor	NT1	venus reactor
NT3	kalinin-1 reactor	NT1	silhouette reactor	NT1	vg-400 reactor
NT3	kalinin-3 reactor	NT1	sizewell-a reactor	NT1	vgr-50 reactor
NT3	kecerovce-1 reactor	NT1	sm-2 reactor	NT1	vhtr reactor
NT3	khmelnitskij-1 reactor	NT1	smolensk-1 reactor	NT1	vidal-1 reactor
NT3	kola-1 reactor	NT1	smolensk-2 reactor	NT1	vidal-2 reactor
NT3	kola-2 reactor	NT1	smolensk-3 reactor	NT1	voronezh ast-500 reactor
NT3	kola-3 reactor	NT1	spert-1 reactor	NT1	vpi-utr-10 reactor
NT3	kola-4 reactor	NT1	spert-2 reactor	NT1	vr-1 reactor
NT3	kozloduy-1 reactor	NT1	spert-3 reactor	NT1	wagr reactor
NT3	kozloduy-2 reactor	NT1	spert-4 reactor	NT1	windscale production reactors
NT3	kozloduy-3 reactor	NT1	spr-2 reactor	NT1	wpir reactor
NT3	kozloduy-4 reactor	NT1	sr-1 reactor	NT1	wr-1 reactor
NT3	kozloduy-5 reactor	NT1	sr-305 reactor	NT1	wrrr reactor
NT3	kozloduy-6 reactor	NT1	sr-3p reactor	NT1	wsur reactor
NT3	kudankulam-1 reactor	NT1	sre reactor	NT1	wtr reactor
NT3	kudankulam-2 reactor	NT1	srrc-utr-100 reactor	NT1	wwr-2 reactor
NT3	loviisa-1 reactor	NT1	stark reactor	NT1	wwr-k-almaty reactor
NT3	loviisa-2 reactor	NT1	stek reactor	NT1	wwr-m-kiev reactor
NT3	mochovce-1 reactor	NT1	stir reactor	NT1	wwr-m-leningrad reactor
NT3	mochovce-2 reactor	NT1	supo reactor	NT1	wwr-s-bucharest reactor
NT3	novovoronezh-1 reactor	NT1	sur-100 series reactor	NT1	wwr-s-budapest reactor



**NT1** wwr-s-cairo reactor  
**NT1** wwr-s-moscow reactor  
**NT1** wwr-s-prague reactor  
**NT1** wwr-s-tashkent reactor  
**NT1** wwr-sm rossendorf reactor  
**NT1** wwr-z reactor  
**NT1** wylfa reactor  
**NT1** x-10 reactor  
**NT1** zed-2 reactor  
**NT1** zenith reactor  
**NT1** zerlina reactor  
**NT1** zlfr reactor  
**NT1** zpr reactor  
**RT** lwgr type reactors

**THERMAL RECOVERY**

*INIS: 1992-04-06; ETDE: 1981-05-18*

**BT1** enhanced recovery  
**RT** in-situ combustion  
**RT** steam injection

**THERMAL SHIELDS**

**BT1** shields  
**RT** thermal insulation

**THERMAL SHOCK**

**UF** shock (thermal)  
**RT** heat treatments  
**RT** thermal cycling  
**RT** thermal stresses

**THERMAL SPIKES**

*1996-07-23*

**UF** spikes (thermal)  
**UF** thermal-nelson model  
**RT** crystal defects  
**RT** radiation effects

**THERMAL SPRINGS**

*INIS: 2000-01-26; ETDE: 1976-01-23*  
*Springs whose water temperature is appreciably higher than the local mean annual atmospheric temperature. A thermal spring may be a hot spring or a warm spring.*

**SF** geothermal springs  
**SF** thermal waters  
**BT1** water springs  
**NT1** hot springs  
**NT2** geysers  
**NT1** warm springs  
**RT** geothermal energy  
**RT** geothermal fields  
**RT** hydrothermal systems  
**RT** mineral springs

**thermal storage**

*INIS: 1979-01-18; ETDE: 1979-02-05*  
**USE** heat storage

**THERMAL STRESSES**

**BT1** stresses  
**RT** thermal fractures  
**RT** thermal fracturing  
**RT** thermal shock  
**RT** thermoelasticity

**thermal surveys**

*INIS: 2000-01-21; ETDE: 1980-02-11*  
**USE** temperature surveys

**THERMAL TESTING**

**\*BT1** nondestructive testing  
**NT1** frost tests  
**RT** thermography

**THERMAL TRANSMISSION ICES**

*INIS: 2000-04-12; ETDE: 1978-10-23*  
*High-quality thermal energy generated remotely and transmitted in thermal form to final cogeneration site.*

**\*BT1** ices program  
**RT** cogeneration

**RT** district heating

**THERMAL UTILIZATION**

**RT** multiplication factors

**thermal waters**

*2000-03-29*

*Waters, generally of a spring or geyser, whose temperature is appreciably above the local mean annual air temperature.*

*(Prior to April 1994, this was a valid ETDE descriptor.)*

**SEE** geothermal fluids  
**SEE** geysers  
**SEE** hot springs  
**SEE** thermal springs

**THERMALIZATION**

*Establishment of thermal equilibrium between neutrons and their surroundings.*

**BT1** slowing-down

**thermally active structural components**

*2005-12-19*

*Use a descriptor for the specific structural component, e.g. FLOORS, WALLS, and one or more of the descriptors below.*

**SEE** cooling systems  
**SEE** heating systems  
**SEE** space hvac systems

**THERMIC DIODE SOLAR PANELS**

*INIS: 2000-04-12; ETDE: 1979-07-18*

**\*BT1** passive solar heating systems  
**\*BT1** passive solar water heaters  
**RT** heat storage  
**RT** solar collectors

**thermionic cells**

**USE** thermionic converters

**THERMIONIC COLLECTORS**

*INIS: 1978-08-30; ETDE: 1976-01-07*

**RT** anodes  
**RT** thermionic converters  
**RT** thermionic diodes

**THERMIONIC CONVERSION**

**\*BT1** direct energy conversion  
**RT** thermionic converters  
**RT** thermionic diodes

**THERMIONIC CONVERTERS**

**UF** thermionic cells  
**UF** thermionic generators  
**BT1** direct energy converters  
**RT** thermionic collectors  
**RT** thermionic conversion  
**RT** thermionic diodes  
**RT** thermionic emitters  
**RT** thermionic fuel elements  
**RT** thermionic reactors  
**RT** topaz reactor

**THERMIONIC DIODES**

**UF** plasma diodes  
**\*BT1** diode tubes  
**\*BT1** thermionic tubes  
**RT** magnetic insulation  
**RT** semiconductor diodes  
**RT** thermionic collectors  
**RT** thermionic conversion  
**RT** thermionic converters  
**RT** thermionic emission  
**RT** thermionic emitters

**THERMIONIC EMISSION**

**BT1** emission  
**RT** electron emission  
**RT** electron tubes  
**RT** thermionic diodes

**RT** thermionic emitters

**THERMIONIC EMITTERS**

*INIS: 1978-07-31; ETDE: 1976-01-07*

**RT** cathodes  
**RT** electron sources  
**RT** thermionic converters  
**RT** thermionic diodes  
**RT** thermionic emission

**THERMIONIC FUEL ELEMENTS**

**\*BT1** fuel elements  
**RT** thermionic converters  
**RT** thermionic reactors

**thermionic generators**

**USE** thermionic converters

**thermionic reactor critical experiments**

*2000-04-12*

*(Prior to February 1995, this was a valid ETDE descriptor.)*

**USE** thermionic reactors  
**USE** zero power reactors

**thermionic reactor experiment (trex)**

*2000-04-12*

**USE** thermionic reactors

**THERMIONIC REACTORS**

*Limited to reactors with in-core thermionic cells.*

**UF** in-core thermionic reactor  
**UF** itr reactor  
**UF** thermionic reactor critical experiments  
**UF** thermionic reactor experiment (trex)  
**UF** trex (thermionic reactor critical experiments)  
**\*BT1** power reactors  
**RT** mobile reactors  
**RT** snap reactors  
**RT** thermionic converters  
**RT** thermionic fuel elements

**THERMIONIC TUBES**

**BT1** electron tubes  
**NT1** thermionic diodes  
**RT** microwave tubes

**THERMIONICS**

**RT** richardson equation  
**RT** schottky effect

**THERMISTORS**

**BT1** semiconductor devices  
**RT** resistors

**THERMITE PROCESS**

**\*BT1** reduction  
**RT** welding

**THERMOACTINOMYCES**

*INIS: 2000-04-12; ETDE: 1979-03-29*

**\*BT1** bacteria  
**RT** enzymatic hydrolysis

**THERMOCHEMICAL DIAGRAMS**

*INIS: 1992-02-24; ETDE: 1982-02-23*

**\*BT1** diagrams  
**RT** corrosion  
**RT** phase studies  
**RT** temperature dependence

**THERMOCHEMICAL HEAT STORAGE**

*INIS: 1993-06-04; ETDE: 1977-06-30*

*Storage of thermal energy in the heat of decomposition and recombination of reversible chemical reactions.*

**UF** chemical heat storage  
**\*BT1** heat storage

*RT* chemical heat pumps  
*RT* dissociation heat  
*RT* formation heat  
*RT* reaction heat  
*RT* thermal energy storage equipment  
*RT* thermochemical processes

## THERMOCHEMICAL PROCESSES

1999-02-01

*UF* *biothermohol process*

**NT1** combustion  
**NT2** cocombustion  
**NT2** fluidized-bed combustion  
**NT2** in-situ combustion  
**NT2** pulse combustion  
**NT2** reverse combustion  
**NT2** spontaneous combustion  
**NT2** staged combustion  
**NT1** gasification  
**NT2** biothermgas process  
**NT2** coal gasification  
**NT3** agglomerating ash process  
**NT3** arc coal process  
**NT3** babcock and wilcox-dupont process  
**NT3** beacon process  
**NT3** bgc-lurgi slagging process  
**NT3** bi-gas process  
**NT3** ce entrained fuel process  
**NT3** coalcon process  
**NT3** cogas process  
**NT3** combined-cycle fw process  
**NT3** consol synthetic gas process  
**NT3** cs-r process  
**NT3** dow gasification process  
**NT3** Exxon gasification process  
**NT3** flash hydrolysis process  
**NT3** gegas process  
**NT3** gkt process  
**NT3** htw process  
**NT3** humboldt gasification process  
**NT3** hydrane process  
**NT3** hygas process  
**NT3** i g process  
**NT3** kbw gasification process  
**NT3** kellogg process  
**NT3** kilngas process  
**NT3** kloekner-iron bath coal gasification process  
**NT3** koppers process  
**NT3** koppers-totzek process  
**NT3** krw gasification process  
**NT3** lurgi cfb gasification process  
**NT3** lurgi process  
**NT3** lurgi slagging process  
**NT3** molten iron puregas process  
**NT3** molten salt coal gasification process  
**NT3** moving-burden process  
**NT3** occidental flash pyrolysis process  
**NT3** otto rummel slag bath process  
**NT3** peatgas process  
**NT3** prenflo process  
**NT3** ruhr 100 gasification process  
**NT3** saarberg-otto gasification process  
**NT3** seacoal process  
**NT3** shell-koppers gasification process  
**NT3** synthane process  
**NT3** texaco gasification process  
**NT3** toscodyne process  
**NT3** toscoal process  
**NT3** u-gas process  
**NT3** wellman-galusha process  
**NT3** wellman-incandescent process  
**NT3** westinghouse gasification process  
**NT3** woodall-duckham process  
**NT2** fluidized bed refuse gasification  
**NT2** in-situ gasification  
**NT1** liquefaction

**NT2** coal liquefaction  
**NT3** bcl process  
**NT3** bergius process  
**NT3** catalytic hydrosolvation process  
**NT3** cffc process  
**NT3** coed process  
**NT3** costeam process  
**NT3** dow liquefaction process  
**NT3** Exxon liquefaction process  
**NT3** flash hydrolysis process  
**NT3** h-coal process  
**NT3** liquid phase methanol process  
**NT3** occidental flash pyrolysis process  
**NT3** pamco process  
**NT3** pyrosol process  
**NT3** sasol-ii process  
**NT3** sasol process  
**NT3** src-ii process  
**NT3** synthoil process  
**NT3** synthol process  
**NT3** tsl process  
**NT2** in-situ liquefaction  
**NT1** partial oxidation processes  
**NT1** pyrolysis  
**NT2** calcination  
**NT2** cracking  
**NT3** catalytic cracking  
**NT3** hydrocracking  
**NT3** thermal cracking  
**NT2** flash hydrolysis process  
*RT* hydrogen production  
*RT* thermochemical heat storage

## THERMOCHROMATOGRAPHY

*INIS: 1977-01-26; ETDE: 1977-04-13*

\***BT1** chromatography

## THERMOCOUPLES

*UF* *thermopiles*  
**BT1** measuring instruments  
*RT* calorimetric dosimeters  
*RT* fission thermocouple detectors  
*RT* reactor control systems  
*RT* temperature measurement  
*RT* thermoelectric generators  
*RT* thermoelectricity

## thermodiffusion

*INIS: 1984-12-04; ETDE: 2002-06-13*

USE thermal diffusion

## THERMODYNAMIC ACTIVITY

*INIS: 1976-10-07; ETDE: 1976-11-01*

Used instead of molar fractions in non-ideal solutions.

*UF* *activity coefficient*  
*UF* *chemical activity*  
*RT* chemical reactions  
*RT* concentration ratio  
*RT* equilibrium  
*RT* phase studies  
*RT* thermodynamics

## THERMODYNAMIC CYCLES

1996-08-05

*UF* *cycles (thermodynamic)*  
**NT1** absorption refrigeration cycle  
**NT1** bottoming cycles  
**NT1** brayton cycle  
**NT1** carnot cycle  
**NT1** combined cycles  
**NT1** ericsson cycle  
**NT1** lift cycles  
**NT2** mist-lift cycles  
**NT1** otto cycle  
**NT1** rankine cycle  
**NT1** stirling cycle  
**NT1** vapor compression refrigeration cycle  
**NT1** vuilleumier cycle  
*RT* binary-fluid systems  
*RT* flashed steam systems

*RT* heat engines  
*RT* thermodynamics  
*RT* topping cycles  
*RT* total flow systems

## THERMODYNAMIC MODEL

\***BT1** particle models  
 \***BT1** statistical models  
**NT1** hydrodynamic model

## THERMODYNAMIC MOLECULAR MODEL

\***BT1** molecular models

## THERMODYNAMIC PROPERTIES

*UF* *heat transfer properties*  
*UF* *thermal properties*  
*SF* *mean radiant temperature*  
**BT1** physical properties  
**NT1** critical pressure  
**NT1** enthalpy  
**NT2** absorption heat  
**NT2** adsorption heat  
**NT2** mixing heat  
**NT2** reaction heat  
**NT3** combustion heat  
**NT3** dissociation heat  
**NT3** formation heat  
**NT2** solution heat  
**NT2** transition heat  
**NT3** fusion heat  
**NT3** sublimation heat  
**NT3** vaporization heat

**NT1** entropy  
**NT1** free energy  
**NT2** formation free energy  
**NT2** surface energy  
**NT1** free enthalpy  
**NT2** formation free enthalpy  
**NT2** oxygen potential  
**NT1** partial pressure  
**NT1** specific heat  
**NT2** electronic specific heat  
**NT2** magnetic specific heat  
**NT2** nuclear specific heat  
**NT1** stored energy  
**NT1** thermal conductivity  
**NT1** thermal diffusivity  
**NT1** transition temperature  
**NT2** boiling points  
**NT2** critical temperature  
**NT2** curie point  
**NT2** dew point  
**NT2** lambda point  
**NT2** melting points  
**NT2** neel temperature  
**NT1** vapor pressure  
*RT* apparent molal volume  
*RT* combustion properties  
*RT* limiting values  
*RT* partial molal volume  
*RT* prandtl number  
*RT* thermal equilibrium  
*RT* thermal expansion  
*RT* thermal radiation  
*RT* thermodynamics

## THERMODYNAMICS

(From September 1978 to March 1997 JOULE-THOMSON EFFECT was a valid ETDE descriptor.)

*SF* *joule-thomson effect*  
*RT* adiabatic processes  
*RT* brayton cycle  
*RT* carnot cycle  
*RT* coefficient of performance  
*RT* degrees of freedom  
*RT* energy  
*RT* enthalpy  
*RT* entropy

RT equations of state  
 RT ericsson cycle  
 RT exergy  
 RT heat sinks  
 RT heat transfer  
 RT irreversible processes  
 RT isentropic processes  
 RT isothermal processes  
 RT khalatnikov theory  
 RT lte  
 RT mollier diagrams  
 RT nernst heat theorem  
 RT onsager relations  
 RT partition functions  
 RT physical metallurgy  
 RT planck radiation formula  
 RT rankine cycle  
 RT saha equation  
 RT steam quality  
 RT stirling cycle  
 RT thermal efficiency  
 RT thermal hydraulics  
 RT thermodynamic activity  
 RT thermodynamic cycles  
 RT thermodynamic properties  
 RT virial equation  
 RT wigner distribution

**THERMOELASTICITY**

INIS: 1979-02-21; ETDE: 1977-04-12  
*Dependence of the stress distribution of an elastic solid on its thermal state, or of its thermal conductivity on the stress distribution.*

\*BT1 elasticity  
 RT bowing  
 RT stresses  
 RT temperature dependence  
 RT thermal conductivity  
 RT thermal expansion  
 RT thermal stresses

**thermoelectric cells**

USE thermoelectric generators

**THERMOELECTRIC CONVERSION**

\*BT1 direct energy conversion  
 RT thermal batteries  
 RT thermoelectric generators  
 RT thermoelectric heaters  
 RT thermoelectric refrigerators

**thermoelectric converters**

USE thermoelectric generators

**THERMOELECTRIC COOLERS**

INIS: 1999-05-26; ETDE: 1976-11-17  
 (Until May 1999 this information was indexed by THERMOELECTRIC REFRIGERATORS.)

RT thermoelectric refrigerators

**THERMOELECTRIC GENERATORS**

UF *thermoelectric cells*  
 UF *thermoelectric converters*  
 BT1 direct energy converters  
 RT radioisotope batteries  
 RT radioisotope heat sources  
 RT thermocouples  
 RT thermoelectric conversion  
 RT thermoelectric materials  
 RT thermoelectricity

**thermoelectric heat pumps**

INIS: 2000-04-12; ETDE: 1976-11-17  
 SEE thermoelectric heaters  
 SEE thermoelectric refrigerators

**THERMOELECTRIC HEATERS**

INIS: 2000-04-12; ETDE: 1976-11-17  
 SF *thermoelectric heat pumps*  
 BT1 direct energy converters

BT1 heaters  
 RT thermoelectric conversion

**THERMOELECTRIC MATERIALS**

1993-01-22

BT1 materials  
 RT semiconductor materials  
 RT thermoelectric generators  
 RT thermoelectricity

**THERMOELECTRIC PROPERTIES**

\*BT1 electrical properties

**THERMOELECTRIC REACTORS**

INIS: 1995-01-10; ETDE: 1986-06-12

\*BT1 power reactors

**THERMOELECTRIC REFRIGERATORS**

INIS: 1980-04-02; ETDE: 1976-11-17

SF *thermoelectric heat pumps*  
 BT1 direct energy converters  
 BT1 refrigerators  
 RT thermoelectric conversion  
 RT thermoelectric coolers

**THERMOELECTRICITY**

BT1 electricity  
 RT seebeck effect  
 RT thermocouples  
 RT thermoelectric generators  
 RT thermoelectric materials

**THERMOGRAPHY**

INIS: 1978-07-31; ETDE: 1978-09-11

*Technique employing heat transfer transients.*

BT1 measuring methods  
 NT1 infrared thermography  
 RT infrared radiation  
 RT remote sensing  
 RT temperature measurement  
 RT thermal testing

**thermogravimetric analysis**

INIS: 1975-11-11; ETDE: 2002-06-13

USE thermal gravimetric analysis

**thermogravimetry**

USE thermal gravimetric analysis

**thermohydraulics**

2003-10-21

USE thermal hydraulics

**THERMOLUMINESCENCE**

\*BT1 luminescence  
 NT1 radiothermoluminescence  
 RT thermoluminescent dosimeters

**THERMOLUMINESCENT DOSEMETERS**

UF *tld (dosimeters)*  
 UF *tld systems*  
 \*BT1 luminescent dosimeters  
 RT calcium fluorides  
 RT calcium sulfates  
 RT lithium fluorides  
 RT personnel dosimetry  
 RT thermoluminescence  
 RT thermoluminescent dosimetry

**THERMOLUMINESCENT DOSIMETRY**

UF *tld (dosimetry)*  
 BT1 dosimetry  
 RT thermoluminescent dosimeters

**THERMOMAGNETIC CONVERSION**

\*BT1 direct energy conversion

**THERMOMAGNETISM**

BT1 magnetism

**THERMOMECHANICAL TREATMENTS**

INIS: 1992-04-13; ETDE: 1982-11-08  
*Combination of material-forming processes with heat treatments in order to obtain specific material properties.*

BT1 heat treatments  
 \*BT1 materials working

**THERMOMETERS**

BT1 measuring instruments  
 NT1 geothermometers  
 NT1 noise thermometers  
 RT bolometers  
 RT temperature measurement

**THERMOMETRIC TITRATION**

2000-04-12

\*BT1 titration

**THERMONUCLEAR DEVICES**

1996-04-16

(From January 1975 till June 1991 HARMONICA DEVICES was a valid ETDE descriptor.)

UF *harmonica devices*

NT1 closed plasma devices  
 NT2 astron  
 NT2 blascon devices  
 NT2 compact torus  
 NT3 field-reversed theta pinch devices  
 NT3 rotamak devices  
 NT2 heliotron  
 NT2 internal ring devices  
 NT3 fm devices  
 NT3 levitron devices  
 NT3 lm devices  
 NT3 spherator  
 NT3 tokapole devices  
 NT3 tornado devices  
 NT2 lhd device  
 NT2 stellarators  
 NT3 cleo stellarator  
 NT3 heliac stellarators  
 NT4 h-1 heliac  
 NT4 hsx stellarator  
 NT4 sheila heliac  
 NT4 tj-ii heliac  
 NT3 heliotron-e stellarator  
 NT3 ims stellarator  
 NT3 jipp stellarator  
 NT3 jippt-2 device  
 NT3 l-2 stellarator  
 NT3 proto-cleo stellarators  
 NT3 sirius device  
 NT3 stellarator model c  
 NT3 torsatron stellarators  
 NT4 atf torsatron  
 NT4 chs torsatron  
 NT4 tj-ii torsatron  
 NT4 vint torsatron  
 NT3 uragan stellarator  
 NT3 wega stellarator  
 NT3 wendelstein-2b stellarator  
 NT3 wendelstein-7 stellarator  
 NT2 tokamak devices  
 NT3 act devices  
 NT3 aditya tokamak  
 NT3 alcator device  
 NT3 asdex tokamak  
 NT3 atc devices  
 NT3 castor tokamak  
 NT3 columbia high-beta tokamak  
 NT3 compact ignition tokamak  
 NT3 compass-d tokamak  
 NT3 continuous current tokamak  
 NT3 ct-6b tokamak  
 NT3 dante tokamak  
 NT3 dite tokamak  
 NT3 doublet-2 device

NT3 doublet-3 device  
 NT3 etf tokamak  
 NT3 ft tokamak  
 NT3 hl-1 tokamak  
 NT3 hl-1m tokamak  
 NT3 hl-2 tokamak  
 NT3 hl-2a tokamak  
 NT3 ht-2 tokamak  
 NT3 ht-6b tokamak  
 NT3 ht-6m tokamak  
 NT3 ht-7 tokamak  
 NT3 ht-7u tokamak  
 NT3 hybtok tokamaks  
 NT3 ignition spherical torus  
 NT3 intor tokamak  
 NT3 isttok tokamak  
 NT3 isx tokamak  
 NT3 iter tokamak  
 NT3 jet tokamak  
 NT3 jft-2 tokamak  
 NT3 jft-2a tokamak  
 NT3 jft-2m tokamak  
 NT3 jippt-2 device  
 NT3 jt-60 tokamak  
 NT3 jt-60u tokamak  
 NT3 jxfr tokamak  
 NT3 kt-2 tokamak  
 NT3 lt-3 tokamak  
 NT3 lt-4 tokamak  
 NT3 mt-1 tokamak  
 NT3 mtx tokamak  
 NT3 net tokamak  
 NT3 ormak devices  
 NT3 pbx devices  
 NT3 pdx devices  
 NT3 petula tokamak  
 NT3 phaedrus-t tokamak  
 NT3 plt devices  
 NT3 pulsator devices  
 NT3 rtp tokamak  
 NT3 sinp tokamak  
 NT3 spheromak devices  
   NT4 cdx-u spheromak  
   NT4 ctx spheromak  
   NT4 globus-m spheromak  
   NT4 mast tokamak  
   NT4 nstx device  
   NT4 ssp device  
   NT4 sunist spheromak  
   NT4 ts-3 device  
 NT3 st tokamak  
 NT3 starfire tokamak  
 NT3 start tokamak  
 NT3 stor-m tokamak  
 NT3 stx devices  
 NT3 surmac tokamak  
 NT3 t-10 tokamak  
 NT3 t-14 tokamak  
 NT3 t-15 tokamak  
 NT3 t-7 tokamak  
 NT3 tbr tokamak  
 NT3 tca tokamak  
 NT3 tcabr tokamak  
 NT3 tcv tokamak  
 NT3 text devices  
 NT3 textor tokamak  
 NT3 tfr tokamak  
 NT3 tfr tokamak  
 NT3 tiber-x tokamak  
 NT3 tj-1 tokamak  
 NT3 tnt-a tokamak  
 NT3 tokapole devices  
 NT3 tokoloshe tokamak  
 NT3 tore supra tokamak  
 NT3 tormac devices  
 NT3 tortus tokamak  
 NT3 torus-ii tokamak  
 NT3 toasca tokamak  
 NT3 tpx device

NT3 triam-1 tokamak  
 NT3 tuman devices  
 NT3 two-component torus  
 NT3 uwmak devices  
 NT3 varennnes tokamak  
 NT3 versator tokamak  
 NT3 wt-3 tokamak  
 NT2 toroidal pinch devices  
   NT3 reversed-field pinch devices  
     NT4 artemis device  
     NT4 extrap-t2 device  
     NT4 hbtx devices  
     NT4 mst device  
     NT4 rfx device  
     NT4 tpe-1rm15 device  
     NT4 tpe-rx device  
     NT4 zt-40 devices  
     NT4 zt-p devices  
   NT3 tlp devices  
     NT4 zeta devices  
   NT3 toroidal screw pinch devices  
     NT4 stp-3m device  
     NT4 tpe-2 device  
   NT3 toroidal theta pinch devices  
     NT4 scyllac devices  
 NT1 icf devices  
 NT2 angara-5 device  
 NT1 migma devices  
 NT1 open plasma devices  
   NT2 baseball devices  
   NT2 linear pinch devices  
     NT3 linear hard core pinch devices  
     NT3 linear screw pinch devices  
     NT3 linear theta pinch devices  
       NT4 isar devices  
       NT4 scylla devices  
     NT3 linear z pinch devices  
   NT2 magnetic mirrors  
     NT3 2x devices  
     NT3 alice  
     NT3 beta ii devices  
     NT3 bumpy tori  
       NT4 elmo bumpy torus  
     NT3 burnout devices  
     NT3 circe devices  
     NT3 deca devices  
     NT3 elmo devices  
       NT4 elmo bumpy torus  
     NT3 gol-3 device  
     NT3 imp device  
     NT3 mftf devices  
     NT3 ogra  
     NT3 phoenix devices  
     NT3 pleiade device  
     NT3 reversed-field mirrors  
     NT3 tandem mirrors  
       NT4 gamma 10 devices  
       NT4 phaedrus mirror devices  
       NT4 tara devices  
       NT4 tmx devices  
   NT2 plasma focus devices  
     NT3 pf-1000 device  
   NT2 q devices  
     NT3 helios devices  
     NT3 qp devices  
 NT1 pinch devices  
   NT2 field-reversed theta pinch devices  
   NT2 linear pinch devices  
     NT3 linear hard core pinch devices  
     NT3 linear screw pinch devices  
     NT3 linear theta pinch devices  
       NT4 isar devices  
       NT4 scylla devices  
     NT3 linear z pinch devices  
   NT2 toroidal pinch devices  
     NT3 reversed-field pinch devices  
       NT4 artemis device  
       NT4 extrap-t2 device  
       NT4 hbtx devices

NT4 mst device  
 NT4 rfx device  
 NT4 tpe-1rm15 device  
 NT4 tpe-rx device  
 NT4 zt-40 devices  
 NT4 zt-p devices  
 NT3 tlp devices  
 NT4 zeta devices  
 NT3 toroidal screw pinch devices  
   NT4 stp-3m device  
   NT4 tpe-2 device  
 NT3 toroidal theta pinch devices  
   NT4 scyllac devices  
 NT1 vintotron devices  
 RT beam injection  
 RT breeding blankets  
 RT confinement time  
 RT d-t operation  
 RT discharge quenching  
 RT lawson criterion  
 RT limiters  
 RT magnetic field configurations  
 RT mass balance  
 RT plasma heating  
 RT plasma production  
 RT rotational transform  
 RT thermonuclear reactors  
 RT tritium recovery

**THERMONUCLEAR EXPLOSIONS**

UF *bravo event*  
 UF *mike event*  
 UF *schooner event*  
 \*BT1 nuclear explosions  
 RT castle project  
 RT thermonuclear reactions

**THERMONUCLEAR FUELS***1996-03-04*

UF *fusion fuels*  
 UF *reactor fuels (fusion)*  
 BT1 fuels  
 RT d-t operation  
 RT deuterium  
 RT electron beam targets  
 RT fuel feeding systems  
 RT fusion yield  
 RT gas injection  
 RT ion beam targets  
 RT laser targets  
 RT particle influx  
 RT pellet injection  
 RT recycling  
 RT thermonuclear reactor fueling  
 RT tritium  
 RT tritium systems test assembly

**THERMONUCLEAR IGNITION**

UF *ignition (thermonuclear)*  
 UF *reactor start-up (thermonuclear ignition)*  
 RT compact ignition tokamak  
 RT reactor start-up  
 RT thermonuclear reactors  
 RT tiber-x tokamak

**thermonuclear implosions (laser)**

*INIS: 1993-11-10; ETDE: 2002-06-13*  
 USE laser implosions

**THERMONUCLEAR POWER PLANTS***INIS: 1979-04-27; ETDE: 1978-08-08*

\*BT1 thermal power plants  
 RT nuclear power plants  
 RT thermonuclear reactors



**THIADIAZOLES**

*Compounds that contain a five-membered heterocyclic ring containing one sulfur and two nitrogen atoms.*

- \*BT1 azoles
- \*BT1 organic sulfur compounds

**THIAMINE**

- UF vitamin b-1
- \*BT1 amines
- \*BT1 hydroxy compounds
- \*BT1 pyrimidines
- \*BT1 thiazoles
- \*BT1 vitamin b group

**THIAZOLES**

*Compounds that contain a five-membered heterocyclic ring containing one sulfur and one nitrogen atom.*

- UF thiazolidines
- \*BT1 azoles
- \*BT1 organic sulfur compounds
- NT1 benzothiazoles
- NT1 saccharin
- NT1 thiamine

**thiazolidines**

- INIS: 1984-04-04; ETDE: 2002-06-13
- USE thiazoles

**THICKNESS**

- 2000-04-10
- Index only if essential.*
- BT1 dimensions
- RT distance
- RT half-thickness
- RT radiation length
- RT shielding
- RT size

**THICKNESS GAGES**

- BT1 measuring instruments
- RT radiometric gages

**thielavia**

- INIS: 2000-04-12; ETDE: 1981-01-09
- Thermophilic fungus capable of degrading cellulose to glucose.*
- (Prior to March 1997 this was a valid ETDE descriptor.)
- USE eumycota

**THIN FILM STORAGE DEVICES**

- BT1 memory devices

**THIN FILMS**

- INIS: 1983-12-01; ETDE: 1982-11-08
- Films a few molecules thick deposited on a substrate.*
- UF *ebd films*
- UF *energy beam deposition films*
- BT1 films
- RT coatings
- RT deposition
- RT substrates

**THIN-LAYER CHROMATOGRAPHY**

- \*BT1 chromatography

**thio compounds**

- USE organic sulfur compounds

**thioalcohols**

- USE thiols

**THIOBACILLUS FERROXIDANS**

- \*BT1 bacillus
- \*BT1 sulfur-oxidizing bacteria
- RT leaching
- RT oxidation
- RT uranium ores

**THIOBACILLUS OXIDANS**

- \*BT1 bacillus
- \*BT1 sulfur-oxidizing bacteria
- RT desulfurization
- RT leaching
- RT ore processing
- RT oxidation

**thiocarbamides**

- USE thioureas

**THIOCTIC ACID**

- UF *lipoic acid (alpha)*
- \*BT1 disulfides
- \*BT1 heterocyclic acids
- \*BT1 lipotropic factors

**THIOCYANATES**

- 1995-01-11
- UF *rhodanates*
- UF *rhodanides*
- UF *sulfocyanides*
- UF *thiocyanides*
- \*BT1 antithyroid drugs
- \*BT1 carbonic acid derivatives
- \*BT1 organic sulfur compounds
- NT1 ammonium thiocyanates
- RT isothiocyanates
- RT thiocyanic acid

**THIOCYANIC ACID**

- RT thiocyanates

**thiocyanides**

- USE thiocyanates

**thioethers**

- 1995-11-22
- USE organic sulfur compounds

**thioglycolicaminonaphthalide**

- USE thionalide

**THIOIC ACIDS**

- \*BT1 organic acids
- \*BT1 organic sulfur compounds
- RT cystaphos

**THIOLS**

- UF *mercaptans*
- UF *sulphydryl compounds*
- UF *thioalcohols*
- \*BT1 organic sulfur compounds
- NT1 cysteamine
- NT1 cysteine
- NT1 dithiols
- NT2 dimercaprol
- NT2 unithiol
- NT1 malathion
- NT1 mercaptoethylguanidine
- NT1 mercaptopurine
- NT1 mpg
- NT1 penicillamine
- NT1 thionalide
- NT1 thiouracil

**THIONALIDE**

- UF *thioglycolicaminonaphthalide*
- \*BT1 amides
- BT1 reagents
- \*BT1 thiols
- RT glycolic acid

**THIONAPHTHENES**

- UF *benzothiophenes*
- \*BT1 heterocyclic compounds
- \*BT1 organic sulfur compounds
- RT polycyclic sulfur heterocycles

**THIONATES**

- ETDE: 1976-11-17
- \*BT1 organic sulfur compounds

**THIONINE**

- \*BT1 amines
- \*BT1 heterocyclic compounds
- \*BT1 organic nitrogen compounds
- \*BT1 organic sulfur compounds
- RT phenothiazines

**THIONYL CHLORIDES**

- INIS: 2000-04-12; ETDE: 1985-06-04
- \*BT1 chlorides
- \*BT1 organic sulfur compounds

**thiopental**

- 1996-10-23
- (Until October 1996 this was a valid descriptor.)
- USE barbiturates
- USE organic sulfur compounds

**THIOPHENE**

- \*BT1 heterocyclic compounds
- \*BT1 organic sulfur compounds
- RT polycyclic sulfur heterocycles
- RT tta

**thiophenes**

- INIS: 2000-04-12; ETDE: 1983-11-23
- USE polycyclic sulfur heterocycles

**THIOPHENOLS**

- \*BT1 organic sulfur compounds

**thiophosgene**

- INIS: 2000-04-12; ETDE: 1981-06-13
- (Prior to April 1994, this was a valid ETDE descriptor.)
- USE organic chlorine compounds
- USE organic sulfur compounds

**THIOPHOSPHORIC ACID ESTERS**

- \*BT1 esters
- NT1 cystaphos
- NT1 gammaphos
- NT1 parathion
- RT organic phosphorus compounds
- RT organic sulfur compounds

**THIOSORBIC PROCESS**

- INIS: 2000-04-12; ETDE: 1977-08-24
- Sulfur dioxide converts magnesium sulfite to bisulfite in the scrubber, which is regenerated to soluble magnesium sulfite and precipitated calcium sulfite.*
- \*BT1 desulfurization
- RT scrubbers
- RT waste processing

**THIOSULFATES**

- RT sulfates

**THIOURACIL**

- \*BT1 antimetabolites
- \*BT1 antithyroid drugs
- \*BT1 thiols
- \*BT1 uracils

**THIOUREA**

- \*BT1 antithyroid drugs
- \*BT1 thioureas

**THIOUREAS**

- UF *thiocarbamides*
- \*BT1 carbonic acid derivatives
- \*BT1 organic sulfur compounds
- NT1 beta-aminoethyl isothiouraea
- NT1 thiourea
- RT amides

**third-harmonic generation**

- INIS: 2000-04-12; ETDE: 1986-01-14
- USE harmonic generation

**third party liability convention,  
brussels**

INIS: 1993-11-10; ETDE: 2002-06-13  
USE bcstpc

**third party liability convention, paris**

INIS: 1993-11-10; ETDE: 2001-01-23  
USE pctopl

**THIRD-PARTY USE**

2004-09-17

- BT1 uses
- RT agreements
- RT contracts
- RT leasing

**THIRD SOUND**

- RT sound waves
- RT superfluidity

**THIRRING MODEL**

- RT merons
- RT quantum field theory

**THIXOTROPY**

INIS: 1992-07-21; ETDE: 1976-07-07  
*Property of certain gels which liquefy when subjected to vibratory forces.*

- RT gels
- RT plasticity
- RT rheology
- RT stability
- RT viscosity

**THIYL RADICALS**

*For RS- radicals where R is organic component.*

- BT1 radicals

**thomas-fermi-dirac model**

USE thomas-fermi model

**THOMAS-FERMI MODEL**

1999-03-17

- UF fermi-thomas model
- UF thomas-fermi-dirac model
- \*BT1 atomic models
- RT nuclear models

**thomas jefferson national accelerator  
facility**

INIS: 1999-09-23; ETDE: 1997-03-28  
USE cebaf accelerator

**thomason collectors**

INIS: 2000-04-12; ETDE: 1978-09-11  
USE trickle-type collectors

**THOMSON SCATTERING**

- \*BT1 inelastic scattering

**THOR REACTOR**

*Hsin-Chu, Taiwan.*

- UF topr reactor
- \*BT1 enriched uranium reactors
- \*BT1 intermediate reactors
- \*BT1 isotope production reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 training reactors

**thoracic duct**

USE lymph vessels

**thorax**

USE chest

**THOREX PROCESS**

- \*BT1 reprocessing
- RT solvent extraction

**THORIANITE**

- \*BT1 oxide minerals

- \*BT1 thorium minerals
- \*BT1 uranium minerals
- RT black sands
- RT thorium oxides
- RT uranium oxides

**THORIN**

- BT1 arsenic compounds
- \*BT1 diazo compounds
- \*BT1 naphthols
- BT1 reagents
- \*BT1 sulfonic acids

**THORITE**

- \*BT1 silicate minerals
- \*BT1 thorium minerals
- NT1 jiningite
- RT black sands
- RT thorium silicates

**THORIUM**

- \*BT1 actinides
- NT1 thorium-alpha
- NT1 thorium-beta
- RT natural radioactivity

**THORIUM 212**

INIS: 1979-09-18; ETDE: 1979-10-23

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 213**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 214**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 215**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 216**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 217**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 218**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 219**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 220**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 microseconds living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 221**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 222**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 223**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 seconds living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 224**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 225**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 226**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 thorium isotopes

**THORIUM 227**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 thorium isotopes

**THORIUM 228**

UF radiothorium

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 thorium isotopes
- \*BT1 years living radioisotopes

**THORIUM 228 TARGET**

INIS: 1986-10-29; ETDE: 1984-09-21  
BT1 targets

**THORIUM 229**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 thorium isotopes
- \*BT1 years living radioisotopes

**THORIUM 229 TARGET**

ETDE: 1976-07-09  
BT1 targets

**THORIUM 230**

- \*BT1 actinide nuclei





NT1 thorium 227  
 NT1 thorium 228  
 NT1 thorium 229  
 NT1 thorium 230  
 NT1 thorium 231  
 NT1 thorium 232  
 NT1 thorium 233  
 NT1 thorium 234  
 NT1 thorium 235  
 NT1 thorium 236  
 NT1 thorium 237  
 NT1 thorium 238

**THORIUM MINERALS**

1996-11-13

UF aescynite  
 UF cerianite  
 UF huttonite  
 UF steenstrupine  
 UF thorigummite  
 UF uranothorianite  
 UF yttrialite  
 \*BT1 radioactive minerals  
 NT1 allanite  
 NT1 bastnaesite  
 NT1 brannerite  
 NT1 ekanite  
 NT1 freyalite  
 NT1 hydrothorite  
 NT1 lodochnikite  
 NT1 lyndochite  
 NT1 mackintoshite  
 NT1 maitlandite  
 NT1 monazites  
 NT1 naegite  
 NT1 thorianite  
 NT1 thorite  
 NT2 jiningite  
 NT1 thucholite  
 NT1 uranothorite  
 RT thorium oxides  
 RT thorium phosphates  
 RT thorium silicates

**THORIUM NITRATES**

\*BT1 nitrates  
 \*BT1 thorium compounds

**THORIUM NITRIDES**

\*BT1 nitrides  
 \*BT1 thorium compounds

**THORIUM ORES**

BT1 ores  
 RT thorium deposits  
 RT thorium reserves

**THORIUM OXIDES**

1996-11-13

\*BT1 oxides  
 \*BT1 thorium compounds  
 NT1 thorotrast  
 RT bastnaesite  
 RT brannerite  
 RT lodochnikite  
 RT lyndochite  
 RT naegite  
 RT oxide minerals  
 RT td-nickel  
 RT td-nickel chromium  
 RT thorianite  
 RT thorium minerals

**thorium perchlorates**

1997-01-28

(Until October 1996 this was a valid descriptor.)  
 USE perchlorates  
 USE thorium compounds

**THORIUM PHOSPHATES**

\*BT1 phosphates  
 \*BT1 thorium compounds  
 RT monazites  
 RT thorium minerals

**THORIUM PHOSPHIDES**

\*BT1 phosphides  
 \*BT1 thorium compounds

**THORIUM REACTORS**

BT1 reactors  
 NT1 avr reactor  
 NT1 borax-4 reactor  
 NT1 dragon reactor  
 NT1 err reactor  
 NT1 sre reactor  
 NT1 thtr-300 reactor  
 RT ica-zpr reactor  
 RT zenith reactor

**THORIUM RESERVES**

INIS: 1986-05-26; ETDE: 1976-04-19

\*BT1 reserves  
 RT thorium ores

**THORIUM SELENIDES**

1975-10-23

\*BT1 selenides  
 \*BT1 thorium compounds

**THORIUM SILICATES**

1996-11-13

\*BT1 silicates  
 \*BT1 thorium compounds  
 RT allanite  
 RT ekanite  
 RT freyalite  
 RT hydrothorite  
 RT mackintoshite  
 RT maitlandite  
 RT silicate minerals  
 RT thorite  
 RT thorium minerals  
 RT uranothorite

**THORIUM SILICIDES**

INIS: 1977-07-05; ETDE: 1976-03-11

\*BT1 silicides  
 \*BT1 thorium compounds

**THORIUM SULFATES**

\*BT1 sulfates  
 \*BT1 thorium compounds

**THORIUM SULFIDES**

\*BT1 sulfides  
 \*BT1 thorium compounds

**THORIUM TELLURIDES**

INIS: 1976-02-24; ETDE: 1976-04-19

\*BT1 tellurides  
 \*BT1 thorium compounds

**thorium tungstates**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE thorium compounds  
 USE tungstates

**thorium x**

USE radium 224

**thorogummite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

USE silicate minerals  
 USE thorium minerals

**thoron**

USE radon 220

**THOROTRAST**

BT1 contrast media  
 \*BT1 radiocolloids  
 \*BT1 thorium oxides

**thr reactor**

INIS: 1991-09-17; ETDE: 1991-11-22

Test Heating Reactor, Tsinghua University, Beijing, China.

(Prior to January 2003 this was a valid descriptor.)

USE nhr-5 reactor

**THREADED JOINTS**

INIS: 1988-11-16; ETDE: 1982-10-05

BT1 joints

**THREE-BODY PROBLEM**

BT1 many-body problem  
 RT efimov effect  
 RT faddeev equations

**THREE-DIMENSIONAL CALCULATIONS**

UF 3-dimensional calculations  
 UF calculations (3-dimensional)  
 RT adjoint difference method  
 RT general circulation models  
 RT many-dimensional calculations  
 RT mathematics

**THREE MILE ISLAND-1 REACTOR**

AmerGen Energy Co., LLC, Middletown, Pennsylvania, USA.

\*BT1 pwr type reactors

**THREE MILE ISLAND-2 REACTOR**

GPU Nuclear Corp., Middletown, Pennsylvania, USA. Permanently shut down in 1979 due to accident.

\*BT1 pwr type reactors

**THREE-NUCLEON TRANSFER REACTIONS**

\*BT1 multi-nucleon transfer reactions

**THREONINE**

\*BT1 amino acids  
 \*BT1 hydroxy acids

**THRESHOLD CURRENT**

INIS: 1999-03-08; ETDE: 1981-10-24

The minimum current necessary to initiate the desired response.

\*BT1 electric currents  
 RT current limiters

**THRESHOLD DETECTORS**

\*BT1 neutron detectors  
 RT activation detectors  
 RT fission chambers  
 RT fission foil detectors

**THRESHOLD DOSE**

\*BT1 radiation doses

**THRESHOLD ENERGY**

BT1 energy  
 RT interactions  
 RT nuclear reactions  
 RT scattering

**THRESHOLD RIGIDITY**

UF geomagnetic cut-off rigidity  
 RT cosmic radiation  
 RT geomagnetic field

**throat**

USE pharynx

**THROMBIN**

Code number 3.4.21.5.

\*BT1 blood coagulation factors

- \*BT1 serine proteinases
- RT thrombosis

**thrombocytes**

- USE blood platelets

**THROMBOPLASTIN**

- \*BT1 blood coagulation factors

**THROMBOPOIESIS**

- BT1 blood formation
- RT blood platelets

**THROMBOSIS**

- \*BT1 cardiovascular diseases
- \*BT1 vascular diseases
- RT blood coagulation
- RT blood vessels
- RT fibrinolysin
- RT streptococcal proteinase
- RT thrombin

**THROUGHFALL**

- INIS: 1992-08-17; ETDE: 1984-12-10  
*Rain water that passes through a vegetative canopy and reaches the soil.*
- \*BT1 rain water
  - RT acid rain
  - RT atmospheric precipitations
  - RT canopies
  - RT evaporation
  - RT forests
  - RT interception
  - RT plants
  - RT runoff

**THRUSTERS**

- 1996-07-16
- NT1 ion thrusters
  - RT missiles
  - RT positioning
  - RT propulsion
  - RT propulsion systems
  - RT ships
  - RT space vehicles

**THTR-300 REACTOR**

- 1995-05-02  
*Uentrop, Hamm, North Rhine-Westphalia, Federal Republic of Germany.*
- UF schmehausen reactor
  - UF schmehausen thr reactor
  - UF thorium-hochtemperatur prototype reactor
- \*BT1 enriched uranium reactors
  - \*BT1 helium cooled reactors
  - \*BT1 htgr type reactors
  - \*BT1 pebble bed reactors
  - \*BT1 power reactors
  - \*BT1 thermal reactors
  - \*BT1 thorium reactors

**THUCHOLITE**

- 1996-06-26
- \*BT1 bitumens
  - \*BT1 thorium minerals
  - \*BT1 uranium minerals
  - RT rare earths
  - RT uraninites

**THULIUM**

- \*BT1 rare earths

**THULIUM 144**

- 2005-11-22
- \*BT1 microseconds living radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 proton decay radioisotopes
  - \*BT1 rare earth nuclei
  - \*BT1 thulium isotopes

**THULIUM 145**

- INIS: 2003-01-03; ETDE: 2002-12-26
- \*BT1 microseconds living radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 proton decay radioisotopes
  - \*BT1 rare earth nuclei
  - \*BT1 thulium isotopes

**THULIUM 146**

- INIS: 2003-01-03; ETDE: 2002-12-26
- \*BT1 milliseconds living radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 proton decay radioisotopes
  - \*BT1 rare earth nuclei
  - \*BT1 thulium isotopes

**THULIUM 147**

- 1982-06-09
- \*BT1 milliseconds living radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 proton decay radioisotopes
  - \*BT1 rare earth nuclei
  - \*BT1 thulium isotopes

**THULIUM 148**

- 1982-06-09
- \*BT1 beta-plus decay radioisotopes
  - \*BT1 electron capture radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 rare earth nuclei
  - \*BT1 thulium isotopes

**THULIUM 149**

- INIS: 1985-04-22; ETDE: 1985-05-07
- \*BT1 odd-even nuclei
  - \*BT1 rare earth nuclei
  - \*BT1 thulium isotopes

**THULIUM 150**

- 1981-09-17
- \*BT1 isomeric transition isotopes
  - \*BT1 milliseconds living radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 rare earth nuclei
  - \*BT1 thulium isotopes

**THULIUM 151**

- INIS: 1982-08-27; ETDE: 1976-11-17
- \*BT1 odd-even nuclei
  - \*BT1 rare earth nuclei
  - \*BT1 seconds living radioisotopes
  - \*BT1 thulium isotopes

**THULIUM 152**

- INIS: 1980-12-01; ETDE: 1980-09-05
- \*BT1 electron capture radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 rare earth nuclei
  - \*BT1 seconds living radioisotopes
  - \*BT1 thulium isotopes

**THULIUM 153**

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thulium isotopes

**THULIUM 154**

- INIS: 1977-02-08; ETDE: 1977-04-13
- \*BT1 alpha decay radioisotopes
  - \*BT1 electron capture radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 rare earth nuclei
  - \*BT1 seconds living radioisotopes
  - \*BT1 thulium isotopes

**THULIUM 155**

- 1976-01-28
- \*BT1 alpha decay radioisotopes
  - \*BT1 electron capture radioisotopes

- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thulium isotopes

**THULIUM 156**

- 1976-03-02
- \*BT1 alpha decay radioisotopes
  - \*BT1 beta-plus decay radioisotopes
  - \*BT1 electron capture radioisotopes
  - \*BT1 minutes living radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 rare earth nuclei
  - \*BT1 seconds living radioisotopes
  - \*BT1 thulium isotopes

**THULIUM 157**

- 1977-01-25
- \*BT1 alpha decay radioisotopes
  - \*BT1 beta-plus decay radioisotopes
  - \*BT1 electron capture radioisotopes
  - \*BT1 minutes living radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 rare earth nuclei
  - \*BT1 thulium isotopes

**THULIUM 158**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 159**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 160**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 161**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 162**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 thulium isotopes

**THULIUM 163**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 thulium isotopes

**THULIUM 164**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 isomeric transition isotopes

- \*BT1 minutes living radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 rare earth nuclei
  - \*BT1 thulium isotopes
- THULIUM 165**
- \*BT1 beta-plus decay radioisotopes
  - \*BT1 days living radioisotopes
  - \*BT1 electron capture radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 rare earth nuclei
  - \*BT1 thulium isotopes
- THULIUM 166**
- \*BT1 beta-plus decay radioisotopes
  - \*BT1 electron capture radioisotopes
  - \*BT1 hours living radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 rare earth nuclei
  - \*BT1 thulium isotopes
- THULIUM 167**
- \*BT1 days living radioisotopes
  - \*BT1 electron capture radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 rare earth nuclei
  - \*BT1 thulium isotopes
- THULIUM 168**
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 days living radioisotopes
  - \*BT1 electron capture radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 rare earth nuclei
  - \*BT1 thulium isotopes
- THULIUM 169**
- \*BT1 odd-even nuclei
  - \*BT1 rare earth nuclei
  - \*BT1 stable isotopes
  - \*BT1 thulium isotopes
- THULIUM 169 TARGET**
- ETDE: 1976-07-09*
- BT1 targets
- THULIUM 170**
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 days living radioisotopes
  - \*BT1 electron capture radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 rare earth nuclei
  - \*BT1 thulium isotopes
- THULIUM 171**
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 rare earth nuclei
  - \*BT1 thulium isotopes
  - \*BT1 years living radioisotopes
- THULIUM 171 TARGET**
- INIS: 1992-09-23; ETDE: 1982-01-21*
- BT1 targets
- THULIUM 172**
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 days living radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 rare earth nuclei
  - \*BT1 thulium isotopes
- THULIUM 173**
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 hours living radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 rare earth nuclei
  - \*BT1 thulium isotopes
- THULIUM 174**
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 minutes living radioisotopes
  - \*BT1 odd-odd nuclei

- \*BT1 rare earth nuclei
  - \*BT1 thulium isotopes
- THULIUM 175**
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 minutes living radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 rare earth nuclei
  - \*BT1 thulium isotopes
- THULIUM 176**
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 minutes living radioisotopes
  - \*BT1 odd-odd nuclei
  - \*BT1 rare earth nuclei
  - \*BT1 thulium isotopes
- THULIUM 177**
- INIS: 1984-06-21; ETDE: 1984-07-10*
- \*BT1 beta-minus decay radioisotopes
  - \*BT1 minutes living radioisotopes
  - \*BT1 odd-even nuclei
  - \*BT1 rare earth nuclei
  - \*BT1 thulium isotopes
- THULIUM ADDITIONS**
- Alloys containing not more than 1% Tm are listed here.*
- \*BT1 rare earth additions
  - \*BT1 thulium alloys
- THULIUM ALLOYS**
- Alloys containing more than 1% Tm.*
- \*BT1 rare earth alloys
  - NT1 thulium additions
  - NT1 thulium base alloys
- thulium arsenides**
- INIS: 1996-07-15; ETDE: 1975-10-28*  
(Until June 1996 this was a valid descriptor.)
- USE arsenides
  - USE thulium compounds
- THULIUM BASE ALLOYS**
- \*BT1 thulium alloys
- THULIUM BORIDES**
- \*BT1 borides
  - \*BT1 thulium compounds
- THULIUM BROMIDES**
- \*BT1 bromides
  - \*BT1 thulium compounds
- THULIUM CARBIDES**
- \*BT1 carbides
  - \*BT1 thulium compounds
- THULIUM CHLORIDES**
- \*BT1 chlorides
  - \*BT1 thulium compounds
- THULIUM COMPLEXES**
- \*BT1 rare earth complexes
- THULIUM COMPOUNDS**
- 1997-06-19*
- UF *thulium arsenides*
  - UF *thulium phosphides*
  - BT1 rare earth compounds
  - NT1 thulium borides
  - NT1 thulium bromides
  - NT1 thulium carbides
  - NT1 thulium chlorides
  - NT1 thulium fluorides
  - NT1 thulium hydrides
  - NT1 thulium hydroxides
  - NT1 thulium iodides
  - NT1 thulium nitrates
  - NT1 thulium nitrides
  - NT1 thulium oxides
  - NT1 thulium perchlorates
  - NT1 thulium phosphates

- NT1 thulium selenides
  - NT1 thulium silicates
  - NT1 thulium silicides
  - NT1 thulium sulfates
  - NT1 thulium sulfides
  - NT1 thulium tellurides
- THULIUM FLUORIDES**
- \*BT1 fluorides
  - \*BT1 thulium compounds
- THULIUM HYDRIDES**
- \*BT1 hydrides
  - \*BT1 thulium compounds
- THULIUM HYDROXIDES**
- 2000-04-12*
- \*BT1 hydroxides
  - \*BT1 thulium compounds
- THULIUM IODIDES**
- \*BT1 iodides
  - \*BT1 thulium compounds
- THULIUM IONS**
- \*BT1 ions
- THULIUM ISOTOPES**
- BT1 isotopes
  - NT1 thulium 144
  - NT1 thulium 145
  - NT1 thulium 146
  - NT1 thulium 147
  - NT1 thulium 148
  - NT1 thulium 149
  - NT1 thulium 150
  - NT1 thulium 151
  - NT1 thulium 152
  - NT1 thulium 153
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  - NT1 thulium 167
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  - NT1 thulium 170
  - NT1 thulium 171
  - NT1 thulium 172
  - NT1 thulium 173
  - NT1 thulium 174
  - NT1 thulium 175
  - NT1 thulium 176
  - NT1 thulium 177
- THULIUM NITRATES**
- \*BT1 nitrates
  - \*BT1 thulium compounds
- THULIUM NITRIDES**
- \*BT1 nitrides
  - \*BT1 thulium compounds
- THULIUM OXIDES**
- \*BT1 oxides
  - \*BT1 thulium compounds
- THULIUM PERCHLORATES**
- INIS: 2000-04-12; ETDE: 1975-10-28*
- \*BT1 perchlorates
  - \*BT1 thulium compounds

**THULIUM PHOSPHATES**

INIS: 1975-10-23; ETDE: 1975-12-16

- \*BT1 phosphates
- \*BT1 thulium compounds

**thulium phosphides**

INIS: 1996-07-23; ETDE: 1975-11-28

(Until July 1996 this was a valid descriptor.)

- USE phosphides
- USE thulium compounds

**THULIUM SELENIDES**

- \*BT1 selenides
- \*BT1 thulium compounds

**THULIUM SILICATES**

INIS: 2000-04-12; ETDE: 1977-11-09

- \*BT1 silicates
- \*BT1 thulium compounds

**THULIUM SILICIDES**

INIS: 1978-07-31; ETDE: 1976-01-23

- \*BT1 silicides
- \*BT1 thulium compounds

**THULIUM SULFATES**

- \*BT1 sulfates
- \*BT1 thulium compounds

**THULIUM SULFIDES**

- \*BT1 sulfides
- \*BT1 thulium compounds

**THULIUM TELLURIDES**

- \*BT1 tellurides
- \*BT1 thulium compounds

**THUNDERBIRD PROJECT**

INIS: 1983-09-05; ETDE: 1975-11-26

*In-situ gasification of coal following nuclear fragmentation of rock seams.*

- UF project thunderbird
- RT coal gasification
- RT nuclear explosions
- RT underground explosions

**THYLAKOID MEMBRANE****PROTEINS**

INIS: 1993-08-05; ETDE: 1987-07-31

- \*BT1 membrane proteins
- NT1 phycobiliproteins
- NT2 phycocyanin
- RT photosynthesis
- RT photosynthetic membranes

**thylox process**

2000-04-12

*Wet scrubbing process for the removal of hydrogen sulfide using ammonium thioarsenate.*

(Prior to March 1994, this was a valid ETDE descriptor.)

- USE desulfurization

**thyme camphor**

- USE thymol

**THYMECTOMY**

- \*BT1 surgery
- RT immunity
- RT thymus

**thymic acid**

- USE thymol

**THYMIDINE**

- \*BT1 nucleosides
- \*BT1 pyrimidines
- RT thymine

**THYMYDYLIC ACID**

- \*BT1 nucleotides
- RT thymine

**THYMINE**

1996-07-08

- UF 5-methyl uracil
- UF 5-methyluracil
- \*BT1 uracils
- RT thymidine
- RT thymidyllic acid

**THYMOCYTES**

- \*BT1 somatic cells
- RT thymus

**THYMOL**

- UF hydroxy-para-cymene
- UF isopropyl cresol
- UF thyme camphor
- UF thymic acid
- \*BT1 phenols
- RT cymene

**thymonucleic acid**

1996-07-15

(Until June 1996 this was a valid descriptor.)

- USE nucleic acids

**THYMUS**

- BT1 lymphatic system
- \*BT1 organs
- RT calcitonin
- RT chest
- RT immune system diseases
- RT lymphocytes
- RT mediastinum
- RT thymectomy
- RT thymocytes
- RT thymus cells

**THYMUS CELLS**

- \*BT1 somatic cells
- RT thymus

**THYRATONS**

- \*BT1 gas discharge tubes
- RT rectifier tubes
- RT switching circuits

**THYRISTORS**

- BT1 semiconductor devices
- RT rectifiers
- RT switching circuits

**THYROCALCITONIN**

- \*BT1 thyroid hormones
- RT calcium

**THYROGLOBULIN**

- \*BT1 globulins
- RT iodine
- RT thyroid
- RT thyroid hormones
- RT thyroxine

**THYROID**

- \*BT1 endocrine glands
- RT antithyroid drugs
- RT blood-plasma clearance
- RT calcitonin
- RT goiter
- RT iodine
- RT neck
- RT parathyroid glands
- RT thyroglobulin
- RT thyroid cells
- RT thyroid hormones
- RT thyroidectomy
- RT thyroiditis

**thyroid antagonists**

- USE antithyroid drugs

**THYROID CELLS**

INIS: 1981-07-08; ETDE: 1980-10-27

- \*BT1 somatic cells
- RT thyroid

**THYROID HORMONES**

- \*BT1 peptide hormones
- NT1 diiodothyronine
- NT1 thyrocalcitonin
- NT1 thyroxine
- NT1 triiodothyronine
- RT hyperthyroidism
- RT hypothyroidism
- RT iodine
- RT metabolism
- RT pbi
- RT thyroglobulin
- RT thyroid
- RT thyronine
- RT tsh

**thyroid stimulating hormone**

- USE tsh

**THYROIDECTOMY**

- \*BT1 surgery
- RT thyroid

**THYROIDITIS**

- \*BT1 endocrine diseases
- RT thyroid

**THYRONINE**

- UF desiodothyroxine
- \*BT1 amino acids
- \*BT1 hydroxy acids
- \*BT1 peptide hormones
- RT diiodothyronine
- RT ethers
- RT thyroid hormones
- RT thyroxine
- RT triiodothyronine

**thyrotoxicosis**

- USE hyperthyroidism

**thyrotropin-releasing hormone**

- USE trh

**THYROXINE**

- UF t4 hormone
- \*BT1 amino acids
- \*BT1 organic iodine compounds
- \*BT1 thyroid hormones
- RT ethers
- RT thyroglobulin
- RT thyronine

**thyssen-galocsy process**

2000-04-12

(Prior to July 1993, this was a valid ETDE descriptor.)

- SEE coal gasification

**THZ RANGE**

2003-03-21

- UF terahertz frequency range
- BT1 frequency range
- NT1 thz range 01-100
- NT1 thz range 100-1000

**THZ RANGE 01-100**

2003-03-21

- \*BT1 thz range

**THZ RANGE 100-1000**

2003-03-21

- \*BT1 thz range

**TIANWAN-1 REACTOR**

INIS: 2001-03-15; ETDE: 2001-02-05

*Tianwan, Jiangsu, China.*

- \*BT1 wwer type reactors

**TIBER-X TOKAMAK**

INIS: 1987-09-23; ETDE: 1987-04-08  
Compact, 3-m radius, steady-state tokamak  
with ECH/1H current drive and profile  
control.

\*BT1 tokamak devices  
RT thermonuclear ignition

**TIBET**

2000-04-12

\*BT1 china

**TIBIA**

\*BT1 skeleton  
RT legs

**TIBR REACTOR**

INIS: 1986-12-09; ETDE: 1987-03-09

\*BT1 enriched uranium reactors  
\*BT1 fast reactors  
\*BT1 pulsed reactors  
\*BT1 research reactors  
\*BT1 transportable reactors

**TICKS**

\*BT1 arachnids

**tid**

USE travelling ionospheric disturbance

**TIDAL POWER**

1982-10-29

\*BT1 renewable energy sources  
RT tidal power plants  
RT tide  
RT water current power generators

**TIDAL POWER PLANTS**

1997-06-19

BT1 power plants  
NT1 kislogubsk power plant  
NT1 passamaquoddy power plant  
NT1 rance power plant  
RT tidal power

**tidal waves**

USE tsunamis

**TIDE**

1985-07-19

(Prior to August 1985 TIDES was a valid INIS  
descriptor.)

RT seas  
RT tidal power  
RT water currents  
RT water waves

**tight sands**

INIS: 2000-04-12; ETDE: 1980-12-08

USE permeability  
USE sandstones

**tigliament oil**

1996-10-22

(Prior to March 1997 CROTON OIL was used  
for this concept in ETDE.)

USE triglycerides  
USE vegetable oils

**TIGRIS RIVER**

INIS: 1988-05-13; ETDE: 1988-06-24

\*BT1 rivers  
RT iraq  
RT turkey

**tihange-1 reactor**

INIS: 1982-04-14; ETDE: 1982-05-07

USE tihange reactor

**TIHANGE-2 REACTOR**

INIS: 1982-04-14; ETDE: 1982-05-07

\*BT1 pwr type reactors

**TIHANGE-3 REACTOR**

INIS: 1982-04-14; ETDE: 1982-05-07

\*BT1 pwr type reactors

**TIHANGE REACTOR**

Tihange, Liege, Belgium.

UF tihange-1 reactor

\*BT1 pwr type reactors

**tikonol**

INIS: 1997-01-28; ETDE: 1975-12-16

(Until October 1996 this was a valid  
descriptor.)

USE iron base alloys

**til oil**

USE sesame oil

**TILT MECHANISMS**

INIS: 2000-04-12; ETDE: 1981-07-18

RT inclination  
RT orientation  
RT solar tracking  
RT wind turbines

**tilting (neutron flux)**

USE neutron flux tilting

**TILTING INSTABILITY**

INIS: 1984-02-22; ETDE: 1984-03-06

\*BT1 plasma macroinstabilities

**TIME DELAY**

INIS: 1992-01-31; ETDE: 1983-03-23

UF timeliness  
RT administrative procedures  
RT contracts  
RT legal aspects  
RT management  
RT procurement  
RT schedules  
RT time measurement

**TIME DEPENDENCE**

RT blood-plasma clearance  
RT confinement time  
RT delayed radiation effects  
RT differential pac  
RT dose rates  
RT early radiation effects  
RT flow rate  
RT heating rate  
RT incubation  
RT instability growth rates  
RT mortality  
RT quarantine  
RT relaxation time  
RT retention functions  
RT survival time  
RT temporal dose distributions

**TIME INTERVAL ANALYZERS**

BT1 measuring instruments  
NT1 chronotrons  
RT atomic clocks  
RT time measurement

**TIME LIMITATIONS**

INIS: 1976-12-08; ETDE: 1994-08-10

For time limitations on liability for damages.

RT liabilities  
RT liability limitations  
RT nuclear liability

**TIME MEASUREMENT**

(From February 1976 till March 1997  
PENDULUMS was a valid ETDE descriptor.)

SF pendulums  
RT atomic clocks  
RT calendars  
RT coincidence circuits  
RT dead time

RT measuring instruments  
RT pulse rise time  
RT time delay  
RT time interval analyzers  
RT timing circuits  
RT timing properties

**time-of-day pricing**

INIS: 2000-04-12; ETDE: 1979-05-03

USE time-of-use pricing

**TIME-OF-FLIGHT MASS  
SPECTROMETERS**

INIS: 1976-01-28; ETDE: 1988-09-21

\*BT1 dynamic mass spectrometers  
\*BT1 time-of-flight spectrometers

**TIME-OF-FLIGHT METHOD**

RT charge plunger method  
RT time-of-flight spectrometers

**TIME-OF-FLIGHT  
SPECTROMETERS**

\*BT1 spectrometers  
NT1 time-of-flight mass spectrometers  
RT time-of-flight method

**time-of-season pricing**

INIS: 2000-04-12; ETDE: 1980-05-06

USE seasonal variations  
USE time-of-use pricing

**TIME-OF-USE PRICING**

INIS: 2000-04-12; ETDE: 1980-05-06

Pricing of service during periods of the day or  
during different seasons of the year based on  
cost of supplying the service during the time of  
day or season.

UF time-of-day pricing  
UF time-of-season pricing  
BT1 prices  
RT electric power  
RT load management  
RT off-peak power  
RT peak-load pricing  
RT seasonal variations

**TIME PROJECTION CHAMBERS**

INIS: 1988-08-02; ETDE: 1979-02-23

(Prior to August, 1988, this concept was  
indexed by PROJECTION SPARK  
CHAMBERS.)

UF tpc  
\*BT1 drift chambers  
RT projection spark chambers

**TIME RESOLUTION**

Minimum time interval between events to be  
detected.

BT1 resolution  
BT1 timing properties  
RT pulse pileup

**time-reversal invariance**

USE t invariance

**TIME-SERIES ANALYSIS**

INIS: 1996-05-06; ETDE: 1978-02-14

\*BT1 statistics  
RT decision making  
RT forecasting  
RT mathematical models

**TIME-TO-AMPLITUDE  
CONVERTERS**

\*BT1 pulse converters

**timeliness**

INIS: 2000-04-12; ETDE: 1983-03-23

USE time delay

**TIMING CIRCUITS**

- BT1 electronic circuits
- RT dead time
- RT discriminators
- RT sweep circuits
- RT time measurement
- RT timing properties

**TIMING PROPERTIES**

*Properties of a detector, circuit or other component related to time measurement, such as its pulse rise time or time resolution, etc.*

- NT1 dead time
- NT1 pulse rise time
- NT1 time resolution
- RT pulse pileup
- RT time measurement
- RT timing circuits

**TIMKEN ALLOYS**

*2000-04-12*

- \*BT1 chromium-nickel steels
- \*BT1 cobalt alloys
- \*BT1 molybdenum alloys

**TIMOR SEA**

*INIS: 2000-04-12; ETDE: 1995-10-03*

- \*BT1 indian ocean
- RT australia
- RT indonesia

**TIN**

- \*BT1 metals

**TIN 100**

*INIS: 1985-09-06; ETDE: 1985-03-12*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 tin isotopes

**TIN 101**

*INIS: 1992-09-23; ETDE: 1985-10-25*

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 tin isotopes

**TIN 102**

*INIS: 1997-02-07; ETDE: 1985-03-12*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 seconds living radioisotopes
- \*BT1 tin isotopes

**TIN 103**

*INIS: 1980-07-24; ETDE: 1980-08-12*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tin isotopes

**TIN 104**

*INIS: 1976-11-08; ETDE: 1976-09-15*

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 tin isotopes

**TIN 105**

*INIS: 1980-07-24; ETDE: 1980-08-12*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tin isotopes

**TIN 106**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes

**TIN 107**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes

**TIN 108**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes

**TIN 109**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes

**TIN 110**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 tin isotopes

**TIN 110 TARGET**

*INIS: 1980-07-24; ETDE: 1980-08-12*  
BT1 targets

**TIN 111**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes

**TIN 112**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 112 REACTIONS**

*INIS: 1991-10-22; ETDE: 1991-11-26*  
\*BT1 heavy ion reactions

**TIN 112 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TIN 113**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes
- RT radioisotope generators

**TIN 114**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 114 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**TIN 115**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 115 TARGET**

*INIS: 1976-10-29; ETDE: 1976-12-16*  
BT1 targets

**TIN 116**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 116 REACTIONS**

*INIS: 1987-11-02; ETDE: 1987-12-23*  
\*BT1 heavy ion reactions

**TIN 116 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TIN 117**

- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 117 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TIN 118**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 118 REACTIONS**

*INIS: 1987-06-29; ETDE: 1987-07-09*  
\*BT1 heavy ion reactions

**TIN 118 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TIN 119**

- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 119 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TIN 120**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 120 BEAMS**

*INIS: 1984-05-24; ETDE: 1984-06-29*  
\*BT1 ion beams

**TIN 120 REACTIONS**

*INIS: 1978-07-03; ETDE: 1978-08-07*  
\*BT1 heavy ion reactions

**TIN 120 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TIN 121**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 tin isotopes
- \*BT1 years living radioisotopes

**TIN 122**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 122 REACTIONS**

- INIS: 1980-09-12; ETDE: 1980-10-07*  
\*BT1 heavy ion reactions

**TIN 122 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**TIN 123**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes

**TIN 124**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 tin isotopes

**TIN 124 REACTIONS**

- INIS: 1980-12-01; ETDE: 1981-01-09*  
\*BT1 heavy ion reactions

**TIN 124 TARGET**

- ETDE: 1976-07-09*  
BT1 targets

**TIN 125**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes

**TIN 125 TARGET**

- INIS: 1992-09-23; ETDE: 1984-10-10*  
BT1 targets

**TIN 126**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 tin isotopes
- \*BT1 years living radioisotopes

**TIN 126 TARGET**

- INIS: 1980-04-02; ETDE: 1980-05-06*  
BT1 targets

**TIN 127**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes

**TIN 128**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 seconds living radioisotopes

- \*BT1 tin isotopes

**TIN 129**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes

**TIN 130**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tin isotopes

**TIN 131**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 seconds living radioisotopes
- \*BT1 tin isotopes

**TIN 132**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tin isotopes

**TIN 133**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tin isotopes

**TIN 134**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 tin isotopes

**TIN 135**

*2004-12-15*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 tin isotopes

**TIN 137**

*2004-12-15*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 tin isotopes

**TIN ADDITIONS**

*Alloys containing not more than 1% Sn are listed here.*

- \*BT1 tin alloys
- NT1 zamak

**TIN ALLOYS**

*Alloys containing more than 1% Sn.*

*UF transage 175*

- BT1 alloys
- NT1 alloy-bi50pb25cd12sn12
- NT2 wood metal
- NT1 alloy-zr98sn-2
- NT2 zircaloy 2
- NT1 alloy-zr98sn-4
- NT2 zircaloy 4
- NT1 bronze
- NT1 cerrobend alloys
- NT1 lichtenberg alloy

- NT1 newton-metal
- NT1 ounce metal
- NT1 rose-metal
- NT1 terne-metal
- NT1 tin additions
- NT2 zamak
- NT1 tin base alloys

**TIN ARSENIDES**

*INIS: 2000-04-12; ETDE: 1975-11-11*

- \*BT1 arsenides
- BT1 tin compounds

**TIN BASE ALLOYS**

- \*BT1 tin alloys

*tin borides*

*1996-07-15*

(Until June 1996 this was a valid descriptor.)

- USE borides
- USE tin compounds

**TIN BROMIDES**

- \*BT1 bromides
- \*BT1 tin halides

**TIN CARBIDES**

*INIS: 2000-04-12; ETDE: 1975-12-16*

- \*BT1 carbides
- BT1 tin compounds

**TIN CHLORIDES**

- \*BT1 chlorides
- \*BT1 tin halides

**TIN COMPLEXES**

- BT1 complexes

**TIN COMPOUNDS**

*1997-06-19*

- UF tin borides*
- NT1 stannates
- NT2 cadmium stannates
- NT1 tin arsenides
- NT1 tin carbides
- NT1 tin halides
- NT2 tin bromides
- NT2 tin chlorides
- NT2 tin fluorides
- NT2 tin iodides
- NT1 tin hydrides
- NT1 tin hydroxides
- NT1 tin nitrides
- NT1 tin oxides
- NT1 tin phosphates
- NT1 tin phosphides
- NT1 tin selenides
- NT1 tin sulfates
- NT1 tin sulfides
- NT1 tin tellurides
- NT1 tin tungstates

**TIN FLUORIDES**

- \*BT1 fluorides
- \*BT1 tin halides

**TIN HALIDES**

*INIS: 1991-09-16; ETDE: 1977-06-24*

- \*BT1 halides
- BT1 tin compounds
- NT1 tin bromides
- NT1 tin chlorides
- NT1 tin fluorides
- NT1 tin iodides

**TIN HYDRIDES**

- \*BT1 hydrides
- BT1 tin compounds

**TIN HYDROXIDES**

- \*BT1 hydroxides
- BT1 tin compounds

**TIN IODIDES**

- \*BT1 iodides  
 \*BT1 tin halides

**TIN IONS**

- \*BT1 ions

**TIN ISOTOPES**

1999-07-16

- BT1 isotopes  
 NT1 tin 100  
 NT1 tin 101  
 NT1 tin 102  
 NT1 tin 103  
 NT1 tin 104  
 NT1 tin 105  
 NT1 tin 106  
 NT1 tin 107  
 NT1 tin 108  
 NT1 tin 109  
 NT1 tin 110  
 NT1 tin 111  
 NT1 tin 112  
 NT1 tin 113  
 NT1 tin 114  
 NT1 tin 115  
 NT1 tin 116  
 NT1 tin 117  
 NT1 tin 118  
 NT1 tin 119  
 NT1 tin 120  
 NT1 tin 121  
 NT1 tin 122  
 NT1 tin 123  
 NT1 tin 124  
 NT1 tin 125  
 NT1 tin 126  
 NT1 tin 127  
 NT1 tin 128  
 NT1 tin 129  
 NT1 tin 130  
 NT1 tin 131  
 NT1 tin 132  
 NT1 tin 133  
 NT1 tin 134  
 NT1 tin 135  
 NT1 tin 137

**TIN NITRIDES**

1976-06-23

- \*BT1 nitrides  
 BT1 tin compounds

**TIN ORES**

INIS: 1978-08-30; ETDE: 1975-10-01

- BT1 ores

**TIN OXIDES**

- \*BT1 oxides  
 BT1 tin compounds  
 RT stannates

**TIN PHOSPHATES**

- \*BT1 phosphates  
 BT1 tin compounds

**TIN PHOSPHIDES**

INIS: 1977-01-25; ETDE: 1975-11-11

- \*BT1 phosphides  
 BT1 tin compounds

**TIN SELENIDES**

1976-07-16

- \*BT1 selenides  
 BT1 tin compounds

**TIN SULFATES**

- \*BT1 sulfates  
 BT1 tin compounds

**TIN SULFIDES**

- \*BT1 sulfides

- BT1 tin compounds

**TIN TELLURIDES**

- \*BT1 tellurides  
 BT1 tin compounds

**TIN TUNGSTATES**

2000-04-12

- BT1 tin compounds  
 \*BT1 tungstates

**TINEA**

INIS: 2000-04-12; ETDE: 1979-07-18

- \*BT1 fungal diseases  
 RT fungi

**tioga nitrogen removal process**

INIS: 2000-04-12; ETDE: 1976-03-22

(Prior to February 1995, this was a valid ETDE descriptor.)

- USE nitrogen  
 USE removal

**TIPVANE ROTORS**

INIS: 2000-04-12; ETDE: 1978-09-13

Horizontal axis turbines with small wings attached at right angles to the rotor tips.

- UF dynamic inducer rotors  
 BT1 rotors  
 RT horizontal axis turbines  
 RT wind turbines

**TIRES**

1992-03-16

- RT vehicles  
 RT wheels

**TIRON**

- \*BT1 polyphenols  
 BT1 reagents  
 \*BT1 sodium compounds  
 \*BT1 sulfonic acids

**TISSUE CULTURES**

- UF cultures (tissue)  
 UF organ cultures  
 RT animal tissues  
 RT cell cultures  
 RT culture media  
 RT in vitro

**TISSUE DISTRIBUTION**

1985-12-11

- BT1 distribution  
 RT animal tissues  
 RT biological localization  
 RT radionuclide kinetics

**tissue equivalent chambers**

- USE bragg gray chambers

**TISSUE-EQUIVALENT DETECTORS**

- \*BT1 radiation detectors  
 RT dose equivalents

**TISSUE-EQUIVALENT MATERIALS**

- BT1 materials  
 RT animal tissues  
 RT phantoms

**TISSUE EXTRACTS**

- \*BT1 biological materials  
 RT animal tissues  
 RT cell constituents  
 RT mitogens

**tissues**

1996-03-12

(Until March 1996 this was a valid term with its meaning restricted to ANIMAL TISSUES.)

- SEE animal tissues  
 SEE plant tissues

**TITANATES**

1997-06-17

- BT1 oxygen compounds  
 \*BT1 titanium compounds  
 NT1 cadmium titanates  
 NT1 lithium titanates  
 NT1 plzt  
 NT1 pzt  
 NT1 strontium titanates  
 RT titanium oxides

**TITANITE**

UF sphene

- \*BT1 silicate minerals  
 RT titanium silicates

**TITANIUM**

- \*BT1 transition elements  
 NT1 titanium-alpha  
 NT1 titanium-beta  
 RT kroll process

**TITANIUM 39**

INIS: 1988-11-16; ETDE: 1988-12-02

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 light nuclei  
 \*BT1 titanium isotopes

**TITANIUM 40**

INIS: 1990-05-16; ETDE: 1990-06-01

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 light nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 titanium isotopes

**TITANIUM 41**

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 titanium isotopes

**TITANIUM 42**

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 titanium isotopes

**TITANIUM 43**

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 titanium isotopes

**TITANIUM 44**

- \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 titanium isotopes  
 \*BT1 years living radioisotopes

**TITANIUM 44 TARGET**

INIS: 1978-11-24; ETDE: 1978-09-11

- BT1 targets

**TITANIUM 45**

- \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 titanium isotopes

**TITANIUM 45 TARGET**

INIS: 1977-11-21; ETDE: 1978-03-08

- BT1 targets

**TITANIUM 46**

- \*BT1 even-even nuclei



- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 titanium isotopes

**TITANIUM 46 REACTIONS**

*INIS: 1985-11-18; ETDE: 1981-06-13*  
\*BT1 heavy ion reactions

**TITANIUM 46 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TITANIUM 47**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 titanium isotopes

**TITANIUM 47 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TITANIUM 48**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 titanium isotopes

**TITANIUM 48 BEAMS**

*INIS: 1989-05-29; ETDE: 1989-06-21*  
\*BT1 ion beams

**TITANIUM 48 REACTIONS**

*INIS: 1977-09-15; ETDE: 1978-03-08*  
\*BT1 heavy ion reactions

**TITANIUM 48 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TITANIUM 49**

- \*BT1 even-odd nuclei
  - \*BT1 intermediate mass nuclei
  - \*BT1 stable isotopes
  - \*BT1 titanium isotopes
- RT titanium 49 reactions*

**TITANIUM 49 REACTIONS**

*INIS: 1992-09-23; ETDE: 1985-09-24*  
\*BT1 heavy ion reactions  
*RT titanium 49*

**TITANIUM 49 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TITANIUM 50**

- \*BT1 even-even nuclei
  - \*BT1 intermediate mass nuclei
  - \*BT1 stable isotopes
  - \*BT1 titanium isotopes
- RT titanium 50 reactions*

**TITANIUM 50 BEAMS**

*INIS: 1979-09-18; ETDE: 1979-10-23*  
\*BT1 ion beams

**TITANIUM 50 REACTIONS**

- \*BT1 heavy ion reactions
- RT titanium 50*

**TITANIUM 50 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**TITANIUM 51**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 titanium isotopes

**TITANIUM 52**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei

- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 titanium isotopes

**TITANIUM 53**

*INIS: 1976-11-08; ETDE: 1976-09-15*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 seconds living radioisotopes  
\*BT1 titanium isotopes

**TITANIUM 54**

*1980-11-07*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 titanium isotopes

**TITANIUM 55**

*INIS: 1991-02-11; ETDE: 1981-01-30*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 titanium isotopes

**TITANIUM 56**

*INIS: 1986-08-19; ETDE: 1981-01-30*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 titanium isotopes

**TITANIUM 57**

*INIS: 1986-08-19; ETDE: 1986-09-05*  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 titanium isotopes

**TITANIUM 58**

*2005-03-11*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 nanoseconds living radioisotopes  
\*BT1 titanium isotopes

**TITANIUM 59**

*2005-03-11*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 nanoseconds living radioisotopes  
\*BT1 titanium isotopes

**TITANIUM 60**

*2005-03-11*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 intermediate mass nuclei  
\*BT1 milliseconds living radioisotopes  
\*BT1 titanium isotopes

**TITANIUM ADDITIONS**

*1996-11-13*  
*Alloys containing not more than 1% Ti are listed here.*

- \*BT1 titanium alloys
- NT1 alloy-fe44ni33cr21  
NT2 incoloy 800h
- NT1 alloy-fe46ni33cr21  
NT2 incoloy 800  
NT2 incoloy 802
- NT1 alloy-in-102
- NT1 alloy-mo99  
NT2 alloy-tzm
- NT2 alloy-zm-2a
- NT1 alloy-n-10m
- NT1 alloy-ni43fe30cr22mo3  
NT2 incoloy 825

- NT1 alloy-ni51cr48  
NT2 inconel 671
- NT1 alloy-ni53cr19fe19nb5mo3  
NT2 inconel 718
- NT1 alloy-ni59cr30fe9  
NT2 inconel 690
- NT1 alloy-ni61cr22mo9nb4fe3  
NT2 inconel 625
- NT1 alloy-ni70mo17cr7fe5  
NT2 hastelloy n  
NT2 inor-8
- NT1 alloy-ni73cr20mn3nb3  
NT2 inconel 82
- NT1 alloy-ni74cr13al6mo4  
NT2 inconel 713c
- NT1 alloy-ni75cr12al6mo5  
NT2 inconel 713lc
- NT1 alloy-ni76cr15fe8  
NT2 inconel 600
- NT1 alloy-ni78cr21
- NT1 duranickel
- NT1 steel-cr15ni15motib
- NT1 steel-cr17ni13mo2ti
- NT1 steel-cr17ni13mo3ti
- NT1 steel-cr18ni10ti  
NT2 stainless steel-321
- NT1 steel-cr18ni12ti
- NT1 steel-cr18ni9ti

**TITANIUM ALLOYS**

*1996-11-13*

*Alloys containing more than 1% Ti.*

- UF nitinol*
- \*BT1 transition element alloys
- NT1 alloy-b-1900
- NT1 alloy-c-103
- NT1 alloy-d-979
- NT1 alloy-in-853
- NT1 alloy-m-813
- NT1 alloy-mar-m246
- NT1 alloy-n28t3
- NT1 alloy-ni41fe40cr16nb3  
NT2 inconel 706
- NT1 alloy-ni43fe33cr16mo3  
NT2 nimonic pe16
- NT1 alloy-ni46cr23co19ti5al4  
NT2 alloy-in-939
- NT1 alloy-ni50co20cr15al5mo5  
NT2 nimonic 105
- NT1 alloy-ni55co17cr15mo5al4ti4  
NT2 astroloy
- NT1 alloy-ni55cr19co11mo10ti3  
NT2 rene 41
- NT1 alloy-ni58cr20co14mo4ti3  
NT2 waspaloy
- NT1 alloy-ni59cr20co17ti2
- NT1 alloy-ni60co15cr10al6ti5mo3  
NT2 alloy-in-100
- NT1 alloy-ni61cr16co9al3ti3w3  
NT2 alloy-in-738
- NT1 alloy-ni73cr15fe7ti3  
NT2 inconel x750
- NT1 alloy-ni76cr20ti2  
NT2 nimonic 80a
- NT1 alloy-ni77cr20ti2
- NT1 alloy-nt25a5
- NT1 carboloy
- NT1 discaloy
- NT1 incoloy 901
- NT1 konel
- NT1 ni-o-nel
- NT1 rene-100
- NT1 rene 80
- NT1 rene 95
- NT1 stainless steel-jbk-75
- NT1 steel-cr11ni10mo2ti-1
- NT1 steel-ni26cr15ti2movalb  
NT2 alloy-a-286
- NT1 steel-ni36cr12ti3al-1

**NT1** titanium additions  
**NT2** alloy-fe44ni33cr21  
**NT3** incoloy 800h  
**NT2** alloy-fe46ni33cr21  
**NT3** incoloy 800  
**NT3** incoloy 802  
**NT2** alloy-in-102  
**NT2** alloy-mo99  
**NT3** alloy-tzm  
**NT3** alloy-zm-2a  
**NT2** alloy-n-10m  
**NT2** alloy-ni43fe30cr22mo3  
**NT3** incoloy 825  
**NT2** alloy-ni51cr48  
**NT3** inconel 671  
**NT2** alloy-ni53cr19fe19nb5mo3  
**NT3** inconel 718  
**NT2** alloy-ni59cr30fe9  
**NT3** inconel 690  
**NT2** alloy-ni61cr22mo9nb4fe3  
**NT3** inconel 625  
**NT2** alloy-ni70mo17cr7fe5  
**NT3** hastelloy n  
**NT3** inor-8  
**NT2** alloy-ni73cr20mn3nb3  
**NT3** inconel 82  
**NT2** alloy-ni74cr13al6mo4  
**NT3** inconel 713c  
**NT2** alloy-ni75cr12al6mo5  
**NT3** inconel 713c  
**NT2** alloy-ni76cr15fe8  
**NT3** inconel 600  
**NT2** alloy-ni78cr21  
**NT2** duranickel  
**NT2** steel-cr15ni15motib  
**NT2** steel-cr17ni13mo2ti  
**NT2** steel-cr17ni13mo3ti  
**NT2** steel-cr18ni10ti  
**NT3** stainless steel-321  
**NT2** steel-cr18ni12ti  
**NT2** steel-cr18ni9ti  
**NT1** titanium base alloys  
**NT2** alloy-ti78cr11mo7al3  
**NT2** alloy-ti88mo8al3  
**NT2** alloy-ti89al6mo3  
**NT2** alloy-ti90al6  
**NT2** alloy-ti90al6mo3  
**NT2** alloy-ti90al6v4  
**NT2** alloy-ti90mo7al2  
**NT2** alloy-ti91al4mo3  
**NT2** alloy-ti91al5cr2  
**NT2** alloy-ti99  
**NT1** udimet alloys  
**NT2** alloy-ni53co19cr15mo5al4ti3  
**NT3** udimet 700  
**NT2** udimet 500

**TITANIUM-ALPHA**

\*BT1 titanium

**titanium arsenides***INIS: 2000-04-12; ETDE: 1984-06-14*

(Prior to January 1993, this was a valid ETDE descriptor.)

USE arsenides

USE titanium compounds

**TITANIUM BASE ALLOYS***UF alloy-60t**UF alloy-vt30**UF transage 117**UF transage 120**UF transage 129**UF transage 134**UF transage 175**SF alloy-ts5*

\*BT1 titanium alloys

**NT1** alloy-ti78cr11mo7al3**NT1** alloy-ti88mo8al3**NT1** alloy-ti89al6mo3**NT1** alloy-ti90al6**NT1** alloy-ti90al6mo3**NT1** alloy-ti90al6v4**NT1** alloy-ti90mo7al2**NT1** alloy-ti91al4mo3**NT1** alloy-ti91al5cr2**NT1** alloy-ti99**TITANIUM-BETA**

\*BT1 titanium

**TITANIUM BORIDES**

\*BT1 borides

\*BT1 titanium compounds

**TITANIUM BROMIDES**

\*BT1 bromides

\*BT1 titanium compounds

**TITANIUM CARBIDES**

\*BT1 carbides

\*BT1 titanium compounds

**TITANIUM CHLORIDES**

\*BT1 chlorides

\*BT1 titanium compounds

**TITANIUM COMPLEXES**

\*BT1 transition element complexes

**TITANIUM COMPOUNDS***1997-06-19**UF titanium arsenides*

BT1 transition element compounds

**NT1** titanates**NT2** cadmium titanates**NT2** lithium titanates**NT2** plzt**NT2** pzt**NT2** strontium titanates**NT1** titanium borides**NT1** titanium bromides**NT1** titanium carbides**NT1** titanium chlorides**NT1** titanium fluorides**NT1** titanium hydrides**NT1** titanium hydroxides**NT1** titanium iodides**NT1** titanium nitrates**NT1** titanium nitrides**NT1** titanium oxides**NT1** titanium phosphates**NT1** titanium phosphides**NT1** titanium selenides**NT1** titanium silicates**NT1** titanium silicides**NT1** titanium sulfates**NT1** titanium sulfides**NT1** titanium tellurides**NT1** titanium tungstates**TITANIUM FLUORIDES**

\*BT1 fluorides

\*BT1 titanium compounds

**TITANIUM HYDRIDES**

\*BT1 hydrides

\*BT1 titanium compounds

**TITANIUM HYDROXIDES**

\*BT1 hydroxides

\*BT1 titanium compounds

**TITANIUM IODIDES**

\*BT1 iodides

\*BT1 titanium compounds

**TITANIUM IONS**

\*BT1 ions

**TITANIUM ISOTOPES***1999-07-16*

BT1 isotopes

**NT1** titanium 39**NT1** titanium 40**NT1** titanium 41**NT1** titanium 42**NT1** titanium 43**NT1** titanium 44**NT1** titanium 45**NT1** titanium 46**NT1** titanium 47**NT1** titanium 48**NT1** titanium 49**NT1** titanium 50**NT1** titanium 51**NT1** titanium 52**NT1** titanium 53**NT1** titanium 54**NT1** titanium 55**NT1** titanium 56**NT1** titanium 57**NT1** titanium 58**NT1** titanium 59**NT1** titanium 60**TITANIUM NITRATES**

\*BT1 nitrates

\*BT1 titanium compounds

**TITANIUM NITRIDES**

\*BT1 nitrides

\*BT1 titanium compounds

**TITANIUM ORES***INIS: 1993-01-13; ETDE: 1992-09-14*

BT1 ores

**TITANIUM OXIDES***1996-06-26*

\*BT1 oxides

\*BT1 titanium compounds

*RT* brannerite*RT* hollandite*RT* ilmenite*RT* lodochnikite*RT* marignacite*RT* oxide minerals*RT* perovskite*RT* rutile*RT* titanates*RT* zirconolite**TITANIUM PHOSPHATES**

\*BT1 phosphates

\*BT1 titanium compounds

**TITANIUM PHOSPHIDES***INIS: 1991-09-16; ETDE: 1985-12-13*

\*BT1 phosphides

\*BT1 titanium compounds

**TITANIUM SELENIDES***INIS: 1978-07-03; ETDE: 1978-02-15*

\*BT1 selenides

\*BT1 titanium compounds

**TITANIUM SILICATES**

\*BT1 silicates

\*BT1 titanium compounds

*RT* silicate minerals*RT* titanite**TITANIUM SILICIDES***1979-04-27*

\*BT1 silicides

\*BT1 titanium compounds

**TITANIUM SULFATES**

\*BT1 sulfates

\*BT1 titanium compounds

**TITANIUM SULFIDES**

\*BT1 sulfides

\*BT1 titanium compounds

**TITANIUM TELLURIDES**

INIS: 1979-09-18; ETDE: 1978-09-11

- \*BT1 tellurides
- \*BT1 titanium compounds

**TITANIUM TUNGSTATES**

2000-04-12

- \*BT1 titanium compounds
- \*BT1 tungstates

**TITRATION**

1995-11-22

- \*BT1 volumetric analysis
- NT1 amperometry
- NT1 iodometry
- NT1 potentiometry
- NT1 thermometric titration
- RT acid neutralizing capacity
- RT potentiostats

**TIWI GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1977-07-23

- BT1 geothermal fields
- RT philippines

**TJ-1 TOKAMAK**

INIS: 1996-03-04; ETDE: 1991-09-13

CIEMAT, Madrid, Spain.

- \*BT1 tokamak devices
- RT tj-iu torsatron

**TJ-II HELIAC**

INIS: 1999-01-26; ETDE: 1999-09-03

CIEMAT, Madrid, Spain.

- \*BT1 heliac stellarators

**TJ-IU TORSATRON**

INIS: 1996-03-04; ETDE: 1996-02-26

Torsatron stellarator at CIEMAT, Madrid, Spain, which started operation in April 1994.

- \*BT1 torsatron stellarators
- RT tj-1 tokamak

**TLATELOLCO TREATY**

INIS: 1975-12-09; ETDE: 1976-01-26

Treaty for the Prohibition of Nuclear Weapons in Latin America.

- UF latin america nuclear weapons prohibition treaty
- UF nuclear weapons, latin american prohibition treaty
- UF prohibition of nuclear weapons (latin american treaty)
- UF treaty for prohibition of nuclear weapons in latin america
- BT1 treaties
- RT arms control
- RT nuclear weapons

**tld (dosemeters)**

- USE thermoluminescent dosemeters

**tld (dosimetry)**

- USE thermoluminescent dosimetry

**tld systems**

- USE thermoluminescent dosemeters

**TLM CONFIGURATIONS**

INIS: 1975-08-20; ETDE: 1975-10-01

Toroidally Linked Mirror configurations.

- \*BT1 magnetic mirror configurations
- RT magnetic fields
- RT magnetic mirrors
- RT minimum-b configurations
- RT tandem mirrors
- RT toroidal configuration

**TLP DEVICES**

1996-07-16

(Prior to August 1996 ALPHA DEVICE was a valid ETDE descriptor.)

- UF alpha device
- UF longitudinal pinch devices (toroidal)
- UF toroidal longitudinal pinch device
- \*BT1 toroidal pinch devices
- NT1 zeta devices
- RT longitudinal pinch

**tmpn**

INIS: 1994-08-22; ETDE: 1980-01-15

2, 2, 6, 6-tetramethyl-4-piperidinol-N-oxyl.

(Until August 1994 this was a valid descriptor.)

- USE hydroxy compounds
- USE organic oxygen compounds
- USE piperidines

**TMR REACTORS**

INIS: 1981-07-06; ETDE: 1978-04-27

- UF tandem mirror type reactors
- SF tandem mirror devices
- \*BT1 magnetic mirror type reactors
- RT magnetic mirrors
- RT tandem mirrors
- RT thermal barriers

**TMTSF**

INIS: 1983-10-14; ETDE: 1983-04-07

UF tetramethyltetraselenafulvalene

- \*BT1 heterocyclic compounds
- \*BT1 organic superconductors
- BT1 selenium compounds

**TMX DEVICES**

INIS: 1978-04-21; ETDE: 1977-08-25

Tandem Mirror Experiment at Lawrence Livermore Laboratory.

- UF tandem mirror experiment at uclll
- SF tandem mirror devices
- \*BT1 tandem mirrors
- RT lawrence livermore laboratory
- RT magnetic mirror type reactors
- RT thermal barriers

**tna**

2000-04-12

(Prior to February 1996 this was a valid ETDE descriptor; it was used for the concept TRINONYLAMINE.)

- USE amines
- USE chelating agents

**tnp**

2, 4, 6-trinitro phenol.

- USE picric acid

**TNS REACTORS**

INIS: 1978-09-28; ETDE: 1978-03-03

The next tokamak confinement device beyond TFTR.

- UF the next step device
- UF the next step thermonuclear reactor
- \*BT1 tokamak type reactors

**TNT**

UF trinitrotoluene

- \*BT1 chemical explosives
- \*BT1 nitro compounds
- RT toluene

**TNT-A TOKAMAK**

INIS: 1985-03-19; ETDE: 1985-04-09

UF tokyo non-circular tokamak

- \*BT1 tokamak devices

**tntr-kiwi**

2000-04-12

- USE kiwi-tnt reactor

**toa (trioctylamine)**

ETDE: 2005-02-01

(Prior to January 2005 TOA was a valid descriptor.)

- USE trioctylamine

**TOADS**

INIS: 1993-07-19; ETDE: 1977-09-19

(Until July 1993, this concept was indexed by FROGS.)

- \*BT1 amphibians
- RT frogs

**TOBACCO**

- RT crops
- RT nicotiana
- RT tobacco smokes

**TOBACCO MOSAIC VIRUS**

- \*BT1 viruses
- RT plant diseases

**tobacco plant**

- USE nicotiana

**TOBACCO PRODUCTS**

2000-04-12

- SF cigarettes
- RT nicotiana
- RT tobacco smokes

**TOBACCO SMOKES**

- \*BT1 smokes
- RT tobacco
- RT tobacco products

**tocopherols**

- USE vitamin e

**TOGGLE OPERATION**

INIS: 2000-04-12; ETDE: 1979-11-23

- \*BT1 nuclear explosions
- \*BT1 underground explosions
- NT1 rio blanco event
- RT contained explosions

**TOGO**

INIS: 1981-02-27; ETDE: 1980-08-12

- BT1 africa
- BT1 developing countries

**tohoku-1 reactor**

- USE onagawa-1 reactor

**tohoku avf cyclotron**

INIS: 1983-06-30; ETDE: 2000-09-20

- USE tohoku cyclotron

**TOHOKU CYCLOTRON**

INIS: 1983-06-30; ETDE: 1995-02-13

At Cyclotron and Radioisotope Center, Tohoku University, Sendai, Japan.

- UF cyric cyclotron
- UF sendai cyclotron
- UF tohoku avf cyclotron
- UF tohoku university cyclotron
- \*BT1 heavy ion accelerators
- \*BT1 isochronous cyclotrons

**tohoku university cyclotron**

INIS: 1983-06-30; ETDE: 2000-09-20

- USE tohoku cyclotron

**TOILETS**

INIS: 2000-04-12; ETDE: 1977-06-21

- RT residential buildings

**tokai-1 reactor**

ETDE: 2002-06-13

- USE tokai-mura reactor

**TOKAI-2 REACTOR***JAPCO, Tokai, Ibaraki, Japan.**UF japco-3 reactor***\*BT1** bwr type reactors**tokai-mura fast critical assembly**

USE fca reactor

**TOKAI-MURA REACTOR***JAPCO, Tokai, Ibaraki, Japan.**UF japco-1 reactor**UF tokai-1 reactor***\*BT1** carbon dioxide cooled reactors**\*BT1** magnox type reactors**\*BT1** thermal reactors**TOKAI REPROCESSING PLANT***2006-04-19***\*BT1** fuel reprocessing plants**tokamak chauffage alfyen (brazil)***2004-07-09*

USE tcabr tokamak

**tokamak chauffage alfyen***(switzerland)**INIS: 1984-04-04; ETDE: 1984-05-08*

USE tca tokamak

**tokamak de vareennes***1983-09-06*

USE vareennes tokamak

**TOKAMAK DEVICES***1998-01-28**UF flux conserving tokamaks**UF smartor device***\*BT1** closed plasma devices**NT1** act devices**NT1** aditya tokamak**NT1** alcator device**NT1** asdex tokamak**NT1** atc devices**NT1** castor tokamak**NT1** columbia high-beta tokamak**NT1** compact ignition tokamak**NT1** compass-d tokamak**NT1** continuous current tokamak**NT1** ct-6b tokamak**NT1** dante tokamak**NT1** dite tokamak**NT1** doublet-2 device**NT1** doublet-3 device**NT1** etf tokamak**NT1** ft tokamak**NT1** hl-1 tokamak**NT1** hl-1m tokamak**NT1** hl-2 tokamak**NT1** hl-2a tokamak**NT1** ht-2 tokamak**NT1** ht-6b tokamak**NT1** ht-6m tokamak**NT1** ht-7 tokamak**NT1** ht-7u tokamak**NT1** hybtok tokamaks**NT1** ignition spherical torus**NT1** intor tokamak**NT1** isttok tokamak**NT1** isx tokamak**NT1** iter tokamak**NT1** jet tokamak**NT1** jft-2 tokamak**NT1** jft-2a tokamak**NT1** jft-2m tokamak**NT1** jippt-2 device**NT1** jt-60 tokamak**NT1** jt-60u tokamak**NT1** jxfr tokamak**NT1** kt-2 tokamak**NT1** lt-3 tokamak**NT1** lt-4 tokamak**NT1** mt-1 tokamak**NT1** mtx tokamak**NT1** net tokamak**NT1** ormak devices**NT1** pbx devices**NT1** pdx devices**NT1** petula tokamak**NT1** phaedrus-t tokamak**NT1** plt devices**NT1** pulsator devices**NT1** rtp tokamak**NT1** sinp tokamak**NT1** spheromak devices**NT2** cdx-u spheromak**NT2** ctx spheromak**NT2** globus-m spheromak**NT2** mast tokamak**NT2** nstx device**NT2** sspcx device**NT2** sunist spheromak**NT2** ts-3 device**NT1** st tokamak**NT1** starfire tokamak**NT1** start tokamak**NT1** stor-m tokamak**NT1** stx devices**NT1** surmac tokamak**NT1** t-10 tokamak**NT1** t-14 tokamak**NT1** t-15 tokamak**NT1** t-7 tokamak**NT1** tbr tokamak**NT1** tca tokamak**NT1** tcabr tokamak**NT1** tev tokamak**NT1** text devices**NT1** textor tokamak**NT1** tfr tokamak**NT1** tfr tokamak**NT1** tiber-x tokamak**NT1** tj-1 tokamak**NT1** tnt-a tokamak**NT1** tokapole devices**NT1** tokoloshe tokamak**NT1** tore supra tokamak**NT1** tormac devices**NT1** tortus tokamak**NT1** torus-ii tokamak**NT1** tosca tokamak**NT1** tpx device**NT1** triam-1 tokamak**NT1** tuman devices**NT1** two-component torus**NT1** uwmak devices**NT1** vareennes tokamak**NT1** versator tokamak**NT1** wt-3 tokamak*RT* banana regime*RT* h-mode plasma confinement*RT* magnetic surfaces*RT* marfe*RT* mode rational surfaces*RT* pfirsch-schlueter regime*RT* plasma disruption*RT* plasma radial profiles*RT* plateau regime*RT* sawtooth oscillations*RT* tokamak type reactors*RT* wega stellarator**tokamak etf***INIS: 2000-04-12; ETDE: 1979-12-17*

(Prior to July 1985, this was a valid ETDE descriptor.)

USE etf tokamak

**tokamak fontenay-aux-roses**

USE tfr tokamak

**tokamak fusion core experiment***INIS: 1994-04-11; ETDE: 1984-10-24*

USE tfcx reactors

**tokamak fusion test reactor***INIS: 1977-11-02; ETDE: 1975-09-11*

USE tfr tokamak

**tokamak model st**

USE st tokamak

**TOKAMAK TYPE REACTORS***INIS: 1997-06-19; ETDE: 1976-09-15***BT1** thermonuclear reactors**NT1** compact ignition tokamak**NT1** doublet reactors**NT1** iter tokamak**NT1** tentok reactors**NT1** tfcx reactors**NT1** tns reactors*RT* tokamak devices**TOKAPOLE DEVICES***INIS: 1981-07-06; ETDE: 1978-12-11***\*BT1** internal ring devices**\*BT1** tokamak devices**TOKOLOSHE TOKAMAK***INIS: 1991-03-22; ETDE: 1991-04-09**Pelindaba, Pretoria, South Africa.***\*BT1** tokamak devices**toko-1 reactor**

USE fukushima-1 reactor

**toko-2 reactor**

USE fukushima-2 reactor

**toko-3 reactor**

USE fukushima-3 reactor

**toko-4 reactor**

USE fukushima-4 reactor

**toko-denrioku k-1 reactor***INIS: 1987-01-28; ETDE: 2002-06-13*

USE kashiwazaki-kariwa-1 reactor

**toko-denryoku k-2 reactor***INIS: 1985-04-22; ETDE: 1985-05-07*

USE kashiwazaki-kariwa-2 reactor

**TOKYO INS CYCLOTRON***INIS: 1983-06-01; ETDE: 1983-03-24**Sector-focused cyclotron at Institute for**Nuclear Studies, University of Tokyo.**UF ins cyclotron (tokyo)**UF institute for nuclear studies cyclotron***\*BT1** heavy ion accelerators**\*BT1** isochronous cyclotrons**toko non-circular tokamak***INIS: 1985-03-19; ETDE: 1985-04-09*

USE tnt-a tokamak

**TOKYO SYNCHROTRON***1.3-Gev electron synchrotron.***\*BT1** synchrotrons**TOLAN***UF phenylacetylene***\*BT1** aromatics**\*BT1** hydrocarbons**TOLERANCE***INIS: 1992-04-13; ETDE: 1976-08-24**RT* accuracy*RT* biological adaptation*RT* dimensions*RT* errors*RT* hysteresis*RT* quality control

**toller poles**

USE lorentz poles

**TOLUENE**

UF methylbenzene

\*BT1 alkylated aromatics

\*BT1 hydrocarbons

RT tnt

RT toluidines

**TOLUIDINE BLUE**

\*BT1 azo dyes

RT toluidines

**TOLUIDINES**

UF aminotoluenes

UF tolylamines

\*BT1 amines

RT toluene

RT toluidine blue

**toluylene red**

1996-10-23

(Prior to March 1997 NEUTRAL RED was used for this concept in ETDE.)

USE amines

USE indicators

USE pyrazines

**TOLYL RADICALS**

\*BT1 aryl radicals

**tolylamines**

USE toluidines

**TOMARI-1 REACTOR**

INIS: 1989-09-14; ETDE: 1989-10-16

Hokkaido Electric Power Co., Tomari, Hokkaido, Japan.

\*BT1 pwr type reactors

**TOMARI-2 REACTOR**

INIS: 1989-11-24; ETDE: 1989-12-08

Hokkaido Electric Power Co., Tomari, Hokkaido, Japan.

\*BT1 pwr type reactors

**TOMATOES**

\*BT1 fruits

**TOMOGRAPHY**

A radiographic technique characterized by the movement of two of the three components - source, object, and film - so that a clear image of one plane of the object is registered, while images of all other planes are blurred.

UF laminography

BT1 diagnostic techniques

NT1 compton scattering tomography

NT1 computerized tomography

NT2 cat scanning

NT2 emission computed tomography

NT3 ecat scanning

NT3 positron computed tomography

NT3 single photon emission computed tomography

NT2 photon computed tomography

NT2 proton computed tomography

NT1 grazing incidence tomography

RT biomedical radiography

RT collimators

RT focusing

RT industrial radiography

RT radioisotope scanning

**TOMONAGA APPROXIMATION**

UF intermediate coupling approximation

\*BT1 approximations

RT intermediate coupling

**TOMSK SYNCHROTRON**

UF sirius synchrotron

\*BT1 synchrotrons

**TONGONAN GEOTHERMAL FIELD**

INIS: 1992-06-04; ETDE: 1979-09-06

BT1 geothermal fields

RT philippines

**TONGUE**

\*BT1 oral cavity

\*BT1 organs

RT muscles

**tonks-dattner resonance**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE plasma waves

**tonks-langmuir oscillations**

USE tonks-langmuir theory

**TONKS-LANGMUIR THEORY**

UF tonks-langmuir oscillations

RT plasma waves

**TONOPAH TEST RANGE**

INIS: 1976-02-05; ETDE: 1975-08-19

BT1 military facilities

\*BT1 nevada

BT1 test facilities

RT nevada test site

RT sandia laboratories

RT sandia national laboratories

**tonsils**

USE lymphatic system

USE pharynx

**TOOLS**

Not for educational tools.

BT1 equipment

NT1 cutting tools

NT1 drill bits

NT1 machine tools

NT2 grinding machines

NT2 lathes

NT2 milling machines

RT machining

RT presses

**tools (educational)**

INIS: 2000-04-12; ETDE: 1980-11-08

USE educational tools

**top accidents**

INIS: 1979-09-18; ETDE: 1979-03-29

USE transient overpower accidents

**TOP PARTICLES**

INIS: 1985-07-23; ETDE: 1985-08-09

Particles with  $T$  quantum number not = 0.

\*BT1 postulated particles

NT1 t quarks

RT beauty particles

RT flavor model

RT toponium

**top quark model**

INIS: 1984-04-04; ETDE: 1979-11-07

USE flavor model

**top quarks**

INIS: 1995-12-01; ETDE: 2002-06-13

USE t quarks

**TOPAZ REACTOR**

\*BT1 experimental reactors

\*BT1 hydride moderated reactors

\*BT1 power reactors

RT hydride moderators

RT thermionic converters

**TOPHET**

2000-04-12

\*BT1 chromium alloys

\*BT1 heat resisting alloys

\*BT1 nickel base alloys

**tophet a**

INIS: 1983-11-07; ETDE: 2002-06-13

USE alloy-ni80cr20

**tophet c**

INIS: 1983-11-07; ETDE: 2002-06-13

USE alloy-ni60fe24cr16

**topo (trioctylphosphine oxide)**

ETDE: 2005-02-01

(Prior to January 2005 TOPO was a valid descriptor.)

USE trioctylphosphine oxide

**TOPOGRAPHY**

RT complex terrain

RT earth planet

RT maps

RT site characterization

RT submarine canyons

**TOPOLOGICAL FOLIATION**

RT differential topology

RT smooth manifolds

RT surfaces

**TOPOLOGICAL MAPPING**

UF mapping (topological)

BT1 mapping

BT1 transformations

NT1 conformal mapping

RT graph theory

RT mapping fibration

RT mathematical manifolds

RT topology

**TOPOLOGY**

UF cobordism theory

BT1 mathematics

NT1 differential topology

RT dimensions

RT fractals

RT global analysis

RT graph theory

RT invariant imbedding

RT mathematical manifolds

RT periodicity

RT topological mapping

**TOPONIUM**

INIS: 1986-05-23; ETDE: 1985-12-11

A bound state of top and antitop quarks.

\*BT1 mesons

BT1 quarkonium

RT bound state

RT flavor model

RT t quarks

RT top particles

**TOPPING CYCLES**

1984-04-04

RT thermodynamic cycles

**topr reactor**

USE thor reactor

**tops (trioctylphosphine sulfide)**

ETDE: 2005-02-01

(Prior to January 2005 TOPS was a valid descriptor.)

USE trioctylphosphine sulfide

**topsoe-snpa process**

INIS: 2000-04-12; ETDE: 1977-12-22

Dry catalytic oxidation and reduction process for treating Claus tail gas.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE desulfurization

**tor devices**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

USE stellarators

**TORBANITE**

2000-04-12

\*BT1 boghead coal

RT minerals

**TORBERNITE**

\*BT1 phosphate minerals

\*BT1 uranium minerals

RT copper phosphates

RT uranium phosphates

**tore supra**

INIS: 2000-04-12; ETDE: 1983-03-24

(Prior to July 1985 this was a valid ETDE descriptor.)

USE tore supra tokamak

**TORE SUPRA TOKAMAK**

INIS: 1983-06-02; ETDE: 1983-07-07

UF *tore supra*

\*BT1 tokamak devices

**TORI**

NT1 compact torus

NT2 field-reversed theta pinch devices

NT2 rotamak devices

RT annular space

RT aspect ratio

RT bumpy tori

RT rings

RT rotational transform

RT toroidal configuration

**TORMAC DEVICES**

INIS: 1976-07-30; ETDE: 1975-07-29

UF *tormak devices*

\*BT1 tokamak devices

**tormak devices**

INIS: 1984-06-21; ETDE: 2002-06-13

(Prior to July 1984 this was a valid descriptor.)

USE tormak devices

**TORNADO DEVICES**

\*BT1 internal ring devices

**TORNADO TURBINES**

INIS: 2000-04-12; ETDE: 1977-06-02

Grumman Aerospace Corp. name for vertical axis turbines in bottom of vertical slotted cylinders with large air intake beneath cylinders.

\*BT1 vertical axis turbines

RT solar chimneys

**TORNADOES**

BT1 storms

RT turbulence

RT weather

RT wind

**TORNESS REACTOR**

INIS: 1981-02-27; ETDE: 1981-03-13

Dunbar, East Lothian, United Kingdom.

\*BT1 agr type reactors

\*BT1 carbon dioxide cooled reactors

\*BT1 power reactors

\*BT1 thermal reactors

**TOROIDAL CONFIGURATION**

\*BT1 annular space

\*BT1 closed configurations

RT compact torus

RT reversed-field pinch devices

RT rotational transform

RT tlm configurations

RT tori

**TOROIDAL FIELD DIVERTORS**

INIS: 1981-07-06; ETDE: 1989-09-18

Divertors that displace the toroidal field lines to form a separatrix in the toroidal field.

BT1 divertors

RT bundle divertors

**toroidal longitudinal pinch device**

USE tlp devices

**TOROIDAL PINCH DEVICES**

UF *toroidal pinch type reactors*

\*BT1 closed plasma devices

\*BT1 pinch devices

NT1 reversed-field pinch devices

NT2 artemis device

NT2 extrap-t2 device

NT2 hbtx devices

NT2 mst device

NT2 rfx device

NT2 tpe-lrm15 device

NT2 tpe-rx device

NT2 zt-40 devices

NT2 zt-p devices

NT1 tlp devices

NT2 zeta devices

NT1 toroidal screw pinch devices

NT2 stp-3m device

NT2 tpe-2 device

NT1 toroidal theta pinch devices

NT2 scyllac devices

RT banana regime

**toroidal pinch type reactors**

INIS: 2000-04-12; ETDE: 1976-09-15

(Prior to July 1985, this was a valid ETDE descriptor.)

USE toroidal pinch devices

**TOROIDAL SCREW PINCH DEVICES**

\*BT1 toroidal pinch devices

NT1 stp-3m device

NT1 tpe-2 device

RT screw pinch

**TOROIDAL THETA PINCH DEVICES**

\*BT1 toroidal pinch devices

NT1 scyllac devices

RT reference theta pinch reactor

RT theta pinch

**toronto university slowpoke reactor**

INIS: 1993-11-10; ETDE: 2002-06-13

USE slowpoke-toronto reactor

**TORQUE**

RT torsion

**torrey pines triga-mark-3 reactor**

2000-04-12

USE triga-3-la jolla reactor

**torrey pines triga-mk-3 reactor**

INIS: 1993-11-10; ETDE: 2002-06-13

USE triga-3-la jolla reactor

**TORSATRON STELLARATORS**

1996-03-04

(Prior to December 1990, this was spelled TORSATRON STELLARATOR.)

UF *uragan-3 stellarator*

\*BT1 stellarators

NT1 atf torsatron

NT1 chs torsatron

NT1 tj-iu torsatron

NT1 vint torsatron

RT heliotron

RT lhd device

**TORSION**

RT deformation

RT springs

RT torque

**TORTUS TOKAMAK**

INIS: 1991-03-22; ETDE: 1991-04-09

Sydney University, Sydney, Australia.

\*BT1 tokamak devices

**TORULA**

UF *torulopsis*

\*BT1 yeasts

**torulopsis**

USE torula

**torus experiment for technology oriented research**

INIS: 1993-11-10; ETDE: 2002-06-13

USE textor tokamak

**TORUS-II TOKAMAK**

INIS: 1977-02-08; ETDE: 1977-04-13

Device to be built within the EURATOM-CEA Association.

\*BT1 tokamak devices

**TORY-2A REACTOR**

2000-04-12

University of California Lawrence Radiation Laboratory, Mercury Test Site, Mercury, Nevada, USA. Disassembled in 1961.

SF *experimental propulsion test reactor*

\*BT1 air cooled reactors

\*BT1 experimental reactors

\*BT1 propulsion reactors

\*BT1 research reactors

\*BT1 test reactors

**TORY-2C REACTOR**

University of California Lawrence Radiation Laboratory, Nevada Test Site, Mercury, Nevada, USA.

SF *experimental propulsion test reactor*

\*BT1 air cooled reactors

\*BT1 experimental reactors

\*BT1 propulsion reactors

\*BT1 test reactors

**tosbac computers**

2000-04-12

(Prior to March 1997 this was a valid ETDE descriptor.)

USE computers

**TOSCA TOKAMAK**

INIS: 1987-06-29; ETDE: 1987-07-09

\*BT1 tokamak devices

**TOSCO-DYNE PROCESS**

INIS: 2000-04-12; ETDE: 1979-01-30

Coal is pyrolyzed to intermediate btu gas, liquid product, and char; the char is converted to low btu gas in fluidized bed gasifier.

\*BT1 coal gasification

RT combined-cycle power plants

RT toscoal process

**TOSCO PROCESS**

2000-04-12

Crushed raw shale preheated to approx. 400 degrees F is transported to a pyrolysis drum and mixed with ceramic balls preheated to approx. 1100 degrees F when shale reaches a temperature of approx. 900 degrees F, conversion of the kerogen to hydrocarbon vapors is substantially complete. Pyrolysis vapors are then condensed, fractionated and piped to upgrading facility for refining.

RT oil shales

**TOSCOAL PROCESS**

2000-04-12

The oil shale corporation pyrolysis process that produces char with a high heating value plus oil and gas. Hot ceramic balls are used as a heat source.

\*BT1 coal gasification

RT toscodyne process

**TOSHIBA REACTOR**

Toshiba, Kawasaki, Kanagawa, Japan.

UF toshiba training reactor

UF tr-1 toshiba reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**toshiba training reactor**

USE toshiba reactor

**total-absorption spectrometers**

2000-04-12

USE shower counters

**TOTAL CROSS SECTIONS**

Cross sections integrated over all angles and all reaction channels.

BT1 cross sections

RT excitation functions

RT pomeranchuk theorem

**TOTAL ENERGY SYSTEMS**

1982-12-03

Integral energy systems of high efficiency, e.g., a system utilizing gas-fired turbines or engines that produce electrical energy and utilize exhaust heat in applications such as heating and cooling.

UF integrated utility systems

UF ius

BT1 energy systems

RT cogeneration

RT combined cycles

RT energy conservation

RT energy consumption

RT ices program

RT integrated energy utility systems

RT modular integrated utility systems

RT steam generation plants

**TOTAL FLOW SYSTEMS**

2000-04-12

Systems in which the total hot well head brine-steam mixture is passed through a mixed-phase expander to drive a turbine and an electric generating system.

BT1 energy systems

RT geothermal energy conversion

RT geothermal power plants

RT rotary separator turbines

RT steam

RT thermodynamic cycles

RT water

**TOTAL SUSPENDED****PARTICULATES**

INIS: 1992-07-20; ETDE: 1981-05-18

UF tsp

\*BT1 particulates

RT aerosols

RT air pollution

RT dispersions

**toughness (fracture)**

USE fracture properties

**TOURISM**

INIS: 1999-05-03; ETDE: 1980-06-06

RT hotels

RT industry

RT recreational areas

RT transport

**TOURMALINE**

\*BT1 silicate minerals

RT aluminium silicates

RT boron silicates

RT dielectric track detectors

**TOWER FOCUS COLLECTORS**

2000-04-12

\*BT1 concentrating collectors

RT advanced components test facility

RT central receiver test facility

RT tower focus power plants

**TOWER FOCUS POWER PLANTS**

INIS: 1999-10-08; ETDE: 1975-09-11

UF central receiver power plants

UF eurelios solar power plant

\*BT1 solar thermal power plants

NT1 barstow solar pilot plant

RT advanced components test facility

RT central receiver test facility

RT central receivers

RT tower focus collectors

**tower shielding reactor-1**

USE tsr-1 reactor

**tower shielding reactor-2**

USE tsr-2 reactor

**towers**

INIS: 2000-04-12; ETDE: 1981-08-21

(Prior to August 1981, this concept in ETDE was indexed by MECHANICAL STRUCTURES. From August 1981 to June 1992 this was a valid descriptor.)

SEE cooling towers

SEE mechanical structures

SEE power transmission towers

**towers (extraction)**

USE extraction columns

**towers (structures)**

ETDE: 2002-06-13

USE mechanical structures

**TOWN GAS**

1992-07-21

Gas produced by a public utility for general use.

\*BT1 intermediate btu gas

RT coal gas

**townsend avalanche**

USE townsend discharge

**TOWNSEND DISCHARGE**

UF avalanche multiplication

UF townsend avalanche

UF townsend formula

UF townsend theory

BT1 electric discharges

RT avalanche quenching

**townsend formula**

USE townsend discharge

**townsend process**

2000-04-12

Sweetens natural gas by treating it with solution of sulfur dioxide in hygroscopic organic liquid, e.g., diethylene glycol containing no more than 10% water.

(Prior to March 1994, this was a valid ETDE descriptor.)

SEE desulfurization

**townsend theory**

USE townsend discharge

**TOXIC MATERIALS**

INIS: 2000-05-17; ETDE: 1977-06-21

(Until March 1992, this concept was indexed by HAZARDOUS MATERIALS.)

\*BT1 hazardous materials

NT1 toxins

NT2 endotoxins

NT2 mycotoxins

NT3 aflatoxins

RT chemical warfare agents

RT detoxification

RT heavy metals

RT polychlorinated biphenyls

RT toxicity

**toxic substances control act**

INIS: 2000-04-12; ETDE: 1980-09-05

USE toxic substances control acts

**TOXIC SUBSTANCES CONTROL ACTS**

INIS: 1993-03-26; ETDE: 1993-08-17

(Prior to August 1993 this concept in ETDE was indexed to TOXIC SUBSTANCES CONTROL ACT.)

UF toxic substances control act

BT1 laws

RT hazardous materials

RT legislation

**TOXICITY**

RT acute exposure

RT aflatoxins

RT biological effects

RT chronic exposure

RT detoxification

RT dose-response relationships

RT drugs

RT hazardous materials

RT lethal doses

RT mimosine

RT mycotoxins

RT prenatal exposure

RT toxic materials

RT toxins

RT venoms

**TOXINS**

BT1 antigens

\*BT1 toxic materials

NT1 endotoxins

NT1 mycotoxins

NT2 aflatoxins

RT antitoxins

RT bacteria

RT clostridium

RT detoxification

RT radiotoxins

RT toxicity

RT toxoids

RT venoms

**TOXOIDS**

INIS: 1975-11-07; ETDE: 1975-12-16

- RT antibodies
- RT immune reactions
- RT immunity
- RT toxins

**tpc**

INIS: 1984-04-04; ETDE: 1979-02-23  
Time Projection Chambers.

- USE time projection chambers

**TPE-1RM15 DEVICE**

INIS: 1995-10-03; ETDE: 1990-01-03  
Electrotechnical Laboratory, Tsukuba, Ibaraki, Japan.

- \*BT1 reversed-field pinch devices
- RT reverse-field pinch

**TPE-2 DEVICE**

INIS: 1995-09-07; ETDE: 1990-01-03  
Electrotechnical Laboratory, Tsukuba, Ibaraki, Japan.

- \*BT1 toroidal screw pinch devices

**TPE-RX DEVICE**

INIS: 1999-07-26; ETDE: 1999-09-03  
Electrotechnical Laboratory, Tsukuba, Ibaraki, Japan.

- \*BT1 reversed-field pinch devices

**tpo (triphenylphosphine oxide)**

ETDE: 2005-02-01

(Prior to January 2005 TPO was a valid descriptor.)

- USE triphenylphosphine oxide

**TPX DEVICE**

INIS: 1994-09-29; ETDE: 1994-08-18  
Tokamak Physics Experiment device, Princeton Plasma Physics Laboratory, USA.

- \*BT1 tokamak devices

**TR-0 REACTOR**

Tezkovodni Reaktor nuloveho vykonu.

- UF czechoslovak tr-0 reactor
- UF rez tr-0 reactor

- \*BT1 heavy water moderated reactors
- \*BT1 zero power reactors

**TR-1 REACTOR**

Cekmece Nuclear Research and Training Centre, Turkish Atomic Energy Authority, Istanbul, Turkey.

- UF turkish reactor-1

- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**TR-2 REACTOR**

1991-07-02

Cekmece Nuclear Research and Training Centre, Turkish Atomic Energy Authority, Istanbul, Turkey.

- UF turkish reactor-2

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors

**TRABECULAR BONE**

- \*BT1 bone tissues
- RT bone marrow

**TRACE AMOUNTS**

1995-06-21

- UF trace elements
- RT carrier-free isotopes
- RT crystal doping

- RT doped materials
- RT impurities
- RT inclusions
- RT ion implantation
- RT microanalysis

**trace elements**

1995-06-21

Coordinate TRACE AMOUNTS with the descriptor ELEMENTS or with descriptors for specific elements.

- USE elements
- USE trace amounts

**TRACER TECHNIQUES**

- SF radioactive tracers
- BT1 isotope applications
- NT1 dual-isotope subtraction technique
- NT1 isotope dilution
- NT1 labelled pool techniques
- NT1 radioactive tracer logging
- NT1 radioimmunoassay
- NT2 radioimmunoassay
- NT1 radioreceptor assay
- RT autoradiography
- RT biological markers
- RT crime detection
- RT diagnosis
- RT diagnostic techniques
- RT dynamic function studies
- RT labelled compounds
- RT nuclear medicine
- RT radio-release analysis
- RT radiobiology
- RT radionuclide kinetics
- RT radionuclide migration
- RT radiopharmaceuticals
- RT renography

**TRACHEA**

- BT1 respiratory system
- RT intratracheal administration
- RT mediastinum

**TRACHYTES**

INIS: 2000-04-12; ETDE: 1980-08-12

- \*BT1 volcanic rocks
- RT perlite

**track detectors (dielectric)**

- USE dielectric track detectors

**track detectors (gas)**

- USE gas track detectors

**track detectors (photographic)**

- USE photographic film detectors

**TRACKLESS VEHICLES**

INIS: 2000-04-12; ETDE: 1979-06-06

- UF free steered vehicles
- UF shuttle cars
- UF trolleybuses
- BT1 vehicles

**tracks**

- USE particle tracks

**tract c-a prototype oil shale project**

INIS: 2000-04-12; ETDE: 1976-03-11

- USE rio blanco oil shale project

**TRACY REACTOR**

INIS: 2001-09-25; ETDE: 2001-11-30

JAERI, Tokai, Ibaraki, Japan.

- UF transient experiment critical facility
- \*BT1 enriched uranium reactors
- \*BT1 plutonium reactors
- \*BT1 zero power reactors
- RT stacy reactor

**TRADE**

(From February 1979 till May 1996 NET TRADE was a valid ETDE descriptor.)

- UF commerce
- UF net trade
- NT1 exports
- NT1 imports
- NT1 nuclear trade
- RT business
- RT cartels
- RT commercial sector
- RT competition
- RT domestic supplies
- RT economics
- RT embargoes
- RT foreign exchange rate
- RT globalization
- RT international relations
- RT market
- RT monopolies
- RT oil-importing countries
- RT receipts
- RT sales
- RT small businesses
- RT supply and demand
- RT tariffs
- RT taxes

**trade (nuclear)**

INIS: 2000-04-12; ETDE: 1978-03-03

- USE nuclear trade

**TRADESCANTIA**

- \*BT1 liliopsida

**TRAFFIC CONTROL**

INIS: 1992-05-04; ETDE: 1978-01-23

Control of vehicular traffic.

- BT1 control
- RT vehicles

**trailers**

INIS: 2000-04-12; ETDE: 1982-02-11

(Prior to March 1997 this was a valid ETDE descriptor.)

- SEE vehicles

**TRAINING**

INIS: 2000-03-28; ETDE: 1980-10-07

Development or upgrading of a particular skill, usually by intensive or specialized methods; for broad, more leisurely instruction, use EDUCATION.

- UF job training
- UF vocational training
- BT1 education
- NT1 computer-aided instruction
- RT educational tools
- RT learning
- RT manpower

**training facilities**

INIS: 1983-06-30; ETDE: 2002-06-13

- USE educational facilities

**TRAINING REACTORS**

- \*BT1 research and test reactors
- NT1 aerojet-general nucleonics reactors
- NT1 afri reactor
- NT1 ai-1-77 reactor
- NT1 akr-1 reactor
- NT1 apsara reactor
- NT1 arbi reactor
- NT1 argonaut reactor
- NT1 argos reactor
- NT1 athene reactor
- NT1 atpr reactor
- NT1 bgrr reactor
- NT1 budapest training reactor
- NT1 byu 1-77 reactor
- NT1 cesnef reactor



**NT1** cirus reactor  
**NT1** colorado triga-mk-3 reactor  
**NT1** consort-2 reactor  
**NT1** cornell triga-mk-2 reactor  
**NT1** dow triga-mk-1 reactor  
**NT1** dr-1 reactor  
**NT1** es-salam reactor  
**NT1** fir-1 reactor  
**NT1** fnr reactor  
**NT1** fr-0 reactor  
**NT1** frf reactor  
**NT1** frg-1 reactor  
**NT1** gleep reactor  
**NT1** gtrr reactor  
**NT1** gulf triga-mk-3 reactor  
**NT1** hor reactor  
**NT1** htr reactor  
**NT1** ian-r1 reactor  
**NT1** iowa utr-10 reactor  
**NT1** ir-100 reactor  
**NT1** jason reactor  
**NT1** jrr-1 reactor  
**NT1** kur reactor  
**NT1** lfr reactor  
**NT1** melusine-1 reactor  
**NT1** merlin reactor  
**NT1** mitr reactor  
**NT1** moata reactor  
**NT1** murr reactor  
**NT1** nscsr-1 reactor  
**NT1** nevada university reactor  
**NT1** nscr reactor  
**NT1** ostr reactor  
**NT1** osur reactor  
**NT1** prnc-1-77 reactor  
**NT1** pstr reactor  
**NT1** pur-1 reactor  
**NT1** queen mary college utr-b reactor  
**NT1** r-b reactor  
**NT1** ra-1 reactor  
**NT1** rien-1 reactor  
**NT1** rts-1 reactor  
**NT1** rv-1 reactor  
**NT1** sr-3p reactor  
**NT1** srcc-utr-100 reactor  
**NT1** stark reactor  
**NT1** strasbourg-cronenbourg reactor  
**NT1** sur-100 series reactor  
**NT1** thetis reactor  
**NT1** thor reactor  
**NT1** toshiba reactor  
**NT1** tr-1 reactor  
**NT1** trico reactor  
**NT1** triga-1-michigan reactor  
**NT1** triga-2-pavia reactor  
**NT1** trr-1 reactor  
**NT1** ucbr reactor  
**NT1** ufr reactor  
**NT1** ulyse reactor  
**NT1** umne-1 reactor  
**NT1** umrr reactor  
**NT1** urr reactor  
**NT1** utr-10-kinki reactor  
**NT1** uvar reactor  
**NT1** uwnr reactor  
**NT1** uwtr reactor  
**NT1** vpi-utr-10 reactor  
**NT1** vr-1 reactor  
**NT1** wntr reactor  
**NT1** wpir reactor  
**NT1** wwr-s-budapest reactor  
**NT1** x-10 reactor  
**NT1** zlfr reactor  
**NT1** zpr reactor

### training-research reactor kyoto

1993-11-10

USE kur reactor

### TRAINS

1993-03-25

**BT1** vehicles  
**NT1** levitated trains  
**NT1** locomotives  
*RT* electric railways  
*RT* occupants  
*RT* railroad cars  
*RT* railways  
*RT* rapid transit systems  
*RT* transportation systems

### TRAJECTORIES

*RT* beam dynamics  
*RT* limit cycle  
*RT* motion  
*RT* orbits  
*RT* particle tracks

### TRAMEX PROCESS

**\*BT1** reprocessing  
*RT* amines  
*RT* solvent extraction

### TRANQUILIZERS

*UF* promazine  
*UF* tranquilizers  
**\*BT1** psychotropic drugs  
**NT1** chlorpromazine  
**NT1** reserpine  
*RT* hypnotics and sedatives  
*RT* phenothiazines

### tranquillizers

USE tranquillizers

### trans 104 element compounds

1996-07-18

(Prior to March 2004 this was a valid descriptor.)

USE transactinide compounds

### trans 104 elements

(Prior to March 2004 this was a valid descriptor.)

USE transactinide elements

### TRANSACTINIDE COMPOUNDS

2004-03-12

(Prior to March 2004 ELEMENT 104 COMPOUNDS + TRANS 104 ELEMENT COMPOUNDS was used for these compounds.)

*UF* trans 104 element compounds  
**\*BT1** transplutonium compounds  
**NT1** bohrium compounds  
**NT1** darmstadtium compounds  
**NT1** dubnium compounds  
**NT1** element 112 compounds  
**NT1** element 113 compounds  
**NT1** element 114 compounds  
**NT1** hassium compounds  
**NT1** roentgenium compounds  
**NT1** rutherfordium compounds  
**NT2** rutherfordium chlorides  
**NT1** seaborgium compounds

### TRANSACTINIDE ELEMENTS

2004-03-12

Elements with  $Z > 103$ .

(Prior to March 2004 ELEMENT 104 + TRANS 104 ELEMENTS was used for these elements.)

*UF* superheavy elements  
*UF* trans 104 elements  
*UF* transactinides  
**\*BT1** transplutonium elements  
**NT1** bohrium  
**NT1** darmstadtium  
**NT1** dubnium  
**NT1** element 112

**NT1** element 113  
**NT1** element 114  
**NT1** element 115  
**NT1** element 116  
**NT1** element 117  
**NT1** element 118  
**NT1** element 119  
**NT1** element 120  
**NT1** element 126  
**NT1** element 128  
**NT1** element 134  
**NT1** element 145  
**NT1** element 164  
**NT1** element 173  
**NT1** hassium  
**NT1** meitnerium  
**NT1** roentgenium  
**NT1** rutherfordium  
**NT1** seaborgium

### transactinides

2004-03-12

USE transactinide elements

### transage 117

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

USE titanium base alloys

### transage 120

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

USE titanium base alloys

### transage 129

2000-04-12

(Prior to May 2001, this was a valid ETDE descriptor.)

USE titanium base alloys

USE vanadium alloys

USE zirconium alloys

### transage 134

2000-04-12

(Prior to February 1995, this was a valid ETDE descriptor.)

USE titanium base alloys

USE vanadium alloys

USE zirconium alloys

### transage 175

INIS: 2000-04-12; ETDE: 1986-11-20

(Prior to February 1995, this was a valid ETDE descriptor.)

USE tin alloys

USE titanium base alloys

USE vanadium alloys

### transalaska pipeline

INIS: 1992-06-04; ETDE: 1976-11-17

USE alaska oil pipeline

### transaminases

USE aminotransferases

### transboundary pollution

INIS: 2000-04-12; ETDE: 1980-03-29

USE transfrontier pollution

### TRANSCRIPTION

INIS: 1981-09-18; ETDE: 1976-06-07

The formation of messenger RNA from DNA.

The process of transmitting information in a gene into a messenger RNA molecule which can leave the cell nucleus and move to the site of protein synthesis.

*RT* dna polymerases

*RT* dna replication

*RT* gene regulation

RT gene repressors  
 RT genes  
 RT messenger-rna  
 RT microarray technology  
 RT post-translation modification  
 RT rna polymerases  
 RT transcription factors

**TRANSCRIPTION FACTORS**

INIS: 1991-10-22; ETDE: 1988-06-27

*Proteins that govern which genes RNA polymerases can copy.*

\*BT1 proteins  
 RT gene regulation  
 RT gene repressors  
 RT nucleoproteins  
 RT rna polymerases  
 RT transcription

**TRANSDUCERS**

RT electrical equipment  
 RT measuring instruments

**transfer (angular momentum)**

INIS: 1978-09-28; ETDE: 2002-06-13

USE angular momentum transfer

**transfer (electron)**

USE electron transfer

**transfer (energy)**

USE energy transfer

**transfer (environmental radionuclides)**

INIS: 1993-11-10; ETDE: 2002-06-13

USE radionuclide migration

**transfer (four momentum)**

INIS: 1978-02-23; ETDE: 1978-04-28

USE four momentum transfer

**transfer (heat)**

USE heat transfer

**transfer (in environment)**

2000-04-12

USE radionuclide migration

**transfer (in organism)**

2000-04-12

USE radionuclide kinetics

**transfer (linear momentum)**

USE linear momentum transfer

**transfer (mass)**

USE mass transfer

**transfer (momentum)**

INIS: 1978-02-23; ETDE: 1978-11-14

USE momentum transfer

**transfer (q-squared)**

INIS: 1978-02-23; ETDE: 1978-04-28

USE four momentum transfer

**transfer (radionuclides in organisms)**

INIS: 1993-11-10; ETDE: 2002-06-13

USE radionuclide kinetics

**transfer factors (biological)**

INIS: 1989-12-07; ETDE: 2002-06-13

USE ecological concentration

**TRANSFER FUNCTIONS**

BT1 functions  
 RT reactor stability  
 RT real time systems

**TRANSFER MATRIX METHOD**

BT1 calculation methods  
 RT cross sections

RT mathematical operators  
 RT neutron transport theory

**TRANSFER NUMBERS**

RT electrophoresis

**transfer of knowledge**

INIS: 1977-11-21; ETDE: 2002-06-13

USE technology transfer

**TRANSFER REACTIONS**

*For nuclear reactions only; see also CHARGE EXCHANGE and ELECTRON TRANSFER.*

UF quasi-elastic reactions

\*BT1 direct reactions

NT1 multi-nucleon transfer reactions

NT2 four-nucleon transfer reactions

NT3 alpha-transfer reactions

NT2 many-nucleon transfer reactions

NT2 three-nucleon transfer reactions

NT2 two-nucleon transfer reactions

NT1 one-nucleon transfer reactions

NT1 pickup reactions

NT1 stripping

RT incomplete fusion reactions

RT neutron transfer

**TRANSFER RNA**

\*BT1 rna

**TRANSFERASES**

*Code number 2.*

\*BT1 enzymes

NT1 carbon-group transferases

NT2 methyl transferases

NT1 glycosyl transferases

NT2 hexosyl transferases

NT2 pentosyl transferases

NT3 hypoxanthine phosphoribosyltransferase

NT1 nitrogen transferases

NT2 aminotransferases

NT1 phosphorus-group transferases

NT2 nucleotidyltransferases

NT3 polymerases

NT4 dna polymerases

NT4 rna polymerases

NT2 phosphotransferases

NT3 hexokinase

**TRANSFERRIN**

\*BT1 globulins-beta

\*BT1 metalloproteins

**TRANSFORMATIONS**

UF translation (mathematics)

NT1 baecklund transformation

NT1 canonical transformations

NT2 bogolyubov transformation

NT2 foldy-wouthuysen transform

NT1 galilei transformations

NT1 integral transformations

NT2 fourier transformation

NT2 hankel transform

NT2 hilbert transformation

NT2 laplace transformation

NT2 mellin transform

NT1 lorentz transformations

NT1 melosh transformation

NT1 orthogonal transformations

NT2 moshinsky transformation

NT1 topological mapping

NT2 conformal mapping

**transformations (oncogenic)**

INIS: 1981-07-06; ETDE: 1981-08-04

USE oncogenic transformations

**transformations (phase)**

INIS: 2000-04-12; ETDE: 1980-11-08

USE phase transformations

**transformer oils**

INIS: 2000-04-12; ETDE: 1980-08-12

USE insulating oils

**TRANSFORMERS**

\*BT1 electrical equipment

NT1 gas-insulated transformers

RT dc to dc converters

RT electric coils

RT insulating oils

**TRANSFRONTIER****CONTAMINATION**

INIS: 1976-12-08; ETDE: 1978-03-08

*For radioactive contamination only; see also TRANSFRONTIER POLLUTION.*

BT1 contamination

RT bilateral agreements

RT contamination regulations

RT environmental transport

RT radionuclide migration

RT transfrontier pollution

**TRANSFRONTIER POLLUTION**

INIS: 1976-12-08; ETDE: 1980-03-29

*For nonradioactive pollution only; for radioactive pollution use TRANSFRONTIER CONTAMINATION.*

UF transboundary pollution

BT1 pollution

RT bilateral agreements

RT long-range transport

RT pollution laws

RT pollution regulations

RT transfrontier contamination

**TRANSFUSIONS**

\*BT1 therapy

RT blood

RT blood groups

RT blood substitutes

RT transplants

**TRANSGENIC ANIMALS**

1992-03-02

BT1 animals

NT1 transgenic mice

**TRANSGENIC MICE**

1992-03-02

\*BT1 mice

\*BT1 transgenic animals

**TRANSGENIC PLANTS**

1996-04-16

*Coordinate with the appropriate descriptor to indicate the transgenic species, when given.*

BT1 plants

**transient experiment critical facility**

INIS: 2001-09-25; ETDE: 2001-11-30

USE tracy reactor

**transient nuclear test reactor-kiwi**

2000-04-12

USE kiwi-tnt reactor

**TRANSIENT OVERPOWER****ACCIDENTS**

INIS: 1979-09-18; ETDE: 1979-03-28

*Reactor accidents involving continuous ramp reactivity insertion with steady coolant flow but with loss of protection systems which results in fuel element failure.*

UF top accidents

\*BT1 reactor accidents

RT transients

**transient reactor test facility**

1993-11-10

USE treat reactor

**transient species**

INIS: 2000-04-12; ETDE: 1979-08-07

SEE reaction intermediates

**TRANSIENTS**

NT1 electrical transients  
 RT atws  
 RT deep level transient spectroscopy  
 RT overcurrent  
 RT overvoltage  
 RT peaks  
 RT pressurization  
 RT steady-state conditions  
 RT sudden approximation  
 RT surges  
 RT temperature noise  
 RT transient overpower accidents  
 RT variations

**TRANSISTOR AMPLIFIERS**

\*BT1 amplifiers  
 RT transistors

**TRANSISTOR OSCILLATORS**

\*BT1 oscillators  
 RT pulse circuits  
 RT transistors

**TRANSISTOR SWITCHING CIRCUITS**

\*BT1 switching circuits  
 RT switching diodes

**TRANSISTOR TRIGGER CIRCUITS**

\*BT1 trigger circuits

**TRANSISTORS**

UF diode transistors  
 BT1 semiconductor devices  
 NT1 field effect transistors  
 NT2 mosfet  
 NT1 junction transistors  
 NT1 mis transistors  
 NT1 mos transistors  
 NT2 mosfet  
 NT1 phototransistors  
 NT1 surface barrier transistors  
 RT electronic circuits  
 RT transistor amplifiers  
 RT transistor oscillators

**transit-time heating**

INIS: 1984-04-04; ETDE: 2002-06-13

USE transit-time magnetic pumping

**TRANSIT-TIME MAGNETIC PUMPING**

Transit-time magnetic pumping heating.

UF transit-time heating

UF tmp

\*BT1 magnetic-pumping heating  
 RT fast magnetoacoustic waves  
 RT landau damping

**TRANSITION AMPLITUDES**

INIS: 1975-12-09; ETDE: 1976-08-25

BT1 amplitudes

NT1 decay amplitudes

**TRANSITION BOILING**

\*BT1 boiling

**TRANSITION ELEMENT ALLOYS**

1995-10-11

(From November 1983 until March 1992 this was indexed using the descriptors for the specific alloys or the broader term ALLOYS.)

BT1 alloys

NT1 chromium alloys

NT2 alloy-b-1900

NT2 alloy-co36cr22ni22w15fe3

NT3 haynes 188 alloy

NT2 alloy-co43cr20fe18ni13w3

NT3 havar

NT2 alloy-co54cr20w15ni10

NT3 alloy-hs-25

NT3 haynes 25 alloy

NT2 alloy-co60cr30w4

NT3 stellite 6

NT2 alloy-d-979

NT2 alloy-fe40ni35cr22

NT2 alloy-fe44ni33cr21

NT3 incoloy 800h

NT2 alloy-fe46ni33cr21

NT3 incoloy 800

NT3 incoloy 802

NT2 alloy-in-102

NT2 alloy-khn50mbyyu

NT2 alloy-mar-m246

NT2 alloy-mn-21

NT2 alloy-mo-re-1

NT2 alloy-mp35n

NT2 alloy-ni41fe40cr16nb3

NT3 inconel 706

NT2 alloy-ni43fe30cr22mo3

NT3 incoloy 825

NT2 alloy-ni43fe33cr16mo3

NT3 nimonic pe16

NT2 alloy-ni45fe34cr20

NT2 alloy-ni46cr23co19ti5al4

NT3 alloy-in-939

NT2 alloy-ni49cr22fe18mo9

NT3 hastelloy x

NT2 alloy-ni50co20cr15al5mo5

NT3 nimonic 105

NT2 alloy-ni50cr22fe18mo9

NT3 hastelloy xr

NT2 alloy-ni50mo32cr15si3

NT2 alloy-ni51cr48

NT3 inconel 671

NT2 alloy-ni53cr19fe19nb5mo3

NT3 inconel 718

NT2 alloy-ni54cr22co13mo9

NT3 inconel 617

NT2 alloy-ni54mo17cr16fe6w4

NT3 hastelloy c

NT2 alloy-ni55co17cr15mo5al4ti4

NT3 astroloy

NT2 alloy-ni55cr19co11mo10ti3

NT3 rene 41

NT2 alloy-ni58cr20co14mo4ti3

NT3 waspaloy

NT2 alloy-ni59cr20co17ti2

NT2 alloy-ni59cr30fe9

NT3 inconel 690

NT2 alloy-ni60co15cr10al6ti5mo3

NT3 alloy-in-100

NT2 alloy-ni60fe24cr16

NT3 nichrome

NT2 alloy-ni61cr16co9al3ti3w3

NT3 alloy-in-738

NT2 alloy-ni61cr22mo9nb4fe3

NT3 inconel 625

NT2 alloy-ni61cr23fe14

NT2 alloy-ni62cr16mo15fe3

NT3 hastelloy s

NT2 alloy-ni65cr25mo10

NT3 nimonic 86

NT2 alloy-ni70mo17cr7fe5

NT3 hastelloy n

NT3 inor-8

NT2 alloy-ni73cr15fe7ti3

NT3 inconel x750

NT2 alloy-ni73cr20mn3nb3

NT3 inconel 82

NT2 alloy-ni74cr13al6mo4

NT3 inconel 713c

NT2 alloy-ni75cr12al6mo5

NT3 inconel 713lc

NT2 alloy-ni76cr15fe8

NT3 inconel 600

NT2 alloy-ni76cr20ti2

NT3 nimonic 80a

NT2 alloy-ni77cr20ti2

NT2 alloy-ni78cr21

NT2 alloy-ni80cr20

NT2 alloy-ra-333

NT2 alloy-s-590

NT2 alloy-s-816

NT2 alloy-ti78cr11mo7al3

NT2 alloy-ti88mo8al3

NT2 alloy-ti91al5cr2

NT2 alloy-v-36

NT2 alloy-v87cr9fe3

NT2 ascology

NT2 chromium additions

NT3 alloy-ni65mo28fe5

NT4 hastelloy b

NT3 alloy-zr98sn-2

NT4 zircaloy 2

NT3 alloy-zr98sn-4

NT4 zircaloy 4

NT3 steel-crmo

NT3 steel-crni

NT3 steel-mncumo

NT4 steel-astm-a537

NT3 steel-ni3cr

NT3 steel-nicr

NT3 steel-nicrmo

NT3 steel-nimocr

NT2 chromium base alloys

NT3 alloy-mo-re-2

NT2 chromium-nickel steels

NT3 alloy-d-9

NT3 carpenter

NT3 chromium-nickel-molybdenum steels

NT4 alloy-m-813

NT4 steel-cr11ni10mo2ti-1

NT4 steel-cr15ni15motib

NT4 steel-cr16ni13monbv

NT4 steel-cr16ni15mo3nb

NT4 steel-cr16ni16monb

NT4 steel-cr16ni8mo2

NT5 stainless steel-16-8-2

NT4 steel-cr16ni9mo2

NT4 steel-cr17ni12mo3

NT5 stainless steel-316

NT4 steel-cr17ni12mo3-1

NT5 stainless steel-316l

NT5 stainless steel-zcnd17-13

NT4 steel-cr17ni12monb

NT4 steel-cr17ni13mo2ti

NT4 steel-cr17ni13mo3ti

NT4 steel-ni26cr15ti2movalb

NT5 alloy-a-286

NT3 durco

NT3 enduro

NT3 stainless steel-17-7ph

NT3 stainless steel-303

NT3 stainless steel-329

NT3 stainless steel-ph-15-7-mo

NT3 steel-cr17ni13

NT3 steel-cr17ni7

NT4 stainless steel-301

NT3 steel-cr18ni10

NT4 stainless steel-18-10

NT3 steel-cr18ni10-1

NT3 steel-cr18ni10ti

NT4 stainless steel-321

NT3 steel-cr18ni11

NT4 steel-x6crni1811

NT3 steel-cr18ni11nb

NT4 stainless steel-347

NT3 steel-cr18ni11nbco

NT4 stainless steel-348

NT3 steel-cr18ni12

NT4 stainless steel-305

NT3 steel-cr18ni12ti

NT3 steel-cr18ni8

- NT4** stainless steel-18-8  
**NT3** steel-cr18ni9  
**NT4** stainless steel-302  
**NT3** steel-cr18ni9ti  
**NT3** steel-cr19ni10  
**NT4** stainless steel-304  
**NT3** steel-cr19ni10-l  
**NT4** stainless steel-304l  
**NT3** steel-cr20ni11  
**NT4** stainless steel-308  
**NT3** steel-cr20ni11-l  
**NT4** stainless steel-308l  
**NT3** steel-cr23ni14  
**NT4** stainless steel-309  
**NT4** stainless steel-309s  
**NT3** steel-cr23ni18  
**NT3** steel-cr25ni20  
**NT4** alloy-hk-40  
**NT4** stainless steel-310  
**NT3** steel-ni25cr20  
**NT4** stainless steel-20-25  
**NT3** steel-ni36cr12ti3al-l  
**NT3** timken alloys  
**NT2** chromium steels  
**NT3** chromium-molybdenum steels  
**NT4** chromium-nickel-molybdenum steels  
**NT5** alloy-m-813  
**NT5** steel-cr1ni10mo2ti-l  
**NT5** steel-cr15ni15motib  
**NT5** steel-cr16ni13monbv  
**NT5** steel-cr16ni15mo3nb  
**NT5** steel-cr16ni16monb  
**NT5** steel-cr16ni8mo2  
**NT6** stainless steel-16-8-2  
**NT5** steel-cr16ni9mo2  
**NT5** steel-cr17ni12mo3  
**NT6** stainless steel-316  
**NT5** steel-cr17ni12mo3-l  
**NT6** stainless steel-316l  
**NT6** stainless steel-zcnd17-13  
**NT5** steel-cr17ni12monb  
**NT5** steel-cr17ni13mo2ti  
**NT5** steel-cr17ni13mo3ti  
**NT5** steel-ni26cr15ti2movalb  
**NT6** alloy-a-286  
**NT3** magnet steel-ks  
**NT3** miduale  
**NT3** stainless steel-406  
**NT3** steel-cr10mo2  
**NT3** steel-cr12  
**NT4** stainless steel-403  
**NT3** steel-cr12moniv  
**NT3** steel-cr12mov  
**NT4** alloy-ht-9  
**NT3** steel-cr13  
**NT4** stainless steel-410  
**NT3** steel-cr13al  
**NT4** stainless steel-405  
**NT3** steel-cr16  
**NT4** stainless steel-430  
**NT3** steel-cr16ni  
**NT3** steel-cr17cu4ni4nb-l  
**NT4** stainless steel-17-4ph  
**NT3** steel-cr17mo  
**NT4** stainless steel-440  
**NT3** steel-cr17ni4mo3  
**NT3** steel-cr18  
**NT3** steel-cr25  
**NT4** stainless steel-446  
**NT3** steel-cr9mo  
**NT3** steel-cr9monbv  
**NT2** colmonoy  
**NT2** discaloy  
**NT2** ge 2541  
**NT2** hoskins 875  
**NT2** illium  
**NT2** incoloy 901  
**NT2** kanthal  
**NT2** konel  
**NT2** magnesium alloy-zr  
**NT2** misco metal  
**NT2** ni-hard  
**NT2** ni-o-nel  
**NT2** microbraz 50  
**NT2** nimonic 115  
**NT2** rene-100  
**NT2** rene 80  
**NT2** rene 95  
**NT2** sicromo 9m  
**NT2** steel-cd-4mcu  
**NT2** steel-cr21mn9ni6  
**NT3** stainless steel-21-6-9  
**NT2** steel-cr2mo  
**NT3** steel-astm-a542  
**NT2** steel-cr2moninb  
**NT2** steel-cr2mov  
**NT2** steel-cr2nimov  
**NT2** steel-cr5mo  
**NT2** steel-cralnimo  
**NT2** steel-crmov  
**NT2** steel-ni3crmo  
**NT3** steel-astm-a543  
**NT2** steel-ni3crmov  
**NT2** steel-ni4crw  
**NT2** supertherm  
**NT2** sweetalloy  
**NT2** td-nickel chromium  
**NT2** tophet  
**NT2** tribaloy 400  
**NT2** tribaloy 800  
**NT2** udimet alloys  
**NT3** alloy-ni53co19cr15mo5al4ti3  
**NT4** udimet 700  
**NT3** udimet 500  
**NT2** vitallium  
**NT1** cobalt alloys  
**NT2** alloy-b-1900  
**NT2** alloy-fe44ni33cr21  
**NT3** incoloy 800h  
**NT2** alloy-fe53ni29co18  
**NT3** kovar  
**NT2** alloy-mar-m246  
**NT2** alloy-mp35n  
**NT2** alloy-ni46cr23co19ti5al4  
**NT3** alloy-in-939  
**NT2** alloy-ni49cr22fe18mo9  
**NT3** hastelloy x  
**NT2** alloy-ni50co20cr15al5mo5  
**NT3** nimonic 105  
**NT2** alloy-ni54cr22co13mo9  
**NT3** inconel 617  
**NT2** alloy-ni54mo17cr16fe6w4  
**NT3** hastelloy c  
**NT2** alloy-ni55co17cr15mo5al4ti4  
**NT3** astroloy  
**NT2** alloy-ni55cr19co11mo10ti3  
**NT3** rene 41  
**NT2** alloy-ni58cr20co14mo4ti3  
**NT3** waspaloy  
**NT2** alloy-ni59cr20co17ti2  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-in-100  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-ni65mo28fe5  
**NT3** hastelloy b  
**NT2** alloy-ra-333  
**NT2** alloy-s-590  
**NT2** alloy-s-816  
**NT2** alloy-v-36  
**NT2** alloy-yundk 25ba  
**NT2** alnico alloys  
**NT2** carboloy  
**NT2** cobalt additions  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** steel-cr18ni11nbco  
**NT4** stainless steel-348  
**NT2** cobalt base alloys  
**NT3** alloy-co43cr20fe18ni13w3  
**NT4** havar  
**NT3** alloy-co50fe50  
**NT4** permendur  
**NT3** alloy-co52fe35v10  
**NT3** haynes alloys  
**NT4** alloy-co36cr22ni22w15fe3  
**NT5** haynes 188 alloy  
**NT4** alloy-co54cr20w15ni10  
**NT5** alloy-hs-25  
**NT5** haynes 25 alloy  
**NT4** alloy-co60cr30w4  
**NT5** stellite 6  
**NT3** mar-m509 alloys  
**NT3** stellite  
**NT4** alloy-co54cr20w15ni10  
**NT5** alloy-hs-25  
**NT5** haynes 25 alloy  
**NT4** alloy-co60cr30w4  
**NT5** stellite 6  
**NT4** alloy-hs-31  
**NT3** tribaloy 400  
**NT3** tribaloy 800  
**NT2** cunico  
**NT2** hiperco  
**NT2** kanthal  
**NT2** konel  
**NT2** magnet steel-ks  
**NT2** nimonic 115  
**NT2** rene-100  
**NT2** rene 80  
**NT2** rene 95  
**NT2** supertherm  
**NT2** timken alloys  
**NT2** udimet alloys  
**NT3** alloy-ni53co19cr15mo5al4ti3  
**NT4** udimet 700  
**NT3** udimet 500  
**NT2** vitallium  
**NT1** copper alloys  
**NT2** alloy-al95cu4  
**NT3** duralumin  
**NT2** alloy-ni43fe30cr22mo3  
**NT3** incoloy 825  
**NT2** alloy-ni66cu32  
**NT3** monel 400  
**NT2** alloy-yundk 25ba  
**NT2** bondur  
**NT2** copper additions  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** duranickel  
**NT3** steel-cr2mov  
**NT3** steel-cr2nimov  
**NT3** steel-crmov  
**NT3** steel-crni  
**NT3** steel-mncumo  
**NT4** steel-astm-a537  
**NT3** steel-ni3cr  
**NT3** steel-ni4crw  
**NT3** steel-nicr  
**NT3** steel-nicrmo  
**NT2** copper base alloys  
**NT3** alloy-cu52ni47  
**NT4** constantan  
**NT3** alloy-cu70ni30  
**NT3** alloy-cu90ni10  
**NT3** brass  
**NT4** brass-alpha  
**NT4** brass-beta  
**NT3** bronze  
**NT3** heusler alloys  
**NT3** manganim

- NT3** muntz metal  
**NT3** nickeline alloy  
**NT3** ounce metal  
**NT3** tungsten bronze  
**NT2** cunico  
**NT2** heddur  
**NT2** illium  
**NT2** lynite  
**NT2** magnalium  
**NT2** ni-o-nel  
**NT2** steel-cd-4mcu  
**NT2** steel-cr17cu4ni4nb-1  
**NT3** stainless steel-17-4ph  
**NT2** steel-in-787  
**NT2** zamak  
**NT1** gold alloys  
**NT2** gold additions  
**NT2** gold base alloys  
**NT3** palau  
**NT1** hafnium alloys  
**NT2** alloy-c-103  
**NT2** alloy-ta90w8hf  
**NT3** tantalum alloy-t111  
**NT2** hafnium additions  
**NT3** astar 811c  
**NT2** hafnium base alloys  
**NT1** iron alloys  
**NT2** alloy-co36cr22ni22w15fe3  
**NT3** haynes 188 alloy  
**NT2** alloy-co43cr20fe18ni13w3  
**NT3** havar  
**NT2** alloy-co52fe35v10  
**NT2** alloy-co54cr20w15ni10  
**NT3** alloy-hs-25  
**NT3** haynes 25 alloy  
**NT2** alloy-co60cr30w4  
**NT3** stellite 6  
**NT2** alloy-hs-31  
**NT2** alloy-in-102  
**NT2** alloy-khn5ombvby  
**NT2** alloy-mo-re-1  
**NT2** alloy-ni41fe40cr16nb3  
**NT3** inconel 706  
**NT2** alloy-ni43fe30cr22mo3  
**NT3** incoloy 825  
**NT2** alloy-ni43fe33cr16mo3  
**NT3** nimonic pe16  
**NT2** alloy-ni45fe34cr20  
**NT2** alloy-ni49cr22fe18mo9  
**NT3** hastelloy x  
**NT2** alloy-ni50co20cr15al5mo5  
**NT3** nimonic 105  
**NT2** alloy-ni50cr22fe18mo9  
**NT3** hastelloy xr  
**NT2** alloy-ni53cr19fe19nb5mo3  
**NT3** inconel 718  
**NT2** alloy-ni54mo17cr16fe6w4  
**NT3** hastelloy c  
**NT2** alloy-ni58cr20co14mo4ti3  
**NT3** waspaloy  
**NT2** alloy-ni59cr20co17ti2  
**NT2** alloy-ni59cr30fe9  
**NT3** inconel 690  
**NT2** alloy-ni60fe24cr16  
**NT3** nichrome  
**NT2** alloy-ni61cr22mo9nb4fe3  
**NT3** inconel 625  
**NT2** alloy-ni61cr23fe14  
**NT2** alloy-ni62cr16mo15fe3  
**NT3** hastelloy s  
**NT2** alloy-ni66cu32  
**NT3** monel 400  
**NT2** alloy-ni70mo17cr7fe5  
**NT3** hastelloy n  
**NT3** inor-8  
**NT2** alloy-ni73cr15fe7ti3  
**NT3** inconel x750  
**NT2** alloy-ni76cr15fe8  
**NT3** inconel 600  
**NT2** alloy-ni77cr20ti2  
**NT2** alloy-ni78cr21  
**NT2** alloy-ni79fe16mo4  
**NT2** alloy-ra-333  
**NT2** alloy-s-816  
**NT2** alloy-v-36  
**NT2** alloy-v87cr9fe3  
**NT2** alloy-yundk 25ba  
**NT2** austenite  
**NT2** colmonoy  
**NT2** ferrite  
**NT2** incoloy 901  
**NT2** iron additions  
**NT3** alloy-al95cu4  
**NT4** duralumin  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni73cr20mn3nb3  
**NT4** inconel 82  
**NT3** alloy-ni80cr20  
**NT3** alloy-ti88mo8al3  
**NT3** alloy-ti90al6mo3  
**NT3** alloy-ti90al6v4  
**NT3** alloy-ti91al4mo3  
**NT3** alloy-ti91al5cr2  
**NT3** alloy-zr98sn-2  
**NT4** zircaloy 2  
**NT3** alloy-zr98sn-4  
**NT4** zircaloy 4  
**NT3** aludur  
**NT3** duranickel  
**NT3** rene 95  
**NT3** zamak  
**NT2** iron base alloys  
**NT3** alloy-co50fe50  
**NT4** permendur  
**NT3** alloy-fe40ni35cr22  
**NT3** alloy-fe44ni33cr21  
**NT4** incoloy 800h  
**NT3** alloy-fe46ni33cr21  
**NT4** incoloy 800  
**NT4** incoloy 802  
**NT3** alloy-fe53ni29co18  
**NT4** kovar  
**NT3** alnico alloys  
**NT3** ascoloy  
**NT3** cast iron  
**NT3** discaloy  
**NT3** duriron  
**NT3** ge 2541  
**NT3** hiperco  
**NT3** hoskins 875  
**NT3** invar  
**NT3** kanthal  
**NT3** sicromo 9m  
**NT3** steel-cd-4mcu  
**NT3** steels  
**NT4** austenitic steels  
**NT5** steel-cr15ni15motib  
**NT5** steel-cr16ni13monbv  
**NT5** steel-cr16ni15mo3nb  
**NT5** steel-cr16ni16monb  
**NT5** steel-cr16ni8mo2  
**NT6** stainless steel-16-8-2  
**NT5** steel-cr17ni12mo3  
**NT6** stainless steel-316  
**NT5** steel-cr17ni12mo3-1  
**NT6** stainless steel-316l  
**NT6** stainless steel-zend17-13  
**NT5** steel-cr17ni12monb  
**NT5** steel-cr17ni13  
**NT5** steel-cr17ni13mo2ti  
**NT5** steel-cr17ni13mo3ti  
**NT5** steel-cr17ni7  
**NT6** stainless steel-301  
**NT5** steel-cr18ni10  
**NT6** stainless steel-18-10  
**NT5** steel-cr18ni10-1  
**NT5** steel-cr18ni10ti  
**NT6** stainless steel-321  
**NT5** steel-cr18ni11  
**NT6** steel-x6crni1811  
**NT5** steel-cr18ni11nb  
**NT6** stainless steel-347  
**NT5** steel-cr18ni11nbco  
**NT6** stainless steel-348  
**NT5** steel-cr18ni12  
**NT6** stainless steel-305  
**NT5** steel-cr18ni12ti  
**NT5** steel-cr18ni8  
**NT6** stainless steel-18-8  
**NT5** steel-cr18ni9  
**NT6** stainless steel-302  
**NT5** steel-cr18ni9ti  
**NT5** steel-cr19ni10  
**NT6** stainless steel-304  
**NT5** steel-cr19ni10-1  
**NT6** stainless steel-304l  
**NT5** steel-cr20ni11  
**NT6** stainless steel-308  
**NT5** steel-cr20ni11-1  
**NT6** stainless steel-308l  
**NT5** steel-cr21mn9ni6  
**NT6** stainless steel-21-6-9  
**NT5** steel-cr23ni14  
**NT6** stainless steel-309  
**NT6** stainless steel-309s  
**NT5** steel-cr23ni18  
**NT5** steel-cr25ni20  
**NT6** alloy-hk-40  
**NT6** stainless steel-310  
**NT5** steel-ni25cr20  
**NT6** stainless steel-20-25  
**NT5** steel-ni26cr15ti2moyalb  
**NT6** alloy-a-286  
**NT4** carbon steels  
**NT5** steel-astm-a105  
**NT5** steel-astm-a106  
**NT5** steel-astm-a212  
**NT5** steel-astm-a285  
**NT5** steel-astm-a516  
**NT5** steel-astm-a533-b  
**NT5** steel-in-787  
**NT5** steel-sae-1045  
**NT4** croloy  
**NT5** steel-cr13  
**NT6** stainless steel-410  
**NT5** steel-cr16  
**NT6** stainless steel-430  
**NT5** steel-cr18ni10  
**NT6** stainless steel-18-10  
**NT5** steel-cr2mo  
**NT6** steel-astm-a542  
**NT5** steel-cr5mo  
**NT4** ferritic steels  
**NT5** steel-cr12moniv  
**NT5** steel-cr13al  
**NT6** stainless steel-405  
**NT5** steel-cr16  
**NT6** stainless steel-430  
**NT5** steel-cr25  
**NT6** stainless steel-446  
**NT5** steel-cr9mo  
**NT5** steel-cr9monbv  
**NT4** high alloy steels  
**NT5** stainless steels  
**NT6** chromium-nickel steels  
**NT7** alloy-d-9  
**NT7** carpenter  
**NT7** chromium-nickel-molybdenum steels  
**NT8** alloy-m-813  
**NT8** steel-cr11ni10mo2ti-1  
**NT8** steel-cr15ni15motib  
**NT8** steel-cr16ni13monbv  
**NT8** steel-cr16ni15mo3nb

NT8	steel-cr16ni16monb	NT10	stainless steel-zcnd17-13	NT5	steel-ni3crmov
NT8	steel-cr16ni8mo2	NT9	steel-cr17ni12monb	NT5	steel-ni4crw
NT9	stainless steel-16-8-2	NT9	steel-cr17ni13mo2ti	NT5	steel-nicr
NT8	steel-cr16ni9mo2	NT9	steel-cr17ni13mo3ti	NT5	steel-nicrmo
NT8	steel-cr17ni12mo3	NT9	steel-ni26cr15ti2moyalb	NT5	steel-nimocr
NT9	stainless steel-316	NT10	alloy-a-286	NT4	manganese steels
NT8	steel-cr17ni12mo3-l	NT7	magnet steel-ks	NT4	martensitic steels
NT9	stainless steel-316l	NT7	miduale	NT5	maraging steels
NT9	stainless steel-zcnd17-13	NT7	stainless steel-406	NT5	steel-cr10mo2
NT8	steel-cr17ni12monb	NT7	steel-cr10mo2	NT5	steel-cr12
NT8	steel-cr17ni13mo2ti	NT7	steel-cr12	NT6	stainless steel-403
NT8	steel-cr17ni13mo3ti	NT8	stainless steel-403	NT5	steel-cr12mov
NT8	steel-ni26cr15ti2moyalb	NT7	steel-cr12moniv	NT6	alloy-ht-9
NT9	alloy-a-286	NT7	steel-cr12mov	NT5	steel-cr13
NT7	durco	NT8	alloy-ht-9	NT6	stainless steel-410
NT7	enduro	NT7	steel-cr13	NT5	steel-cr16ni
NT7	stainless steel-17-7ph	NT8	stainless steel-410	NT5	steel-cr17cu4ni4nb-l
NT7	stainless steel-303	NT7	steel-cr13al	NT6	stainless steel-17-4ph
NT7	stainless steel-329	NT8	stainless steel-405	NT5	steel-cr17mo
NT7	stainless steel-ph-15-7-mo	NT7	steel-cr16	NT6	stainless steel-440
NT7	steel-cr17ni13	NT8	stainless steel-430	NT5	steel-cr18
NT7	steel-cr17ni7	NT7	steel-cr16ni	NT4	nickel steels
NT8	stainless steel-301	NT7	steel-cr17cu4ni4nb-l	NT5	sweetalloy
NT7	steel-cr18ni10	NT8	stainless steel-17-4ph	NT4	steel-astm-a572
NT8	stainless steel-18-10	NT7	steel-cr17mo	NT2	konel
NT7	steel-cr18ni10-l	NT8	stainless steel-440	NT2	lynite
NT7	steel-cr18ni10ti	NT7	steel-cr17ni4mo3	NT2	martensite
NT8	stainless steel-321	NT7	steel-cr18	NT2	misco metal
NT7	steel-cr18ni11	NT7	steel-cr25	NT2	ni-hard
NT8	steel-x6crni1811	NT8	stainless steel-446	NT2	orthonol
NT7	steel-cr18ni11nb	NT7	steel-cr9mo	NT2	permalloy
NT8	stainless steel-347	NT7	steel-cr9monbv	NT2	rene 41
NT7	steel-cr18ni11nbco	NT6	low carbon-high alloy steels	NT2	supertherm
NT8	stainless steel-348	NT7	steel-cr11ni10mo2ti-l	NT2	tribaloy 400
NT7	steel-cr18ni12	NT7	steel-cr17cu4ni4nb-l	NT2	tribaloy 800
NT8	stainless steel-305	NT8	stainless steel-17-4ph	NT1	manganese alloys
NT7	steel-cr18ni12ti	NT7	steel-cr17ni12mo3-l	NT2	alloy-co43cr20fe18ni13w3
NT7	steel-cr18ni8	NT8	stainless steel-316l	NT3	havar
NT8	stainless steel-18-8	NT8	stainless steel-zcnd17-13	NT2	alloy-mo-re-1
NT7	steel-cr18ni9	NT7	steel-cr18ni10-l	NT2	alloy-ni73cr20mn3nb3
NT8	stainless steel-302	NT7	steel-cr19ni10-l	NT3	inconel 82
NT7	steel-cr18ni9ti	NT8	stainless steel-304l	NT2	alloy-ni94mn3al2
NT7	steel-cr19ni10	NT7	steel-cr20ni11-l	NT3	aludel
NT8	stainless steel-304	NT8	stainless steel-308l	NT2	alloy-s-816
NT7	steel-cr19ni10-l	NT7	steel-ni36cr12ti3al-l	NT2	heusler alloys
NT8	stainless steel-304l	NT6	stainless steel-317	NT2	manganese additions
NT7	steel-cr20ni11	NT6	stainless steel-318	NT3	alloy-al95cu4
NT8	stainless steel-308	NT6	stainless steel-422	NT4	duralumin
NT7	steel-cr20ni11-l	NT6	stainless steel-fv-548	NT3	alloy-fe40ni35cr22
NT8	stainless steel-308l	NT6	stainless steel-jbk-75	NT3	alloy-fe53ni29co18
NT7	steel-cr23ni14	NT6	stainless steel m-50	NT4	kovar
NT8	stainless steel-309	NT6	steel-cr21mn9ni6	NT3	alloy-hs-31
NT8	stainless steel-309s	NT7	stainless steel-21-6-9	NT3	alloy-n28t3
NT7	steel-cr23ni18	NT6	sweetalloy	NT3	alloy-ni66cu32
NT7	steel-cr25ni20	NT4	low alloy steels	NT4	monel 400
NT8	alloy-hk-40	NT5	steel-astm-a350	NT3	alloy-ni78cr21
NT8	stainless steel-310	NT5	steel-astm-a387	NT3	alloy-v-36
NT7	steel-ni25cr20	NT5	steel-astm-a508	NT3	ascaloy
NT8	stainless steel-20-25	NT5	steel-astm-a533	NT3	bondur
NT7	steel-ni36cr12ti3al-l	NT5	steel-cr2mo	NT3	discaloy
NT7	timken alloys	NT6	steel-astm-a542	NT3	duranicke
NT6	chromium steels	NT5	steel-cr2moninb	NT3	duriron
NT7	chromium-molybdenum steels	NT5	steel-cr2mov	NT3	magnesium alloy-az31b
NT8	chromium-nickel-molybdenum steels	NT5	steel-cr2nimov	NT3	miduale
NT9	alloy-m-813	NT5	steel-cr5mo	NT3	ni-hard
NT9	steel-cr11ni10mo2ti-l	NT5	steel-cralnimo	NT3	steel-cr16ni9mo2
NT9	steel-cr15ni15motib	NT5	steel-crmo	NT2	manganese base alloys
NT9	steel-cr16ni13monbv	NT5	steel-crmov	NT2	manganese steels
NT9	steel-cr16ni15mo3nb	NT5	steel-crni	NT2	manganin
NT9	steel-cr16ni16monb	NT5	steel-mncumo	NT2	stainless steel-zcnd17-13
NT9	steel-cr16ni8mo2	NT6	steel-astm-a537	NT2	steel-cr21mn9ni6
NT10	stainless steel-16-8-2	NT5	steel-mnmo	NT3	stainless steel-21-6-9
NT9	steel-cr16ni9mo2	NT6	steel-astm-a302	NT2	steel-mncumo
NT9	steel-cr17ni12mo3	NT5	steel-mnnimo	NT3	steel-astm-a537
NT10	stainless steel-316	NT6	steel-astm-a533-b	NT2	steel-mnmo
NT9	steel-cr17ni12mo3-l	NT5	steel-mnimov	NT3	steel-astm-a302
NT9	steel-cr17ni12mo3-l	NT5	steel-ni3cr	NT2	steel-mnnimo
NT10	stainless steel-316l	NT5	steel-ni3crmo	NT3	steel-astm-a533-b
		NT6	steel-astm-a543	NT2	steel-mnnimov

- NT1** molybdenum alloys  
**NT2** alloy-b-1900  
**NT2** alloy-co43cr20fe18ni13w3  
**NT3** havar  
**NT2** alloy-d-979  
**NT2** alloy-in-102  
**NT2** alloy-khn50mbvyu  
**NT2** alloy-mar-m246  
**NT2** alloy-mn-21  
**NT2** alloy-mp35n  
**NT2** alloy-n-10m  
**NT2** alloy-n-9m  
**NT2** alloy-ni43fe30cr22mo3  
**NT3** incoloy 825  
**NT2** alloy-ni43fe33cr16mo3  
**NT3** nimonic pel6  
**NT2** alloy-ni49cr22fe18mo9  
**NT3** hastelloy x  
**NT2** alloy-ni50co20cr15al5mo5  
**NT3** nimonic 105  
**NT2** alloy-ni50cr22fe18mo9  
**NT3** hastelloy xr  
**NT2** alloy-ni50mo32cr15si3  
**NT2** alloy-ni53cr19fe19nb5mo3  
**NT3** inconel 718  
**NT2** alloy-ni54cr22co13mo9  
**NT3** inconel 617  
**NT2** alloy-ni54mo17cr16fe6w4  
**NT3** hastelloy c  
**NT2** alloy-ni55co17cr15mo5al4ti4  
**NT3** astroloy  
**NT2** alloy-ni55cr19co11mo10ti3  
**NT3** rene 41  
**NT2** alloy-ni58cr20co14mo4ti3  
**NT3** waspaloy  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-in-100  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-ni61cr22mo9nb4fe3  
**NT3** inconel 625  
**NT2** alloy-ni62cr16mo15fe3  
**NT3** hastelloy s  
**NT2** alloy-ni65cr25mo10  
**NT3** nimonic 86  
**NT2** alloy-ni70mo17cr7fe5  
**NT3** hastelloy n  
**NT3** inor-8  
**NT2** alloy-ni74cr13al6mo4  
**NT3** inconel 713c  
**NT2** alloy-ni75cr12al6mo5  
**NT3** inconel 713lc  
**NT2** alloy-ni79fe16mo4  
**NT2** alloy-nx-188  
**NT2** alloy-ra-333  
**NT2** alloy-s-590  
**NT2** alloy-s-816  
**NT2** alloy-ti78cr11mo7al3  
**NT2** alloy-ti88mo8al3  
**NT2** alloy-ti89al6mo3  
**NT2** alloy-ti90al6mo3  
**NT2** alloy-ti90mo7al2  
**NT2** alloy-ti91al4mo3  
**NT2** alloy-ti91al5cr2  
**NT2** alloy-v-36  
**NT2** chlorimet  
**NT2** chromium-molybdenum steels  
**NT3** chromium-nickel-molybdenum steels  
**NT4** alloy-m-813  
**NT4** steel-cr11ni10mo2ti-l  
**NT4** steel-cr15ni15motib  
**NT4** steel-cr16ni13monbv  
**NT4** steel-cr16ni15mo3nb  
**NT4** steel-cr16ni16monb  
**NT4** steel-cr16ni8mo2  
**NT5** stainless steel-16-8-2  
**NT4** steel-cr16ni9mo2  
**NT4** steel-cr17ni12mo3
- NT5** stainless steel-316  
**NT4** steel-cr17ni12mo3-l  
**NT3** stainless steel-316l  
**NT4** steel-cr17ni12mo3  
**NT3** steel-cr12moniv  
**NT3** steel-cr12mov  
**NT4** alloy-ht-9  
**NT3** steel-cr17mo  
**NT4** stainless steel-440  
**NT3** steel-cr2mo  
**NT4** steel-astm-a542  
**NT3** steel-cr2moninb  
**NT3** steel-cr2mov  
**NT3** steel-cr2nimov  
**NT3** steel-cr5mo  
**NT3** steel-cr9mo  
**NT3** steel-cralnimo  
**NT3** steel-crmo  
**NT3** steel-crmov  
**NT3** steel-mncumo  
**NT4** steel-astm-a537  
**NT3** steel-mnmo  
**NT4** steel-astm-a302  
**NT3** steel-mnnimo  
**NT4** steel-astm-a533-b  
**NT3** steel-mnnimov  
**NT3** steel-ni3crmo  
**NT4** steel-astm-a543  
**NT3** steel-ni3crmov  
**NT3** steel-nicrmo  
**NT3** steel-nimocr  
**NT2** molybdenum base alloys  
**NT3** alloy-mo99  
**NT4** alloy-tzm  
**NT4** alloy-zm-2a  
**NT3** alloy-mo99b  
**NT2** ni-o-nel  
**NT2** nimonic 115  
**NT2** rene-100  
**NT2** rene 80  
**NT2** rene 95  
**NT2** sicromo 9m  
**NT2** stainless steel m-50  
**NT2** steel-cd-4mcu  
**NT2** steel-cr10mo2  
**NT2** steel-cr17ni4mo3  
**NT2** steel-cr9monbv  
**NT2** steel-in-787  
**NT2** timken alloys  
**NT2** tribaloy 400  
**NT2** tribaloy 800  
**NT2** udimet alloys  
**NT3** alloy-ni53co19cr15mo5al4ti3  
**NT4** udimet 700  
**NT3** udimet 500  
**NT2** vitallium  
**NT1** nickel alloys  
**NT2** alloy-co36cr22ni22w15fe5  
**NT3** haynes 188 alloy  
**NT2** alloy-co43cr20fe18ni13w3  
**NT3** havar  
**NT2** alloy-co54cr20w15ni10  
**NT3** alloy-hs-25  
**NT3** haynes 25 alloy  
**NT2** alloy-co60cr30w4  
**NT3** stellite 6  
**NT2** alloy-cu52ni47  
**NT3** constantan  
**NT2** alloy-d-979
- NT2** alloy-fe40ni35cr22  
**NT2** alloy-fe44ni33cr21  
**NT3** incoloy 800h  
**NT2** alloy-fe46ni33cr21  
**NT3** incoloy 800  
**NT3** incoloy 802  
**NT2** alloy-fe53ni29co18  
**NT3** kovar  
**NT2** alloy-hs-31  
**NT2** alloy-mo-re-1  
**NT2** alloy-mp35n  
**NT2** alloy-n28t3  
**NT2** alloy-s-590  
**NT2** alloy-s-816  
**NT2** alloy-v-36  
**NT2** alloy-yundk 25ba  
**NT2** alnico alloys  
**NT2** ascology  
**NT2** chromium-nickel steels  
**NT3** alloy-d-9  
**NT3** carpenter  
**NT3** chromium-nickel-molybdenum steels  
**NT4** alloy-m-813  
**NT4** steel-cr11ni10mo2ti-l  
**NT4** steel-cr15ni15motib  
**NT4** steel-cr16ni13monbv  
**NT4** steel-cr16ni15mo3nb  
**NT4** steel-cr16ni16monb  
**NT4** steel-cr16ni8mo2  
**NT5** stainless steel-16-8-2  
**NT4** steel-cr16ni9mo2  
**NT4** steel-cr17ni12mo3  
**NT5** stainless steel-316  
**NT4** steel-cr17ni12mo3-l  
**NT5** stainless steel-316l  
**NT5** stainless steel-zcnd17-13  
**NT4** steel-cr17ni12monb  
**NT4** steel-cr17ni13mo2ti  
**NT4** steel-cr17ni13mo3ti  
**NT4** steel-ni26cr15ti2movalb  
**NT5** alloy-a-286  
**NT3** durco  
**NT3** enduro  
**NT3** stainless steel-17-7ph  
**NT3** stainless steel-303  
**NT3** stainless steel-329  
**NT3** stainless steel-ph-15-7-mo  
**NT3** steel-cr17ni13  
**NT3** steel-cr17ni7  
**NT4** stainless steel-301  
**NT3** steel-cr18ni10  
**NT4** stainless steel-18-10  
**NT3** steel-cr18ni10-l  
**NT3** steel-cr18ni10ti  
**NT4** stainless steel-321  
**NT3** steel-cr18ni11  
**NT4** steel-x6crni1811  
**NT3** steel-cr18ni11nb  
**NT4** stainless steel-347  
**NT3** steel-cr18ni11nbco  
**NT4** stainless steel-348  
**NT3** steel-cr18ni12  
**NT4** stainless steel-305  
**NT3** steel-cr18ni12ti  
**NT3** steel-cr18ni8  
**NT4** stainless steel-18-8  
**NT3** steel-cr18ni9  
**NT4** stainless steel-302  
**NT3** steel-cr18ni9ti  
**NT3** steel-cr19ni10  
**NT4** stainless steel-304  
**NT3** steel-cr19ni10-l  
**NT4** stainless steel-304l  
**NT3** steel-cr20ni11  
**NT4** stainless steel-308  
**NT3** steel-cr20ni11-l  
**NT4** stainless steel-308l  
**NT3** steel-cr23ni14

- NT4 stainless steel-309  
 NT4 stainless steel-309s  
 NT3 steel-cr23ni18  
 NT3 steel-cr25ni20  
 NT4 alloy-hk-40  
 NT4 stainless steel-310  
 NT3 steel-ni25cr20  
 NT4 stainless steel-20-25  
 NT3 steel-ni36cr12ti3al-l  
 NT3 timken alloys  
 NT2 cunico  
 NT2 discaloy  
 NT2 invar  
 NT2 manganin  
 NT2 misco metal  
 NT2 ni-hard  
 NT2 ni-o-nel  
 NT2 nickel additions  
 NT3 alloy-zr98sn-2  
 NT4 zircaloy 2  
 NT3 ounce metal  
 NT3 steel-cr12moniv  
 NT3 steel-cr2moninb  
 NT3 steel-cr2mov  
 NT3 steel-cralnimo  
 NT3 steel-crmo  
 NT3 steel-crmov  
 NT3 steel-crni  
 NT3 steel-mncumo  
 NT4 steel-astm-a537  
 NT3 steel-mnnimo  
 NT4 steel-astm-a533-b  
 NT3 steel-nimocr  
 NT2 nickel base alloys  
 NT3 alloy-b-1900  
 NT3 alloy-in-102  
 NT3 alloy-in-853  
 NT3 alloy-mar-m246  
 NT3 alloy-mn-21  
 NT3 alloy-mo-re-2  
 NT3 alloy-ni43fe30cr22mo3  
 NT4 incoloy 825  
 NT3 alloy-ni45fe34cr20  
 NT3 alloy-ni50mo32cr15si3  
 NT3 alloy-ni55co17cr15mo5al4ti4  
 NT4 astroloy  
 NT3 alloy-ni55cr19co11mo10ti3  
 NT4 rene 41  
 NT3 alloy-ni58cr20co14mo4ti3  
 NT4 waspaloy  
 NT3 alloy-ni77cr20ti2  
 NT3 alloy-ni78cr21  
 NT3 alloy-ni79fe16mo4  
 NT3 alloy-ni94mn3al2  
 NT4 alumel  
 NT3 alloy-nx-188  
 NT3 alloy-ra-333  
 NT3 chlorimet  
 NT3 chromel  
 NT4 alloy-ni60fe24cr16  
 NT5 nichrome  
 NT4 alloy-ni80cr20  
 NT3 colmonoy  
 NT3 duranickel  
 NT3 hastelloys  
 NT4 alloy-ni49cr22fe18mo9  
 NT5 hastelloy x  
 NT4 alloy-ni50cr22fe18mo9  
 NT5 hastelloy xr  
 NT4 alloy-ni54mo17cr16fe6w4  
 NT5 hastelloy c  
 NT4 alloy-ni62cr16mo15fe3  
 NT5 hastelloy s  
 NT4 alloy-ni65mo28fe5  
 NT5 hastelloy b  
 NT4 alloy-ni70mo17cr7fe5  
 NT5 hastelloy n  
 NT5 inor-8  
 NT3 illium  
 NT3 incoloy 901  
 NT3 inconel alloys  
 NT4 alloy-ni41fe40cr16nb3  
 NT5 inconel 706  
 NT4 alloy-ni46cr23co19ti5al4  
 NT5 alloy-in-939  
 NT4 alloy-ni51cr48  
 NT5 inconel 671  
 NT4 alloy-ni53cr19fe19nb5mo3  
 NT5 inconel 718  
 NT4 alloy-ni54cr22co13mo9  
 NT5 inconel 617  
 NT4 alloy-ni59cr30fe9  
 NT5 inconel 690  
 NT4 alloy-ni60co15cr10al6ti5mo3  
 NT5 alloy-in-100  
 NT4 alloy-ni61cr16co9al3ti3w3  
 NT5 alloy-in-738  
 NT4 alloy-ni61cr22mo9nb4fe3  
 NT5 inconel 625  
 NT4 alloy-ni61cr23fe14  
 NT4 alloy-ni73cr15fe7ti3  
 NT5 inconel x750  
 NT4 alloy-ni73cr20mn3nb3  
 NT5 inconel 82  
 NT4 alloy-ni74cr13al6mo4  
 NT5 inconel 713c  
 NT4 alloy-ni75cr12al6mo5  
 NT5 inconel 713c  
 NT4 alloy-ni76cr15fe8  
 NT5 inconel 600  
 NT4 inconel 700  
 NT4 inconel 738  
 NT4 inconel 739  
 NT3 konel  
 NT3 monel  
 NT4 alloy-ni66cu32  
 NT5 monel 400  
 NT3 microbraz 50  
 NT3 nimonic  
 NT4 alloy-ni43fe33cr16mo3  
 NT5 nimonic pe16  
 NT4 alloy-ni50co20cr15al5mo5  
 NT5 nimonic 105  
 NT4 alloy-ni59cr20co17ti2  
 NT4 alloy-ni65cr25mo10  
 NT5 nimonic 86  
 NT4 alloy-ni76cr15fe8  
 NT5 inconel 600  
 NT4 alloy-ni76cr20ti2  
 NT5 nimonic 80a  
 NT4 nimonic 115  
 NT4 nimonic 115a  
 NT3 rene-100  
 NT3 rene 80  
 NT3 rene 95  
 NT3 td-nickel chromium  
 NT3 tophet  
 NT3 udimet alloys  
 NT4 alloy-ni53co19cr15mo5al4ti3  
 NT5 udimet 700  
 NT4 udimet 500  
 NT2 nickel steels  
 NT3 sweetalloy  
 NT2 nickeline alloy  
 NT2 orthonol  
 NT2 permalloy  
 NT2 stainless steel-jbk-75  
 NT2 steel-cd-4mcu  
 NT2 steel-cr16ni  
 NT2 steel-cr17cu4ni4nb-l  
 NT3 stainless steel-17-4ph  
 NT2 steel-cr17ni4mo3  
 NT2 steel-cr21mn9ni6  
 NT3 stainless steel-21-6-9  
 NT2 steel-cr2nimov  
 NT2 steel-in-787  
 NT2 steel-mnnimov  
 NT2 steel-ni3cr  
 NT2 steel-ni3crmo  
 NT3 steel-astm-a543  
 NT2 steel-ni3crmov  
 NT2 steel-ni4crw  
 NT2 steel-nicr  
 NT2 steel-nicrmo  
 NT2 supertherm  
 NT1 niobium alloys  
 NT2 alloy-in-102  
 NT2 alloy-khn50mbvyu  
 NT2 alloy-mn-21  
 NT2 alloy-ni41fe40cr16nb3  
 NT3 inconel 706  
 NT2 alloy-ni53cr19fe19nb5mo3  
 NT3 inconel 718  
 NT2 alloy-ni61cr22mo9nb4fe3  
 NT3 inconel 625  
 NT2 alloy-ni73cr20mn3nb3  
 NT3 inconel 82  
 NT2 alloy-ni74cr13al6mo4  
 NT3 inconel 713c  
 NT2 alloy-ni75cr12al6mo5  
 NT3 inconel 713lc  
 NT2 alloy-s-590  
 NT2 alloy-s-816  
 NT2 alloy-u90nb7zr3  
 NT2 alloy-v-36  
 NT2 alloy-zr97nb3  
 NT2 niobium additions  
 NT3 alloy-ni45fe34cr20  
 NT3 alloy-ni46cr23co19ti5al4  
 NT4 alloy-in-939  
 NT3 alloy-ni61cr16co9al3ti3w3  
 NT4 alloy-in-738  
 NT3 alloy-ni73cr15fe7ti3  
 NT4 inconel x750  
 NT3 alloy-yundk 25ba  
 NT3 steel-cr16ni13monbv  
 NT3 steel-cr16ni15mo3nb  
 NT3 steel-cr16ni16monb  
 NT3 steel-cr17cu4ni4nb-l  
 NT4 stainless steel-17-4ph  
 NT3 steel-cr17ni12monb  
 NT3 steel-cr18ni11nb  
 NT4 stainless steel-347  
 NT3 steel-cr18ni11nbco  
 NT4 stainless steel-348  
 NT3 steel-cr2moninb  
 NT3 steel-cr9monbv  
 NT2 niobium base alloys  
 NT3 alloy-c-103  
 NT3 alloy-n-10m  
 NT3 alloy-n-9m  
 NT3 alloy-nt25a5  
 NT2 rene 95  
 NT2 steel-in-787  
 NT1 platinum metal alloys  
 NT2 iridium alloys  
 NT3 iridium additions  
 NT3 iridium base alloys  
 NT2 osmium alloys  
 NT3 osmium additions  
 NT3 osmium base alloys  
 NT2 palladium alloys  
 NT3 palau  
 NT3 palladium base alloys  
 NT2 platinum alloys  
 NT3 platinum base alloys  
 NT2 rhodium alloys  
 NT3 rhodium additions  
 NT3 rhodium base alloys  
 NT2 ruthenium alloys  
 NT3 ruthenium additions  
 NT3 ruthenium base alloys  
 NT1 rhenium alloys  
 NT2 rhenium additions  
 NT2 rhenium base alloys  
 NT1 scandium alloys  
 NT2 scandium additions



- NT2** scandium base alloys  
**NT1** silver alloys  
**NT2** silver additions  
**NT2** silver base alloys  
**NT1** tantalum alloys  
**NT2** alloy-b-1900  
**NT2** alloy-c-103  
**NT2** alloy-mar-m246  
**NT2** alloy-ni46cr23co19ti5al4  
**NT3** alloy-in-939  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-s-816  
**NT2** alloy-v-36  
**NT2** carbobloy  
**NT2** tantalum additions  
**NT3** alloy-n-10m  
**NT2** tantalum base alloys  
**NT3** alloy-ta90w8hf  
**NT4** tantalum alloy-t111  
**NT3** astar 811c  
**NT3** tantalum alloy-t222  
**NT1** technetium alloys  
**NT2** technetium additions  
**NT2** technetium base alloys  
**NT1** titanium alloys  
**NT2** alloy-b-1900  
**NT2** alloy-c-103  
**NT2** alloy-d-979  
**NT2** alloy-in-853  
**NT2** alloy-m-813  
**NT2** alloy-mar-m246  
**NT2** alloy-n28t3  
**NT2** alloy-ni41fe40cr16nb3  
**NT3** inconel 706  
**NT2** alloy-ni43fe33cr16mo3  
**NT3** nimonic pe16  
**NT2** alloy-ni46cr23co19ti5al4  
**NT3** alloy-in-939  
**NT2** alloy-ni50co20cr15al5mo5  
**NT3** nimonic 105  
**NT2** alloy-ni55co17cr15mo5al4ti4  
**NT3** astroloy  
**NT2** alloy-ni55cr19co11mo10ti3  
**NT3** rene 41  
**NT2** alloy-ni58cr20co14mo4ti3  
**NT3** waspaloy  
**NT2** alloy-ni59cr20co17ti2  
**NT2** alloy-ni60co15cr10al6ti5mo3  
**NT3** alloy-in-100  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-ni73cr15fe7ti3  
**NT3** inconel x750  
**NT2** alloy-ni76cr20ti2  
**NT3** nimonic 80a  
**NT2** alloy-ni77cr20ti2  
**NT2** alloy-nt25a5  
**NT2** carbobloy  
**NT2** discaloy  
**NT2** incoloy 901  
**NT2** konel  
**NT2** ni-o-nel  
**NT2** rene-100  
**NT2** rene 80  
**NT2** rene 95  
**NT2** stainless steel-jbk-75  
**NT2** steel-cr11ni10mo2ti-1  
**NT2** steel-ni26cr15ti2movalb  
**NT3** alloy-a-286  
**NT2** steel-ni36cr12ti3al-1  
**NT2** titanium additions  
**NT3** alloy-fe44ni33cr21  
**NT4** incoloy 800h  
**NT3** alloy-fe46ni33cr21  
**NT4** incoloy 800  
**NT4** incoloy 802  
**NT3** alloy-in-102  
**NT3** alloy-mo99  
**NT4** alloy-tzm  
**NT4** alloy-zm-2a  
**NT3** alloy-n-10m  
**NT3** alloy-ni43fe30cr22mo3  
**NT4** incoloy 825  
**NT3** alloy-ni51cr48  
**NT4** inconel 671  
**NT3** alloy-ni53cr19fe19nb5mo3  
**NT4** inconel 718  
**NT3** alloy-ni59cr30fe9  
**NT4** inconel 690  
**NT3** alloy-ni61cr22mo9nb4fe3  
**NT4** inconel 625  
**NT3** alloy-ni70mo17cr7fe5  
**NT4** hastelloy n  
**NT4** inor-8  
**NT3** alloy-ni73cr20mn3nb3  
**NT4** inconel 82  
**NT3** alloy-ni74cr13al6mo4  
**NT4** inconel 713c  
**NT3** alloy-ni75cr12al6mo5  
**NT4** inconel 713lc  
**NT3** alloy-ni76cr15fe8  
**NT4** inconel 600  
**NT3** alloy-ni78cr21  
**NT3** duranickel  
**NT3** steel-cr15ni15motib  
**NT3** steel-cr17ni13mo2ti  
**NT3** steel-cr17ni13mo3ti  
**NT3** steel-cr18ni10ti  
**NT4** stainless steel-321  
**NT3** steel-cr18ni12ti  
**NT3** steel-cr18ni9ti  
**NT2** titanium base alloys  
**NT3** alloy-ti78cr11mo7al3  
**NT3** alloy-ti88mo8al3  
**NT3** alloy-ti89al6mo3  
**NT3** alloy-ti90al6  
**NT3** alloy-ti90al6mo3  
**NT3** alloy-ti90al6v4  
**NT3** alloy-ti90mo7al2  
**NT3** alloy-ti91al4mo3  
**NT3** alloy-ti91al5cr2  
**NT3** alloy-ti99  
**NT2** udimet alloys  
**NT3** alloy-ni53co19cr15mo5al4ti3  
**NT4** udimet 700  
**NT3** udimet 500  
**NT1** tungsten alloys  
**NT2** alloy-c-103  
**NT2** alloy-co36cr22ni22w15fe3  
**NT3** haynes 188 alloy  
**NT2** alloy-co43cr20fe18ni13w3  
**NT3** havar  
**NT2** alloy-co54cr20w15ni10  
**NT3** alloy-hs-25  
**NT3** haynes 25 alloy  
**NT2** alloy-co60cr30w4  
**NT3** stellite 6  
**NT2** alloy-d-979  
**NT2** alloy-in-102  
**NT2** alloy-khn50mbvyu  
**NT2** alloy-mar-m246  
**NT2** alloy-mn-21  
**NT2** alloy-mo-re-1  
**NT2** alloy-ni54mo17cr16fe6w4  
**NT3** hastelloy c  
**NT2** alloy-ni61cr16co9al3ti3w3  
**NT3** alloy-in-738  
**NT2** alloy-ra-333  
**NT2** alloy-s-590  
**NT2** alloy-s-816  
**NT2** alloy-ta90w8hf  
**NT3** tantalum alloy-t111  
**NT2** alloy-v-36  
**NT2** astar 811c  
**NT2** carbobloy  
**NT2** magnet steel-ks  
**NT2** miduale  
**NT2** rene 80  
**NT2** rene 95  
**NT2** supertherm  
**NT2** tungsten additions  
**NT3** alloy-ni49cr22fe18mo9  
**NT4** hastelloy x  
**NT3** alloy-ni50cr22fe18mo9  
**NT4** hastelloy xr  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** steel-ni4crw  
**NT2** tungsten base alloys  
**NT3** alloy-mo-re-2  
**NT2** tungsten bronze  
**NT2** udimet 500  
**NT1** vanadium alloys  
**NT2** alloy-co52fe35v10  
**NT2** alloy-ti90al6v4  
**NT2** alloy-ti91al4mo3  
**NT2** vanadium additions  
**NT3** alloy-ni54mo17cr16fe6w4  
**NT4** hastelloy c  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni62cr16mo15fe3  
**NT4** hastelloy s  
**NT3** alloy-ni65mo28fe5  
**NT4** hastelloy b  
**NT3** alloy-ti90al6  
**NT3** steel-cr12moniv  
**NT3** steel-cr12mov  
**NT4** alloy-ht-9  
**NT3** steel-cr16ni13monbv  
**NT3** steel-cr2mov  
**NT3** steel-cr2nimov  
**NT3** steel-cr9monbv  
**NT3** steel-crmov  
**NT3** steel-mnнимov  
**NT3** steel-ni26cr15ti2movalb  
**NT4** alloy-a-286  
**NT3** steel-ni3crmo  
**NT4** steel-astm-a543  
**NT3** steel-ni3crmov  
**NT2** vanadium base alloys  
**NT3** alloy-v87cr9fe3  
**NT1** yttrium alloys  
**NT2** alloy-c-103  
**NT2** ge 2541  
**NT2** yttrium base alloys  
**NT1** zirconium alloys  
**NT2** alloy-c-103  
**NT2** alloy-ti89al6mo3  
**NT2** alloy-ti90al6  
**NT2** alloy-u90nb7zr3  
**NT2** alloy-v87cr9fe3  
**NT2** zirconium additions  
**NT3** alloy-in-102  
**NT3** alloy-mo99  
**NT4** alloy-tzm  
**NT4** alloy-zm-2a  
**NT3** alloy-mo99b  
**NT3** alloy-n-10m  
**NT3** alloy-n-9m  
**NT3** alloy-ni43fe33cr16mo3  
**NT4** nimonic pe16  
**NT3** alloy-ni46cr23co19ti5al4  
**NT4** alloy-in-939  
**NT3** alloy-ni55co17cr15mo5al4ti4  
**NT4** astroloy  
**NT3** alloy-ni58cr20co14mo4ti3  
**NT4** waspaloy  
**NT3** alloy-ni59cr20co17ti2  
**NT3** alloy-ni60co15cr10al6ti5mo3  
**NT4** alloy-in-100  
**NT3** alloy-ni61cr16co9al3ti3w3  
**NT4** alloy-in-738  
**NT3** alloy-ni74cr13al6mo4  
**NT4** inconel 713c  
**NT3** alloy-ni75cr12al6mo5

NT4 inconel 713lc  
 NT3 alloy-ni76cr20ti2  
 NT4 nimonic 80a  
 NT3 magnesium alloy-ek  
 NT3 magnesium alloy-ez  
 NT3 magnesium alloy-hk31a  
 NT3 rene 80  
 NT3 rene 95  
 NT2 zirconium base alloys  
 NT3 alloy-zr97nb3  
 NT3 zircaloy  
 NT4 alloy-zr98sn-2  
 NT5 zircaloy 2  
 NT4 alloy-zr98sn-4  
 NT5 zircaloy 4

### TRANSITION ELEMENT COMPLEXES

BT1 complexes  
 NT1 chromium complexes  
 NT1 cobalt complexes  
 NT1 copper complexes  
 NT2 ceruloplasmin  
 NT1 gold complexes  
 NT1 hafnium complexes  
 NT1 iridium complexes  
 NT1 iron complexes  
 NT2 ferricyanides  
 NT2 ferritin  
 NT2 ferrocene  
 NT2 ferrocyanides  
 NT1 manganese complexes  
 NT1 molybdenum complexes  
 NT1 nickel complexes  
 NT1 niobium complexes  
 NT1 osmium complexes  
 NT1 palladium complexes  
 NT1 platinum complexes  
 NT1 rhenium complexes  
 NT1 rhodium complexes  
 NT1 ruthenium complexes  
 NT1 scandium complexes  
 NT1 silver complexes  
 NT1 tantalum complexes  
 NT1 technetium complexes  
 NT1 titanium complexes  
 NT1 tungsten complexes  
 NT1 vanadium complexes  
 NT1 yttrium complexes  
 NT1 zirconium complexes

### TRANSITION ELEMENT COMPOUNDS

UF *group iva metal compounds*  
 UF *group va metal compounds*  
 UF *group via metal compounds*  
 NT1 chromium compounds  
 NT2 chromates  
 NT2 chromic acid  
 NT2 chromites  
 NT2 chromium borides  
 NT2 chromium bromides  
 NT2 chromium carbides  
 NT2 chromium chlorides  
 NT2 chromium fluorides  
 NT2 chromium hydrides  
 NT2 chromium hydroxides  
 NT2 chromium iodides  
 NT2 chromium nitrates  
 NT2 chromium nitrides  
 NT2 chromium oxides  
 NT2 chromium perchlorates  
 NT2 chromium phosphates  
 NT2 chromium selenides  
 NT2 chromium silicates  
 NT2 chromium silicides  
 NT2 chromium sulfates  
 NT2 chromium sulfides  
 NT2 chromium tellurides

NT2 dichromates  
 NT1 cobalt compounds  
 NT2 cobalt arsenides  
 NT2 cobalt borides  
 NT2 cobalt bromides  
 NT2 cobalt carbides  
 NT2 cobalt carbonates  
 NT2 cobalt chlorides  
 NT2 cobalt fluorides  
 NT2 cobalt hydrides  
 NT2 cobalt hydroxides  
 NT2 cobalt iodides  
 NT2 cobalt nitrates  
 NT2 cobalt oxides  
 NT2 cobalt perchlorates  
 NT2 cobalt phosphates  
 NT2 cobalt phosphides  
 NT2 cobalt selenides  
 NT2 cobalt silicates  
 NT2 cobalt silicides  
 NT2 cobalt sulfates  
 NT2 cobalt sulfides  
 NT2 cobalt tellurides  
 NT2 cobalt tungstates  
 NT1 copper compounds  
 NT2 copper arsenides  
 NT2 copper borides  
 NT2 copper carbides  
 NT2 copper carbonates  
 NT2 copper halides  
 NT3 copper bromides  
 NT3 copper chlorides  
 NT3 copper fluorides  
 NT3 copper iodides  
 NT2 copper hydrides  
 NT2 copper hydroxides  
 NT2 copper nitrates  
 NT2 copper nitrides  
 NT2 copper oxides  
 NT2 copper perchlorates  
 NT2 copper phosphates  
 NT2 copper phosphides  
 NT2 copper selenides  
 NT2 copper silicates  
 NT2 copper silicides  
 NT2 copper sulfates  
 NT2 copper sulfides  
 NT2 copper tellurides  
 NT2 copper tungstates  
 NT2 cuprates  
 NT1 gold compounds  
 NT2 gold bromides  
 NT2 gold chlorides  
 NT2 gold fluorides  
 NT2 gold hydrides  
 NT2 gold iodides  
 NT2 gold oxides  
 NT2 gold silicides  
 NT2 gold tellurides  
 NT1 hafnium compounds  
 NT2 hafnates  
 NT2 hafnium arsenides  
 NT2 hafnium borides  
 NT2 hafnium bromides  
 NT2 hafnium carbides  
 NT2 hafnium chlorides  
 NT2 hafnium fluorides  
 NT2 hafnium hydrides  
 NT2 hafnium hydroxides  
 NT2 hafnium iodides  
 NT2 hafnium nitrates  
 NT2 hafnium nitrides  
 NT2 hafnium oxides  
 NT2 hafnium perchlorates  
 NT2 hafnium phosphates  
 NT2 hafnium phosphides  
 NT2 hafnium selenides  
 NT2 hafnium silicates  
 NT2 hafnium silicides

NT2 hafnium sulfates  
 NT2 hafnium sulfides  
 NT2 hafnium tellurides  
 NT1 iridium compounds  
 NT2 iridium borides  
 NT2 iridium carbides  
 NT2 iridium chlorides  
 NT2 iridium fluorides  
 NT2 iridium hydrides  
 NT2 iridium oxides  
 NT2 iridium silicides  
 NT2 iridium sulfates  
 NT2 iridium tellurides  
 NT1 iron compounds  
 NT2 ferrates  
 NT2 ferrites  
 NT2 iron arsenides  
 NT2 iron borides  
 NT2 iron bromides  
 NT2 iron carbides  
 NT3 cementite  
 NT3 ni-hard  
 NT2 iron carbonates  
 NT2 iron chlorides  
 NT2 iron fluorides  
 NT2 iron hydrides  
 NT2 iron hydroxides  
 NT2 iron iodides  
 NT2 iron nitrates  
 NT2 iron nitrides  
 NT2 iron oxides  
 NT2 iron perchlorates  
 NT2 iron phosphates  
 NT2 iron phosphides  
 NT2 iron selenides  
 NT2 iron silicates  
 NT2 iron silicides  
 NT2 iron sulfates  
 NT2 iron sulfides  
 NT2 iron tellurides  
 NT2 iron tungstates  
 NT1 manganese compounds  
 NT2 manganates  
 NT2 manganese arsenides  
 NT2 manganese borides  
 NT2 manganese carbides  
 NT2 manganese carbonates  
 NT2 manganese halides  
 NT3 manganese bromides  
 NT3 manganese chlorides  
 NT3 manganese fluorides  
 NT3 manganese iodides  
 NT2 manganese hydrides  
 NT2 manganese hydroxides  
 NT2 manganese nitrates  
 NT2 manganese nitrides  
 NT2 manganese oxides  
 NT2 manganese phosphates  
 NT2 manganese phosphides  
 NT2 manganese selenides  
 NT2 manganese silicates  
 NT2 manganese silicides  
 NT2 manganese sulfates  
 NT2 manganese sulfides  
 NT2 manganese tellurides  
 NT2 manganese tungstates  
 NT2 permanganates  
 NT1 molybdenum compounds  
 NT2 molybdates  
 NT2 molybdenum arsenides  
 NT2 molybdenum borides  
 NT2 molybdenum bromides  
 NT2 molybdenum carbides  
 NT2 molybdenum carbonates  
 NT2 molybdenum chlorides  
 NT2 molybdenum fluorides  
 NT2 molybdenum hydrides  
 NT2 molybdenum hydroxides  
 NT2 molybdenum iodides

NT2	molybdenum nitrides	NT2	palladium selenides	NT2	scandium iodides
NT2	molybdenum oxides	NT2	palladium silicides	NT2	scandium nitrates
NT3	molybdenum blue	NT2	palladium sulfides	NT2	scandium nitrides
NT2	molybdenum phosphates	NT2	palladium tellurides	NT2	scandium oxides
NT2	molybdenum phosphides	NT1	platinum compounds	NT2	scandium perchlorates
NT2	molybdenum selenides	NT2	platinum arsenides	NT2	scandium phosphates
NT2	molybdenum silicates	NT2	platinum bromides	NT2	scandium phosphides
NT2	molybdenum silicides	NT2	platinum carbides	NT2	scandium silicates
NT2	molybdenum sulfates	NT2	platinum chlorides	NT2	scandium silicides
NT2	molybdenum sulfides	NT2	platinum fluorides	NT2	scandium sulfates
NT2	molybdenum tellurides	NT2	platinum hydrides	NT2	scandium sulfides
NT2	molybdic acid	NT2	platinum hydroxides	NT2	scandium tungstates
NT2	molybdophosphates	NT2	platinum iodides	NT1	silver compounds
NT2	molybdophosphoric acid	NT2	platinum oxides	NT2	silver arsenides
NT1	nickel compounds	NT2	platinum phosphides	NT2	silver bromides
NT2	nickel arsenides	NT2	platinum phosphides	NT2	silver chlorides
NT2	nickel borides	NT2	platinum silicides	NT2	silver fluorides
NT2	nickel bromides	NT2	platinum sulfates	NT2	silver hydrides
NT2	nickel carbides	NT2	platinum sulfides	NT2	silver hydroxides
NT2	nickel carbonates	NT2	platinum tellurides	NT2	silver iodides
NT2	nickel chlorides	NT1	rhenium compounds	NT2	silver nitrates
NT2	nickel fluorides	NT2	perhenates	NT2	silver nitrides
NT2	nickel hydrides	NT2	rhenates	NT2	silver oxides
NT2	nickel hydroxides	NT2	rhenium borides	NT2	silver perchlorates
NT2	nickel iodides	NT2	rhenium carbides	NT2	silver phosphates
NT2	nickel nitrates	NT2	rhenium carbonates	NT2	silver selenides
NT2	nickel nitrides	NT2	rhenium halides	NT2	silver sulfates
NT2	nickel oxides	NT3	rhenium bromides	NT2	silver sulfides
NT2	nickel phosphates	NT3	rhenium chlorides	NT2	silver sulfides
NT2	nickel phosphides	NT3	rhenium fluorides	NT2	silver tellurides
NT2	nickel selenides	NT3	rhenium iodides	NT2	silver tungstates
NT2	nickel silicates	NT2	rhenium hydrides	NT1	tantalum compounds
NT2	nickel silicides	NT2	rhenium nitrides	NT2	tantalates
NT2	nickel sulfates	NT2	rhenium oxides	NT2	tantalum borides
NT2	nickel sulfides	NT2	rhenium selenides	NT2	tantalum bromides
NT2	nickel tellurides	NT2	rhenium silicides	NT2	tantalum carbides
NT2	nickel tungstates	NT2	rhenium sulfates	NT2	tantalum chlorides
NT2	nickelates	NT2	rhenium sulfides	NT2	tantalum fluorides
NT1	niobium compounds	NT2	rhenium tellurides	NT2	tantalum hydrides
NT2	niobates	NT1	rhodium compounds	NT2	tantalum hydroxides
NT2	niobium arsenides	NT2	rhodium borides	NT2	tantalum iodides
NT2	niobium borides	NT2	rhodium bromides	NT2	tantalum nitrides
NT2	niobium bromides	NT2	rhodium carbides	NT2	tantalum oxides
NT2	niobium carbides	NT2	rhodium chlorides	NT2	tantalum phosphates
NT2	niobium chlorides	NT2	rhodium fluorides	NT2	tantalum phosphides
NT2	niobium fluorides	NT2	rhodium hydrides	NT2	tantalum selenides
NT2	niobium hydrides	NT2	rhodium oxides	NT2	tantalum silicates
NT2	niobium hydroxides	NT2	rhodium phosphides	NT2	tantalum silicides
NT2	niobium iodides	NT2	rhodium selenides	NT2	tantalum sulfates
NT2	niobium nitrates	NT2	rhodium silicides	NT2	tantalum sulfides
NT2	niobium nitrides	NT2	rhodium sulfides	NT2	tantalum tellurides
NT2	niobium oxides	NT2	rhodium tellurides	NT2	tantalum tungstates
NT2	niobium phosphates	NT1	ruthenium compounds	NT1	technetium compounds
NT2	niobium phosphides	NT2	ruthenium arsenides	NT2	pertechnates
NT2	niobium selenides	NT2	ruthenium borides	NT2	technetates
NT2	niobium silicates	NT2	ruthenium bromides	NT2	technetium bromides
NT2	niobium silicides	NT2	ruthenium carbides	NT2	technetium carbides
NT2	niobium sulfates	NT2	ruthenium chlorides	NT2	technetium chlorides
NT2	niobium sulfides	NT2	ruthenium fluorides	NT2	technetium fluorides
NT2	niobium tellurides	NT2	ruthenium hydrides	NT2	technetium hydrides
NT1	osmium compounds	NT2	ruthenium hydroxides	NT2	technetium iodides
NT2	osmium borides	NT2	ruthenium nitrates	NT2	technetium oxides
NT2	osmium carbides	NT2	ruthenium nitrides	NT2	technetium phosphates
NT2	osmium chlorides	NT2	ruthenium nitrosyls	NT2	technetium selenides
NT2	osmium fluorides	NT2	ruthenium oxides	NT2	technetium sulfides
NT2	osmium oxides	NT2	ruthenium phosphides	NT1	titanium compounds
NT2	osmium phosphides	NT2	ruthenium selenides	NT2	titanates
NT2	osmium sulfides	NT2	ruthenium silicides	NT3	cadmium titanates
NT1	palladium compounds	NT2	ruthenium sulfates	NT3	lithium titanates
NT2	palladium arsenides	NT2	ruthenium sulfides	NT3	plzt
NT2	palladium borides	NT2	ruthenium tellurides	NT3	pzt
NT2	palladium bromides	NT1	scandium compounds	NT3	strontium titanates
NT2	palladium carbides	NT2	scandium borides	NT2	titanium borides
NT2	palladium chlorides	NT2	scandium bromides	NT2	titanium bromides
NT2	palladium fluorides	NT2	scandium carbides	NT2	titanium carbides
NT2	palladium hydrides	NT2	scandium carbonates	NT2	titanium chlorides
NT2	palladium iodides	NT2	scandium chlorides	NT2	titanium fluorides
NT2	palladium oxides	NT2	scandium fluorides	NT2	titanium hydrides
NT2	palladium phosphides	NT2	scandium hydrides	NT2	titanium hydroxides
		NT2	scandium hydroxides	NT2	titanium iodides

NT2 titanium nitrates  
 NT2 titanium nitrides  
 NT2 titanium oxides  
 NT2 titanium phosphates  
 NT2 titanium phosphides  
 NT2 titanium selenides  
 NT2 titanium silicates  
 NT2 titanium silicides  
 NT2 titanium sulfates  
 NT2 titanium sulfides  
 NT2 titanium tellurides  
 NT2 titanium tungstates  
 NT1 tungsten compounds  
 NT2 tungstates  
   NT3 aluminium tungstates  
   NT3 ammonium tungstates  
   NT3 barium tungstates  
   NT3 bismuth tungstates  
   NT3 cadmium tungstates  
   NT3 calcium tungstates  
   NT3 cerium tungstates  
   NT3 cesium tungstates  
   NT3 cobalt tungstates  
   NT3 copper tungstates  
   NT3 dysprosium tungstates  
   NT3 erbium tungstates  
   NT3 gadolinium tungstates  
   NT3 indium tungstates  
   NT3 iron tungstates  
   NT3 lanthanum tungstates  
   NT3 lead tungstates  
   NT3 lithium tungstates  
   NT3 lutetium tungstates  
   NT3 manganese tungstates  
   NT3 neodymium tungstates  
   NT3 nickel tungstates  
   NT3 potassium tungstates  
   NT3 praseodymium tungstates  
   NT3 rubidium tungstates  
   NT3 samarium tungstates  
   NT3 scandium tungstates  
   NT3 silver tungstates  
   NT3 sodium tungstates  
   NT3 strontium tungstates  
   NT3 tantalum tungstates  
   NT3 thallium tungstates  
   NT3 tin tungstates  
   NT3 titanium tungstates  
   NT3 ytterbium tungstates  
   NT3 yttrium tungstates  
   NT3 zinc tungstates  
   NT3 zirconium tungstates  
 NT2 tungsten borides  
 NT2 tungsten bromides  
 NT2 tungsten carbides  
 NT2 tungsten chlorides  
 NT2 tungsten fluorides  
 NT2 tungsten hydrides  
 NT2 tungsten hydroxides  
 NT2 tungsten iodides  
 NT2 tungsten nitrides  
 NT2 tungsten oxides  
   NT3 sodium tungsten bronze  
 NT2 tungsten phosphides  
 NT2 tungsten selenides  
 NT2 tungsten silicides  
 NT2 tungsten sulfides  
 NT2 tungsten tellurides  
 NT2 tungstophosphates  
 NT2 tungstophosphoric acid  
 NT1 vanadium compounds  
 NT2 vanadates  
   NT3 potassium vanadates  
   NT3 uranium vanadates  
 NT2 vanadium borides  
 NT2 vanadium bromides  
 NT2 vanadium carbides  
 NT2 vanadium chlorides  
 NT2 vanadium fluorides

NT2 vanadium hydrides  
 NT2 vanadium hydroxides  
 NT2 vanadium iodides  
 NT2 vanadium nitrates  
 NT2 vanadium nitrides  
 NT2 vanadium oxides  
 NT2 vanadium phosphates  
 NT2 vanadium phosphides  
 NT2 vanadium selenides  
 NT2 vanadium silicates  
 NT2 vanadium silicides  
 NT2 vanadium sulfates  
 NT2 vanadium sulfides  
 NT2 vanadium tellurides  
 NT1 yttrium compounds  
 NT2 yttrium borides  
 NT2 yttrium bromides  
 NT2 yttrium carbides  
 NT2 yttrium carbonates  
 NT2 yttrium chlorides  
 NT2 yttrium fluorides  
 NT2 yttrium hydrides  
 NT2 yttrium hydroxides  
 NT2 yttrium iodides  
 NT2 yttrium nitrates  
 NT2 yttrium nitrides  
 NT2 yttrium oxides  
   NT3 alloy-in-853  
 NT2 yttrium perchlorates  
 NT2 yttrium phosphates  
 NT2 yttrium phosphides  
 NT2 yttrium selenides  
 NT2 yttrium silicates  
 NT2 yttrium silicides  
 NT2 yttrium sulfates  
 NT2 yttrium sulfides  
 NT2 yttrium tellurides  
 NT2 yttrium tungstates  
 NT1 zirconium compounds  
 NT2 zirconates  
   NT3 plzt  
   NT3 pzt  
 NT2 zirconium borides  
 NT2 zirconium bromides  
 NT2 zirconium carbides  
 NT2 zirconium carbonates  
 NT2 zirconium chlorides  
 NT2 zirconium fluorides  
 NT2 zirconium hydrides  
 NT2 zirconium hydroxides  
 NT2 zirconium iodides  
 NT2 zirconium nitrates  
 NT2 zirconium nitrides  
 NT2 zirconium oxides  
 NT2 zirconium perchlorates  
 NT2 zirconium phosphates  
 NT2 zirconium phosphides  
 NT2 zirconium selenides  
 NT2 zirconium silicates  
 NT2 zirconium silicides  
 NT2 zirconium sulfates  
 NT2 zirconium sulfides  
 NT2 zirconium tellurides  
 NT2 zirconium tungstates

#### TRANSITION ELEMENTS

*UF transition metals*  
 \*BT1 metals  
 NT1 chromium  
 NT1 cobalt  
 NT1 copper  
 NT1 gold  
 NT1 hafnium  
   NT2 hafnium-alpha  
   NT2 hafnium-beta  
 NT1 iron  
   NT2 iron-alpha  
   NT2 iron-delta  
   NT2 iron-gamma

NT1 manganese  
   NT2 manganese-alpha  
 NT1 molybdenum  
 NT1 nickel  
 NT1 niobium  
   NT2 niobium-alpha  
   NT2 niobium-beta  
 NT1 platinum metals  
   NT2 iridium  
   NT2 osmium  
   NT2 palladium  
   NT2 platinum  
   NT2 rhodium  
   NT2 ruthenium  
 NT1 rhenium  
 NT1 scandium  
 NT1 silver  
 NT1 tantalum  
 NT1 technetium  
 NT1 titanium  
   NT2 titanium-alpha  
   NT2 titanium-beta  
 NT1 tungsten  
   NT2 tungsten-alpha  
 NT1 vanadium  
 NT1 yttrium  
 NT1 zirconium  
   NT2 zirconium-alpha  
   NT2 zirconium-beta  
   NT2 zirconium-omega

#### TRANSITION FLOW

BT1 fluid flow

#### TRANSITION HEAT

*UF heat of transition*  
*UF latent heat of transition*  
 \*BT1 enthalpy  
 NT1 fusion heat  
 NT1 sublimation heat  
 NT1 vaporization heat  
*RT differential thermal analysis*  
*RT phase change materials*  
*RT phase transformations*

#### transition metals

USE transition elements

#### TRANSITION RADIATION

\*BT1 electromagnetic radiation

#### TRANSITION RADIATION DETECTORS

*For detection of transition radiation emitted by particles going from one medium to another.*

\*BT1 radiation detectors

#### TRANSITION TEMPERATURE

*UF temperature (transition)*  
 \*BT1 thermodynamic properties  
 NT1 boiling points  
 NT1 critical temperature  
 NT1 curie point  
 NT1 dew point  
 NT1 lambda point  
 NT1 melting points  
 NT1 neel temperature  
*RT ductile-brittle transitions*  
*RT phase transformations*

#### transitions (brittle-ductile)

1998-10-23

USE brittle-ductile transitions

#### transitions (ductile-brittle)

USE ductile-brittle transitions

#### transitions (energy level)

USE energy-level transitions

**transitions (forbidden)**

USE forbidden transitions

**transitions (phase)**

USE phase transformations

**translation (computer codes)**

INIS: 1990-12-07; ETDE: 2002-06-13

USE translators

**translation (macromolecules)**

INIS: 1990-12-07; ETDE: 2002-06-13

USE biosynthesis

**translation (mathematics)**

INIS: 1990-12-07; ETDE: 2002-06-13

USE transformations

**translation (mechanical)**

INIS: 1990-12-07; ETDE: 2002-06-13

USE mechanics

**TRANSLATORS**

Computer codes translating programs from one programming language into another.

UF translation (computer codes)

BT1 computer codes

RT programming

RT programming languages

**TRANSLOCATION**

See also RADIOACTIVITY TRANSPORT for the movement of and deposition of radioactive materials throughout a reactor.

RT ions

RT kinetics

RT minerals

RT organic compounds

RT plant sap

RT plants

RT radionuclide migration

RT stable isotopes

**TRANSMISSION**

Of particles and radiation through matter; see also DATA TRANSMISSION, MECHANICAL TRANSMISSIONS, or POWER TRANSMISSION.

NT1 light transmission

RT absorption

RT attenuation

RT opacity

**transmission (data)**

USE data transmission

**transmission (energy)**

INIS: 2000-04-12; ETDE: 1976-05-17

SEE power transmission

**transmission (heat)**

USE heat transfer

**TRANSMISSION ELECTRON MICROSCOPY**

INIS: 1982-12-07; ETDE: 1979-01-30

UF tem (microscopy)

\*BT1 electron microscopy

**transmission lines**

INIS: 2000-04-12; ETDE: 1979-03-27

USE power transmission lines

**transmission towers**

INIS: 2000-04-12; ETDE: 1976-08-05

USE power transmission towers

**TRANSMUTATION**

2000-03-14

Of nuclides.

UF nuclear transmutation

NT1 accelerator driven transmutation

RT breeding

RT isotope production

**TRANSONIC FLOW**

BT1 fluid flow

RT aerodynamics

RT compressible flow

RT shock waves

RT supersonic flow

**transparency**

USE opacity

**TRANSPIRATION**

Plants only.

RT evaporation

RT heat stress

RT leaves

RT physiology

RT plant sap

RT plants

RT stomata

RT water vapor

**transpiration (animal)**

USE sweat

**TRANSPLANTS**

NT1 grafts

RT chimeras

RT graft-host reaction

RT host

RT immunity

RT immunosuppression

RT plastic surgery

RT transfusions

**transplutonides**

INIS: 1975-11-11; ETDE: 2002-06-13

USE transplutonium elements

**TRANSPLUTONIUM COMPOUNDS**

1980-05-14

BT1 transuranium compounds

NT1 americium compounds

NT2 americium carbonates

NT2 americium chlorides

NT2 americium fluorides

NT2 americium hydrides

NT2 americium hydroxides

NT2 americium nitrates

NT2 americium nitrides

NT2 americium oxides

NT2 americium perchlorates

NT2 americium phosphates

NT1 berkelium compounds

NT2 berkelium chlorides

NT2 berkelium fluorides

NT2 berkelium nitrates

NT2 berkelium oxides

NT1 californium compounds

NT2 californium bromides

NT2 californium chlorides

NT2 californium fluorides

NT2 californium oxides

NT1 curium compounds

NT2 curium chlorides

NT2 curium fluorides

NT2 curium iodides

NT2 curium nitrates

NT2 curium oxides

NT1 einsteinium compounds

NT2 einsteinium bromides

NT2 einsteinium chlorides

NT2 einsteinium nitrates

NT2 einsteinium oxides

NT1 fermium compounds

NT2 fermium bromides

NT1 lawrencium compounds

NT1 mendelevium compounds

NT1 nobelium compounds

NT1 transactinide compounds

NT2 bohrium compounds

NT2 darmstadtium compounds

NT2 dubnium compounds

NT2 element 112 compounds

NT2 element 113 compounds

NT2 element 114 compounds

NT2 hassium compounds

NT2 roentgenium compounds

NT2 rutherfordium compounds

NT3 rutherfordium chlorides

NT2 seaborgium compounds

**TRANSPLUTONIUM ELEMENTS**

UF transplutonides

\*BT1 transuranium elements

NT1 americium

NT1 berkelium

NT1 californium

NT1 curium

NT1 einsteinium

NT1 fermium

NT1 lawrencium

NT1 mendelevium

NT1 nobelium

NT1 transactinide elements

NT2 bohrium

NT2 darmstadtium

NT2 dubnium

NT2 element 112

NT2 element 113

NT2 element 114

NT2 element 115

NT2 element 116

NT2 element 117

NT2 element 118

NT2 element 119

NT2 element 120

NT2 element 126

NT2 element 128

NT2 element 134

NT2 element 145

NT2 element 164

NT2 element 173

NT2 hassium

NT2 meitnerium

NT2 roentgenium

NT2 rutherfordium

NT2 seaborgium

RT actinides

**TRANSPORT**

Limited to the movement of goods and persons. For other types of transport, see descriptors such as ENVIRONMENTAL TRANSPORT, RADIATION TRANSPORT, RADIONUCLIDE MIGRATION, and RADIONUCLIDE KINETICS.

UF shipment

UF space transport

SF public transport

SF travel

NT1 air transport

NT2 supersonic transport

NT1 hydraulic transport

NT1 land transport

NT2 rail transport

NT2 road transport

NT1 maritime transport

NT1 pneumatic transport

RT arctic gas pipelines

RT barges

RT cargo

RT chain conveyors

RT containers

RT conveyors

RT deep water oil terminals

RT delivery

RT inland waterways

RT lightering

RT mass transit systems  
 RT materials handling  
 RT materials handling equipment  
 RT mine cars  
 RT navigation  
 RT nuclear trade  
 RT packaging  
 RT packaging rules  
 RT pipelines  
 RT propulsion  
 RT rapid transit systems  
 RT roads  
 RT storage  
 RT tourism  
 RT transport regulations  
 RT transportation sector  
 RT transportation systems  
 RT vehicles  
 RT waste transportation

**transport (atoms)**

1999-03-17

USE atom transport

**transport (beam)**

INIS: 1987-11-02; ETDE: 2002-06-13

USE beam transport

**transport (charged-particle)**

USE charged-particle transport

**transport (energy)**

INIS: 2000-04-12; ETDE: 1976-05-17

SEE natural gas distribution systems  
 SEE pipelines  
 SEE power transmission

**transport (environmental radionuclides)**

INIS: 1993-11-10; ETDE: 2002-06-13

USE radionuclide migration

**transport (environmental)**

INIS: 2000-04-12; ETDE: 1985-03-12

SEE environmental transport

**transport (gamma)**

USE photon transport

**transport (in organisms)**

2000-04-12

USE radionuclide kinetics

**transport (neutral-particle)**

INIS: 1975-09-09; ETDE: 2002-06-13

USE neutral-particle transport

**transport (neutron)**

USE neutron transport

**transport (photon)**

USE photon transport

**transport (proton)**

USE proton transport

**transport (radiation)**

USE radiation transport

**transport (radionuclides in biological systems)**

INIS: 1993-11-10; ETDE: 2002-06-13

USE radionuclide kinetics

**transport (radionuclides in organisms)**

INIS: 1993-11-10; ETDE: 2002-06-13

USE radionuclide kinetics

**transport (reaction product)**

USE reaction product transport systems

**transport insurance**

USE insurance

**TRANSPORT REGULATIONS**

\*BT1 regulations  
 RT maritime laws  
 RT nuclear ship visits  
 RT transport

**TRANSPORT THEORY**

1996-07-23

SF *slaggie model*  
 NT1 charged-particle transport theory  
 NT2 neoclassical transport theory  
 NT2 spitzer theory  
 NT1 gamma transport theory  
 NT1 nelkin theory  
 NT1 neutron transport theory  
 NT2 multigroup theory  
 NT2 one-group theory  
 RT atom transport  
 RT boltzmann equation  
 RT boltzmann-vaslov equation  
 RT case method  
 RT chapman-enskog theory  
 RT chapman-ferraro problem  
 RT discrete ordinate method  
 RT feynman method  
 RT fokker-planck equation  
 RT grad-shafranov equation  
 RT invariant imbedding  
 RT moments method  
 RT monte carlo method  
 RT poincare-bertrand formula  
 RT radiation transport  
 RT scattering  
 RT van hove theory  
 RT wick-chandrasekhar method  
 RT young model  
 RT yvon method

**TRANSPORTABLE REACTORS**

*Capable of being moved when not critical and possibly partly dismantled.*

BT1 reactors  
 NT1 package reactors  
 NT1 tibr reactor

**transportation routes**

INIS: 2000-04-12; ETDE: 1983-09-15

USE routing

**TRANSPORTATION SECTOR**

INIS: 1998-11-12; ETDE: 1977-07-23

SF *end use sector*  
 RT sectoral analysis  
 RT taxicabs  
 RT transport  
 RT transportation systems

**TRANSPORTATION SYSTEMS**

1992-09-09

NT1 mass transit systems  
 NT1 private vehicles  
 NT1 rapid transit systems  
 RT airports  
 RT buses  
 RT carpooling  
 RT taxicabs  
 RT trains  
 RT transport  
 RT transportation sector  
 RT vanpooling

**TRANSPOSONS**

INIS: 1991-07-02; ETDE: 1987-12-17

*Portions of DNA carrying repeated terminal sequences which confer to the segment the capability of jumping around within the genome.*

RT dna-cloning

RT genes  
 RT genetic engineering  
 RT genetic variability  
 RT plasmids

**TRANSURANIUM COMPLEXES**

1996-07-18

UF *lawrencium complexes*  
 BT1 complexes  
 NT1 americium complexes  
 NT1 berkelium complexes  
 NT1 californium complexes  
 NT1 curium complexes  
 NT1 einsteinium complexes  
 NT1 fermium complexes  
 NT1 mendelevium complexes  
 NT1 neptunium complexes  
 NT2 neptunyl complexes  
 NT1 nobelium complexes  
 NT1 plutonium complexes  
 NT2 plutonyl complexes

**TRANSURANIUM COMPOUNDS**

NT1 neptunium compounds  
 NT2 neptunium arsenides  
 NT2 neptunium bromides  
 NT2 neptunium carbides  
 NT2 neptunium carbonates  
 NT2 neptunium chlorides  
 NT2 neptunium fluorides  
 NT2 neptunium hydrides  
 NT2 neptunium hydroxides  
 NT2 neptunium iodides  
 NT2 neptunium nitrates  
 NT2 neptunium nitrides  
 NT2 neptunium oxides  
 NT2 neptunium perchlorates  
 NT2 neptunium phosphides  
 NT2 neptunium selenides  
 NT2 neptunium sulfates  
 NT2 neptunium sulfides  
 NT2 neptunium tellurides  
 NT2 neptunyl compounds  
 NT1 plutonium compounds  
 NT2 plutonium arsenides  
 NT2 plutonium borides  
 NT2 plutonium carbides  
 NT2 plutonium carbonates  
 NT2 plutonium chlorides  
 NT2 plutonium fluorides  
 NT2 plutonium hydrides  
 NT2 plutonium hydroxides  
 NT2 plutonium iodides  
 NT2 plutonium nitrates  
 NT2 plutonium nitrides  
 NT2 plutonium oxides  
 NT3 plutonium dioxide  
 NT2 plutonium phosphates  
 NT2 plutonium phosphides  
 NT2 plutonium selenides  
 NT2 plutonium sulfates  
 NT2 plutonium sulfides  
 NT2 plutonium tellurides  
 NT2 plutonyl compounds  
 NT1 transplutonium compounds  
 NT2 americium compounds  
 NT3 americium carbonates  
 NT3 americium chlorides  
 NT3 americium fluorides  
 NT3 americium hydrides  
 NT3 americium hydroxides  
 NT3 americium nitrates  
 NT3 americium nitrides  
 NT3 americium oxides  
 NT3 americium perchlorates  
 NT3 americium phosphates  
 NT2 berkelium compounds  
 NT3 berkelium chlorides  
 NT3 berkelium fluorides  
 NT3 berkelium nitrates

**NT3** berkelium oxides  
**NT2** californium compounds  
**NT3** californium bromides  
**NT3** californium chlorides  
**NT3** californium fluorides  
**NT3** californium oxides  
**NT2** curium compounds  
**NT3** curium chlorides  
**NT3** curium fluorides  
**NT3** curium iodides  
**NT3** curium nitrates  
**NT3** curium oxides  
**NT2** einsteinium compounds  
**NT3** einsteinium bromides  
**NT3** einsteinium chlorides  
**NT3** einsteinium nitrates  
**NT3** einsteinium oxides  
**NT2** fermium compounds  
**NT3** fermium bromides  
**NT2** lawrencium compounds  
**NT2** mendelevium compounds  
**NT2** nobelium compounds  
**NT2** transactinide compounds  
**NT3** bohrium compounds  
**NT3** darmstadtium compounds  
**NT3** dubnium compounds  
**NT3** element 112 compounds  
**NT3** element 113 compounds  
**NT3** element 114 compounds  
**NT3** hassium compounds  
**NT3** roentgenium compounds  
**NT3** rutherfordium compounds  
**NT4** rutherfordium chlorides  
**NT3** seaborgium compounds

**TRANSURANIUM ELEMENTS**

**BT1** elements  
**NT1** neptunium  
**NT2** neptunium-alpha  
**NT2** neptunium-gamma  
**NT1** plutonium  
**NT2** plutonium-alpha  
**NT2** plutonium-beta  
**NT2** plutonium-delta  
**NT2** plutonium-epsilon  
**NT2** plutonium-gamma  
**NT1** transplutonium elements  
**NT2** americium  
**NT2** berkelium  
**NT2** californium  
**NT2** curium  
**NT2** einsteinium  
**NT2** fermium  
**NT2** lawrencium  
**NT2** mendelevium  
**NT2** nobelium  
**NT2** transactinide elements  
**NT3** bohrium  
**NT3** darmstadtium  
**NT3** dubnium  
**NT3** element 112  
**NT3** element 113  
**NT3** element 114  
**NT3** element 115  
**NT3** element 116  
**NT3** element 117  
**NT3** element 118  
**NT3** element 119  
**NT3** element 120  
**NT3** element 126  
**NT3** element 128  
**NT3** element 134  
**NT3** element 145  
**NT3** element 164  
**NT3** element 173  
**NT3** hassium  
**NT3** meitnerium  
**NT3** roentgenium  
**NT3** rutherfordium

**NT3** seaborgium  
**RT** actinides  
**transuranium wastes**  
*INIS: 2000-04-12; ETDE: 1981-01-09*  
**USE** alpha-bearing wastes

**TRANSVAAL**

**\*BT1** south africa  
**RT** witwatersrand

**TRANSVERSE ENERGY**

*INIS: 1989-04-20; ETDE: 1989-01-26*  
*The kinetic energy of any particle, or group of particles, detected during a particle/target or beam/target interaction at a nonzero angle measured with respect to the initial particle or beam direction.*  
**\*BT1** kinetic energy  
**RT** angular distribution  
**RT** anisotropy  
**RT** energy spectra  
**RT** nuclear reactions  
**RT** particle interactions  
**RT** transverse momentum

**TRANSVERSE MOMENTUM**

**UF** momentum (transverse)  
**BT1** linear momentum  
**RT** center-of-mass system  
**RT** interactions  
**RT** longitudinal momentum  
**RT** nuclear reactions  
**RT** particle interactions  
**RT** straight-line path approximation  
**RT** transverse energy

**TRAPPED ELECTRONS**

**\*BT1** electrons  
**RT** electron precipitation

**TRAPPED-PARTICLE INSTABILITY**

**\*BT1** plasma macroinstabilities  
**RT** banana regime  
**RT** closed plasma devices

**TRAPPED PROTONS**

*INIS: 1977-04-07; ETDE: 1977-06-03*  
**\*BT1** protons  
**RT** aurorae  
**RT** proton precipitation

**TRAPPING**

*1996-07-23*  
*Includes trapping of electrons or holes in lattices and trapping of particles in fields.*  
**NT1** banana regime  
**RT** crystal lattices  
**RT** greenhouse effect  
**RT** holes  
**RT** magnetic fields  
**RT** plateau regime

**TRAPS**

*Equipment for trapping of electrons or holes in lattices and trapping of particles in fields; see also FILTERS.*  
**NT1** cold traps  
**NT1** steam traps  
**RT** deep level transient spectroscopy  
**RT** electrons  
**RT** holes  
**RT** luminescence  
**RT** photoconductivity  
**RT** photolysis  
**RT** semiconductor materials  
**RT** vacancies

**trauma**

**USE** injuries

**traumatic shock**

**USE** biological shock  
**USE** injuries

**TRAVALE GEOTHERMAL FIELD**

*INIS: 2000-04-12; ETDE: 1985-12-11*  
**BT1** geothermal fields  
**RT** italy  
**RT** vapor-dominated systems

**travel**

*INIS: 2000-04-12; ETDE: 1983-03-23*  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
**SEE** transport

**TRAVELLING IONOSPHERIC DISTURBANCE**

**UF** tid  
**\*BT1** ionospheric storms  
**RT** ionosphere

**TRAVELLING WAVE TUBES**

**\*BT1** microwave tubes  
**RT** rf systems

**TRAVELLING WAVES**

**UF** waves (travelling)  
**RT** electromagnetic radiation  
**RT** mechanical vibrations  
**RT** standing waves  
**RT** wave propagation  
**RT** waveguides

**TRAVERTINE**

*INIS: 2000-04-12; ETDE: 1976-01-23*  
*A calcium carbonate deposited from solution in ground and surface waters.*  
**\*BT1** limestone  
**RT** calcium carbonates

**TRAWSFYNYDD REACTOR**

*Merionethshire, Wales, United Kingdom.*  
**\*BT1** carbon dioxide cooled reactors  
**\*BT1** magnox type reactors  
**\*BT1** thermal reactors

**tree(thermionic reactor critical experiments)**

*2000-04-12*  
**USE** thermionic reactors  
**USE** zero power reactors

**TREAT REACTOR**

*ANL/INEEL, Idaho, USA.*  
**UF** transient reactor test facility  
**\*BT1** air cooled reactors  
**\*BT1** enriched uranium reactors  
**\*BT1** experimental reactors  
**\*BT1** graphite moderated reactors  
**\*BT1** solid homogeneous reactors  
**\*BT1** test reactors  
**\*BT1** thermal reactors

**TREATIES**

*1998-06-10*  
**NT1** bangkok treaty  
**NT1** ctb  
**NT1** non-proliferation treaty  
**NT1** pelindaba treaty  
**NT1** rarotonga treaty  
**NT1** tlatelolco treaty  
**RT** international agreements  
**RT** international laws  
**RT** negotiation  
**RT** salt talks  
**RT** verification

**treatment (therapy)**

**USE** therapy

**treaty for prohibition of nuclear weapons in latin america**

INIS: 1984-06-21; ETDE: 2002-06-13  
USE tlattelolco treaty

**TREE RINGS**

INIS: 1993-06-03; ETDE: 1976-06-07  
SF growth rings  
RT trees

**TREES**

1997-06-17  
(From June 1981 till March 1997  
COPAIFERA was a valid ETDE descriptor.)

UF betula  
UF copaiba  
UF copaiifera  
UF honeylocust trees  
UF mahogany trees  
BT1 plants  
NT1 beech trees  
NT1 birches  
NT1 cacao trees  
NT1 cedars  
NT1 chestnut trees  
NT1 coconut palms  
NT1 deciduous trees  
NT1 eucalyptuses  
NT1 firs  
NT1 fruit trees  
NT1 locust trees  
NT1 mangroves  
NT1 maples  
NT1 mesquite  
NT1 oaks  
NT1 oil palms  
NT1 olive trees  
NT1 pecan trees  
NT1 pines  
NT1 poplars  
NT2 aspens  
NT2 cottonwoods  
NT1 rubber trees  
NT2 guayule  
NT2 hevea  
NT1 spruces  
NT1 sweet gums  
NT1 sycamores  
NT1 willows  
RT bark  
RT canopies  
RT conifers  
RT forests  
RT preferred species  
RT short rotation cultivation  
RT silviculture  
RT tree rings  
RT wood  
RT wood fuels  
RT xylans

**TREMATODES**

UF flukes (trematodes)  
BT1 parasites  
\*BT1 platyhelminths  
NT1 fasciola  
NT1 schistosoma

**tretamine**

USE alkylating agents

**TRH**

UF thyrotropin-releasing hormone  
\*BT1 peptide hormones  
RT hypothalamus  
RT tsh

**tri-2-ethylhexyl phosphate**

INIS: 2000-04-12; ETDE: 1982-12-01  
USE phosphoric acid esters

**tri-gas process**

INIS: 2000-04-12; ETDE: 1977-04-12  
The Bituminous Coal Research, Inc. process using two-stage super-pressure entraining gasifier.  
(Prior to March 1994, this was a valid ETDE descriptor.)  
USE coal gasification

**tri-university meson facility**

INIS: 1993-11-10; ETDE: 1980-05-23  
USE triumph cyclotron

**TRIACETONEAMINE-N-OXYL**

UF tan (triacetoneamine-n-oxyl)  
UF tetramethyl-4-piperidone-n-oxyl  
\*BT1 ketones  
\*BT1 organic oxygen compounds  
\*BT1 piperidines  
\*BT1 radiosensitizers

**TRIAM-1 TOKAMAK**

1983-03-15  
\*BT1 tokamak devices

**TRIANGULAR CONFIGURATION**

BT1 configuration

**TRIASSIC PERIOD**

INIS: 1992-04-14; ETDE: 1977-10-19  
\*BT1 mesozoic era

**TRIAZINES**

Compounds that contain a six-membered heterocyclic ring containing three nitrogen atoms.  
\*BT1 azines  
NT1 cyanurates  
NT1 melamine

**TRIAZOLES**

Compounds that contain a five-membered heterocyclic ring containing three nitrogen atoms.  
\*BT1 azoles

**TRIBALLOY 400**

INIS: 2000-04-12; ETDE: 1979-08-07  
\*BT1 chromium alloys  
\*BT1 cobalt base alloys  
\*BT1 iron alloys  
\*BT1 molybdenum alloys

**triballoy 700**

INIS: 1997-01-28; ETDE: 1978-10-23  
(Until October 1996 this was a valid descriptor.)  
USE alloy-ni50mo32cr15si3

**TRIBALLOY 800**

INIS: 1993-10-03; ETDE: 1979-08-07  
\*BT1 chromium alloys  
\*BT1 cobalt base alloys  
\*BT1 corrosion resistant alloys  
\*BT1 heat resisting alloys  
\*BT1 iron alloys  
\*BT1 molybdenum alloys  
\*BT1 silicon alloys

**TRIBOLIUM**

\*BT1 beetles

**TRIBOLOGY**

INIS: 1992-02-26; ETDE: 1978-04-05  
Science dealing with physical, chemical, and metallurgical phenomena of interacting surfaces in relative motion.  
RT bearings  
RT friction  
RT lubricants  
RT lubricating oils  
RT lubrication

RT surface properties  
RT wear

**tributyl phosphate**

USE tbp

**TRIBUTYLPHOSPHINE OXIDE**

ETDE: 2005-02-01  
(Prior to January 2005 TBPO was used for this concept.)  
UF tbpo (tributylphosphine oxide)  
\*BT1 organic phosphorus compounds  
\*BT1 phosphine oxides

**tricarballic acid**

1996-10-23  
(Until October 1996 this was a valid descriptor.)  
USE carboxylic acids

**TRICASTIN-1 REACTOR**

INIS: 1985-10-22; ETDE: 1985-11-13  
Troischateaux, Drome, France.  
\*BT1 pwr type reactors

**TRICASTIN-4 REACTOR**

INIS: 1988-04-15; ETDE: 1988-05-23  
Troischateaux, Drome, France.  
\*BT1 pwr type reactors

**TRICHINELLA**

\*BT1 nematodes  
BT1 parasites  
RT meat  
RT trichinosis

**TRICHINOSIS**

\*BT1 parasitic diseases  
RT gastrointestinal tract  
RT inflammation  
RT muscles  
RT trichinella

**trichloroacetaldehyde**

USE chloral

**trichloromethane**

1982-02-09  
USE chloroform

**TRICHODERMA**

INIS: 1991-12-16; ETDE: 1978-03-03  
\*BT1 eumycota  
NT1 trichoderma viride

**trichoderma reesei**

INIS: 1991-12-16; ETDE: 1979-03-28  
USE trichoderma viride

**TRICHODERMA VIRIDE**

INIS: 1991-12-16; ETDE: 1977-11-29  
UF trichoderma reesei  
\*BT1 trichoderma

**TRICKLE-TYPE COLLECTORS**

INIS: 2000-04-12; ETDE: 1978-09-11  
UF open-flow collectors  
UF thomason collectors  
\*BT1 flat plate collectors

**TRICLINIC LATTICES**

\*BT1 crystal lattices

**TRICO REACTOR**

Kinshasa, Democratic Republic of the Congo.  
UF congo kinshasa triga reactor  
UF triga-congo reactor  
\*BT1 isotope production reactors  
\*BT1 thermal reactors  
\*BT1 training reactors  
\*BT1 triga type reactors

**tricresyl phosphates**

USE tcp



**TRIDENT FACILITY**

INIS: 1999-07-26; ETDE: 1999-09-03

Neodymium laser facility at LANL.

RT lanl  
RT laser fusion reactors  
RT neodymium lasers

**TRIDODECYLAMINE**

UF trilaurylamine  
\*BT1 amines  
BT1 chelating agents

**triethylenemelamine**

USE alkylating agents

**triethylenetetraaminehexaacetic acid**

1995-02-16

USE tetaha

**triethylenetetramine**

USE teta

**TRIGA-1-ARIZONA REACTOR**

INIS: 1988-11-16; ETDE: 1987-04-08

Univ. of Arizona, Tucson, Arizona, USA.

(Prior to December 1988 this material was indexed to TRIGA-1-ARIZONA.)

\*BT1 triga type reactors

**TRIGA-1-CALIFORNIA REACTOR**

ETDE: 1978-03-03

Univ. of California, Irvine, California, USA.

UF california irvine triga-mk-1 reactor  
UF irvine triga-mk-1 reactor  
UF irvine triga reactor  
UF ucirr reactor  
UF university of california irvine reactor  
\*BT1 isotope production reactors  
\*BT1 pulsed reactors  
\*BT1 thermal reactors  
\*BT1 triga type reactors

**TRIGA-1-HANFORD REACTOR**

INIS: 1979-09-18; ETDE: 1979-01-30

Westinghouse-Hanford-300, Richland, Washington, USA.

UF hanford neutron radiography facility  
\*BT1 materials testing reactors  
\*BT1 triga type reactors

**TRIGA-1-HANOVER REACTOR**

1991-07-02

UF frh reactor  
UF hannover triga-mk-1 reactor  
\*BT1 isotope production reactors  
\*BT1 thermal reactors  
\*BT1 triga type reactors

**TRIGA-1-HEIDELBERG REACTOR**

UF heidelberg triga-mk-1-dkfz reactor  
UF triga-mark-i-dkfz heidelberg reactor  
UF triga-mk-1-dkfz heidelberg reactor  
SF triga-2-heidelberg reactor  
\*BT1 thermal reactors  
\*BT1 triga type reactors

**TRIGA-1-MICHIGAN REACTOR**

INIS: 1976-02-11; ETDE: 1977-01-31

Michigan State Univ., East Lansing, Michigan, USA. Shut down in 1988; decommissioned.

(Prior to November 1990 this concept was indexed to MICHIGAN STATE TRIGA MK-1 REACTOR by ETDE.)

UF michigan state triga-mk-1 reactor  
\*BT1 isotope production reactors  
\*BT1 pulsed reactors  
\*BT1 research reactors  
\*BT1 tank type reactors  
\*BT1 test reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

\*BT1 triga type reactors

**TRIGA-2-BANDUNG REACTOR**

1995-01-10

UF indonesian triga-mk-2 reactor  
\*BT1 isotope production reactors  
\*BT1 thermal reactors  
\*BT1 triga type reactors

**TRIGA-2-BANGLADESH REACTOR**

INIS: 1999-09-24; ETDE: 1999-11-30

Atomic Energy Research Establishment, Dhaka, Bangladesh.

\*BT1 isotope production reactors  
\*BT1 pulsed reactors  
\*BT1 thermal reactors  
\*BT1 triga type reactors

**triga-2-cornell reactor**

INIS: 1984-06-25; ETDE: 2002-06-13

USE cornell triga-mk-2 reactor

**TRIGA-2-DALAT REACTOR**

Institute of Nuclear Research, Dalat, Viet-Nam.

UF dalat triga-mk-2 reactor  
UF vietnamese triga-mk-2 reactor  
UF vietnamese triga-mk-ii reactor  
\*BT1 isotope production reactors  
\*BT1 thermal reactors  
\*BT1 triga type reactors

**triga-2-heidelberg reactor**

INIS: 2000-04-12; ETDE: 1975-08-19

SEE triga-1-heidelberg reactor

**TRIGA-2-ILLINOIS REACTOR**

Univ. of Illinois, Urbana, Illinois, USA.

UF illinois university triga-mk-2 reactor  
UF university of illinois triga-mk-2 reactor  
UF university of illinois triga-mk-ii reactor  
\*BT1 isotope production reactors  
\*BT1 pulsed reactors  
\*BT1 thermal reactors  
\*BT1 triga type reactors

**TRIGA-2-KANSAS REACTOR**

Kansas State Univ., Manhattan, Kansas, USA.

UF kansas state university triga mk-2 reactor  
\*BT1 isotope production reactors  
\*BT1 pulsed reactors  
\*BT1 thermal reactors  
\*BT1 triga type reactors

**TRIGA-2-LJUBLJANA REACTOR**

1997-11-11

J. Stefan Institute, Ljubljana, Slovenia.

UF ljubljana triga-mk-2 reactor  
UF yugoslav triga-mk-2 reactor  
UF yugoslav triga-mk-ii reactor  
\*BT1 isotope production reactors  
\*BT1 thermal reactors  
\*BT1 triga type reactors

**TRIGA-2-MAINZ REACTOR**

Institut fuer Kernchemie, Univ. Mainz, Mainz, F.R. Germany.

UF german (mainz) triga-mk-2 reactor  
UF mainz triga-mk-2 reactor  
\*BT1 isotope production reactors  
\*BT1 pulsed reactors  
\*BT1 thermal reactors  
\*BT1 triga type reactors

**TRIGA-2-MUSASHI REACTOR**

Musashi Institute of Technology Univ., Kawasaki, Kanagawa, Japan.

UF musashi institute of technology triga reactor

\*BT1 isotope production reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA-2-PAVIA REACTOR**

Pavia, Italy.

UF lena triga-mk-2 pulsed reactor  
UF pavia triga-mk-2 reactor  
\*BT1 isotope production reactors  
\*BT1 pulsed reactors  
\*BT1 test reactors  
\*BT1 thermal reactors  
\*BT1 training reactors  
\*BT1 triga type reactors

**TRIGA-2-PITESTI REACTOR**

1999-09-24

Institute for Nuclear Power Research, Pitesti, Romania.

\*BT1 isotope production reactors  
\*BT1 pulsed reactors  
\*BT1 thermal reactors  
\*BT1 triga type reactors

**TRIGA-2 REACTOR**

UF triga-mark-ii reactor

UF triga-mk-2 reactor

\*BT1 isotope production reactors  
\*BT1 thermal reactors  
\*BT1 triga type reactors

**TRIGA-2-RIKKYO REACTOR**

Institute for Atomic Energy, Rikkyo Univ., Yokosuka, Kanagawa, Japan.

UF rikkyo university triga-mk-2 reactor  
UF rikkyo university triga-mk-ii reactor  
\*BT1 isotope production reactors  
\*BT1 thermal reactors  
\*BT1 triga type reactors

**TRIGA-2-ROME REACTOR**

UF italian triga-mark-ii reactor

UF italian triga-mk-2 reactor

UF rc-1 reactor

UF reattore casaccia-1

UF rome triga-mk-2 reactor

\*BT1 isotope production reactors  
\*BT1 thermal reactors  
\*BT1 triga type reactors

**TRIGA-2-SEOUL REACTOR**

KAERI, Cheong Ryang, Seoul, Republic of Korea.

UF korean triga-mk-2 reactor

UF seoul triga-mk-2 reactor

\*BT1 isotope production reactors  
\*BT1 thermal reactors  
\*BT1 triga type reactors

**TRIGA-2-VIENNA REACTOR**

Atominstute of the Austrian Universities/Austrian Fed. Min. of Science and Research, Vienna, Austria.

UF austrian triga-mark-ii reactor

UF austrian triga-mk-2 reactor

UF vienna triga-mk-2 reactor

\*BT1 isotope production reactors  
\*BT1 thermal reactors  
\*BT1 triga type reactors

**triga-3-gulf reactor**

INIS: 1984-06-25; ETDE: 2002-06-13

USE gulf triga-mk-3 reactor

**TRIGA-3-LA JOLLA REACTOR**

La Jolla, California, USA.

UF la jolla triga-mk-3 reactor

UF torrey pines triga-mark-3 reactor

UF torrey pines triga-mk-3 reactor

\*BT1 triga type reactors

**TRIGA-3-MUNICH REACTOR**

2000-04-12

- \*BT1 isotope production reactors
- \*BT1 pulsed reactors
- \*BT1 thermal reactors
- \*BT1 triga type reactors

**TRIGA-3-SALAZAR REACTOR**UF *mexican triga-mark-3 reactor*UF *mexican triga-mk-3 reactor*UF *salazar triga-mk-3 reactor*

- \*BT1 isotope production reactors
- \*BT1 thermal reactors
- \*BT1 triga type reactors

**TRIGA-3-SEOUL REACTOR**

1980-07-24

KAERI, Cheong Ryang, Seoul, Republic of Korea.

UF *korean triga-mk-3 reactor*UF *seoul triga-mk-3 reactor*

- \*BT1 isotope production reactors
- \*BT1 thermal reactors
- \*BT1 triga type reactors

**TRIGA-BRAZIL REACTOR**

Instituto de Pesquisas Radioativas Nuclebras, Cidade Universitaria-Pampulma, Minas Gerais, Brazil.

UF *brazil triga reactor*UF *ipr-1 reactor*UF *minas gerais university triga reactor*UF *university minas gerais triga reactor*

- \*BT1 isotope production reactors
- \*BT1 thermal reactors
- \*BT1 triga type reactors

**triga-congo reactor**

USE trico reactor

**triga-f-dasa reactor**

USE afri reactor

**triga-mark-i-dkfz heidelberg reactor**

2000-04-12

USE triga-1-heidelberg reactor

**triga-mark-ii reactor**

2000-04-12

USE triga-2 reactor

**triga-mk-1-dkfz heidelberg reactor**

INIS: 1993-11-10; ETDE: 2002-06-13

USE triga-1-heidelberg reactor

**triga-mk-2 reactor**

ETDE: 2002-06-13

See also specific reactors of this type, e.g. CORNELL TRIGA-MK-2 REACTOR.

USE triga-2 reactor

**triga-mk-3 reactor**

2000-04-12

SEE atpr reactor

SEE colorado triga-mk-3 reactor

**triga-mk-f prototype reactor**

2000-04-12

USE atpr reactor

**triga-pennsylvania reactor**

USE pstr reactor

**triga puspati reactor**

1984-12-04

USE rtp reactor

**TRIGA-TEXAS REACTOR**

Balcones Research Center, Univ. of Texas, near Austin, Texas, USA. Shut down in 1988.

UF *texas university triga reactor*UF *university of texas triga reactor*

\*BT1 isotope production reactors

\*BT1 pulsed reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGA TYPE REACTORS**

1995-01-10

\*BT1 enriched uranium reactors

\*BT1 hydride moderated reactors

\*BT1 research and test reactors

\*BT1 solid homogeneous reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

NT1 afri reactor

NT1 atpr reactor

NT1 colorado triga-mk-3 reactor

NT1 cornell triga-mk-2 reactor

NT1 dow triga-mk-1 reactor

NT1 fir-1 reactor

NT1 frf-2 reactor

NT1 frm reactor

NT1 gulf triga-mk-3 reactor

NT1 kartini-ppny reactor

NT1 lopra reactor

NT1 nscr reactor

NT1 ostr reactor

NT1 prpr reactor

NT1 pstr reactor

NT1 rtp reactor

NT1 trico reactor

NT1 triga-1-arizona reactor

NT1 triga-1-california reactor

NT1 triga-1-hanford reactor

NT1 triga-1-hanover reactor

NT1 triga-1-heidelberg reactor

NT1 triga-1-michigan reactor

NT1 triga-2-bandung reactor

NT1 triga-2-bangladesh reactor

NT1 triga-2-dalat reactor

NT1 triga-2-illinois reactor

NT1 triga-2-kansas reactor

NT1 triga-2-ljubljana reactor

NT1 triga-2-mainz reactor

NT1 triga-2-musashi reactor

NT1 triga-2-pavia reactor

NT1 triga-2-pitesti reactor

NT1 triga-2 reactor

NT1 triga-2-rikkyo reactor

NT1 triga-2-rome reactor

NT1 triga-2-seoul reactor

NT1 triga-2-vienna reactor

NT1 triga-3-la jolla reactor

NT1 triga-3-munich reactor

NT1 triga-3-salazar reactor

NT1 triga-3-seoul reactor

NT1 triga-brazil reactor

NT1 triga-texas reactor

NT1 triga-veterans reactor

NT1 ucbr reactor

NT1 uwnr reactor

NT1 wsur reactor

**TRIGA-VETERANS REACTOR**

Omaha V.A. Medical Center/U.S. Veterans Administration, Omaha, Nebraska, USA.

UF *omaha veterans triga-mk-1*UF *veterans administration hospital triga reactor*

\*BT1 isotope production reactors

\*BT1 thermal reactors

\*BT1 triga type reactors

**TRIGGER CIRCUITS**

\*BT1 pulse circuits

NT1 transistor trigger circuits

**TRIGLYCERIDES**

1996-10-22

UF *butter fat*UF *croton oil*UF *tigium oil*

\*BT1 esters

\*BT1 lipids

NT1 corn oil

NT1 linseed oil

NT1 olive oil

NT1 peanut oil

NT1 soybean oil

NT1 triolein

RT *glycerol*RT *oils***TRIGONAL LATTICES**UF *rhombohedral lattices*

\*BT1 crystal lattices

**trihydroxyaromatics**

USE polyphenols

**trihydroxybenzoic acid**

USE gallic acid

**trihydroxyglutaric acid**

1996-10-23

(Until October 1996 this was a valid descriptor.)

USE hydroxy acids

**TRIODOOTHYRONINE**UF *t3 hormone*

\*BT1 thyroid hormones

RT *diiodothyronine*RT *thyronine***triketohydrindane**

1996-10-23

(Prior to March 1997 NINHYDRIN was used for this concept in ETDE.)

USE ketones

**trilaurylamine**

1985-07-19

(Prior to July 1985, this was a valid ETDE descriptor.)

USE tridodecylamine

**trillium**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE liliopsida

**TRILLO-1 REACTOR**

INIS: 1979-05-28; ETDE: 1979-09-06

Trillo, Guadalajara, Spain.

\*BT1 pwr type reactors

**trimethylacetic acid**

USE pivalic acid

**trimethylbenzene-sym**

ETDE: 2002-06-13

USE mesitylene

**TRINEUTRONS**

\*BT1 polyneutrons

**TRINIDAD AND TOBAGO**

1992-06-04

\*BT1 lesser antilles

**trinitrophenol**

USE picric acid

**trinitrotoluene**

USE tnt

**TRINITY EVENT**

\*BT1 atmospheric explosions

\*BT1 nuclear explosions

**trino vercellese reactor**

USE selni reactor

**trinonylamine**

2000-04-12

(Prior to February 1996 TNA was used for this concept in ETDE.)

- USE amines
- USE chelating agents

**TRIOCTYLAMINE**

ETDE: 2005-02-01

(Prior to January 2005 TOA was used for this concept.)

- UF *toa* (trioctylamine)
- \*BT1 amines
- BT1 chelating agents

**TRIOCTYLPHOSPHINE OXIDE**

ETDE: 2005-02-01

(Prior to January 2005 TOPO was used for this concept.)

- UF *topo* (trioctylphosphine oxide)
- \*BT1 organic phosphorus compounds
- \*BT1 phosphine oxides

**TRIOCTYLPHOSPHINE SULFIDE**

ETDE: 2005-02-01

(Prior to January 2005 TOPS was used for this concept.)

- UF *tops* (trioctylphosphine sulfide)
- \*BT1 organic phosphorus compounds
- \*BT1 organic sulfur compounds

**TRIODE TUBES**

- BT1 electron tubes

**TRIOLEIN**

- UF *glyceryl trioleate*
- UF *olein*
- \*BT1 oils
- \*BT1 triglycerides
- RT oleic acid

**TRIOXANES**

- \*BT1 heterocyclic compounds
- \*BT1 organic oxygen compounds
- RT organic solvents

**trioxylglutaric acid**

1996-10-23

(Prior to March 1997

TRIHYDROXYGLUTARIC ACID was used for this concept in ETDE.)

- USE hydroxy acids

**TRIPHENYLENE**

- \*BT1 condensed aromatics
- \*BT1 hydrocarbons

**TRIPHENYLMETHANE DYES**

1996-10-22

- UF *aluminon*
- UF *aurin*
- UF *aurintricarboxylic acid*
- UF *chrome violet*
- BT1 dyes
- NT1 methyl violet
- NT1 methylthymol blue

**TRIPHENYLPHOSPHINE OXIDE**

ETDE: 2005-02-01

(Prior to January 2005 TPO was used for this concept.)

- UF *tpo* (triphenylphosphine oxide)
- \*BT1 organic phosphorus compounds
- \*BT1 phosphine oxides

**TRIPLASMATRONS**

- BT1 ion sources
- \*BT1 plasmatrons

**TRIPLE POINT**

INIS: 1988-02-02; ETDE: 1986-07-08

*The temperature and pressure at which the solid, liquid and vapor phases of a substance coexist in equilibrium with one another.*

- RT phase diagrams
- RT phase transformations

**triplet particles**

- USE quarks

**TRIPLETS**

- BT1 multiplets

**tristan project**

INIS: 1981-09-18; ETDE: 1981-10-24

- USE tristan storage rings

**TRISTAN SEPARATOR**

INIS: 1986-05-23; ETDE: 1985-03-26

*An on-line isotope separator facility for the study of neutron-rich nuclei far from stability located at the high-flux beam reactor at BNL.*

- BT1 electromagnetic isotope separators
- \*BT1 reactor experimental facilities
- RT hfbr reactor

**TRISTAN STORAGE RINGS**

INIS: 1981-09-18; ETDE: 1981-10-24

*Transposable Ring Intersecting Storage Accelerators in Nippon.*

- UF *kek intersecting storage accelerator*
- UF *tristan project*
- BT1 storage rings

**tritiated compounds**

- USE tritium compounds

**tritiated water**

1996-06-19

- USE tritium oxides

**triticum**

- USE wheat

**TRITIDES**

INIS: 1986-03-04; ETDE: 1991-03-07

- \*BT1 tritium compounds
- NT1 deuterium tritide
- NT1 helium tritides
- NT1 hydrogen tritide
- NT1 lithium tritides

**TRITIUM**

- UF *hydrogen 3*
- \*BT1 beta-minus decay radioisotopes
- \*BT1 hydrogen isotopes
- \*BT1 light nuclei
- \*BT1 odd-even nuclei
- \*BT1 years living radioisotopes
- RT thermonuclear fuels
- RT tritium extraction plants
- RT tritium meters
- RT tritons

**TRITIUM COMPOUNDS**

1996-06-19

- UF *tritiated compounds*
- BT1 hydrogen compounds
- NT1 tritides
- NT2 deuterium tritide
- NT2 helium tritides
- NT2 hydrogen tritide
- NT2 lithium tritides
- NT1 tritium oxides
- RT labelled compounds
- RT tritium extraction plants

**TRITIUM EXTRACTION PLANTS**

INIS: 1978-11-24; ETDE: 1978-12-20

- \*BT1 isotope separation plants
- RT heavy water

- RT tritium
- RT tritium compounds

**tritium hydride**

INIS: 1976-07-06; ETDE: 2002-06-13

- USE hydrogen tritide

**TRITIUM IONS**

1996-03-04

- \*BT1 ions
- RT d-t operation

**TRITIUM METERS**

INIS: 1981-09-17; ETDE: 1978-09-11

- \*BT1 meters
- RT chemical analysis
- RT tritium

**TRITIUM OXIDES**

1996-06-19

- UF *dto*
- UF *hto*
- UF *tritiated water*
- \*BT1 oxides
- \*BT1 tritium compounds
- \*BT1 water

**TRITIUM PRODUCTION REACTORS**

- \*BT1 irradiation reactors
- NT1 celestin reactor

**TRITIUM RECOVERY**

ETDE: 1975-09-11

*In thermonuclear reactors and/or devices.*

- UF *recovery (tritium)*
- SF *recovery*
- RT breeding
- RT breeding blankets
- RT plasma confinement
- RT thermonuclear devices
- RT thermonuclear reactors

**TRITIUM SYSTEMS TEST ASSEMBLY**

INIS: 1986-07-09; ETDE: 1983-05-21

*Facility to test and demonstrate safe handling of tritium in a manner similar to that required for a thermonuclear reactor.*

- UF *tsta*
- BT1 test facilities
- RT thermonuclear fuels
- RT thermonuclear reactor fueling

**TRITIUM TARGET**

ETDE: 1976-07-09

- BT1 targets

**triton**

2000-03-29

- SEE tritons
- SEE triturus

**TRITON BEAMS**

- \*BT1 radioactive ion beams
- RT tritons

**TRITON REACTIONS**

- \*BT1 charged-particle reactions

**TRITON REACTOR**

CEA, Paris, France.

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors

**TRITONS**

- SF *triton*
- BT1 charged particles
- NT1 antitritons
- RT tritium
- RT triton beams

**TRITURUS**

SF triton

\*BT1 salamanders

**TRIUMF CYCLOTRON**

UF tri-university meson facility

\*BT1 isochronous cyclotrons

**trochotrons**

USE counting tubes

**TROILITE**

ETDE: 1976-03-31

\*BT1 pyrrhotite

RT iron meteorites

**TROJAN REACTOR**

Portland General Electric Co., Prescott,  
Oregon, USA. Shut down in 1992;  
decommissioned in 1996.

\*BT1 pwr type reactors

**trolleybuses**

2005-04-20

USE buses

USE electric-powered vehicles

USE trackless vehicles

**trombay r-5 reactor**

1986-03-04

(Prior to March 1986 this was a valid  
descriptor, and older material is so indexed.)

USE dhruva reactor

**TROMBE WALLS**

INIS: 2000-04-12; ETDE: 1977-10-20

\*BT1 passive solar heating systems

BT1 walls

RT buildings

RT sensible heat storage

**TROMMELS**

INIS: 2000-04-12; ETDE: 1982-04-09

BT1 screens

RT particle size classifiers

**TRONA**

2000-04-12

Naturally occurring sodium sesquicarbonate.

\*BT1 carbonate minerals

RT sodium carbonates

**TROPICAL MEDICINE**

BT1 medicine

RT tropical regions

**TROPICAL REGIONS**

RT climates

RT savannas

RT tropical medicine

**TROPOMYOSIN**

INIS: 2000-04-12; ETDE: 1980-01-15

\*BT1 proteins

RT actin

RT muscles

RT myosin

**TROPONES**

UF cycloheptatrienones

\*BT1 ketones

**TROPOPAUSE**

1999-04-28

\*BT1 troposphere

RT boundary layers

RT global fallout

RT stratosphere

**TROPOSKIEN SHAPE**

2000-04-12

The shape that a perfectly flexible cable of  
uniform density and cross section would

assume if spun about a vertical axis. If this  
shape is used for turbine blades operating on  
a vertical axis, then rotation will not cause the  
blades to bend, and all stresses will be pure  
tension.

BT1 shape

RT wind turbines

**TROPOSPHERE**

1999-04-28

BT1 earth atmosphere

NT1 tropopause

RT air

RT air-water interactions

**TROUT**

\*BT1 fishes

RT seafood

**TRR-1 REACTOR**

Office of Atomic Energy for Peace (OAEP),  
Ministry of Industry, Bangkok, Thailand.

UF thai research reactor-1

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**tru wastes**

INIS: 2000-04-12; ETDE: 1981-01-09

USE alpha-bearing wastes

**truck transport**

INIS: 1984-04-04; ETDE: 2002-03-26

USE road transport

USE trucks

**TRUCKS**

1999-03-15

(Until March 1999 this concept was indexed  
by VEHICLES.)

UF truck transport

BT1 vehicles

RT occupants

RT road tests

**TRUOX PROCESS**

INIS: 1989-07-19; ETDE: 1989-08-01

\*BT1 reprocessing

RT cmpo

RT solvent extraction

**TRUST TERRITORY OF THE  
PACIFIC ISLANDS**

INIS: 1992-06-09; ETDE: 1979-12-17

The territory encompasses more than 2, 000  
Pacific islets, atolls, and mountainous islands  
with a population of about 113, 000.

UF palau islands

BT1 islands

NT1 mariana islands

NT2 guam

RT pacific ocean

RT usa

**truth model**

INIS: 1984-04-04; ETDE: 1979-11-07

(Prior to January 1995, this was a valid ETDE  
descriptor.)

USE flavor model

**TRW PROCESS**

INIS: 2000-04-12; ETDE: 1978-04-27

Pyritic sulfur is removed by leaching with  
aqueous ferric sulfate at moderate  
temperatures, pressures and long retention  
times. The process employs extensive water  
washing for sulfate removal. The ferric ion  
lixiviant is simultaneously regenerated in the  
reaction chamber using oxygen.

\*BT1 desulfurization

RT coal preparation

**trx-1**

INIS: 2000-04-12; ETDE: 1982-10-05

Trx-1 is a 20-cm diameter, 1-m long field-  
reversed theta pinch with a magnetic field  
swing of 10kg in 3 microseconds. It employs z  
discharge preionization and octupole barrier  
fields to maximize flux trapping on first half  
cycle operation. Cusp coils are used at the  
theta pinch ends to delay reconnection and  
fast mirror coils are used to trigger  
reconnection at a time designed to maximize  
axial heating efficiency and toroid lifetime.

USE reverse-field pinch

**trypaflavine**

USE acriflavine

**TRYPAN BLUE**

\*BT1 amines

\*BT1 azo dyes

\*BT1 naphthols

\*BT1 sulfonic acids

**TRYPANOSOMA**

\*BT1 mastigophora

BT1 parasites

RT glossina

RT trypanosomiasis

**TRYPANOSOMES**

2000-04-12

RT parasites

**TRYPANOSOMIASIS**

\*BT1 parasitic diseases

RT trypanosoma

**TRYPSIN**

Code number 3.4.21.4.

\*BT1 serine proteinases

RT digestion

RT pancreas

**TRYPTAMINES**

1996-06-26

\*BT1 amines

\*BT1 indoles

NT1 melatonin

NT1 serotonin

NT2 bufotenine

**TRYPTOPHAN**

\*BT1 amino acids

\*BT1 heterocyclic acids

\*BT1 indoles

RT hydroxytryptophan

**tryptophan oxygenase**

1997-01-28

(Until October 1996 this was a valid  
descriptor.)

USE oxygenases

**TS-3 DEVICE**

INIS: 1999-07-26; ETDE: 1999-09-03

Tokyo University, Japan.

\*BT1 spheromak devices

**tschebyscheff approximation**

USE polynomials

**tsetse fly**

USE glossina

**TSH**

UF thyroid stimulating hormone

\*BT1 pituitary hormones

RT thyroid hormones

RT trh

**TSL PROCESS**

INIS: 2000-04-12; ETDE: 1979-11-07  
Coal is dissolved and partially hydrogenated in a process derived solvent (as in src process) and then catalytically hydrocracked in a separate reactor (as in lc-finishing).  
\*BT1 coal liquefaction

**tsp**

INIS: 2000-04-12; ETDE: 1981-05-18  
USE total suspended particulates

**tsp tokamak**

1993-08-09  
USE t-14 tokamak

**TSR-1 REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut down in 1958.

UF tower shielding reactor-1  
\*BT1 enriched uranium reactors  
\*BT1 tank type reactors  
\*BT1 test reactors

**TSR-2 REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut down in 1992.

UF tower shielding reactor-2  
\*BT1 research reactors  
\*BT1 test reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**TSR STORAGE RING**

INIS: 1993-09-16; ETDE: 1993-11-08  
UF heidelberg storage ring  
BT1 storage rings

**tsta**

INIS: 2000-04-12; ETDE: 1983-05-21  
USE tritium systems test assembly

**tsukuba kek synchrotron**

USE kek synchrotron

**TSUNAMIS**

A great sea wave produced by submarine earth movement or volcanic eruption.

UF tidal waves  
\*BT1 water waves  
RT earthquakes  
RT natural disasters  
RT seas  
RT seismic events  
RT seismic waves

**tsuruga-1 reactor**

INIS: 1983-06-30; ETDE: 1983-07-20  
USE tsuruga reactor

**TSURUGA-2 REACTOR**

INIS: 1983-06-30; ETDE: 1983-07-20  
JAPCO, Tsuruga, Fukui, Japan.  
UF japco-4 reactor  
\*BT1 pwr type reactors

**TSURUGA REACTOR**

JAPCO, Tsuruga, Fukui, Japan.  
UF japco-2 reactor  
UF tsuruga-1 reactor  
\*BT1 bwr type reactors

**TTA**

UF thenoyltrifluoroacetone  
\*BT1 heterocyclic compounds  
\*BT1 ketones  
\*BT1 organic fluorine compounds  
\*BT1 organic sulfur compounds  
RT thiophene

**ttf (tetrathiafulvalene)**

INIS: 2000-03-29; ETDE: 2005-02-01  
(Prior to January 2005 TTF was a valid descriptor.)  
USE tetrathiafulvalene

**TTF-TCNQ**

INIS: 2000-05-02; ETDE: 1975-09-30  
UF tetrathiafulvalene  
tetracyanoquinodimethane  
\*BT1 heterocyclic compounds  
\*BT1 nitriles  
\*BT1 organic sulfur compounds  
\*BT1 organic superconductors

**ttmp**

USE transit-time magnetic pumping

**ttr-1 toshiba reactor**

USE toshiba reactor

**tube model**

INIS: 2000-04-12; ETDE: 1980-03-04  
USE coherent tube model

**TUBERCULIN**

BT1 antigens

**TUBERCULOSIS**

1996-10-23  
\*BT1 bacterial diseases  
RT mycobacterium tuberculosis  
RT streptomycin

**TUBERS**

NT1 potatoes  
RT plants

**TUBES**

For objects of tubular shape: see also DRIFT TUBES, ELECTRON TUBES, or IMAGE STORAGE TUBES.

NT1 baffled tubes  
NT1 guide tubes  
NT1 hoses  
NT1 pipes  
NT2 drill pipes  
NT2 marine risers  
NT2 penstocks  
NT1 pressure tubes  
RT borescopes  
RT corrosion denting  
RT coverings  
RT cylinders  
RT ducts  
RT reactor cooling systems  
RT shape  
RT tunnels

**tubes (conduits)**

USE pipes

**tubular pinch devices (linear)**

USE linear hard core pinch devices

**TUBULES**

In kidneys.  
\*BT1 kidneys  
RT aldosterone  
RT glomeruli  
RT renal clearance  
RT vasopressin

**TUFF**

A compacted pyroclastic deposit or volcanic ash and dust.  
\*BT1 volcanic rocks

**TULLNERFELD REACTOR**

Zwentendorf, Austria. Construction completed, but dismantled in 1987 without being operated.

UF zwentendorf reactor  
\*BT1 bwr type reactors

**TUMAN DEVICES**

\*BT1 tokamak devices

**tumbler project**

1996-07-15  
(Until June 1996 this was a valid descriptor.)  
SEE nuclear weapons

**tumbleweeds**

INIS: 2000-04-12; ETDE: 1981-04-17  
(Prior to March 1997 this was a valid ETDE descriptor.)  
USE magnoliopsida

**TUMOR CELLS**

UF giant cells  
BT1 animal cells  
NT1 ascites tumor cells  
NT1 hela cells  
RT cell cultures  
RT in vivo  
RT neoplasms

**tumor necrosis factor**

2003-02-10  
SEE radioprotective substances  
SEE response modifying factors

**TUMOR PROMOTERS**

INIS: 1981-07-08; ETDE: 1980-10-07  
Chemical agents which are not mutagenic or carcinogenic in themselves, but which will accelerate the growth of a pre-existing tumor.  
BT1 promoters  
RT carcinogens  
RT mutagens  
RT neoplasms

**tumor viruses**

INIS: 1976-03-25; ETDE: 1975-08-19  
USE oncogenic viruses

**tumors**

USE neoplasms

**tun ismail atomic research center**

INIS: 1985-01-17; ETDE: 1985-02-22  
Malaysia.  
USE puspati

**TUNA**

\*BT1 fishes

**TUNDRA**

RT arctic regions  
RT climates  
RT terrestrial ecosystems

**TUNGSTATES**

1997-06-19  
UF hafnium tungstates  
UF thorium tungstates  
UF uranium tungstates  
UF uranyl tungstates  
UF vanadium tungstates  
BT1 oxygen compounds  
\*BT1 tungsten compounds  
NT1 aluminium tungstates  
NT1 ammonium tungstates  
NT1 barium tungstates  
NT1 bismuth tungstates  
NT1 cadmium tungstates  
NT1 calcium tungstates  
NT1 cerium tungstates  
NT1 cesium tungstates

**NT1** cobalt tungstates  
**NT1** copper tungstates  
**NT1** dysprosium tungstates  
**NT1** erbium tungstates  
**NT1** gadolinium tungstates  
**NT1** indium tungstates  
**NT1** iron tungstates  
**NT1** lanthanum tungstates  
**NT1** lead tungstates  
**NT1** lithium tungstates  
**NT1** lutetium tungstates  
**NT1** manganese tungstates  
**NT1** neodymium tungstates  
**NT1** nickel tungstates  
**NT1** potassium tungstates  
**NT1** praseodymium tungstates  
**NT1** rubidium tungstates  
**NT1** samarium tungstates  
**NT1** scandium tungstates  
**NT1** silver tungstates  
**NT1** sodium tungstates  
**NT1** strontium tungstates  
**NT1** tantalum tungstates  
**NT1** thallium tungstates  
**NT1** tin tungstates  
**NT1** titanium tungstates  
**NT1** ytterbium tungstates  
**NT1** yttrium tungstates  
**NT1** zinc tungstates  
**NT1** zirconium tungstates

**TUNGSTEN**

*UF* wolfram  
 \*BT1 refractory metals  
 \*BT1 transition elements  
**NT1** tungsten-alpha

**TUNGSTEN 158**

*INIS: 1986-05-08; ETDE: 1986-07-03*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 tungsten isotopes

**TUNGSTEN 159**

*INIS: 1986-05-08; ETDE: 1986-07-03*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 160**

*INIS: 1979-09-18; ETDE: 1979-10-23*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 161**

*INIS: 1986-05-08; ETDE: 1988-12-05*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 162**

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 163**

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes

\*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 164**

\*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 165**

*INIS: 1976-02-11; ETDE: 1975-10-01*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 166**

*INIS: 1976-02-11; ETDE: 1975-10-01*  
 \*BT1 alpha decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 167**

*INIS: 1985-11-18; ETDE: 1985-12-13*  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 168**

*INIS: 1984-02-23; ETDE: 1984-03-06*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 169**

*INIS: 1985-10-22; ETDE: 1979-09-26*  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 170**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 171**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 172**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 173**

\*BT1 beta-plus decay radioisotopes

\*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 174**

\*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 175**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 minutes living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 176**

\*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 177**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 hours living radioisotopes  
 \*BT1 intermediate mass nuclei  
 \*BT1 tungsten isotopes

**TUNGSTEN 178**

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 tungsten isotopes

**TUNGSTEN 179**

\*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 minutes living radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 180**

\*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 isomeric transition isotopes  
 \*BT1 stable isotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 180 TARGET**

*ETDE: 1976-07-09*  
**BT1** targets

**TUNGSTEN 181**

\*BT1 days living radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 heavy nuclei  
 \*BT1 internal conversion radioisotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 182**

\*BT1 even-even nuclei  
 \*BT1 heavy nuclei  
 \*BT1 stable isotopes  
 \*BT1 tungsten isotopes

**TUNGSTEN 182 TARGET**

*ETDE: 1976-07-09*  
**BT1** targets

**TUNGSTEN 183**

\*BT1 even-odd nuclei

- \*BT1 heavy nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 stable isotopes
- \*BT1 tungsten isotopes

**TUNGSTEN 183 REACTIONS**

*INIS: 1984-02-23; ETDE: 1984-03-06*

- \*BT1 heavy ion reactions

**TUNGSTEN 183 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**TUNGSTEN 184**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 stable isotopes
- \*BT1 tungsten isotopes

**TUNGSTEN 184 BEAMS**

*INIS: 1977-02-08; ETDE: 1977-04-13*

- \*BT1 ion beams

**TUNGSTEN 184 REACTIONS**

*INIS: 1982-10-28; ETDE: 1982-11-30*

- \*BT1 heavy ion reactions

**TUNGSTEN 184 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**TUNGSTEN 185**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 tungsten isotopes

**TUNGSTEN 185 TARGET**

*INIS: 1985-11-16; ETDE: 1985-12-11*

- BT1 targets

**TUNGSTEN 186**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 stable isotopes
- \*BT1 tungsten isotopes

**TUNGSTEN 186 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**TUNGSTEN 187**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 tungsten isotopes

**TUNGSTEN 188**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 tungsten isotopes

**TUNGSTEN 189**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tungsten isotopes

**TUNGSTEN 190**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 tungsten isotopes

**TUNGSTEN 192**

- \*BT1 even-even nuclei
- \*BT1 heavy nuclei
- \*BT1 tungsten isotopes

**TUNGSTEN ADDITIONS**

*1996-07-17*

*Alloys containing not more than 1% W are listed here.*

- \*BT1 tungsten alloys
- NT1 alloy-ni49cr22fe18mo9
- NT2 hastelloy x
- NT1 alloy-ni50cr22fe18mo9
- NT2 hastelloy xr
- NT1 alloy-ni62cr16mo15fe3
- NT2 hastelloy s
- NT1 steel-ni4crw

**TUNGSTEN ALLOYS**

*1996-11-13*

*Alloys containing more than 1% W.*

- UF alloy-co64cr29w4
- UF alloy-co66cr26w6
- UF alloy-ehi 868
- UF alloy-ehp-567
- UF alloy-khn60b
- UF alloy-khn60y
- UF alloy-n55m20v25
- UF alloy-n65m20v15
- UF alloy-ni60cr25w15
- UF alloy-ni65mo16cr15w4
- UF alloy-vzh98
- UF stellite 156
- \*BT1 transition element alloys
- NT1 alloy-c-103
- NT1 alloy-co36cr22ni22w15fe3
- NT2 haynes 188 alloy
- NT1 alloy-co43cr20fe18ni13w3
- NT2 havar
- NT1 alloy-co54cr20w15ni10
- NT2 alloy-hs-25
- NT2 haynes 25 alloy
- NT1 alloy-co60cr30w4
- NT2 stellite 6
- NT1 alloy-d-979
- NT1 alloy-in-102
- NT1 alloy-khn50mbvyu
- NT1 alloy-mar-m246
- NT1 alloy-mn-21
- NT1 alloy-mo-re-1
- NT1 alloy-ni54mo17cr16fe6w4
- NT2 hastelloy c
- NT1 alloy-ni61cr16co9al3ti3w3
- NT2 alloy-in-738
- NT1 alloy-ra-333
- NT1 alloy-s-590
- NT1 alloy-s-816
- NT1 alloy-ta90w8hf
- NT2 tantalum alloy-t111
- NT1 alloy-v-36
- NT1 astar 811c
- NT1 carboloy
- NT1 magnet steel-ks
- NT1 miduale
- NT1 rene 80
- NT1 rene 95
- NT1 supertherm
- NT1 tungsten additions
- NT2 alloy-ni49cr22fe18mo9
- NT3 hastelloy x
- NT2 alloy-ni50cr22fe18mo9
- NT3 hastelloy xr
- NT2 alloy-ni62cr16mo15fe3
- NT3 hastelloy s
- NT2 steel-ni4crw
- NT1 tungsten base alloys
- NT2 alloy-mo-re-2
- NT1 tungsten bronze
- NT1 udimet 500

**TUNGSTEN-ALPHA**

*INIS: 1985-10-23; ETDE: 1985-11-19*

- \*BT1 tungsten

**TUNGSTEN BASE ALLOYS**

- \*BT1 tungsten alloys
- NT1 alloy-mo-re-2

**TUNGSTEN BORIDES**

- \*BT1 borides
- \*BT1 tungsten compounds

**TUNGSTEN BROMIDES**

- \*BT1 bromides
- \*BT1 tungsten compounds

**TUNGSTEN BRONZE**

- \*BT1 copper base alloys
- \*BT1 tungsten alloys

**TUNGSTEN CARBIDES**

- \*BT1 carbides
- \*BT1 tungsten compounds

**TUNGSTEN CHLORIDES**

- \*BT1 chlorides
- \*BT1 tungsten compounds

**TUNGSTEN COMPLEXES**

- \*BT1 transition element complexes

**TUNGSTEN COMPOUNDS**

*1997-06-19*

- BT1 refractory metal compounds
- BT1 transition element compounds
- NT1 tungstates
- NT2 aluminium tungstates
- NT2 ammonium tungstates
- NT2 barium tungstates
- NT2 bismuth tungstates
- NT2 cadmium tungstates
- NT2 calcium tungstates
- NT2 cerium tungstates
- NT2 cesium tungstates
- NT2 cobalt tungstates
- NT2 copper tungstates
- NT2 dysprosium tungstates
- NT2 erbium tungstates
- NT2 gadolinium tungstates
- NT2 indium tungstates
- NT2 iron tungstates
- NT2 lanthanum tungstates
- NT2 lead tungstates
- NT2 lithium tungstates
- NT2 lutetium tungstates
- NT2 manganese tungstates
- NT2 neodymium tungstates
- NT2 nickel tungstates
- NT2 potassium tungstates
- NT2 praseodymium tungstates
- NT2 rubidium tungstates
- NT2 samarium tungstates
- NT2 scandium tungstates
- NT2 silver tungstates
- NT2 sodium tungstates
- NT2 strontium tungstates
- NT2 tantalum tungstates
- NT2 thallium tungstates
- NT2 tin tungstates
- NT2 titanium tungstates
- NT2 ytterbium tungstates
- NT2 yttrium tungstates
- NT2 zinc tungstates
- NT2 zirconium tungstates
- NT1 tungsten borides
- NT1 tungsten bromides
- NT1 tungsten carbides
- NT1 tungsten chlorides
- NT1 tungsten fluorides
- NT1 tungsten hydrides
- NT1 tungsten hydroxides

NT1 tungsten iodides  
 NT1 tungsten nitrides  
 NT1 tungsten oxides  
 NT2 sodium tungsten bronze  
 NT1 tungsten phosphides  
 NT1 tungsten selenides  
 NT1 tungsten silicides  
 NT1 tungsten sulfides  
 NT1 tungsten tellurides  
 NT1 tungstophosphates  
 NT1 tungstophosphoric acid

**TUNGSTEN FLUORIDES**

\*BT1 fluorides  
 \*BT1 tungsten compounds

**TUNGSTEN HYDRIDES**

1977-01-26

\*BT1 hydrides  
 \*BT1 tungsten compounds

**TUNGSTEN HYDROXIDES**

\*BT1 hydroxides  
 \*BT1 tungsten compounds

**TUNGSTEN IODIDES**

\*BT1 iodides  
 \*BT1 tungsten compounds

**TUNGSTEN IONS**

\*BT1 ions

**TUNGSTEN ISOTOPES**

1999-07-16

BT1 isotopes  
 NT1 tungsten 158  
 NT1 tungsten 159  
 NT1 tungsten 160  
 NT1 tungsten 161  
 NT1 tungsten 162  
 NT1 tungsten 163  
 NT1 tungsten 164  
 NT1 tungsten 165  
 NT1 tungsten 166  
 NT1 tungsten 167  
 NT1 tungsten 168  
 NT1 tungsten 169  
 NT1 tungsten 170  
 NT1 tungsten 171  
 NT1 tungsten 172  
 NT1 tungsten 173  
 NT1 tungsten 174  
 NT1 tungsten 175  
 NT1 tungsten 176  
 NT1 tungsten 177  
 NT1 tungsten 178  
 NT1 tungsten 179  
 NT1 tungsten 180  
 NT1 tungsten 181  
 NT1 tungsten 182  
 NT1 tungsten 183  
 NT1 tungsten 184  
 NT1 tungsten 185  
 NT1 tungsten 186  
 NT1 tungsten 187  
 NT1 tungsten 188  
 NT1 tungsten 189  
 NT1 tungsten 190  
 NT1 tungsten 192

**TUNGSTEN NITRIDES**

\*BT1 nitrides  
 \*BT1 tungsten compounds

**TUNGSTEN ORES**

BT1 ores

**TUNGSTEN OXIDES**

\*BT1 oxides  
 \*BT1 tungsten compounds  
 NT1 sodium tungsten bronze  
 RT oxide minerals

RT tungstophosphoric acid  
 RT wolframite

**TUNGSTEN PHOSPHIDES**

INIS: 1979-09-18; ETDE: 1976-07-07

\*BT1 phosphides  
 \*BT1 tungsten compounds

**TUNGSTEN SELENIDES**

1978-07-31

\*BT1 selenides  
 \*BT1 tungsten compounds

**TUNGSTEN SILICIDES**

1975-10-29

\*BT1 silicides  
 \*BT1 tungsten compounds

**TUNGSTEN SULFIDES**

\*BT1 sulfides  
 \*BT1 tungsten compounds

**TUNGSTEN TELLURIDES**

2000-04-12

\*BT1 tellurides  
 \*BT1 tungsten compounds

**tungsten water moderated reactor**

2000-04-12

USE twmr reactor

**TUNGSTOPHOSPHATES**

1988-02-02

BT1 oxygen compounds  
 BT1 phosphorus compounds  
 \*BT1 tungsten compounds  
 RT tungstophosphoric acid

**TUNGSTOPHOSPHORIC ACID**

UF phosphotungstic acid  
 UF phosphowolframic acid  
 UF wolframophosphoric acid  
 \*BT1 inorganic acids  
 BT1 oxygen compounds  
 BT1 phosphorus compounds  
 \*BT1 tungsten compounds  
 RT heteropolyanions  
 RT phosphoric acid  
 RT tungsten oxides  
 RT tungstophosphates

**TUNING**

1975-08-22

NT1 frequency selection  
 NT1 mode selection  
 RT cavity resonators  
 RT frequency control  
 RT resonance  
 RT rf systems  
 RT synchronization

**TUNISIA**

BT1 africa  
 BT1 arab countries  
 BT1 developing countries

**TUNISIAN ORGANIZATIONS**

2004-03-31

BT1 national organizations

**TUNNEL DIODES**

\*BT1 semiconductor diodes  
 RT schottky barrier diodes

**TUNNEL EFFECT**

RT superconducting junctions  
 RT superconductivity

**TUNNEL FURNACES**

INIS: 2000-04-12; ETDE: 1976-03-11

UF tunnel kilns  
 BT1 furnaces

**tunnel kilns**

INIS: 2000-04-12; ETDE: 1976-03-11  
 USE tunnel furnaces

**TUNNELING**

INIS: 1993-08-02; ETDE: 1978-05-03  
 Not for the concept of electron tunneling, for which use TUNNEL EFFECT.

RT shaft excavations  
 RT tunnels  
 RT underground mining

**TUNNELING MACHINES**

INIS: 1999-05-20; ETDE: 1985-04-09

BT1 equipment  
 RT excavation  
 RT mining equipment

**TUNNELS**

1997-06-17

BT1 underground facilities  
 NT1 mine roadways  
 RT excavation  
 RT mine drivage  
 RT mines  
 RT shaft excavations  
 RT subsurface structures  
 RT subterranean penetrators  
 RT tubes  
 RT tunneling  
 RT wind tunnels

**TURBELLARIA**

\*BT1 platyhelminths  
 NT1 planaria

**TURBIDITY**

RT suspensions

**TURBINE BLADES**

UF blades (turbines)  
 RT compressor blades  
 RT turbines

**turbine pumps**

INIS: 2000-04-12; ETDE: 1980-01-24  
 USE pump turbines

**TURBINES**

UF velocity-pumps reaction turbines  
 SF krov machine  
 \*BT1 turbomachinery  
 NT1 gas turbines  
 NT2 coal-fired gas turbines  
 NT1 hydraulic turbines  
 NT2 pump turbines  
 NT1 radial inflow turbines  
 NT1 radial-outflow reaction turbines  
 NT1 rotary separator turbines  
 NT1 steam turbines  
 NT1 wind turbines  
 NT2 diffuser augmented turbines  
 NT2 horizontal axis turbines  
 NT2 vertical axis turbines  
 NT3 giromill turbines  
 NT3 tornado turbines  
 NT2 vortex augmented turbines  
 RT helical rotary screw expander  
 RT hydroelectric power plants  
 RT turbine blades  
 RT turbochargers  
 RT turbodrills  
 RT working fluids

**TURBOCHARGERS**

INIS: 2000-04-12; ETDE: 1985-04-09

\*BT1 superchargers  
 \*BT1 turbomachinery  
 RT turbines



**TURBODRILLS**

INIS: 2000-04-12; ETDE: 1981-08-21

- \*BT1 rotary drills
- \*BT1 turbomachinery
- RT drilling
- RT turbines

**TURBOFAN ENGINES**

INIS: 2000-04-12; ETDE: 1984-05-23

- \*BT1 internal combustion engines
- \*BT1 turbomachinery
- RT turbojet engines

**TURBOGENERATORS**

- SF braun standard turbine island
- SF c f braun standard turbine island
- \*BT1 electric generators
- \*BT1 turbomachinery
- RT hydraulic turbines

**TURBOJET ENGINES**

1992-06-12

- \*BT1 internal combustion engines
- \*BT1 turbomachinery
- RT turbofan engines

**TURBOMACHINERY**

INIS: 1997-06-19; ETDE: 1976-09-28

- \*BT1 machinery
- NT1 turbines
  - NT2 gas turbines
  - NT3 coal-fired gas turbines
  - NT2 hydraulic turbines
  - NT3 pump turbines
  - NT2 radial inflow turbines
  - NT2 radial-outflow reaction turbines
  - NT2 rotary separator turbines
  - NT2 steam turbines
  - NT2 wind turbines
  - NT3 diffuser augmented turbines
  - NT3 horizontal axis turbines
  - NT3 vertical axis turbines
  - NT4 giromill turbines
  - NT4 tornado turbines
  - NT3 vortex augmented turbines
- NT1 turbochargers
- NT1 turbodrills
- NT1 turbofan engines
- NT1 turbogenerators
- NT1 turbojet engines
- RT compressors
- RT pumps

**TURBOMOLECULAR PUMPS**

- \*BT1 vacuum pumps

**TURBULENCE**

- RT attractors
- RT diffusion
- RT fluid flow
- RT hurricanes
- RT mixing
- RT stirring
- RT tornadoes
- RT turbulent flow
- RT vortices
- RT wind

**TURBULENT FLOW**

- UF supercritical flow
- BT1 fluid flow
- RT critical flow
- RT laminar flow
- RT reynolds number
- RT richardson number
- RT turbulence
- RT two-phase flow
- RT viscous flow

**TURBULENT HEATING**

- \*BT1 plasma heating

**TURKEY**

1997-06-17

- UF marmara sea
- UF marmora sea
- UF sea of marmara
- BT1 asia
- BT1 developing countries
- BT1 middle east
- RT black sea
- RT kizildere geothermal field
- RT oecd
- RT tigris river

**TURKEY POINT-3 REACTOR**

Florida Power and Light Co., Florida City, Florida, USA.

- \*BT1 pwr type reactors

**TURKEY POINT-4 REACTOR**

Florida Power and Light Co., Florida City, Florida, USA.

- \*BT1 pwr type reactors

**TURKISH ATOMIC ENERGY AUTHORITY**

2003-08-27

- \*BT1 turkish organizations

**TURKISH ORGANIZATIONS**

2003-08-26

- BT1 national organizations
- NT1 turkish atomic energy authority

**turkish reactor-1**

- USE tr-1 reactor

**turkish reactor-2**

1991-07-02

- USE tr-2 reactor

**TURKMENISTAN**

INIS: 1997-08-20; ETDE: 1993-04-08

(Until January 1993, this was indexed by USSR.)

- SF soviet union
- SF union of soviet socialist republics
- SF ussr
- BT1 asia
- RT caspian sea

**turku cyclotron**

- USE aabo cyclotron

**turnips**

- USE brassica

**turnover (radionuclides)**

- USE radionuclide kinetics

**TURPENTINE**

- \*BT1 organic solvents
- \*BT1 terpenes
- RT hydrocarbons

**TURTLES**

- \*BT1 reptiles

**TUVALU**

1991-07-02

- \*BT1 micronesia
- RT pacific ocean

**tva**

INIS: 1977-01-25; ETDE: 1976-01-07

- USE tennessee valley authority

**TVA-1 REACTOR**

TVA, USA. Canceled before construction began.

- UF tennessee valley authority reactor-1
- \*BT1 pwr type reactors

**TVA-2 REACTOR**

TVA, USA. Canceled before construction began.

- UF tennessee valley authority reactor-2
- \*BT1 pwr type reactors

**tvo-1 reactor**

INIS: 1997-06-19; ETDE: 1976-08-24

Name changed in June 1997 to OLKILUOTO-1 REACTOR.

(Until then this was a valid descriptor.)

- USE olkiluoto-1 reactor

**tvo-2 reactor**

INIS: 1997-06-19; ETDE: 1976-08-24

Name changed in June 1997 to OLKILUOTO-2 REACTOR.

(Until then this was a valid descriptor.)

- USE olkiluoto-2 reactor

**tvo-3 reactor**

2005-09-08

- USE olkiluoto-3 reactor

**TWINNING**

- RT crystal structure
- RT microstructure
- RT slip

**TWISTOR THEORY**

INIS: 1978-07-31; ETDE: 1975-08-19

Quantized points of space-time.

- UF penrose twistor theory
- RT gravitation
- RT quantum mechanics
- RT space-time
- RT unified-field theories

**TWMR REACTOR**

2000-04-12

UF tungsten water moderated reactor

- \*BT1 space propulsion reactors
- \*BT1 water moderated reactors

**TWO-BODY PROBLEM**

- BT1 many-body problem
- RT resonating-group method

**TWO-COMPONENT NEUTRINO THEORY**

- RT beta decay
- RT neutrinos
- RT spin

**TWO-COMPONENT TORUS**

INIS: 1976-03-02; ETDE: 1975-11-26

UF tct

- \*BT1 tokamak devices

**TWO-DIMENSIONAL CALCULATIONS**

- UF 2-dimensional calculations
- UF calculations (2-dimensional)
- RT adjoint difference method
- RT ising model
- RT many-dimensional calculations
- RT mathematics
- RT surfaces

**TWO-DIMENSIONAL ELECTROPHORESIS**

INIS: 1993-08-03; ETDE: 1987-05-06

- BT1 electrophoresis
- RT fractionation
- RT nucleic acids

**two-fireball model**

- USE fireball model

**two-fluid theory**

- USE landau liquid helium theory

**TWO-NUCLEON TRANSFER REACTIONS**

\*BT1 multi-nucleon transfer reactions

**TWO-PHASE FLOW**

BT1 fluid flow  
 RT boiling  
 RT gas flow  
 RT heat transfer  
 RT liquid flow  
 RT richardson number  
 RT turbulent flow

**TWO-STREAM INSTABILITY**

\*BT1 plasma microinstabilities  
 RT fluid flow

**tybo event**

INIS: 2000-04-12; ETDE: 1976-03-11  
 A test made during PROJECT BEDROCK.  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
 USE nuclear explosions  
 USE underground explosions

**tyco process**

2000-04-12  
 Process for removal of sulfur dioxide, nitrogen monoxide, and nitrogen dioxide from flue gases.  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

**TYPE-I SUPERCONDUCTORS**

BT1 superconductors

**TYPE-II SUPERCONDUCTORS**

2000-05-30  
 UF type-iii superconductors  
 BT1 superconductors  
 NT1 high-*tc* superconductors

**type-iii superconductors**

USE type-ii superconductors

**TYPHOID**

\*BT1 bacterial diseases  
 RT salmonella

**TYPHUS**

\*BT1 rickettsial diseases  
 RT rickettsiae

**TYRAMINE**

\*BT1 amines  
 \*BT1 phenols  
 \*BT1 sympathomimetics

**TYRONE-1 REACTOR**

Northern States Power Co., Durand, Wisconsin, USA. Canceled in 1979 before construction began.

\*BT1 pwr type reactors

**TYRONE-2 REACTOR**

Northern States Power Co., Durand, Wisconsin, USA. Canceled in 1974 before construction began.

\*BT1 pwr type reactors

**TYROSINASE**

\*BT1 hydroxylases

**TYROSINE**

\*BT1 amino acids  
 \*BT1 hydroxy acids  
 RT diiodotyrosine  
 RT melanin  
 RT methyl tyrosine  
 RT phenylalanine

**TYUYAMUNITE**

\*BT1 oxide minerals  
 \*BT1 uranium minerals  
 RT calcium oxides  
 RT uranium oxides  
 RT vanadium oxides

**TZ1 REACTOR**

INIS: 1985-06-07; ETDE: 1985-07-18  
 UF tammuz-1 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 isotope production reactors  
 \*BT1 pool type reactors  
 \*BT1 thermal reactors

**TZ2 REACTOR**

INIS: 1985-06-07; ETDE: 1985-07-18  
 UF tammuz-2 reactor  
 \*BT1 enriched uranium reactors  
 \*BT1 experimental reactors  
 \*BT1 pool type reactors  
 \*BT1 thermal reactors

**tzm**

INIS: 2000-04-12; ETDE: 1978-12-20  
 USE alloy-mo99

**U-1 GROUPS**

\*BT1 u groups

**U-12 GROUPS**

\*BT1 u groups

**U-2 GROUPS**

\*BT1 u groups

**u-2375 resonances**

1987-12-21  
 (Prior to December 1987 this was a valid descriptor.)  
 USE f4-2300 mesons

**U-3 GROUPS**

\*BT1 u groups

**U-4 GROUPS**

\*BT1 u groups

**U-5 GROUPS**

INIS: 1986-08-19; ETDE: 1986-09-05  
 \*BT1 u groups

**U-6 GROUPS**

\*BT1 u groups

**U CENTERS**

\*BT1 color centers

**U CHANNEL**

RT mandelstam representation  
 RT particle interactions  
 RT s channel  
 RT t channel

**U CODES**

BT1 computer codes

**U-GAS PROCESS**

1994-07-01  
 Institute of Gas Technology process for producing low-btu gas (140 btu/scf) by reacting crushed coal with air and steam in a single-stage fluidized-bed gasifier at 350 psi and 1900 degrees F.  
 \*BT1 coal gasification

**U GROUPS**

\*BT1 lie groups  
 NT1 u-1 groups  
 NT1 u-12 groups  
 NT1 u-2 groups  
 NT1 u-3 groups  
 NT1 u-4 groups

NT1 u-5 groups  
 NT1 u-6 groups  
 RT unitary symmetry

**u processes**

USE umklapp processes

**U QUARKS**

INIS: 1995-09-08; ETDE: 1995-10-03  
 \*BT1 quarks  
 RT quarkonium

**U VALUES**

INIS: 2000-04-12; ETDE: 1978-04-06  
 Values for heat transfer through materials in btu/hr per unit area as a function of the temperature gradient.  
 RT building materials  
 RT heat transfer  
 RT r factors

**u3o8**

INIS: 1985-11-18; ETDE: 1975-10-02  
 (Prior to December 1985 this was a valid descriptor.)  
 USE uranium oxides u3o8

**uar**

USE egyptian arab republic

**UBIQUINONE**

\*BT1 benzoquinones  
 BT1 coenzymes  
 RT vitamin k

**UCAP PROCESS**

INIS: 2000-04-12; ETDE: 1980-05-06  
 \*BT1 desulfurization  
 RT claus process

**UCBRR REACTOR**

Berkeley Research Reactor, Univ. of California, Berkeley, California, USA. Shut down in 1987.

UF berkeley research reactor  
 UF berkeley triga reactor  
 UF california berkeley triga reactor  
 UF university of california, berkeley triga reactor  
 UF university of california berkeley reactor

\*BT1 isotope production reactors  
 \*BT1 pulsed reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors  
 \*BT1 triga type reactors

**ucirr reactor**

1985-07-19  
 (Prior to July 1985, this was a valid ETDE descriptor.)  
 USE triga-1-california reactor

**UCLA**

2000-05-22  
 UF university of california / los angeles  
 RT california  
 RT us doe

**uclbl**

USE lawrence berkeley laboratory

**uclll**

USE lawrence livermore laboratory

**UCLRL CYCLOTRONS**

\*BT1 isochronous cyclotrons  
 NT1 lbl 88-inch cyclotron

**UDIMET 500**

INIS: 2000-04-12; ETDE: 1979-09-06  
 \*BT1 tungsten alloys  
 \*BT1 udimet alloys

**UDIMET 700**

1983-11-07

\*BT1 alloy-ni53co19cr15mo5al4ti3

**UDIMET ALLOYS**

\*BT1 chromium alloys

\*BT1 cobalt alloys

\*BT1 heat resisting alloys

\*BT1 molybdenum alloys

\*BT1 nickel base alloys

\*BT1 titanium alloys

NT1 alloy-ni53co19cr15mo5al4ti3

NT2 udimet 700

NT1 udimet 500

**udpg (uridine diphosphoglucose)**

INIS: 2005-01-17; ETDE: 2005-02-01

(Prior to January 2005 UDPG was a valid descriptor.)

USE uridine diphosphoglucose

**UFTR REACTOR**

Univ. of Florida, Gainesville, Florida, USA.

UF florida university reactor

UF university of florida reactor

\*BT1 argonaut type reactors

\*BT1 isotope production reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**UGANDA**

BT1 africa

BT1 developing countries

**uhde-pfirrmann process**

2000-04-12

A direct conversion of coal to synthetic crude oil by hydrogenation during and after solvent extraction.

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal liquefaction

**uhf (lower range)**

USE ghz range 01-100

**uhf (upper range)**

USE ghz range 100-1000

**uhf radiation (01-100 ghz)**

USE ghz range 01-100

USE radiowave radiation

**uhf radiation (100-1000 mhz)**

USE mhz range 100-1000

USE radiowave radiation

**uhf radiation (lower range)**

USE mhz range 100-1000

USE radiowave radiation

**uhf radiation (upper range)**

USE ghz range 01-100

USE radiowave radiation

**UHTREX REACTOR**

LANL, Los Alamos, New Mexico, USA.

UF ultrahigh temperature reactor experiment

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 graphite moderated reactors

\*BT1 helium cooled reactors

\*BT1 thermal reactors

**UHV AC SYSTEMS**

INIS: 2000-04-12; ETDE: 1976-05-17

Over 765 kV.

UF ultrahigh voltage alternating current systems

\*BT1 ac systems

**UHV DC SYSTEMS**

INIS: 1992-03-09; ETDE: 1976-05-17

Over 765 kV.

UF ultrahigh voltage dc systems

UF ultrahigh voltage direct current systems

\*BT1 dc systems

**UINTA BASIN**

2000-04-12

RT colorado

RT oil shale deposits

RT uinta formation

RT utah

**UINTA FORMATION**

INIS: 2000-04-12; ETDE: 1975-12-16

Strata of eocene age and continental origin occurring typically in the Uinta Basin in Utah and Colorado.

\*BT1 green river formation

RT colorado

RT oil shale deposits

RT oil shales

RT uinta basin

RT utah

**UJD**

2002-12-17

Organisation responsible for use of nuclear energy in Slovakia.

UF nuclear regulatory authority of the slovak republic

UF slovak nuclear regulatory authority

UF urad jadroveho dozoru slovenskej republiky

\*BT1 slovak organizations

**ujm**

INIS: 1976-08-17; ETDE: 1976-11-02

Uncorrelated-jet model.

USE jet model

**UJV**

1997-11-05

Nuclear Research Institute, Rez, Czech Republic.

UF ustav jaderneho vyzkumu

UF ustav jadernych vyzkumu

\*BT1 czech organizations

**uk atomic energy authority**

1977-03-14

USE ukaea

**UK NATIONAL PHYSICAL LABORATORY**

INIS: 1994-08-12; ETDE: 1983-03-07

(Until August 1994 this descriptor was spelled UK NATIONALPHYSICAL LAB.)

\*BT1 united kingdom organizations

**UK NII**

INIS: 1983-06-02; ETDE: 1983-07-07

HM Nuclear Installations Inspectorate.

UF nii (uk)

UF nuclear installations inspectorate

UF uk nuclear installations inspectorate

\*BT1 united kingdom organizations

**uk nuclear installations inspectorate**

INIS: 1993-11-10; ETDE: 1983-07-07

USE uk nii

**uk royal naval college-jason reactor**

1993-11-10

USE jason reactor

**UKAEA**

UF uk atomic energy authority

\*BT1 united kingdom organizations

NT1 aere

NT1 culham laboratory

RT united kingdom

**ukaea-dido reactor**

USE dido reactor

**ukaea-juno reactor**

USE junjo reactor

**ukaea-lido reactor**

USE lido reactor

**ukaea-merlin reactor**

2000-04-12

USE merlin reactor

**ukaea-nestor reactor**

USE nestor reactor

**UKNR REACTOR**

2000-04-12

Univ. of Kansas, Lawrence, Kansas, USA.

UF university of kansas nuclear reactor

\*BT1 enriched uranium reactors

\*BT1 isotope production reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

**UKRAINE**

INIS: 1997-08-20; ETDE: 1993-02-08

(Until January 1993, this was indexed by UKRAINIAN SSR.)

UF ukrainian sssr

SF soviet union

SF union of soviet socialist republics

SF ussr

\*BT1 eastern europe

NT1 crimea

RT black sea

RT danube river

RT dneiper river

RT pripet river

**UKRAINIAN ORGANIZATIONS**

INIS: 1999-07-08; ETDE: 1999-08-30

BT1 national organizations

**ukrainian sssr**

1993-02-02

(Until January 1993, this was a valid descriptor.)

USE ukraine

**ulcc**

INIS: 2000-04-12; ETDE: 1976-08-04

USE tanker ships

**ULCERS**

BT1 pathological changes

RT fistulae

RT gangrene

RT necrosis

**ULCHIN-1 REACTOR**

1991-07-02

Ulchin, Republic of Korea.

UF knu-9 reactor

UF uljin-1 reactor

\*BT1 pwr type reactors

**ULCHIN-2 REACTOR**

1991-07-02

Ulchin, Republic of Korea.

UF knu-10 reactor

UF uljin-2 reactor

\*BT1 pwr type reactors

**ULCHIN-3 REACTOR**

INIS: 1997-10-03; ETDE: 1998-02-24

Ulchin, Republic of Korea.

\*BT1 pwr type reactors

**ULCHIN-4 REACTOR**

*INIS: 1997-10-03; ETDE: 1998-02-24*

*Ulchin, Republic of Korea.*

\*BT1 pwr type reactors

**uljin-1 reactor**

*1991-07-02*

USE ulchin-1 reactor

**uljin-2 reactor**

*1991-07-02*

USE ulchin-2 reactor

**ultimate storage**

*INIS: 1982-12-06; ETDE: 2002-05-11*

USE waste disposal

**ULTIMATE STRENGTH**

*1980-05-14*

UF strength (ultimate)

BT1 mechanical properties

RT tensile properties

**ULTRACENTRIFUGATION**

\*BT1 centrifugation

RT cell constituents

RT centrifuge enrichment plants

RT gas centrifugation

RT subcellular distribution

**ultracentrifuge enrichment plants**

*INIS: 1978-02-23; ETDE: 1978-04-27*

USE centrifuge enrichment plants

**ULTRACENTRIFUGES**

\*BT1 centrifuges

RT centrifugation

RT gas centrifuges

RT isotope separation

**ULTRACOLD NEUTRONS**

\*BT1 cold neutrons

RT neutron converters

RT neutron guides

**ULTRAFILTRATION**

\*BT1 filtration

RT filters

RT glomeruli

RT sampling

**ultrahigh frequency (lower range)**

*1993-11-10*

USE ghz range 01-100

**ultrahigh frequency (upper range)**

*1993-11-10*

USE ghz range 100-1000

**ultrahigh frequency radiation (01-100 ghz)**

*1993-11-10*

USE ghz range 01-100

USE radiowave radiation

**ultrahigh frequency radiation (100-1000 mhz)**

*1993-11-10*

USE mhz range 100-1000

USE radiowave radiation

**ultrahigh frequency radiation (lower range)**

*1993-11-10*

USE mhz range 100-1000

USE radiowave radiation

**ultrahigh frequency radiation (upper range)**

*1993-11-10*

USE ghz range 01-100

USE radiowave radiation

**ULTRAHIGH-SPEED PHOTOGRAPHY**

BT1 photography

**ultrahigh temperature**

*1992-07-03*

(Prior to February 1992, this was a valid ETDE descriptor.)

USE temperature range over 4000 k

**ultrahigh temperature reactor experiment**

*1993-11-10*

USE ultrex reactor

**ultrahigh vacuum**

(Prior to November 2003 this was a valid descriptor.)

SEE pressure range below 1 nano pa

SEE pressure range micro pa

SEE pressure range nano pa

**ultrahigh voltage alternating current systems**

*INIS: 2000-04-12; ETDE: 1976-05-17*

USE uhv ac systems

**ultrahigh voltage dc systems**

*INIS: 1992-03-09; ETDE: 2002-05-11*

USE uhv dc systems

**ultrahigh voltage direct current systems**

*INIS: 2000-04-12; ETDE: 1976-05-17*

USE uhv dc systems

**ULTRALOW FREQUENCY RADIATION**

\*BT1 electromagnetic radiation

**ultralow temperature**

*1992-01-23*

(Prior to February 1992, this was a valid ETDE descriptor.)

USE temperature range 0000-0013 k

**ultramarine**

*1996-07-15*

(Until June 1996 this was a valid descriptor.)

USE pigments

**ULTRASONIC BUBBLE CHAMBERS**

\*BT1 bubble chambers

**ULTRASONIC MACHINING**

BT1 machining

**ULTRASONIC TESTING**

\*BT1 acoustic testing

RT acoustic measurements

RT ultrasonic waves

**ULTRASONIC WAVES**

UF ultrasonics

BT1 sound waves

RT cavitation

RT ultrasonic testing

RT ultrasonography

**ULTRASONIC WELDING**

\*BT1 welding

**ultrasonics**

USE ultrasonic waves

**ULTRASONOGRAPHY**

*INIS: 1986-05-26; ETDE: 1978-09-11*

UF echography

BT1 diagnostic techniques

RT ultrasonic waves

**ULTRASTRUCTURAL CHANGES**

BT1 morphological changes

RT biological repair

RT cell constituents

RT cytology

RT electron microscopy

RT photoreactivation

**ULTRAVIOLET DIVERGENCES**

UF divergences (ultraviolet)

RT quantum electrodynamics

**ULTRAVIOLET RADIATION**

\*BT1 electromagnetic radiation

NT1 extreme ultraviolet radiation

NT1 far ultraviolet radiation

NT1 near ultraviolet radiation

RT photoreactivation

RT raman effect

RT ultraviolet spectra

**ULTRAVIOLET SPECTRA**

*2000-05-22*

BT1 spectra

NT1 extreme ultraviolet spectra

RT absorption spectroscopy

RT electronic structure

RT structural chemical analysis

RT ultraviolet radiation

**ULTRAVIOLET SPECTROMETERS**

*INIS: 1978-08-14; ETDE: 1978-10-19*

\*BT1 spectrometers

**ULVA**

\*BT1 algae

**ulyanovsk reactor vk-50**

USE vk-50 reactor

**ULYSSE REACTOR**

*INSTN, CEN, Saclay, France.*

\*BT1 argonaut type reactors

\*BT1 thermal reactors

\*BT1 training reactors

**UMKLAPP PROCESSES**

UF u processes

\*BT1 electromagnetic interactions

RT crystals

RT electric conductivity

RT electrons

RT phonons

RT thermal conductivity

**umm al qaiwan**

*INIS: 1992-05-07; ETDE: 1976-08-05*

USE united arab emirates

**UMNE-1 REACTOR**

*Univ. of Maryland, College Park, Maryland, USA.*

UF maryland univ. reactor

UF umr reactor

UF university of maryland reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**umohoite**

*1996-07-15*

(Until June 1996 this was a valid descriptor.)

USE oxide minerals

USE uranium minerals

**UMP**

*1982-02-09*

UF uridine monophosphate

\*BT1 nucleotides

RT uridine

**umr reactor**

USE umne-1 reactor

**UMRR REACTOR**

Univ. of Missouri-Rolla, Rolla, Missouri, USA.

UF missouri school of mines reactor  
UF missouri university/rolla research reactor

UF msmr reactor

UF rolla research reactor

UF university of missouri/rolla research reactor

\*BT1 enriched uranium reactors

\*BT1 pool type reactors

\*BT1 research reactors

\*BT1 thermal reactors

\*BT1 training reactors

**un scientific committee on effects of atomic radiation**

INIS: 1993-11-10; ETDE: 2002-05-11

USE unscar

**unbihexium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 126

**unbinilium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 120

**unbioctium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 128

**uncertainty in data values**

INIS: 1985-12-10; ETDE: 1981-08-21

USE data covariances

**UNCERTAINTY PRINCIPLE**

UF heisenberg principle

RT quantum mechanics

**uncorrelated-jet model**

INIS: 1976-08-17; ETDE: 1976-11-02

USE jet model

**UNCORRELATED-PARTICLE MODEL**

\*BT1 particle models

RT jet model

**UNDERGROUND**

(From November 1976 till March 1997

UNDERGROUND SPACE was a valid ETDE descriptor.)

SF subsurface environments

SF underground space

BT1 levels

RT aquifers

RT ground water

RT soils

RT underground storage

**underground buildings**

INIS: 2000-04-12; ETDE: 1977-09-19

USE earth-covered buildings

**UNDERGROUND DISPOSAL**

For disposal of wastes deep underground.

SF waste burial

\*BT1 waste disposal

RT asse salt mine

RT backfilling

RT boom clay

RT disposal wells

RT gases

RT gorleben salt dome

RT ground cover

RT ground disposal

RT hydraulic conductivity

RT konrad ore mine

RT morsleben salt mine

RT radioactive waste disposal

RT reinjection

RT salt deposits

RT shaft excavations

RT underground facilities

**UNDERGROUND EXPLOSIONS**

1996-07-23

(The UF references have been valid ETDE descriptors.)

UF agrini event

UF almendro event

UF baneberry event

UF benham event

UF bowline operation

UF boxcar event

UF calabash event

UF cannikin event

UF carpetbag event

UF dining car event

UF emery operation

UF essex i project

UF faultless event

UF flintlock operation

UF fulcrum operation

UF fusileer operation

UF greeley event

UF halfbeak event

UF handcar event

UF handley event

UF husky ace event

UF hutch event

UF jorum event

UF latir event

UF marvel event

UF mighty epic event

UF milrow event

UF miniata event

UF palanquin event

UF pin stripe event

UF portmanteau event

UF redmud event

UF rulison event

UF schooner event

UF scotch event

UF tybo event

BT1 explosions

NT1 arbor project

NT1 contained explosions

NT1 crosstie operation

NT2 gasbuggy event

NT1 grommet operation

NT1 latchkey operation

NT1 mandrel operation

NT1 nougat operation

NT1 sun beam operation

NT1 toggle operation

NT2 rio blanco event

NT1 whetstone operation

RT anvil project

RT bedrock project

RT cavities

RT chemical explosions

RT chimneys

RT cratering explosions

RT craters

RT explosive fracturing

RT explosive stimulation

RT ground motion

RT in-country detection

RT in-situ processing

RT landslides

RT mining

RT nuclear excavation

RT nuclear explosion detection

RT nuclear explosions

RT plowshare project

RT praetorian project

RT rayleigh waves

RT seismic detection

RT seismic effects

RT seismic p waves

RT seismic s waves

RT seismic waves

RT seismographs

RT seismology

RT thunderbird project

RT underground mining

RT underwater explosions

RT upshot project

RT vela project

**UNDERGROUND FACILITIES**

INIS: 1986-07-09; ETDE: 1982-05-12

(From November 1976 till March 1997

UNDERGROUND SPACE was a valid ETDE descriptor.)

UF facilities (underground)

SF underground space

NT1 hades underground research facility

NT1 mines

NT2 asse salt mine

NT2 coal mines

NT2 konrad ore mine

NT2 uranium mines

NT3 beaverlodge mine

NT3 cluff lake mine

NT3 key lake mine

NT3 mary kathleen mines

NT3 olympic dam mine

NT3 osamu utsumi mine

NT3 rum jungle mine

NT3 stanleigh mine

NT1 tunnels

NT2 mine roadways

NT1 underground nuclear stations

NT1 wipp

RT energy facilities

RT fallout shelters

RT nuclear facilities

RT subsurface structures

RT sudbury neutrino observatory

RT underground disposal

RT underground storage

**underground gasification**

INIS: 2000-04-12; ETDE: 1978-05-03

USE in-situ gasification

**underground heat distribution systems**

INIS: 2000-05-04; ETDE: 1976-05-17

USE heat distribution systems

**UNDERGROUND MINING**

1997-06-17

BT1 mining

NT1 advance mining

NT1 caving mining

NT1 longwall mining

NT1 retreat mining

NT1 room and pillar mining

NT1 shortwall mining

NT1 slice mining

RT caving

RT coal mining

RT cratering explosions

RT excavation

RT fracturing

RT mine draining

RT mine drivage

RT mine roadways

RT mine shafts

RT mines

RT mining engineering

RT modified in-situ processes

RT oil shale mining  
 RT panels  
 RT stowing  
 RT strata movement  
 RT surface mining  
 RT tunneling  
 RT underground explosions

**underground nuclear power plants**

USE underground nuclear stations

**UNDERGROUND NUCLEAR STATIONS**

UF *underground nuclear power plants*  
 \*BT1 nuclear power plants  
 BT1 underground facilities  
 RT power reactors  
 RT reactor sites

**UNDERGROUND POWER TRANSMISSION**

1993-03-18

BT1 power transmission  
 RT power systems

**underground space**

INIS: 2000-04-12; ETDE: 1976-11-17

(Prior to March 1997 this was a valid ETDE descriptor.)

SEE cavities  
 SEE underground  
 SEE underground facilities

**UNDERGROUND STORAGE**

INIS: 1977-06-13; ETDE: 1976-11-17

BT1 storage  
 RT cavities  
 RT energy storage  
 RT geologic deposits  
 RT strategic petroleum reserve  
 RT subsurface structures  
 RT underground  
 RT underground facilities  
 RT us naval petroleum reserves  
 RT waste storage

**UNDERWATER**

BT1 levels  
 RT dumand project  
 RT underwater operations

**UNDERWATER EXPLOSIONS**

UF *swordfish event*  
 BT1 explosions  
 RT crossroads project  
 RT dominic project  
 RT nuclear excavation  
 RT nuclear explosions  
 RT underground explosions

**UNDERWATER FACILITIES**

INIS: 1999-03-12; ETDE: 1977-03-08

UF *facilities (underwater)*  
 RT diving operations  
 RT dumand project  
 RT manipulators  
 RT offshore operations  
 RT underwater operations

**UNDERWATER OPERATIONS**

INIS: 1992-10-20; ETDE: 1977-03-08

NT1 diving operations  
 RT manipulators  
 RT offshore operations  
 RT underwater  
 RT underwater facilities

**underwater vehicles**

INIS: 2000-04-12; ETDE: 1977-01-28

USE submarines

**UNDP**

INIS: 2005-12-19; ETDE: 2006-01-25  
 UF *united nations development program*  
 BT1 international organizations  
 RT united nations

**undulators**

INIS: 1987-08-27; ETDE: 1987-10-02  
 USE wiggler magnets

**unemployment**

INIS: 1993-01-27; ETDE: 1977-08-09  
 USE employment

**UNEP**

INIS: 1999-08-16; ETDE: 2002-05-11  
*United Nations Environmental Programme.*  
 BT1 international organizations  
 RT united nations

**UNESCO**

INIS: 1975-11-07; ETDE: 1975-12-16  
*United Nations Educational, Scientific and Cultural Organization.*  
 BT1 international organizations  
 RT united nations

**UNFINISHED OILS**

INIS: 2000-04-12; ETDE: 1979-12-10  
*All petroleum requiring further refinery processing.*  
 BT1 petroleum products

**UNGLAZED SOLAR COLLECTORS**

INIS: 2000-04-12; ETDE: 1979-02-27  
 \*BT1 solar collectors

**UNH**

ETDE: 1978-03-08  
 UF *uranyl nitrate hexahydrate*  
 BT1 hydrates  
 \*BT1 uranyl nitrates

**unhexquadium**

INIS: 1985-12-10; ETDE: 2002-05-11  
 USE element 164

**UNICELLULAR ALGAE**

\*BT1 algae  
 BT1 microorganisms  
 NT1 chlamydomonas  
 NT1 chlorella  
 NT1 euglena  
 NT1 scenedesmus  
 RT plankton

**unicracking/hds process**

INIS: 2000-04-12; ETDE: 1982-05-12  
*Fixed-bed catalytic process for desulfurization of crudes and resides in the presence of hydrogen.*  
 USE desulfurization

**UNIDIR**

1999-01-26  
 UF *united nations institute for disarmament research*  
 BT1 international organizations  
 RT arms control  
 RT nuclear weapons  
 RT united nations

**UNIDO**

INIS: 1988-06-22; ETDE: 1988-07-15  
*United Nations Industrial Development Organization.*  
 BT1 international organizations  
 RT austria  
 RT united nations

**UNIFIED-FIELD THEORIES**

INIS: 1995-08-10; ETDE: 1983-03-24  
*To be used for theories unifying gravitation with other interactions. For quantum field theory involving only electromagnetic, weak and strong interactions see GRAND UNIFIED THEORY.*

(Prior to April 1983 this concept was indexed by EINSTEIN-SCHROEDINGER THEORY.)

BT1 field theories  
 NT1 einstein-schroedinger theory  
 NT1 kaluza-klein theory  
 NT1 supergravity  
 NT1 weinberg-salam gauge model  
 NT1 weyl unified theory  
 RT basic interactions  
 RT grand unified theory  
 RT gravitation  
 RT quantum gravity  
 RT supersymmetry  
 RT twistor theory  
 RT unified gauge models

**UNIFIED GAUGE MODELS**

1995-08-10

\*BT1 particle models  
 \*BT1 quantum field theory  
 NT1 grand unified theory  
 NT2 standard model  
 NT1 weinberg-salam gauge model  
 RT gauge invariance  
 RT inflationary universe  
 RT kaluza-klein theory  
 RT unified-field theories

**UNIFIED MODEL**

\*BT1 nuclear models

**UNILAC**

1975-10-09

\*BT1 heavy ion accelerators  
 \*BT1 linear accelerators

**UNINTERRUPTIBLE POWER****SUPPLIES**

2006-09-25

UF *ups*  
 \*BT1 power supplies

**union carbide waste processing system**

INIS: 2000-04-12; ETDE: 1975-11-26  
 USE purox pyrolysis process

**union of soviet socialist republics**

2000-04-12

*All the constituents of the former USSR are listed below; use one or more as required.*  
 (Prior to September 1997 USSR was used for this concept.)

SEE armenia  
 SEE azerbaijan  
 SEE belarus  
 SEE estonia  
 SEE kazakhstan  
 SEE kyrgyzstan  
 SEE latvia  
 SEE lithuania  
 SEE moldova  
 SEE republic of georgia  
 SEE russian federation  
 SEE tajikistan  
 SEE turkmenistan  
 SEE ukraine  
 SEE uzbekistan

**UNION OIL PROCESS**

2000-04-12

*A shale retorting process of the direct-heated type, using air injected into a moving bed of*

*coarsely crushed shale to support combustion to supply process heat.*

RT oil shales

### **unipolar transistors**

USE field effect transistors

### **unisist**

1996-07-15

(Until June 1996 this was a valid descriptor.)

SEE information retrieval

SEE information systems

### **UNISULF PROCESS**

INIS: 2000-04-12; ETDE: 1983-03-23

*Involves Union Oil proprietary solvent used in their Stretford units.*

\*BT1 desulfurization

\*BT1 waste processing

### **unit tenaga nuklear (malaysia)**

INIS: 1985-10-23; ETDE: 1985-11-13

USE puspati

### **UNITARITY**

RT nonunitary representations

RT s matrix

RT unitary symmetry

### **UNITARY POLE APPROXIMATION**

\*BT1 approximations

RT k matrix

RT many-body problem

RT s matrix

### **UNITARY SYMMETRY**

BT1 symmetry

RT su groups

RT u groups

RT unitarity

### **UNITED ARAB EMIRATES**

INIS: 1992-05-07; ETDE: 1976-08-04

UF abu dhabi

UF ajman

UF dubai

UF fujaira

UF ras al khaima

UF sharja

UF umm al qaiwan

BT1 arab countries

BT1 asia

RT oapec

RT opec

### **united arab republic**

USE egyptian arab republic

### **united arab republic wwr-c reactor**

1993-11-10

USE wwr-s-cairo reactor

### **UNITED KINGDOM**

1995-04-03

UF england

UF great britain

UF northern ireland

UF scotland

SF gibraltar

BT1 developed countries

\*BT1 western europe

RT bermuda

RT hbt devices

RT irish sea

RT oecd

RT severn river

RT ukaea

### **UNITED KINGDOM**

#### **ORGANIZATIONS**

BT1 national organizations

NT1 bnfl

NT1 british coal

NT1 ncsr

NT1 nrpb

NT1 uk national physical laboratory

NT1 uk nii

NT1 ukaea

NT2 aere

NT2 culham laboratory

### **UNITED NATIONS**

1998-06-10

BT1 international organizations

RT ctbto

RT fao

RT iaea

RT ilo

RT imo

RT undp

RT unep

RT unesco

RT unidir

RT unido

RT unscar

RT who

RT wmo

### **united nations development program**

INIS: 2005-12-19; ETDE: 2006-01-25

USE undp

### **united nations institute for disarmament research**

2006-01-31

USE unidir

### **united nuclear corporation proof test reactor**

2000-04-12

USE ptf-unc reactor

### **UNITED REPUBLIC OF TANZANIA**

(Prior to July 2003, the shorter form

TANZANIA was used.)

UF tanzania (united republic of)

BT1 africa

BT1 developing countries

### **united states of america**

USE usa

### **united states uranium registry**

INIS: 1994-02-28; ETDE: 1981-07-06

USE usur

### **UNITHIOL**

\*BT1 dithiols

\*BT1 sulfonic acids

RT dimercaprol

### **UNITON**

\*BT1 natural units

RT gravitational fields

RT gravitons

### **UNITS**

NT1 degree days

NT1 natural units

NT2 uniton

NT1 radiation dose units

NT1 reactivity units

NT2 dollars

NT2 inhours

NT1 si units

### **UNIVAC COMPUTERS**

BT1 computers

### **universal blackbody radiation**

USE blackbody radiation

### **UNIVERSE**

UF cosmos

UF metagalaxy

RT cosmological models

RT cosmology

RT galactic evolution

RT hubble effect

RT intergalactic space

RT nonluminous matter

RT relict radiation

### **universite catholique louvain cyclotron**

INIS: 1993-11-10; ETDE: 2002-05-11

USE cyclone cyclotron

### **universities**

INIS: 1983-06-30; ETDE: 1983-07-20

USE educational facilities

### **university minas gerais triga reactor**

1993-11-10

USE triga-brazil reactor

### **university of alberta slowpoke reactor**

INIS: 1993-11-03; ETDE: 1980-01-24

USE slowpoke-alberta reactor

### **university of california, berkeley triga reactor**

INIS: 1993-11-10; ETDE: 2002-05-11

USE ucbr reactor

### **university of california / los angeles**

1993-11-10

USE ucla

### **university of california berkeley reactor**

2000-04-12

USE ucbr reactor

### **university of california irvine reactor**

1993-11-10

USE triga-1-california reactor

### **university of california lawrence radiation laboratory**

1993-11-10

USE lawrence berkeley laboratory

### **university of florida reactor**

2000-04-12

USE uftr reactor

### **university of illinois lopra reactor**

2000-04-12

USE lopra reactor

### **university of illinois triga-mk-2 reactor**

INIS: 1993-11-10; ETDE: 2002-05-11

USE triga-2-illinois reactor

### **university of illinois triga-mk-ii reactor**

2000-04-12

USE triga-2-illinois reactor

### **university of kansas nuclear reactor**

2000-04-12

USE uknr reactor

### **university of maryland reactor**

2000-04-12

USE umne-1 reactor

### **university of missouri/columbia research reactor**

1993-11-10

USE murr reactor

**university of missouri/rolla research reactor**

1993-11-10

USE umrr reactor

**university of montreal slowpoke reactor**

INIS: 1993-11-10; ETDE: 1980-01-24

USE slowpoke-montreal reactor

**university of nevada l-77 reactor**

2000-04-12

USE nevada university reactor

**university of teheran research reactor**

1993-11-10

USE utrr reactor

**university of texas triga reactor**

1993-11-10

USE triga-texas reactor

**university of toronto slowpoke reactor**

INIS: 1993-11-10; ETDE: 1980-01-24

USE slowpoke-toronto reactor

**university of virginia reactor**

2000-04-12

USE uvar reactor

**university of washington reactor**

2000-04-12

USE uwtr reactor

**university of wisconsin nuclear reactor**

1993-11-10

USE uwnr reactor

**university of wisconsin tokamak**

2000-04-12

USE uwmak devices

**university training reactor queen mary**

1993-11-10

USE queen mary college utr-b reactor

**UNLEADED GASOLINE**

INIS: 1992-07-21; ETDE: 1976-11-01

UF lead-free gasoline

\*BT1 gasoline

RT gasoline service stations

**UNLOADING**

INIS: 1997-06-05; ETDE: 1978-06-14

(Until June 1997 this concept was indexed to MATERIALS HANDLING.)

BT1 materials handling

RT loading

**unloading (fission reactor)**

INIS: 1982-11-29; ETDE: 2002-05-11

USE reactor fueling

**unloading (reactor)**

2000-04-12

USE reactor fueling

**unnilemium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE meitnerium

**unnihexium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE seaborgium

**unniloctium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE hassium

**unnilpentium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE dubnium

**unnilquadium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE rutherfordium

**unnilseptium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE bohrium

**unobserved matter**

INIS: 1985-01-17; ETDE: 2002-05-11

In outer space.

USE nonluminous matter

**unpinch devices**

USE linear hard core pinch devices

**unquadpentium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 145

**UNSCLEAR**

INIS: 1975-10-09; ETDE: 1975-12-16

United Nations Scientific Committee on Effects of Atomic Radiation.

UF un scientific committee on effects of atomic radiation

BT1 international organizations

RT dose limits

RT radiation hazards

RT united nations

**UNSEALED SOURCES**

BT1 radiation sources

RT internal irradiation

RT radionuclide kinetics

**unseen matter**

INIS: 1985-01-17; ETDE: 2002-05-11

In outer space.

USE nonluminous matter

**unsepttrium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 173

**unsolicited proposals**

INIS: 2000-04-12; ETDE: 1983-05-21

USE proposals

**UNSTEADY FLOW**

BT1 fluid flow

**UNTERWESER REACTOR**

UF kku reactor

\*BT1 pwr type reactors

**untriquadium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 134

**ununbium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 112

**ununennium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 119

**ununhexium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 116

**ununnilium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE darmstadtium

**ununoctium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 118

**ununpentium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 115

**ununquadium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 114

**ununseptium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 117

**ununtrium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE element 113

**unununium**

INIS: 1985-12-10; ETDE: 2002-05-11

USE roentgenium

**upper volta**

(Prior to February 2005 this was a valid descriptor.)

USE burkina faso

**UPPSALA SYNCHROCYCLOTRON**

\*BT1 synchrocyclotrons

RT celsius storage ring

**ups**

2006-09-25

USE uninterruptible power supplies

**UPSHOT PROJECT**

UF project upshot

RT nuclear explosions

RT underground explosions

**upsilon-10000 resonances**

INIS: 1987-12-21; ETDE: 1979-09-06

(Prior to December 1987 this was a valid descriptor.)

USE upsilon-10023 mesons

**UPSILON-10023 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

(Prior to December 1987 this concept was indexed by UPSILON-10000 RESONANCES.)

UF upsilon-10000 resonances

\*BT1 bottomonium

\*BT1 vector mesons

**upsilon-10350 resonances**

INIS: 1987-12-21; ETDE: 1983-04-28

(Prior to December 1987 this was a valid descriptor.)

USE upsilon-10355 mesons

**UPSILON-10355 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

(Prior to December 1987 this concept was indexed by UPSILON-10350 RESONANCES.)

UF upsilon-10350 resonances

\*BT1 bottomonium

\*BT1 vector mesons

**upsilon-10500 resonances**

INIS: 1987-12-21; ETDE: 1978-12-20

(Prior to December 1987 this was a valid descriptor.)

USE upsilon-10580 mesons

**upsilon-10575 mesons**

INIS: 1995-08-07; ETDE: 1988-02-02

(From December 1987 until July 1995 this was a valid term.)

USE upsilon-10580 mesons



**UPSILON-10580 MESONS**

1995-08-07

(Until December 1987 this concept was indexed by UPSILON-10500 RESONANCES; from then until July 1995 it was indexed by UPSILON-10575 MESONS.)

UF *epsilon-10500 resonances*UF *epsilon-10575 mesons*

\*BT1 bottomonium

\*BT1 vector mesons

**UPSILON-10860 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

\*BT1 bottomonium

\*BT1 vector mesons

**UPSILON-11020 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-02

\*BT1 bottomonium

\*BT1 vector mesons

**UPSILON-9460 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by UPSILON-9500 RESONANCES.)

UF *epsilon-9500 resonances*

\*BT1 bottomonium

\*BT1 vector mesons

**upsilon-9500 resonances**

INIS: 1987-12-21; ETDE: 1978-07-05

(Prior to December 1987 this was a valid descriptor.)

USE *epsilon-9460 mesons***upsilon resonances**

INIS: 1988-03-08; ETDE: 1978-02-14

(Prior to December 1987 this was a valid descriptor.)

SEE *bottomonium*SEE *vector mesons***UPTAKE**UF *incorporation (biological)*NT1 *foliar uptake*NT1 *intestinal absorption*NT1 *root absorption*NT1 *skin absorption*RT *biological availability*RT *intake*RT *phosphoenolpyruvate*RT *radionuclide kinetics*RT *rectal administration*RT *retention***UPWELLING**

INIS: 1993-02-18; ETDE: 1977-11-09

*The process by which water rises from a deeper to a shallower depth.*

RT *downwelling*RT *oceanic circulation*RT *water currents***URACH GEOTHERMAL FIELD**

INIS: 2000-04-12; ETDE: 1984-09-05

*Located in the Schwabian Alb, Federal Republic of Germany.*

BT1 *geothermal fields*RT *federal republic of germany***uracil-6-carboxylic acid**USE *orotic acid***URACILS**\*BT1 *hydroxy compounds*\*BT1 *pyrimidines*NT1 *bromouracils*NT2 *budr*NT1 *chlorouracils*NT1 *deoxyuridine*NT1 *fluorouracils*NT2 *fudr*NT1 *iodouracils*NT2 *iododeoxyuridine*NT1 *orotic acid*NT1 *thiouracil*NT1 *thymine*NT1 *uridine*RT *uridine diphosphoglucose*RT *uridylic acid***urad jadroveho dozoru slovenskej****republiky**

2002-12-17

USE *ujd***uragan-2 stellarator**

INIS: 1984-06-21; ETDE: 2002-05-24

USE *uragan stellarator***uragan-3 stellarator**

INIS: 1984-06-21; ETDE: 2002-05-24

USE *torsatron stellarators***URAGAN STELLARATOR**UF *uragan-2 stellarator*\*BT1 *stellarators***ural computers**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE *computers***ural mountains**

INIS: 2000-04-12; ETDE: 1976-05-17

USE *urals***URALS**UF *ural mountains*BT1 *mountains*RT *kazakhstan*RT *russian federation***urals atomic power station**SEE *belyarsk-1 reactor*SEE *belyarsk-2 reactor*SEE *belyarsk-3 reactor***URANATES**

1996-07-23

UF *bismuth uranates*UF *thallium uranates*\*BT1 *uranium compounds*NT1 *ammonium uranates*NT2 *adu*NT1 *cesium uranates*NT1 *lithium uranates*NT1 *potassium uranates*NT1 *rubidium uranates*NT1 *sodium uranates*NT1 *strontium uranates***URANINITES**\*BT1 *oxide minerals*\*BT1 *uranium minerals*NT1 *broeggerite*NT1 *pitchblende*RT *black sands*RT *thucholite***URANIUM**\*BT1 *actinides*NT1 *depleted uranium*NT1 *enriched uranium*NT2 *highly enriched uranium*NT2 *moderately enriched uranium*NT2 *slightly enriched uranium*NT1 *natural uranium*NT1 *uranium-alpha*NT1 *uranium-beta*NT1 *uranium-gamma*RT *feed materials plants*RT *natural radioactivity*RT *nuclear fuels*RT *uranium ores*RT *uranium recycle*RT *uranium requirements***URANIUM 218**

1992-07-06

\*BT1 *actinide nuclei*\*BT1 *alpha decay radioisotopes*\*BT1 *even-even nuclei*\*BT1 *milliseconds living radioisotopes*\*BT1 *uranium isotopes***URANIUM 219**

1993-06-25

\*BT1 *actinide nuclei*\*BT1 *alpha decay radioisotopes*\*BT1 *even-odd nuclei*\*BT1 *microseconds living radioisotopes*\*BT1 *uranium isotopes***URANIUM 222**

INIS: 1986-06-09; ETDE: 1988-12-05

\*BT1 *actinide nuclei*\*BT1 *alpha decay radioisotopes*\*BT1 *even-even nuclei*\*BT1 *microseconds living radioisotopes*\*BT1 *uranium isotopes***URANIUM 223**

1991-07-02

\*BT1 *actinide nuclei*\*BT1 *alpha decay radioisotopes*\*BT1 *even-odd nuclei*\*BT1 *microseconds living radioisotopes*\*BT1 *uranium isotopes***URANIUM 224**

1991-07-02

\*BT1 *actinide nuclei*\*BT1 *alpha decay radioisotopes*\*BT1 *even-even nuclei*\*BT1 *microseconds living radioisotopes*\*BT1 *uranium isotopes***URANIUM 225**

INIS: 1989-07-19; ETDE: 1977-09-19

\*BT1 *actinide nuclei*\*BT1 *alpha decay radioisotopes*\*BT1 *even-odd nuclei*\*BT1 *milliseconds living radioisotopes*\*BT1 *uranium isotopes***URANIUM 226**\*BT1 *actinide nuclei*\*BT1 *alpha decay radioisotopes*\*BT1 *even-even nuclei*\*BT1 *milliseconds living radioisotopes*\*BT1 *uranium isotopes***URANIUM 227**\*BT1 *actinide nuclei*\*BT1 *alpha decay radioisotopes*\*BT1 *even-odd nuclei*\*BT1 *minutes living radioisotopes*\*BT1 *uranium isotopes***URANIUM 228**UF *uranium i*\*BT1 *actinide nuclei*\*BT1 *alpha decay radioisotopes*\*BT1 *electron capture radioisotopes*\*BT1 *even-even nuclei*\*BT1 *minutes living radioisotopes*\*BT1 *uranium isotopes***URANIUM 229**\*BT1 *actinide nuclei*\*BT1 *alpha decay radioisotopes*\*BT1 *electron capture radioisotopes*\*BT1 *even-odd nuclei*\*BT1 *minutes living radioisotopes*\*BT1 *uranium isotopes*

**URANIUM 230**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 uranium isotopes

**URANIUM 231**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 uranium isotopes

**URANIUM 232**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 neon 24 decay radioisotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 uranium isotopes
- \*BT1 years living radioisotopes

**URANIUM 232 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**URANIUM 233**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 neon 24 decay radioisotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 uranium isotopes
- \*BT1 years living radioisotopes

**URANIUM 233 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**URANIUM 234**

- UF uranium ii*
- \*BT1 actinide nuclei
  - \*BT1 alpha decay radioisotopes
  - \*BT1 even-even nuclei
  - \*BT1 magnesium 28 decay radioisotopes
  - \*BT1 neon 24 decay radioisotopes
  - \*BT1 spontaneous fission radioisotopes
  - \*BT1 uranium isotopes
  - \*BT1 years living radioisotopes

**URANIUM 234 TARGET**

*ETDE: 1976-07-12*  
BT1 targets

**URANIUM 235**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 spontaneous fission radioisotopes
- \*BT1 uranium isotopes
- \*BT1 years living radioisotopes

**URANIUM 235 REACTIONS**

*INIS: 1977-06-14; ETDE: 1977-10-20*  
\*BT1 heavy ion reactions

**URANIUM 235 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**URANIUM 236**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 uranium isotopes

- \*BT1 years living radioisotopes

**URANIUM 236 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**URANIUM 237**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 uranium isotopes

**URANIUM 237 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**URANIUM 238**

- \*BT1 actinide nuclei
- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 spontaneous fission radioisotopes
- \*BT1 uranium isotopes
- \*BT1 years living radioisotopes

**URANIUM 238 BEAMS**

*INIS: 1977-09-15; ETDE: 1977-11-10*  
\*BT1 radioactive ion beams

**URANIUM 238 REACTIONS**

*INIS: 1977-03-01; ETDE: 1977-10-20*  
\*BT1 heavy ion reactions

**URANIUM 238 TARGET**

*ETDE: 1976-07-09*  
*UF natural uranium target*  
BT1 targets

**URANIUM 239**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 uranium isotopes

**URANIUM 239 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**URANIUM 240**

- \*BT1 actinide nuclei
- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 uranium isotopes

**URANIUM 240 TARGET**

*INIS: 1978-07-03; ETDE: 1978-03-08*  
BT1 targets

**URANIUM 241**

- 2004-07-16*
- \*BT1 actinide nuclei
  - \*BT1 beta-minus decay radioisotopes
  - \*BT1 even-odd nuclei
  - \*BT1 minutes living radioisotopes
  - \*BT1 uranium isotopes

**URANIUM 242**

- INIS: 1986-06-09; ETDE: 1979-07-24*
- \*BT1 actinide nuclei
  - \*BT1 beta-minus decay radioisotopes
  - \*BT1 even-even nuclei
  - \*BT1 minutes living radioisotopes
  - \*BT1 uranium isotopes

**URANIUM 243 TARGET**

*INIS: 1992-09-23; ETDE: 1981-08-21*  
BT1 targets

**URANIUM ADDITIONS**

*Alloys containing not more than 1% U are listed here.*

*RT uranium alloys*

**URANIUM ALLOYS**

*Alloys containing more than 1% U.*

- \*BT1 actinide alloys
- NT1 uranium base alloys
- NT2 alloy-u90nb7zr3
- RT uranium additions*

**URANIUM-ALPHA**

- \*BT1 uranium

**URANIUM ARSENIDES**

- \*BT1 arsenides
- \*BT1 uranium compounds

**URANIUM BASE ALLOYS**

- \*BT1 uranium alloys
- NT1 alloy-u90nb7zr3

**URANIUM-BETA**

- \*BT1 uranium

**URANIUM BLACK**

- \*BT1 oxide minerals
- \*BT1 uranium minerals
- RT uranium oxides*

**URANIUM BORIDES**

- \*BT1 borides
- \*BT1 uranium compounds

**URANIUM BOROHYDRIDES**

- 1999-03-08*
- \*BT1 borohydrides
  - \*BT1 uranium compounds

**URANIUM BROMIDES**

- \*BT1 bromides
- \*BT1 uranium compounds

**URANIUM CARBIDES**

- \*BT1 carbides
- \*BT1 uranium compounds
- RT mixed carbide fuels*

**URANIUM CARBONATES**

- 1996-11-13*
- \*BT1 carbonates
  - \*BT1 uranium compounds
  - RT carbonate minerals*
  - RT diderichite*
  - RT uranium minerals*

**URANIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 uranium compounds

**URANIUM COMPLEXES**

- \*BT1 actinide complexes
- NT1 uranyl complexes

**URANIUM COMPOUNDS**

- 1996-11-13*
- UF uranium tungstates*
- BT1 actinide compounds
  - NT1 uranates
  - NT2 ammonium uranates
  - NT3 adu
  - NT2 cesium uranates
  - NT2 lithium uranates
  - NT2 potassium uranates
  - NT2 rubidium uranates
  - NT2 sodium uranates
  - NT2 strontium uranates
  - NT1 uranium arsenides
  - NT1 uranium borides
  - NT1 uranium borohydrides
  - NT1 uranium bromides
  - NT1 uranium carbides

**NT1** uranium carbonates  
**NT1** uranium chlorides  
**NT1** uranium fluorides  
   **NT2** uranium hexafluoride  
   **NT2** uranium pentafluoride  
   **NT2** uranium tetrafluoride  
**NT1** uranium hydrides  
**NT1** uranium hydroxides  
**NT1** uranium iodides  
**NT1** uranium nitrates  
**NT1** uranium nitrides  
**NT1** uranium oxides  
   **NT2** uranium dioxide  
   **NT2** uranium oxides u3o8  
   **NT2** uranium trioxide  
**NT1** uranium perchlorates  
**NT1** uranium peroxide  
**NT1** uranium phosphates  
**NT1** uranium phosphides  
**NT1** uranium selenides  
**NT1** uranium silicates  
**NT1** uranium silicides  
**NT1** uranium sulfates  
**NT1** uranium sulfides  
**NT1** uranium tellurides  
**NT1** uranium vanadates  
**NT1** uranyl compounds  
   **NT2** auc  
   **NT2** uranyl carbonates  
   **NT2** uranyl chlorides  
   **NT2** uranyl fluorides  
   **NT2** uranyl nitrates  
   **NT3** unh  
   **NT2** uranyl perchlorates  
   **NT2** uranyl phosphates  
   **NT2** uranyl silicates  
   **NT2** uranyl sulfates

**URANIUM CONCENTRATES**

1996-07-08

**BT1** ore concentrates  
**\*BT1** uranium ores  
*RT* feed materials plants  
*RT* ore processing

**URANIUM DEPOSITS**

1996-01-25

**BT1** geologic deposits  
**\*BT1** mineral resources  
**NT1** blizzard deposit  
**NT1** erzgebirge deposit  
**NT1** jabiluka deposit  
**NT1** koongarra deposit  
**NT1** nabarlek deposit  
**NT1** ranger deposit  
**NT1** ranstad deposit  
**NT1** roxby downs deposit  
**NT1** south alligator deposit  
**NT1** yeelirrie deposit  
*RT* chattanooga formation  
*RT* geophysical surveys  
*RT* green river formation  
*RT* natural analogue  
*RT* oklo phenomenon  
*RT* radiometric surveys  
*RT* uranium ores  
*RT* wasatch formation

**URANIUM DIOXIDE****\*BT1** uranium oxides**uranium enrichment***INIS: 1975-08-20; ETDE: 2002-05-24*

USE isotope separation

**uranium enrichment plants***INIS: 1976-04-03; ETDE: 2002-05-24*

USE isotope separation plants

**URANIUM FLUORIDES****\*BT1** fluorides

**\*BT1** uranium compounds  
**NT1** uranium hexafluoride  
**NT1** uranium pentafluoride  
**NT1** uranium tetrafluoride

**URANIUM-GAMMA****\*BT1** uranium**URANIUM HEXAFLUORIDE**

**\*BT1** uranium fluorides  
*RT* sequoyah uf6 production plant

**URANIUM HYDRIDES**

**\*BT1** hydrides  
**\*BT1** uranium compounds

**URANIUM HYDROXIDES**

**\*BT1** hydroxides  
**\*BT1** uranium compounds

**uranium i**

USE uranium 228

**uranium ii**

USE uranium 234

**URANIUM INSTITUTE***INIS: 1975-12-09; ETDE: 1976-08-25**An international trade association.***BT1** international organizations**URANIUM IODIDES**

**\*BT1** iodides  
**\*BT1** uranium compounds

**URANIUM IONS****\*BT1** ions**URANIUM ISOTOPES**

1999-07-16

**BT1** isotopes  
**NT1** uranium 218  
**NT1** uranium 219  
**NT1** uranium 222  
**NT1** uranium 223  
**NT1** uranium 224  
**NT1** uranium 225  
**NT1** uranium 226  
**NT1** uranium 227  
**NT1** uranium 228  
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**NT1** uranium 238  
**NT1** uranium 239  
**NT1** uranium 240  
**NT1** uranium 241  
**NT1** uranium 242

**uranium mills***INIS: 1993-09-16; ETDE: 1978-07-05*

USE feed materials plants

**URANIUM MINERALS**

1996-11-13

*UF* andersonite  
*UF* bayleyite  
*UF* boltwoodite  
*UF* carburan  
*UF* cuprosklodowskite  
*UF* curite  
*UF* cyrtolite  
*UF* davidite  
*UF* demesmaekerite  
*UF* dumontite  
*UF* euxenite  
*UF* francevillite

*UF* gummite  
*UF* hatchettolite  
*UF* iriginite  
*UF* johannite  
*UF* lemontovite  
*UF* liebigite  
*UF* masuyite  
*UF* moluranite  
*UF* parsonsite  
*UF* phosphuranylite  
*UF* rutherfordite  
*UF* schroeckingerite  
*UF* sharpite  
*UF* steenstrupine  
*UF* strelkinite  
*UF* umohoite  
*UF* uranocircite  
*UF* uranopilite  
*UF* uranothorianite  
*UF* uranotile  
*UF* zeunerite  
*UF* zippeite  
**\*BT1** radioactive minerals  
**NT1** autunite  
**NT1** bassetite  
**NT1** becquerelite  
**NT1** billietite  
**NT1** brannerite  
**NT1** carnotite  
**NT1** clarkeite  
**NT1** coffinite  
**NT1** compregnacite  
**NT1** dewindtite  
**NT1** diderichite  
**NT1** djalmaite  
**NT1** ekanite  
**NT1** ellsworthite  
**NT1** ferganite  
**NT1** fourmarierite  
**NT1** gastunite  
**NT1** guilleminite  
**NT1** hallimondite  
**NT1** heinrichite  
**NT1** ianthinite  
**NT1** kahlerite  
**NT1** kirchheimerite  
**NT1** lodochnikite  
**NT1** mackintoshite  
**NT1** moctezumite  
**NT1** montroseite  
**NT1** naegite  
**NT1** natroautunite  
**NT1** ningyoite  
**NT1** novacekite  
**NT1** para-schoepite  
**NT1** ranquillite  
**NT1** rauvite  
**NT1** sabugalite  
**NT1** saleeite  
**NT1** schoepite  
**NT1** sengierite  
**NT1** sklodowskite  
**NT1** soddyite  
**NT1** thorianite  
**NT1** thucholite  
**NT1** torbernite  
**NT1** tuyamunite  
**NT1** uraninites  
   **NT2** broeggerite  
   **NT2** pitchblende  
**NT1** uranium black  
**NT1** uranophane  
**NT1** uranothorite  
**NT1** vesuvianite  
*RT* uranium carbonates  
*RT* uranium oxides  
*RT* uranium phosphates  
*RT* uranium silicates  
*RT* uranium sulfates

**URANIUM MINES**

1996-01-24

- \*BT1 mines
- NT1 beaverlodge mine
- NT1 cluff lake mine
- NT1 key lake mine
- NT1 mary kathleen mines
- NT1 olympic dam mine
- NT1 osamu utsumi mine
- NT1 rum jungle mine
- NT1 stanleigh mine
- RT natural analogue

**URANIUM-MOLYBDENUM FUELS**

2004-01-14

- \*BT1 alloy nuclear fuels

**URANIUM NITRATES**

- \*BT1 nitrates
- \*BT1 uranium compounds

**URANIUM NITRIDES**

- \*BT1 nitrides
- \*BT1 uranium compounds
- RT mixed nitride fuels

**uranium ore reserves**

ETDE: 2002-05-24

- USE uranium reserves

**URANIUM ORES**

1996-07-23

- BT1 ores
- NT1 caldasite
- NT1 uranium concentrates
- RT blizzard deposit
- RT chattanooga formation
- RT erzgebirge deposit
- RT green river formation
- RT jabiluka deposit
- RT koongarra deposit
- RT mining
- RT nabarlek deposit
- RT natural nuclear reactors
- RT oklo phenomenon
- RT ranger deposit
- RT ranstad deposit
- RT roxby downs deposit
- RT solution mining
- RT south alligator deposit
- RT thiobacillus ferroxidans
- RT uranium
- RT uranium deposits
- RT uranium reserves
- RT yeelirrie deposit

**uranium oxide fuel plant**

- USE mixed oxide fuel fabrication plants

**URANIUM OXIDES**

1996-11-13

- \*BT1 oxides
- \*BT1 uranium compounds
- NT1 uranium dioxide
- NT1 uranium oxides u3o8
- NT1 uranium trioxide
- RT becquerelite
- RT billietite
- RT brannerite
- RT clarkeite
- RT compregnacite
- RT ellsworthite
- RT ferghanite
- RT fourmarierite
- RT guilleminite
- RT hallimondite
- RT heinrichite
- RT ianthinite
- RT kahlerite
- RT kirchheimerite
- RT lodochnikite

- RT moctezumite
- RT naegite
- RT novacekite
- RT oxide minerals
- RT para-schoepite
- RT rauvite
- RT schoepite
- RT sengierite
- RT thorianite
- RT tyuyamunitite
- RT uranium black
- RT uranium minerals

**URANIUM OXIDES U3O8**

1985-11-18

(Prior to December 1985 the form U3O8 was used.)

- UF u3o8
- UF yellow cake
- \*BT1 uranium oxides

**URANIUM PENTAFLUORIDE**

INIS: 1977-04-07; ETDE: 1977-06-03

- \*BT1 uranium fluorides

**URANIUM PERCHLORATES**

1975-09-01

- \*BT1 perchlorates
- \*BT1 uranium compounds

**URANIUM PEROXIDE**

INIS: 1977-11-21; ETDE: 1980-10-28

(Prior to July 1985 URANIUM PEROXIDES was a valid ETDE descriptor.)

- \*BT1 peroxides
- \*BT1 uranium compounds

**URANIUM PHOSPHATES**

1996-11-13

- \*BT1 phosphates
- \*BT1 uranium compounds
- RT dewindtite
- RT natroautunite
- RT ningyosite
- RT phosphate minerals
- RT sabugalite
- RT saleeite
- RT torbernite
- RT uranium minerals

**URANIUM PHOSPHIDES**

- \*BT1 phosphides
- \*BT1 uranium compounds

**URANIUM RECYCLE**

INIS: 1987-03-24; ETDE: 1987-11-24

- BT1 fuel cycle
- RT fuel cycle centers
- RT uranium

**URANIUM REQUIREMENTS**

INIS: 1982-12-03; ETDE: 1997-01-24

- BT1 demand
- RT uranium

**URANIUM RESERVES**

1986-05-26

- UF uranium ore reserves
- \*BT1 reserves
- RT mineral resources
- RT uranium ores

**URANIUM SELENIDES**

1976-02-05

- \*BT1 selenides
- \*BT1 uranium compounds

**URANIUM SILICATES**

1996-11-13

- \*BT1 silicates
- \*BT1 uranium compounds
- RT ekanite
- RT mackintoshite

- RT ranquillite
- RT silicate minerals
- RT sklodowskite
- RT soddyite
- RT uranium minerals
- RT uranophane
- RT uranothorite

**URANIUM SILICIDES**

- \*BT1 silicides
- \*BT1 uranium compounds

**URANIUM SULFATES**

1996-11-13

- \*BT1 sulfates
- \*BT1 uranium compounds
- RT sulfate minerals
- RT uranium minerals

**URANIUM SULFIDES**

- \*BT1 sulfides
- \*BT1 uranium compounds

**URANIUM TELLURIDES**

1976-02-05

- \*BT1 tellurides
- \*BT1 uranium compounds

**URANIUM TETRAFLUORIDE**

- \*BT1 uranium fluorides

**URANIUM TRIOXIDE**

- \*BT1 uranium oxides

**uranium tungstates**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE tungstates
- USE uranium compounds

**URANIUM VANADATES**

- \*BT1 uranium compounds
- \*BT1 vanadates
- RT carnotite

**uranium x 1**

- USE thorium 234

**uranium x 2**

- USE thorium 231

**uranocircite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE phosphate minerals
- USE uranium minerals

**URANOPHANE**

1976-02-05

- \*BT1 silicate minerals
- \*BT1 uranium minerals
- RT calcium silicates
- RT uranium silicates

**uranopilite**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

- USE uranium minerals

**uranothorianite**

1997-01-28

(Until October 1996 this was a valid descriptor.)

- USE oxide minerals
- USE thorium minerals
- USE uranium minerals

**URANOTHORITE**

- \*BT1 silicate minerals
- \*BT1 thorium minerals

\*BT1 uranium minerals  
 RT thorium silicates  
 RT uranium silicates

**uranotile**

2000-03-29

(Until June 1996 this was a valid descriptor.)

USE silicate minerals  
 USE uranium minerals

**URANUS PLANET**

BT1 planets

**URANYL CARBONATES**

INIS: 1990-07-24; ETDE: 1990-08-06

\*BT1 carbonates  
 \*BT1 uranyl compounds

**URANYL CHLORIDES**

INIS: 1982-06-09; ETDE: 1977-06-21

\*BT1 chlorides  
 \*BT1 uranyl compounds

**URANYL COMPLEXES**

\*BT1 uranium complexes  
 RT uranyl compounds

**URANYL COMPOUNDS**

1996-11-13

UF uranyl tungstates  
 \*BT1 uranium compounds  
 NT1 auc  
 NT1 uranyl carbonates  
 NT1 uranyl chlorides  
 NT1 uranyl fluorides  
 NT1 uranyl nitrates  
 NT2 unh  
 NT1 uranyl perchlorates  
 NT1 uranyl phosphates  
 NT1 uranyl silicates  
 NT1 uranyl sulfates  
 RT uranyl complexes

**URANYL FLUORIDES**

1982-06-09

\*BT1 fluorides  
 \*BT1 uranyl compounds

**uranyl nitrate hexahydrate**

ETDE: 1978-03-08

USE unh

**URANYL NITRATES**

\*BT1 nitrates  
 \*BT1 uranyl compounds  
 NT1 unh

**URANYL PERCHLORATES**

1985-09-06

\*BT1 perchlorates  
 \*BT1 uranyl compounds

**URANYL PHOSPHATES**

INIS: 1978-07-31; ETDE: 1978-09-11

\*BT1 phosphates  
 \*BT1 uranyl compounds

**URANYL SILICATES**

INIS: 1982-02-09; ETDE: 1981-07-06

\*BT1 silicates  
 \*BT1 uranyl compounds

**URANYL SULFATES**

\*BT1 sulfates  
 \*BT1 uranyl compounds

**uranyl tungstates**

INIS: 1997-01-28; ETDE: 1988-12-02

(Until October 1996 this was a valid descriptor.)

USE tungstates  
 USE uranyl compounds

**URBAN AREAS**

(From September 1977 till March 1997  
 PLANNED COMMUNITIES was a valid  
 ETDE descriptor.)

UF cities  
 UF metropolitan areas  
 UF suburbs  
 SF planned communities  
 NT1 atlanta  
 NT1 chattanooga  
 NT1 chicago  
 NT1 cleveland  
 NT1 los alamos  
 NT1 los angeles  
 NT1 new york city  
 NT1 oak ridge  
 NT1 pittsburgh  
 NT1 richland  
 RT aesthetics  
 RT boom towns  
 RT residential sector  
 RT urban populations

**URBAN POPULATIONS**

\*BT1 human populations  
 RT sociology  
 RT urban areas

**urbaryons**

2000-04-12

(This was a valid descriptor for ETDE from  
 May 1975 to March 2006, and for INIS from  
 April 2000 to March 2006.)

USE quarks

**UREA**

UF carbamide  
 \*BT1 amides  
 \*BT1 carbonic acid derivatives  
 RT allantoin  
 RT citrulline  
 RT hydantoins  
 RT nitrosoureas  
 RT urea-formaldehyde foams  
 RT uremia

**UREA-FORMALDEHYDE FOAMS**

INIS: 2000-04-12; ETDE: 1980-02-11

\*BT1 foams  
 RT formaldehyde  
 RT polymers  
 RT thermal insulation  
 RT urea

**UREASE**

Code number 3.5.1.5.

\*BT1 amidases

**ureidoaminovaleric acid**

USE citrulline

**UREMIA**

BT1 symptoms  
 \*BT1 urogenital system diseases  
 RT blood  
 RT kidneys  
 RT urea

**URETERS**

\*BT1 urinary tract

**URETHANE**

\*BT1 carbamates  
 RT polyurethanes

**urethra**

USE urinary tract

**URIC ACID**

UF 8-hydroxyxanthine  
 \*BT1 xanthines  
 RT organic acids

**uricase**

2000-03-29

(Until October 1996 this was a valid  
 descriptor.)

USE nitro-group dehydrogenases

**URIDINE**

\*BT1 nucleosides  
 \*BT1 uracils  
 RT ump  
 RT uridine diphosphoglucose

**URIDINE DIPHOSPHOGLUCOSE**

ETDE: 2005-02-01

(Prior to January 2005 UDPG was used for  
 this concept.)

UF udpg (uridine diphosphoglucose)  
 \*BT1 glycosides  
 \*BT1 nucleotides  
 \*BT1 organic phosphorus compounds  
 RT glucose  
 RT uracils  
 RT uridine

**uridine monophosphate**

1982-02-09

USE ump

**uridine triphosphate**

ETDE: 1975-10-01

USE utp

**URIDYLIC ACID**

\*BT1 nucleotides  
 RT uracils

**urinalysis**

USE qualitative chemical analysis  
 USE urine

**URINARY KETOSTEROIDS**

UF ketosteroids (urinary)  
 RT androgens  
 RT steroids  
 RT urine

**URINARY TRACT**

UF urethra  
 \*BT1 organs  
 NT1 bladder  
 NT1 ureters  
 RT calculi  
 RT excretion  
 RT kidneys  
 RT urine  
 RT urogenital system diseases

**URINE**

UF deoxytydimuria  
 UF urinalysis  
 \*BT1 biological wastes  
 \*BT1 body fluids  
 RT diuretics  
 RT excretion  
 RT kidneys  
 RT urinary ketosteroids  
 RT urinary tract

**urobilinogen**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE heterocyclic acids  
 USE pigments  
 USE pyrroles

**UROCANIC ACID**

\*BT1 heterocyclic acids  
 \*BT1 imidazoles

**urocyon**

INIS: 1993-02-18; ETDE: 1985-03-12

USE foxes

**UROGENITAL SYSTEM DISEASES**

1996-06-28

UF glycosuria  
 UF uterine cervix carcinoma  
 BT1 diseases  
 NT1 gonorrhea  
 NT1 menstruation disorders  
 NT1 nephritis  
 NT1 nephrosclerosis  
 NT1 reproductive disorders  
 NT1 uremia  
 RT diuretics  
 RT endocrine diseases  
 RT female genitals  
 RT gynecology  
 RT kidneys  
 RT male genitals  
 RT syphilis  
 RT urinary tract

**UROKINASE**

Code number 3.4.99.26.

\*BT1 blood coagulation factors  
 \*BT1 fibrinolytic agents  
 \*BT1 nonspecific peptidases  
 RT fibrinolysis

**URONIC ACIDS**

INIS: 2000-04-12; ETDE: 1979-07-18

*Hydrolyzates of hemicellulose; class of compounds similar to sugars, but terminal carbon has been oxidized from an alcohol to a carboxyl group.*

\*BT1 monocarboxylic acids

**UROTOPIN**

UF cystamin  
 UF hexamethylenetetramine  
 \*BT1 amines

**URR REACTOR**

*Universities Research Reactor, Risley, United Kingdom.*

UF manchester liverpool university  
 research reactor

\*BT1 argonaut type reactors  
 \*BT1 test reactors  
 \*BT1 thermal reactors  
 \*BT1 training reactors

**URUGUAY**

BT1 developing countries  
 \*BT1 south america

**URUGUAYAN ORGANIZATIONS**

1996-06-20

BT1 national organizations

**US ACDA**

INIS: 2000-04-12; ETDE: 1986-03-04

UF us arms control and disarmament  
 agency

\*BT1 us organizations  
 RT arms control

**US AEC**

1995-03-28

*Includes all AEC-associated organizations.*

UF us atomic energy commission  
 \*BT1 us organizations  
 NT1 ames laboratory  
 NT1 anl  
 NT1 bettis  
 NT1 bnl  
 NT1 feed materials production center  
 NT1 hapo  
 NT1 idaho chemical processing plant  
 NT1 kapl  
 NT1 lawrence berkeley laboratory  
 NT1 lawrence livermore laboratory  
 NT1 mound laboratory

NT1 ornl  
 NT1 paducah plant  
 NT1 rocky flats plant  
 NT1 sandia laboratories  
 NT1 savannah river plant  
 NT1 sequoyah uf6 production plant  
 NT1 y-12 plant  
 RT regulatory guides  
 RT us doe  
 RT us erda  
 RT us nrc  
 RT usa

**us aec low intensity test reactor**

2000-04-12

USE litr reactor

**us aec low intensity training reactor**

INIS: 1993-11-10; ETDE: 2002-05-24

USE litr reactor

**us aec lptr reactor**

USE lptr reactor

**us aec materials testing reactor-idaho**

1993-11-10

USE mtr reactor

**us aec mrr**

USE mrr reactor

**US AFFIRMATIVE ACTION PROGRAM**

INIS: 2000-04-12; ETDE: 1991-12-18

*A program designed to ensure that positive action is undertaken to overcome under representation of women and minority groups in employment and in post-secondary student bodies, as compared with the composition of the area population.*

(Prior to December 1991 this concept was indexed by AFFIRMATIVE ACTION in ETDE.)

UF affirmative action  
 RT employment  
 RT minority groups  
 RT us federal assistance programs  
 RT women

**us antitrust laws**

INIS: 1994-01-12; ETDE: 1992-02-25

(From February to August 1992 this was a valid ETDE descriptor.)

USE antitrust laws

**us arms control and disarmament agency**

INIS: 2000-04-12; ETDE: 1986-03-04

USE us acda

**us atomic energy commission**

USE us aec

**US BUREAU OF MINES**

INIS: 1977-07-05; ETDE: 1976-11-17

UF bureau of mines (us)

\*BT1 us doi

**US BUREAU OF RECLAMATION**

INIS: 1992-08-13; ETDE: 1991-12-18

(Prior to December 1991 this concept was indexed to BUREAU OF RECLAMATION in ETDE.)

UF bureau of reclamation

\*BT1 us doi

**US CEQ**

INIS: 2000-04-12; ETDE: 1981-03-17

UF council on environmental quality

\*BT1 us organizations

**US CIA**

INIS: 2000-04-12; ETDE: 1980-08-25

UF central intelligence agency  
 \*BT1 us organizations

**us clean air act**

INIS: 1994-01-24; ETDE: 1991-11-05

(From Jan 92 to Jan 94 this was a valid descriptor.)

USE clean air acts

**US CLEAN COAL TECHNOLOGY PROGRAM**

INIS: 1992-02-24; ETDE: 1990-02-28

RT coal preparation  
 RT desulfurization  
 RT pollution control

**us clean water act**

INIS: 1994-01-24; ETDE: 1991-11-05

(From Mar 77 to Jan 94 this was a valid descriptor.)

USE clean water acts

**US COAST GUARD**

INIS: 1992-05-22; ETDE: 1977-08-09

\*BT1 us dot

**US CORPS OF ENGINEERS**

INIS: 1992-05-22; ETDE: 1991-12-18

(Prior to December 1991 this concept was indexed to CORPS OF ENGINEERS in ETDE.)

UF corps of engineers

\*BT1 us dod

**us department of agriculture**

INIS: 2000-04-12; ETDE: 1979-02-23

USE us doa

**us department of commerce**

INIS: 2000-04-12; ETDE: 1979-02-23

USE us doc

**us department of defense**

INIS: 1992-05-21; ETDE: 2002-05-24

USE us dod

**us department of health, education, and welfare**

INIS: 2000-04-12; ETDE: 1979-02-23

USE us hew

**us department of housing and urban development**

INIS: 2000-04-12; ETDE: 1980-08-25

USE us hud

**us department of justice**

INIS: 2000-04-12; ETDE: 1979-02-23

USE us doj

**us department of labor**

INIS: 2000-04-12; ETDE: 1979-02-23

USE us dol

**us department of state**

INIS: 2000-04-12; ETDE: 1979-12-17

USE us dos

**US DEPARTMENT OF TREASURY**

INIS: 1992-04-09; ETDE: 1979-02-23

\*BT1 us organizations

NT1 us irs

**US DEPLETION ALLOWANCES**

INIS: 1992-03-26; ETDE: 1992-02-24

*Deduction allowed to US income tax based on depletion of natural resources such as fossil fuels.*

UF depletion allowances  
 RT financial incentives

RT resource depletion  
RT taxes

**US DOA**

INIS: 1992-06-12; ETDE: 1979-02-23

UF us department of agriculture  
\*BT1 us organizations  
NT1 us forest service  
NT1 us rea

**US DOC**

INIS: 2000-04-12; ETDE: 1979-02-23

UF us department of commerce  
\*BT1 us organizations  
NT1 us nbs

**US DOD**

INIS: 1992-05-21; ETDE: 1977-09-20

UF department of defense  
UF us department of defense  
\*BT1 us organizations  
NT1 us corps of engineers

**US DOE**

INIS: 1997-06-19; ETDE: 1977-08-09

US Department of Energy.

UF technical information center  
UF us doe program management  
\*BT1 us organizations  
NT1 alaska power administration  
NT1 ames laboratory  
NT1 anl  
NT1 atomics international canoga park plant  
NT1 bartlesville energy technology center  
NT1 battelle pacific northwest laboratories  
NT1 bettis  
NT1 bnl  
NT1 bonneville power administration  
NT1 economic regulatory administration  
NT1 environmental measurements laboratory  
NT1 feed materials production center  
NT1 fermilab  
NT1 hanford engineering development laboratory  
NT1 hanford reservation  
NT1 hapo  
NT1 idaho chemical processing plant  
NT1 ineel  
NT1 inhalation toxicology research institute  
NT1 kansas city plant  
NT1 kapl  
NT1 lanl  
NT1 laramie energy research center  
NT1 laramie energy technology center  
NT1 lawrence berkeley laboratory  
NT1 lawrence livermore national laboratory  
NT2 lawrence livermore laboratory  
NT1 morgantown energy technology center  
NT1 mound laboratory  
NT1 national renewable energy laboratory  
NT1 nevada test site  
NT1 oak ridge reservation  
NT1 orgdp  
NT1 ornl  
NT1 paducah plant  
NT1 pantex plant  
NT1 pinellas plant  
NT1 pittsburgh energy technology center  
NT1 portsmouth centrifuge enrichment plant  
NT1 portsmouth gaseous diffusion plant  
NT1 rocky flats plant  
NT1 sandia national laboratories  
NT2 sandia laboratories  
NT1 savannah river plant

NT1 sequoyah uf6 production plant  
NT1 southeastern power administration  
NT1 southwestern power administration  
NT1 stanford linear accelerator center  
NT1 us doe field offices  
NT1 us doe inspector general  
NT1 us energy extension service  
NT1 us energy information administration  
NT1 us ferc  
NT1 us msha  
NT1 us niper  
NT1 usur  
NT1 western area power administration  
NT1 wipp  
NT1 y-12 plant  
RT ucla  
RT us aec  
RT us erda  
RT us fea

**US DOE FIELD OFFICES**

INIS: 1992-08-12; ETDE: 1983-03-24

UF field offices  
UF operations offices  
\*BT1 us doe

**US DOE INSPECTOR GENERAL**

INIS: 1994-09-29; ETDE: 1980-06-06

UF inspector general (us doe)  
\*BT1 us doe  
RT audits

**us doe program management**

INIS: 1992-06-10; ETDE: 1992-02-14

(From February 1992 to January 1993, this was a valid ETDE descriptor.)

USE program management  
USE us doe

**US DOI**

INIS: 1992-05-22; ETDE: 1978-04-06

UF department of interior  
\*BT1 us organizations  
NT1 us bureau of mines  
NT1 us bureau of reclamation  
NT1 us fws  
NT1 us gs  
NT1 us osm

**US DOJ**

INIS: 2000-04-19; ETDE: 1979-02-23

UF justice department  
UF us department of justice  
\*BT1 us organizations  
NT1 federal bureau of investigation

**US DOL**

INIS: 2000-04-12; ETDE: 1979-02-23

UF us department of labor  
\*BT1 us organizations  
NT1 us osha

**US DOS**

INIS: 2000-04-12; ETDE: 1979-12-17

UF us department of state  
\*BT1 us organizations

**US DOT**

INIS: 1979-09-18; ETDE: 1977-08-09

US Department of Transportation.  
UF department of transportation  
\*BT1 us organizations  
NT1 us coast guard  
NT1 us faa

**US EAST COAST**

INIS: 1997-06-17; ETDE: 1991-12-18

(Prior to December 1991 this concept was indexed to EAST COAST in ETDE.)

UF east coast  
\*BT1 usa  
RT atlantic ocean

RT connecticut  
RT delaware  
RT florida  
RT georgia  
RT maine  
RT maryland  
RT massachusetts  
RT mid-atlantic bight  
RT new hampshire  
RT new jersey  
RT new york  
RT new york bight  
RT north carolina  
RT rhode island  
RT south carolina  
RT virginia

**US ECONOMIC RECOVERY TAX ACT**

INIS: 2000-04-12; ETDE: 1992-02-21

(Prior to February 1992 this subject was indexed by ECONOMIC RECOVERY TAX ACT.)

UF economic recovery tax act  
BT1 laws  
RT economic development  
RT financial incentives  
RT legislation  
RT taxes  
RT windfall profits tax

**us ees**

INIS: 2000-04-12; ETDE: 1978-08-08

USE us energy extension service

**US EMERGENCY PREPAREDNESS ACT**

INIS: 1992-03-26; ETDE: 1992-02-21

(Prior to February 1992 this subject was indexed to EMERGENCY PREPAREDNESS ACT.)

UF emergency preparedness act  
BT1 laws  
RT emergency plans  
RT energy supplies

**US ENERGY EXTENSION SERVICE**

INIS: 2000-04-12; ETDE: 1992-02-24

(Prior to February 1992 this subject was indexed by ENERGY EXTENSION SERVICE.)

UF ees  
UF energy extension service  
UF us ees  
\*BT1 us doe

**US ENERGY INFORMATION ADMINISTRATION**

INIS: 1992-03-26; ETDE: 1992-02-24

(Prior to February 1992 this subject was indexed to ENERGY INFORMATION ADMINISTRATION.)

UF energy information administration  
\*BT1 us doe

**US ENERGY POLICY AND CONSERVATION ACT**

INIS: 1992-03-26; ETDE: 1992-02-24

US Energy Policy and Conservation Act.

UF energy policy and conservation act  
UF epca  
BT1 laws  
RT energy conservation  
RT energy policy

**US ENERGY SECURITY ACT**

INIS: 1992-03-26; ETDE: 1992-02-21

(Prior to February 1992 this subject was indexed to ENERGY SECURITY ACT.)

UF energy security act  
BT1 laws

RT synthetic fuels corporation

## US ENERGY TAX ACT

INIS: 1992-03-26; ETDE: 1992-02-24  
(Prior to February 1992 this subject was indexed to ENERGY TAX ACT.)

UF energy tax act  
\*BT1 national energy acts  
RT energy conservation  
RT energy consumption  
RT financial incentives

## US EPA

INIS: 1978-07-04; ETDE: 1977-11-29  
UF environmental protection agency  
UF epa  
BT1 pollution control agencies  
\*BT1 us organizations

## us era

INIS: 2000-04-12; ETDE: 1979-11-23  
USE economic regulatory administration

## US ERDA

1996-07-16  
US Energy Research and Development Administration; created in 1975 and includes part of US AEC research activities, the Office of Coal Research, and the solar and geothermal research activities from the National Science Foundation.

UF energy research and development administration  
\*BT1 us organizations  
NT1 ames laboratory  
NT1 anl  
NT1 atomics international canoga park plant  
NT1 battelle columbus laboratory  
NT1 battelle pacific northwest laboratories  
NT1 bettis  
NT1 bnl  
NT1 feed materials production center  
NT1 hanford reservation  
NT1 hapo  
NT1 idaho chemical processing plant  
NT1 kansas city plant  
NT1 kapl  
NT1 laramie energy research center  
NT1 lawrence berkeley laboratory  
NT1 lawrence livermore laboratory  
NT1 mound laboratory  
NT1 oak ridge reservation  
NT1 orgdp  
NT1 ornl  
NT1 paducah plant  
NT1 pantex plant  
NT1 pinellas plant  
NT1 portsmouth gaseous diffusion plant  
NT1 rocky flats plant  
NT1 sandia laboratories  
NT1 savannah river plant  
NT1 sequoyah uf6 production plant  
NT1 stanford linear accelerator center  
NT1 y-12 plant  
RT us aec  
RT us doe

## US FAA

INIS: 1993-06-03; ETDE: 1978-09-13  
US Federal Aviation Administration.  
UF federal aviation administration  
\*BT1 us dot

## US FDA

INIS: 1978-11-27; ETDE: 1978-06-14  
UF food and drug administration  
\*BT1 us hew

## US FEA

1977-07-05  
US Federal Energy Administration.  
UF federal energy administration  
\*BT1 us organizations  
RT us doe

## US FEDERAL ASSISTANCE PROGRAMS

INIS: 1993-03-26; ETDE: 1992-02-24  
(Prior to February 1992 this subject was indexed to FEDERAL ASSISTANCE PROGRAMS.)

UF federal assistance programs  
RT government policies  
RT local government  
RT national government  
RT state government  
RT us affirmative action program

## US FEDERAL POWER COMMISSION

INIS: 2000-04-12; ETDE: 1992-02-24  
(Prior to February 1992 this subject was indexed by FEDERAL POWER COMMISSION.)

UF federal power commission  
UF fpc  
\*BT1 us organizations

## US FEMA

INIS: 1993-06-02; ETDE: 1984-02-10  
US Federal Emergency Management Agency.  
UF federal emergency management agency  
\*BT1 us organizations

## US FERC

INIS: 1992-02-03; ETDE: 1978-02-14  
UF federal energy regulatory commission  
\*BT1 us doe  
RT ferc gas areas  
RT regulations

## US FOREST SERVICE

INIS: 2000-04-12; ETDE: 1981-06-13  
\*BT1 us doa

## US FWS

INIS: 1992-10-05; ETDE: 1984-12-26  
US Fish and Wildlife Service.  
UF fish and wildlife service  
\*BT1 us doi

## US GAO

INIS: 1992-07-23; ETDE: 1979-02-23  
General Accounting Office.  
UF general accounting office  
\*BT1 us organizations  
RT accounting

## us general services administration

INIS: 2000-04-12; ETDE: 1979-02-23  
USE us gsa

## us geological survey

INIS: 1992-05-28; ETDE: 1981-06-16  
USE us gs

## US GS

INIS: 1992-05-28; ETDE: 1981-06-16  
UF us geological survey  
\*BT1 us doi

## US GSA

INIS: 2000-04-12; ETDE: 1979-02-23  
UF us general services administration  
\*BT1 us organizations

## US GULF COAST

INIS: 1992-06-04; ETDE: 1992-01-24  
(Prior to June 1992 this subject was indexed to GULF COAST.)

UF gulf coast  
\*BT1 usa  
RT alabama  
RT florida  
RT gulf of mexico  
RT louisiana  
RT mississippi  
RT texas

## US HEW

INIS: 2000-04-12; ETDE: 1979-02-23  
UF us department of health, education, and welfare  
\*BT1 us organizations  
NT1 us fda

## US HUD

INIS: 1977-11-21; ETDE: 1977-04-12  
US Department of Housing and Urban Development.  
UF us department of housing and urban development  
\*BT1 us organizations

## US IRS

INIS: 1992-04-09; ETDE: 1978-04-06  
U. S. Internal Revenue Service.  
UF internal revenue service  
\*BT1 us department of treasury

## US JCAE

INIS: 1975-11-27; ETDE: 1975-09-12  
US Joint Committee on Atomic Energy.  
UF joint committee on atomic energy  
\*BT1 us organizations

## US MRS PROJECT

INIS: 1986-09-26; ETDE: 1991-10-29  
Monitored Retrievable Storage project in the USA for the long-term isolation of spent fuel and radioactive wastes permitting continuous monitoring, ready retrieval and periodic maintenance as necessary to assure containment.  
RT high-level radioactive wastes  
RT radioactive waste storage  
RT spent fuel storage  
RT spent fuels

## US MSHA

INIS: 2000-04-12; ETDE: 1982-02-08  
UF mine safety and health administration  
\*BT1 us doe

## US NAPAP

INIS: 1991-12-18; ETDE: 1991-10-31  
United States National Acid Precipitation Assessment Program.  
UF napap  
UF national acid precipitation assessment program  
RT acid rain  
RT information needs  
RT research programs  
RT us national program plans  
RT us organizations

## US NATIONAL ACADEMY OF SCIENCE

\*BT1 us organizations

## us national council on radiation protection and measurements

1993-11-10  
USE us ncrp



**us national energy act**

INIS: 2000-04-12; ETDE: 1992-02-14  
 (Prior to February 1992 this concept was indexed by NATIONAL ENERGY ACT in ETDE. From February 1992 to August 1993 this was a valid ETDE descriptor.)  
 USE national energy acts

**US NATIONAL ENERGY CONSERVATION POLICY ACT**

INIS: 2000-04-12; ETDE: 1992-02-14  
 (Prior to February 1992 this concept in ETDE was indexed by NATIONAL ENERGY CONSERVATION POLICY ACT.)  
 UF national energy conservation policy act  
 \*BT1 national energy acts  
 RT energy conservation  
 RT energy policy

**US NATIONAL ENERGY PLAN**

INIS: 1992-03-26; ETDE: 1992-02-14  
 The plan proposed by President Carter in April 1977, and subsequent plans developed by the Department of Energy.  
 (Prior to February 1992 this concept was indexed to NATIONAL ENERGY PLAN in ETDE.)  
 \*BT1 national energy plans  
 RT energy conservation  
 RT energy sources  
 RT energy supplies  
 RT national energy acts  
 RT us national program plans

**US NATIONAL ENVIRONMENTAL POLICY ACT**

INIS: 1993-11-10; ETDE: 1992-01-13  
 Until March 1992, this descriptor was US NATL ENVIRONMENTPOLICY ACT, and from then to November 1993 it was US NATIONAL ENVIRONMENTAL POLI.  
 UF national environmental policy act  
 UF nepa  
 BT1 laws  
 RT environment  
 RT environmental impact statements  
 RT environmental policy

**US NATIONAL IGNITION FACILITY**

INIS: 1997-06-05; ETDE: 1997-05-08  
 Facility for inertial confinement (thermonuclear) fusion.  
 UF national ignition facility  
 UF nij  
 UF us nif  
 RT icf devices  
 RT inertial confinement  
 RT solid state lasers

**us national oceanic and atmospheric administration**

INIS: 1992-04-13; ETDE: 1980-01-24  
 USE us noaa

**US NATIONAL PROGRAM PLANS**

INIS: 1993-06-02; ETDE: 1992-02-14  
 Energy research programs.  
 UF national program plans  
 RT demonstration programs  
 RT government policies  
 RT national energy acts  
 RT research programs  
 RT us napap  
 RT us national energy plan

**US NATURAL GAS POLICY ACT**

INIS: 1992-03-27; ETDE: 1992-02-14  
 (Prior to February 1992 this concept was indexed to NATURAL GAS POLICY ACT in ETDE.)  
 UF natural gas policy act  
 \*BT1 national energy acts  
 RT consumer protection  
 RT deregulation  
 RT energy policy  
 RT natural gas industry  
 RT pricing regulations

**US NAVAL OIL SHALE RESERVES**

INIS: 1992-03-26; ETDE: 1992-02-14  
 (Prior to February 1992 this concept was indexed to NAVAL OIL SHALE RESERVES in ETDE.)  
 UF naval oil shale reserves  
 \*BT1 oil shale deposits  
 \*BT1 reserves  
 RT colorado  
 RT utah

**US NAVAL PETROLEUM RESERVES**

INIS: 1992-04-07; ETDE: 1992-02-14  
 (Prior to February 1992 this concept was indexed to NAVAL PETROLEUM RESERVE in ETDE.)  
 UF naval petroleum reserve  
 \*BT1 petroleum deposits  
 \*BT1 reserves  
 RT california  
 RT energy supplies  
 RT fuel supplies  
 RT underground storage  
 RT wyoming

**us naval research laboratory cyclotron**

INIS: 1984-06-21; ETDE: 2002-05-24  
 USE nrl cyclotron

**us naval research laboratory linac**

INIS: 1984-06-21; ETDE: 2002-05-24  
 USE nrl linac

**US NBS**

INIS: 1979-02-21; ETDE: 1978-04-06  
 UF national bureau of standards  
 UF nbs (us)  
 \*BT1 us doc

**us nbs reactor**

USE nbsr reactor

**US NCRP**

US National Council on Radiation Protection and Measurements.  
 UF national council on radiation protection/measurements (us)  
 UF ncrp (us)  
 UF us national council on radiation protection and measurements  
 \*BT1 us organizations

**us nij**

INIS: 1997-06-05; ETDE: 1997-05-08  
 USE us national ignition facility

**US NIOSH**

INIS: 1992-10-01; ETDE: 1992-01-24  
 US National Institute for Occupational Safety and Health.  
 UF national institute for occupational safety and health  
 UF niosh  
 \*BT1 us organizations

**US NIPER**

INIS: 1992-03-03; ETDE: 1991-11-01  
 National Institute for Petroleum and Energy Research.  
 UF national institute for petroleum and energy research  
 UF niper  
 \*BT1 us doe

**US NOAA**

INIS: 1992-04-13; ETDE: 1980-01-24  
 UF national oceanic and atmospheric administration  
 UF us national oceanic and atmospheric administration  
 \*BT1 us organizations

**US NRC**

United States Nuclear Regulatory Commission; prior to 1975 was part of US AEC and earlier material is so indexed.  
 \*BT1 us organizations  
 RT us aec

**US NUCLEAR DATA NETWORK**

INIS: 1992-07-21; ETDE: 1985-04-09  
 \*BT1 us organizations  
 RT international nuclear data committee  
 RT nuclear data collections

**US OCCUPATIONAL SAFETY AND HEALTH ACT**

INIS: 1992-08-13; ETDE: 1992-02-14  
 US Occupational Safety and Health Act.  
 UF occupational safety and health act  
 BT1 laws  
 RT health hazards  
 RT occupational diseases  
 RT safety  
 RT working conditions

**US ORGANIZATIONS**

1997-06-19  
 BT1 national organizations  
 NT1 federal radiation council  
 NT1 nasa  
 NT1 national science foundation  
 NT1 naval research laboratory  
 NT1 orau  
 NT1 orins  
 NT1 synthetic fuels corporation  
 NT1 tennessee valley authority  
 NT1 us acda  
 NT1 us aec  
 NT2 ames laboratory  
 NT2 anl  
 NT2 bettis  
 NT2 bnl  
 NT2 feed materials production center  
 NT2 hapo  
 NT2 idaho chemical processing plant  
 NT2 kapl  
 NT2 lawrence berkeley laboratory  
 NT2 lawrence livermore laboratory  
 NT2 mound laboratory  
 NT2 ornl  
 NT2 paducah plant  
 NT2 rocky flats plant  
 NT2 sandia laboratories  
 NT2 savannah river plant  
 NT2 sequoyah uf6 production plant  
 NT2 y-12 plant  
 NT1 us ceq  
 NT1 us cia  
 NT1 us department of treasury  
 NT2 us irs  
 NT1 us doa  
 NT2 us forest service  
 NT2 us rea  
 NT1 us doc

NT2 us nbs  
 NT1 us dod  
 NT2 us corps of engineers  
 NT1 us doe  
 NT2 alaska power administration  
 NT2 ames laboratory  
 NT2 anl  
 NT2 atomics international canoga park plant  
 NT2 bartlesville energy technology center  
 NT2 battelle pacific northwest laboratories  
 NT2 bettis  
 NT2 bnl  
 NT2 bonneville power administration  
 NT2 economic regulatory administration  
 NT2 environmental measurements laboratory  
 NT2 feed materials production center  
 NT2 fermilab  
 NT2 hanford engineering development laboratory  
 NT2 hanford reservation  
 NT2 hapo  
 NT2 idaho chemical processing plant  
 NT2 ineel  
 NT2 inhalation toxicology research institute  
 NT2 kansas city plant  
 NT2 kapl  
 NT2 lanl  
 NT2 laramie energy research center  
 NT2 laramie energy technology center  
 NT2 lawrence berkeley laboratory  
 NT2 lawrence livermore national laboratory  
 NT3 lawrence livermore laboratory  
 NT2 morgantown energy technology center  
 NT2 mound laboratory  
 NT2 national renewable energy laboratory  
 NT2 nevada test site  
 NT2 oak ridge reservation  
 NT2 orgdp  
 NT2 ornl  
 NT2 paducah plant  
 NT2 pantex plant  
 NT2 pinellas plant  
 NT2 pittsburgh energy technology center  
 NT2 portsmouth centrifuge enrichment plant  
 NT2 portsmouth gaseous diffusion plant  
 NT2 rocky flats plant  
 NT2 sandia national laboratories  
 NT3 sandia laboratories  
 NT2 savannah river plant  
 NT2 sequoyah uf6 production plant  
 NT2 southeastern power administration  
 NT2 southwestern power administration  
 NT2 stanford linear accelerator center  
 NT2 us doe field offices  
 NT2 us doe inspector general  
 NT2 us energy extension service  
 NT2 us energy information administration  
 NT2 us ferc  
 NT2 us msha  
 NT2 us niper  
 NT2 usur  
 NT2 western area power administration  
 NT2 wipp  
 NT2 y-12 plant  
 NT1 us doi  
 NT2 us bureau of mines  
 NT2 us bureau of reclamation  
 NT2 us fws  
 NT2 us gs

NT2 us osm  
 NT1 us doj  
 NT2 federal bureau of investigation  
 NT1 us dol  
 NT2 us osha  
 NT1 us dos  
 NT1 us dot  
 NT2 us coast guard  
 NT2 us faa  
 NT1 us epa  
 NT1 us erda  
 NT2 ames laboratory  
 NT2 anl  
 NT2 atomics international canoga park plant  
 NT2 battelle columbus laboratory  
 NT2 battelle pacific northwest laboratories  
 NT2 bettis  
 NT2 bnl  
 NT2 feed materials production center  
 NT2 hanford reservation  
 NT2 hapo  
 NT2 idaho chemical processing plant  
 NT2 kansas city plant  
 NT2 kapl  
 NT2 laramie energy research center  
 NT2 lawrence berkeley laboratory  
 NT2 lawrence livermore laboratory  
 NT2 mound laboratory  
 NT2 oak ridge reservation  
 NT2 orgdp  
 NT2 ornl  
 NT2 paducah plant  
 NT2 pantex plant  
 NT2 pinellas plant  
 NT2 portsmouth gaseous diffusion plant  
 NT2 rocky flats plant  
 NT2 sandia laboratories  
 NT2 savannah river plant  
 NT2 sequoyah uf6 production plant  
 NT2 stanford linear accelerator center  
 NT2 y-12 plant  
 NT1 us fea  
 NT1 us federal power commission  
 NT1 us fema  
 NT1 us gao  
 NT1 us gsa  
 NT1 us hew  
 NT2 us fda  
 NT1 us hud  
 NT1 us jcae  
 NT1 us national academy of science  
 NT1 us nrcp  
 NT1 us niosh  
 NT1 us noaa  
 NT1 us nrc  
 NT1 us nuclear data network  
 NT1 us ota  
 NT1 us postal service  
 NT1 us veterans administration  
 RT us napap

#### US OSHA

*INIS: 1980-09-12; ETDE: 1978-06-14*  
*US Occupational Safety and Health Administration.*  
*UF occupational safety and health administration*  
*UF osha*  
 \*BT1 us dol

#### US OSM

*INIS: 1992-04-08; ETDE: 1985-09-24*  
*Office of Surface Mining, Reclamation and Enforcement, that regulates all coal mining activities in the USA.*  
 \*BT1 us doi  
 RT coal mining

#### US OTA

*INIS: 1993-06-07; ETDE: 1981-03-17*  
*US Office of Technology Assessment.*  
*UF office of technology assessment*  
 \*BT1 us organizations  
 RT technology transfer

#### US POSTAL SERVICE

*INIS: 2000-04-12; ETDE: 1979-02-23*  
 \*BT1 us organizations

#### US POWER PLANT AND INDUSTRIAL FUEL USE ACT

*INIS: 2000-04-12; ETDE: 1992-02-25*  
 (Prior to February 1992 this subject was indexed by POWER PLANT AND INDUSTRIAL FUEL USE ACT.)  
*UF fuel use act*  
*UF power plant and industrial fuel use act*  
 \*BT1 national energy acts  
 RT electric utilities  
 RT fossil-fuel power plants  
 RT fossil fuels

#### US PUBLIC UTILITY REGULATORY POLICIES ACT

*INIS: 1992-07-23; ETDE: 1992-02-25*  
*US Public Utility Regulatory Policies Act.*  
*UF public utility regulatory policies act*  
*UF purpa*  
 \*BT1 national energy acts  
 RT energy conservation  
 RT energy efficiency  
 RT public utilities  
 RT regulations

#### US REA

*INIS: 2000-04-12; ETDE: 1979-09-06*  
*UF rural electrification administration*  
 \*BT1 us doa

#### us resource recovery acts

*INIS: 1992-06-04; ETDE: 1992-02-14*  
 (Prior to February 1992 this concept was indexed to RESOURCE RECOVERY ACTS in ETDE.)  
 USE resource recovery acts

#### US SUPERFUND

*INIS: 1992-02-05; ETDE: 1991-11-01*  
*Comprehensive environmental response, compensation, and Liability Act of 1980: public law 96-510.*  
 (Prior to November 1991 this material was indexed to SUPERFUND.)  
*UF cercla*  
*UF superfund*  
 \*BT1 pollution laws  
 RT enforcement  
 RT environmental policy  
 RT hazardous materials  
 RT remedial action  
 RT sanitary landfills  
 RT waste disposal  
 RT waste disposal acts  
 RT wastes

#### US VETERANS ADMINISTRATION

*INIS: 2000-04-12; ETDE: 1979-02-23*  
 \*BT1 us organizations

#### us water pollution control act

*INIS: 2000-04-12; ETDE: 1977-04-14*  
 USE clean water acts

#### US WEST COAST

*INIS: 1992-06-04; ETDE: 1991-12-18*  
 (Prior to June 1992 this concept was indexed to WEST COAST in ETDE.)  
*UF west coast*

\*BT1 usa  
 RT california  
 RT oregon  
 RT pacific ocean  
 RT washington

**USA**  
 UF central region  
 UF federal region i  
 UF federal region ii  
 UF federal region iii  
 UF federal region iv  
 UF federal region ix  
 UF federal region v  
 UF federal region vi  
 UF federal region vii  
 UF federal region viii  
 UF federal region x  
 UF great lakes region  
 UF great plains  
 UF mid-atlantic region  
 UF midwest region  
 UF new england  
 UF ozark region  
 UF pacific northwest region  
 UF region i  
 UF region ii  
 UF region iii  
 UF region iv  
 UF region ix  
 UF region v  
 UF region vi  
 UF region vii  
 UF region viii  
 UF region x  
 UF rocky mountain region  
 UF southeast region  
 UF southwest region  
 UF united states of america  
 UF western region  
 SF north atlantic region  
 BT1 developed countries  
 BT1 north america  
 NT1 alabama  
 NT1 alaska  
 NT1 american samoa  
 NT1 arizona  
 NT1 arkansas  
 NT1 california  
 NT2 brawley geothermal field  
 NT2 coso hot springs  
 NT2 los angeles  
 NT1 colorado  
 NT2 mahogany zone  
 NT2 sand wash basin  
 NT1 connecticut  
 NT1 delaware  
 NT1 florida  
 NT2 cape kennedy  
 NT1 georgia  
 NT2 atlanta  
 NT1 great basin  
 NT1 hawaii  
 NT1 idaho  
 NT1 illinois  
 NT2 chicago  
 NT1 indiana  
 NT1 iowa  
 NT1 kansas  
 NT1 kentucky  
 NT1 louisiana  
 NT1 maine  
 NT1 maryland  
 NT1 massachusetts  
 NT1 michigan  
 NT1 minnesota  
 NT1 mississippi  
 NT1 missouri  
 NT1 montana

NT2 powder river basin  
 NT1 nebraska  
 NT1 nevada  
 NT2 steamboat springs  
 NT2 tonopah test range  
 NT1 new hampshire  
 NT1 new jersey  
 NT1 new mexico  
 NT2 los alamos  
 NT1 new york  
 NT2 new york city  
 NT1 north carolina  
 NT1 north dakota  
 NT1 ohio  
 NT2 cleveland  
 NT1 oklahoma  
 NT1 oregon  
 NT2 mt hood  
 NT1 pennsylvania  
 NT2 pittsburgh  
 NT1 puerto rico  
 NT1 rhode island  
 NT1 south carolina  
 NT1 south dakota  
 NT2 table mountain area  
 NT1 tennessee  
 NT2 chattanooga  
 NT2 oak ridge  
 NT1 texas  
 NT1 us east coast  
 NT1 us gulf coast  
 NT1 us west coast  
 NT1 utah  
 NT2 roosevelt hot springs  
 NT1 vermont  
 NT1 virgin islands  
 NT1 virginia  
 NT1 washington  
 NT2 richland  
 NT1 washington dc  
 NT1 west virginia  
 NT1 wisconsin  
 NT1 wyoming  
 NT2 powder river basin  
 NT2 rock springs sites  
 NT2 washakie basin  
 RT appalachian mountains  
 RT oecd  
 RT pad districts  
 RT rocky mountains  
 RT trust territory of the pacific islands  
 RT us aec

**useful life**

INIS: 1992-02-26; ETDE: 1976-08-05

USE service life

**USES**

*For the evaluation of the usefulness of a procedure, material, or device.*

UF applications  
 NT1 diagnostic uses  
 NT1 therapeutic uses  
 NT1 third-party use  
 RT efficiency  
 RT performance

**ussr**

1997-08-20

*All the constituents of the former USSR are listed below; use one or more as required. (Prior to September 1997 USSR was a valid descriptor.)*

SEE armenia  
 SEE azerbaijan  
 SEE belarus  
 SEE estonia  
 SEE kazakhstan  
 SEE kyrgyzstan  
 SEE latvia

SEE lithuania  
 SEE moldova  
 SEE republic of georgia  
 SEE russian federation  
 SEE tajikistan  
 SEE turkmenistan  
 SEE ukraine  
 SEE uzbekistan

**ussr organizations**

INIS: 1997-07-30; ETDE: 1975-12-16

(Until July 1997 this was a valid descriptor.)

USE russian organizations

**ustav jaderneho vyzkumu**

INIS: 1997-11-05; ETDE: 2002-05-24

USE ujuv

**ustav jadernych vyzkumu**

2000-04-12

USE ujuv

**USTILAGO**

\*BT1 eumycota  
 BT1 parasites  
 RT cereals

**USUR**

INIS: 1994-02-28; ETDE: 1981-07-06

UF united states uranium registry

\*BT1 us doe

RT nuclear industry  
 RT radiation protection

**UTAH**

1997-06-19

\*BT1 usa

NT1 roosevelt hot springs  
 RT asphalt ridge deposit  
 RT circle cliffs deposit  
 RT great basin  
 RT great salt lake  
 RT green river formation  
 RT natural bridges national monument  
 RT paradox basin  
 RT pr springs deposit  
 RT sunnyside deposit  
 RT tar sand triangle deposit  
 RT uinta basin  
 RT uinta formation  
 RT us naval oil shale reserves  
 RT western us overthrust belt  
 RT white river  
 RT white river shale project

**uterine cervix carcinoma**

USE carcinomas  
 USE urogenital system diseases

**UTERUS**

UF endometrium  
 UF myometrium  
 \*BT1 female genitals  
 RT embryos  
 RT fetuses  
 RT oxytocin  
 RT pregnancy

**utilities**

INIS: 2000-04-12; ETDE: 1979-05-03

SEE electric utilities  
 SEE gas utilities  
 SEE public utilities

**UTP**

ETDE: 1975-09-11

UF uridine triphosphate

\*BT1 nucleotides

**utr-10 iowa state university reactor**

USE iowa utr-10 reactor

**UTR-10-KINKI REACTOR**

*Atomic Energy Research Institute, Kinki Univ., Higashiosaka, Osaka, Japan.*

*UF kinki university utr-10 reactor*

- \*BT1 argonaut type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**utr-b queen mary college reactor**

*2000-04-12*

USE queen mary college utr-b reactor

**UTRR REACTOR**

*Atomic Energy Organization of Iran, Nuclear Research Centre, Teheran, Iran.*

*UF teheran university research reactor*

*UF university of teheran research reactor*

- \*BT1 enriched uranium reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 thermal reactors

**UVALDE DEPOSIT**

*INIS: 2000-04-12; ETDE: 1983-07-07*

- \*BT1 oil sand deposits
- RT oil sands*
- RT texas*

**UVAR REACTOR**

*Univ. of Virginia, Charlottesville, Virginia, USA. Decommissioned in 2005.*

*UF university of virginia reactor*

*UF virginia university reactor*

- \*BT1 enriched uranium reactors
- \*BT1 isotope production reactors
- \*BT1 pool type reactors
- \*BT1 research reactors
- \*BT1 test reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**UVEA**

*UF choroid*

- \*BT1 eyes

**UVVVR**

*INIS: 2000-04-12; ETDE: 1979-07-24*

*Ustavu pro Vyzkum, Vyrobu a Vyuziti Radioisotopu - Institute for the Research, Production and Application of Radioisotopes, Prague.*

- \*BT1 czech organizations

**UWMAK DEVICES**

*ETDE: 1979-04-11*

*UF numak reactors*

*UF university of wisconsin tokamak*

*UF uwmak reactors*

*UF wisconsin university tokamak*

- \*BT1 tokamak devices

**uwmak reactors**

*INIS: 2000-04-12; ETDE: 1978-04-27*

*(Prior to July 1985 this was a valid ETDE descriptor.)*

USE uwmak devices

**UWNR REACTOR**

*Univ. of Wisconsin, Madison, Wisconsin, USA.*

*UF university of wisconsin nuclear reactor*

*UF wisconsin university nuclear reactor*

- \*BT1 isotope production reactors
- \*BT1 pool type reactors
- \*BT1 thermal reactors
- \*BT1 training reactors
- \*BT1 triga type reactors

**UWTR REACTOR**

*Univ. of Washington, Seattle, Washington, USA. Shut down in 1988.*

*UF university of washington reactor*

*UF washington university (seattle) reactor*

- \*BT1 enriched uranium reactors
- \*BT1 lwgr type reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**UZBEK ORGANIZATIONS**

*2004-03-31*

- BT1 national organizations

**uzbek wwr-c reactor**

*2000-04-12*

USE wwr-s-tashkent reactor

**uzbek wwr-s reactor**

*INIS: 1976-06-23; ETDE: 2002-05-24*

USE wwr-s-tashkent reactor

**UZBEKISTAN**

*INIS: 1997-08-20; ETDE: 1993-04-08*

*(Until January 1993, this was indexed by USSR.)*

- SF soviet union*
- SF union of soviet socialist republics*
- SF ussr*
- BT1 asia*
- RT aral sea*

**v-1 reactor (bohunice)**

USE bohunice v-1 reactor

**v-2 reactor (bohunice)**

*INIS: 1979-05-28; ETDE: 1979-09-06*

USE bohunice v-2 reactor

**v-2 reactor (dukovany)**

*2000-04-12*

*(Prior to August 1997 DUKOVANY V-2 reactor was used for this concept in ETDE.)*

- SEE dukovany-1 reactor
- SEE dukovany-2 reactor
- SEE dukovany-3 reactor
- SEE dukovany-4 reactor

**V-A THEORY**

*UF vector-axial vector theory*

*RT axial-vector currents*

*RT current algebra*

*RT fermi interactions*

*RT vector currents*

**V CENTERS**

- \*BT1 color centers

**V CODES**

- BT1 computer codes

**V TROUGH COLLECTORS**

*INIS: 2000-04-12; ETDE: 1978-10-25*

- \*BT1 concentrating collectors

**va characteristic**

USE electric conductivity

**VAAALPUTS RADIOACTIVE WASTE DISPOSAL FACILITY**

*INIS: 1987-05-26; ETDE: 1991-08-20*

*Vaalputs Radioactive Waste Disposal Facility in Bushmanland, South Africa.*

- \*BT1 radioactive waste facilities

**VACANCIES**

*Not for HOLES.*

- \*BT1 point defects
- NT1** color centers
- NT2** a centers
- NT2** e centers
- NT2** f centers

**NT2** h centers

**NT2** i centers

**NT2** m centers

**NT2** r centers

**NT2** s centers

**NT2** u centers

**NT2** v centers

**NT2** x centers

**NT2** z centers

**NT1** frenkel defects

**NT1** schottky defects

*RT* traps

**VACCINES**

*RT* antigens

*RT* bacteria

*RT* fungi

*RT* immunity

*RT* inoculation

*RT* viruses

**VACCINIA VIRUS**

- \*BT1 viruses

**vacuum (1-1000 micro pa)**

*2003-11-19*

USE pressure range micro pa

**vacuum (1-1000 milli pa)**

*2003-11-19*

USE pressure range milli pa

**vacuum (1-1000 nano pa)**

*2003-11-19*

USE pressure range nano pa

**vacuum (1-1000 pa)**

*2003-11-19*

USE pressure range pa

**vacuum (7.5 - 7.5x10(3) torr)**

*2003-11-19*

USE pressure range kilo pa

**vacuum (7.5x10(-12) - 7.5x10(-9) torr)**

*2003-11-19*

USE pressure range nano pa

**vacuum (7.5x10(-3) - 7.5 torr)**

*2003-11-19*

USE pressure range pa

**vacuum (7.5x10(-6) - 7.5x10(-3) torr)**

*2003-11-19*

USE pressure range milli pa

**vacuum (7.5x10(-9) - 7.5x10(-6) torr)**

*2003-11-19*

USE pressure range micro pa

**vacuum (below 1 nano pa)**

*2003-11-19*

USE pressure range below 1 nano pa

**vacuum (below 7.5x10(-12) torr)**

*2003-11-19*

USE pressure range below 1 nano pa

**vacuum (rough)**

SEE pressure range kilo pa

SEE pressure range pa

**vacuum arc centrifuges**

*INIS: 1985-07-23; ETDE: 2002-05-24*

USE plasma centrifuges

**VACUUM CARBONATE PROCESS**

*INIS: 2000-04-12; ETDE: 1979-01-30*

- \*BT1 desulfurization

*RT* waste processing

**VACUUM CASTING**

UF *continuous vacuum casting*

\*BT1 casting

**VACUUM COATING**

INIS: 1979-04-27; ETDE: 1976-05-13

*For the process; for the product use VAPOR DEPOSITED COATINGS.*

\*BT1 surface coating

RT physical vapor deposition

RT sputtering

RT vacuum evaporation

RT vapor deposited coatings

**VACUUM DISTILLATION**

INIS: 1999-03-08; ETDE: 1981-11-10

\*BT1 distillation

**VACUUM EVAPORATION**

INIS: 1986-05-26; ETDE: 1981-07-18

\*BT1 evaporation

RT physical vapor deposition

RT vacuum coating

RT vapor deposited coatings

RT vapor plating

**VACUUM FERMENTATION**

INIS: 2000-04-12; ETDE: 1978-10-23

*Fermentation at about 50 to 100 mm hg.*

\*BT1 fermentation

**VACUUM FURNACES**

BT1 furnaces

RT arc furnaces

RT electron beam furnaces

**VACUUM GAGES**

1996-07-18

\*BT1 pressure gages

NT1 ionization gages

NT2 bayard-alpert gages

NT2 philips gages

NT2 radioactive ionization gages

NT1 knudsen gages

NT1 pirani gages

RT vacuum systems

**vacuum insulation panels**

2006-05-12

USE pressure range pa

USE thermal insulation

**VACUUM MELTING**

\*BT1 melting

**VACUUM POLARIZATION**

RT casimir effect

RT quantum electrodynamics

RT vacuum states

**VACUUM PUMPS**

\*BT1 laboratory equipment

\*BT1 pumps

NT1 cryopumps

NT1 sputter-ion pumps

NT1 turbomolecular pumps

RT getters

RT pressure range

RT vacuum systems

**VACUUM STATES**

RT annihilation operators

RT creation operators

RT field operators

RT gluon condensation

RT instantons

RT quark condensation

RT vacuum polarization

**VACUUM SYSTEMS**

RT accelerators

RT vacuum gages

RT vacuum pumps

**vacuum ultraviolet radiation**

USE far ultraviolet radiation

**VACUUM WELDING**

\*BT1 welding

RT electron beam welding

**vagina**

USE female genitals

**vagotomy**

USE surgery

USE vagus

**VAGUS**

UF *vagotomy*

\*BT1 autonomic nervous system

\*BT1 nerves

RT parasympathomimetics

**VAH RIVER**

INIS: 2001-12-06; ETDE: 2002-01-18

\*BT1 rivers

RT slovakia

**VAHNUM-1 REACTOR**

INIS: 1977-02-08; ETDE: 1977-04-13

*Vahnum, North Rhein Westfalia, Federal Republic of Germany.*

UF *kernkraftwerk vahnum-1*

\*BT1 pwr type reactors

**VAHNUM-2 REACTOR**

INIS: 1977-02-08; ETDE: 1977-04-13

*Vahnum, NorthRhein Westfalia, Federal Republic of Germany.*

UF *kernkraftwerk vahnum-2*

\*BT1 pwr type reactors

**VAK REACTOR**

UF *kahl-vak reactor*

UF *versuchsatomkraftwerk kahl reactor*

\*BT1 bwr type reactors

**VALENCE**

(From February 1979 to March 1997 IONIC POTENTIAL was a valid ETDE descriptor.)

UF *electron acceptor*

UF *electron donor*

UF *ionic potential*

UF *oxidation state*

UF *valence electrons*

UF *valency states*

NT1 coordination valences

RT hot atom chemistry

RT radiation chemistry

RT redox potential

**valence electrons**

USE electrons

USE valence

**VALENCY MODEL**

2000-04-12

*A model for certain neutron capture reactions.*

\*BT1 nuclear models

RT capture

RT nuclear reactions

**valency states**

USE valence

**VALERIC ACID**

UF *pentanoic acid*

\*BT1 monocarboxylic acids

**VALIDATION**

INIS: 1995-04-09; ETDE: 1980-07-09

*Act of testing for compliance with a standard.*

BT1 testing

RT evaluation

RT mathematical models

RT verification

**VALINE**

UF *aminoisovaleric acid-alpha*

\*BT1 amino acids

**VALINOMYCIN**

1977-11-02

\*BT1 antibiotics

RT lipids

**vallecitos reactor**

2000-04-12

USE evsr reactor

**vallecitos vbwr reactor**

USE vbwr reactor

**VALLEYS**

INIS: 1992-05-26; ETDE: 1976-06-07

NT1 imperial valley

NT1 long valley

NT1 raft river valley

RT complex terrain

RT mountains

RT watersheds

**values**

INIS: 2000-04-12; ETDE: 1979-09-26

(Prior to December 1991 this was a valid ETDE descriptor.)

SEE cost

SEE data

SEE economics

SEE socio-economic factors

**VALVES**

\*BT1 flow regulators

NT1 relief valves

NT1 water faucets

RT bellows

RT closures

RT pipe fittings

RT reactor cooling systems

**van allen belts**

USE radiation belts

**VAN DE GRAAFF ACCELERATORS**

1996-07-18

UF *learn tandem accelerator*

\*BT1 electrostatic accelerators

NT1 crnl mp tandem accelerator

NT1 jaeri tandem accelerator

NT1 orsay tandem accelerator

NT1 vivitron tandem accelerator

RT tandem electrostatic accelerators

RT vicksi accelerator

**VAN DER WAALS FORCES**

RT adsorption

RT intermolecular forces

RT molecules

RT virial equation

**VAN HOVE-HUGENHOLTZ THEORY**

UF *hughholtz-pines theory*

RT many-body problem

**VAN HOVE MODEL**

\*BT1 particle models

RT regge poles

**van hove-prigogine theory**

USE prigogine theorem

**VAN HOVE THEORY**

RT slowing-down

RT transport theory

**VAN VLECK THEORY**

RT paramagnetism

**VANADATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- BT1 oxygen compounds
- \*BT1 vanadium compounds
- NT1 potassium vanadates
- NT1 uranium vanadates
- RT vanadium oxides

**VANADIUM**

- \*BT1 transition elements

**VANADIUM 42**

*INIS: 1997-02-07; ETDE: 1978-07-05*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 vanadium isotopes

**VANADIUM 43**

*1993-01-13*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 vanadium isotopes

**VANADIUM 44**

*1986-04-02*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 vanadium isotopes

**VANADIUM 45**

*INIS: 1997-02-07; ETDE: 1980-04-14*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 vanadium isotopes

**VANADIUM 46**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 vanadium isotopes

**VANADIUM 47**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 vanadium isotopes

**VANADIUM 48**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 vanadium isotopes

**VANADIUM 48 TARGET**

*INIS: 1982-10-28; ETDE: 1979-06-06*

- BT1 targets

**VANADIUM 49**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 vanadium isotopes

**VANADIUM 49 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**VANADIUM 50**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 vanadium isotopes
- \*BT1 years living radioisotopes

**VANADIUM 50 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**VANADIUM 51**

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 stable isotopes
- \*BT1 vanadium isotopes

**VANADIUM 51 REACTIONS**

*INIS: 1985-11-16; ETDE: 1985-12-11*

- \*BT1 heavy ion reactions

**VANADIUM 51 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**VANADIUM 52**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 vanadium isotopes

**VANADIUM 53**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 vanadium isotopes

**VANADIUM 54**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 vanadium isotopes

**VANADIUM 55**

*INIS: 1978-07-03; ETDE: 1978-02-14*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 vanadium isotopes

**VANADIUM 56**

*1980-11-07*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 vanadium isotopes

**VANADIUM 57**

*INIS: 1986-08-19; ETDE: 1981-01-30*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 vanadium isotopes

**VANADIUM 58**

*INIS: 1986-08-19; ETDE: 1981-01-30*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 vanadium isotopes

**VANADIUM 59**

*INIS: 1986-08-19; ETDE: 1986-09-05*

- \*BT1 intermediate mass nuclei

- \*BT1 odd-even nuclei
- \*BT1 vanadium isotopes

**VANADIUM 60**

*INIS: 1986-08-19; ETDE: 1986-09-05*

- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 vanadium isotopes

**VANADIUM 61**

*2005-03-14*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 vanadium isotopes

**VANADIUM 62**

*2005-03-14*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 vanadium isotopes

**VANADIUM 63**

*2005-03-14*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 vanadium isotopes

**VANADIUM ADDITIONS**

*1996-11-13*

*Alloys containing not more than 1% V are listed here.*

- \*BT1 vanadium alloys
- NT1 alloy-ni54mo17cr16fe6w4
- NT2 hastelloy c
- NT1 alloy-ni60co15cr10al6ti5mo3
- NT2 alloy-in-100
- NT1 alloy-ni62cr16mo15fe3
- NT2 hastelloy s
- NT1 alloy-ni65mo28fe5
- NT2 hastelloy b
- NT1 alloy-ti90al6
- NT1 steel-cr12moniv
- NT1 steel-cr12mov
- NT2 alloy-ht-9
- NT1 steel-cr16ni13monbv
- NT1 steel-cr2mov
- NT1 steel-cr2nimov
- NT1 steel-cr9monbv
- NT1 steel-crmov
- NT1 steel-mnmimov
- NT1 steel-ni26cr15ti2movalb
- NT2 alloy-a-286
- NT1 steel-ni3crmo
- NT2 steel-astm-a543
- NT1 steel-ni3crmov

**VANADIUM ALLOYS**

*1996-11-13*

*Alloys containing more than 1% V.*

- UF alloy-co52fe35v13
- UF alloy-ehp-496
- UF steel-40k14g18f
- UF transage 129
- UF transage 134
- UF transage 175
- UF vikalloy 1
- UF vikalloy 2
- \*BT1 transition element alloys
- NT1 alloy-co52fe35v10
- NT1 alloy-ti90al6v4
- NT1 alloy-ti91al4mo3
- NT1 vanadium additions
- NT2 alloy-ni54mo17cr16fe6w4
- NT3 hastelloy c
- NT2 alloy-ni60co15cr10al6ti5mo3

NT3 alloy-in-100  
 NT2 alloy-ni62cr16mo15fe3  
 NT3 hastelloy s  
 NT2 alloy-ni65mo28fe5  
 NT3 hastelloy b  
 NT2 alloy-ti90al6  
 NT2 steel-cr12moniv  
 NT2 steel-cr12mov  
 NT3 alloy-ht-9  
 NT2 steel-cr16ni13monbv  
 NT2 steel-cr2mov  
 NT2 steel-cr2nimov  
 NT2 steel-cr9monbv  
 NT2 steel-crmov  
 NT2 steel-mnmmov  
 NT2 steel-ni26cr15ti2moyalb  
 NT3 alloy-a-286  
 NT2 steel-ni3crmo  
 NT3 steel-astm-a543  
 NT2 steel-ni3crmov  
 NT1 vanadium base alloys  
 NT2 alloy-v87cr9fe3

**vanadium arsenides**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE arsenides

USE vanadium compounds

**VANADIUM BASE ALLOYS**

\*BT1 vanadium alloys

NT1 alloy-v87cr9fe3

**VANADIUM BORIDES**

\*BT1 borides

\*BT1 vanadium compounds

**VANADIUM BROMIDES**

\*BT1 bromides

\*BT1 vanadium compounds

**VANADIUM CARBIDES**

\*BT1 carbides

\*BT1 vanadium compounds

**VANADIUM CHLORIDES**

\*BT1 chlorides

\*BT1 vanadium compounds

**VANADIUM COMPLEXES**

\*BT1 transition element complexes

**VANADIUM COMPOUNDS**

1997-06-19

UF vanadium arsenides

UF vanadium tungstates

BT1 transition element compounds

NT1 vanadates

NT2 potassium vanadates

NT2 uranium vanadates

NT1 vanadium borides

NT1 vanadium bromides

NT1 vanadium carbides

NT1 vanadium chlorides

NT1 vanadium fluorides

NT1 vanadium hydrides

NT1 vanadium hydroxides

NT1 vanadium iodides

NT1 vanadium nitrates

NT1 vanadium nitrides

NT1 vanadium oxides

NT1 vanadium phosphates

NT1 vanadium phosphides

NT1 vanadium selenides

NT1 vanadium silicates

NT1 vanadium silicides

NT1 vanadium sulfates

NT1 vanadium sulfides

NT1 vanadium tellurides

**VANADIUM FLUORIDES**

\*BT1 fluorides

\*BT1 vanadium compounds

**VANADIUM HYDRIDES**

\*BT1 hydrides

\*BT1 vanadium compounds

**VANADIUM HYDROXIDES**

\*BT1 hydroxides

\*BT1 vanadium compounds

**VANADIUM IODIDES**

\*BT1 iodides

\*BT1 vanadium compounds

**VANADIUM IONS**

\*BT1 ions

**VANADIUM ISOTOPES**

1999-07-16

BT1 isotopes

NT1 vanadium 42

NT1 vanadium 43

NT1 vanadium 44

NT1 vanadium 45

NT1 vanadium 46

NT1 vanadium 47

NT1 vanadium 48

NT1 vanadium 49

NT1 vanadium 50

NT1 vanadium 51

NT1 vanadium 52

NT1 vanadium 53

NT1 vanadium 54

NT1 vanadium 55

NT1 vanadium 56

NT1 vanadium 57

NT1 vanadium 58

NT1 vanadium 59

NT1 vanadium 60

NT1 vanadium 61

NT1 vanadium 62

NT1 vanadium 63

**vanadium minerals**

INIS: 2000-04-12; ETDE: 1975-10-28

Use one of the more specific descriptors under MINERALS.

(Prior to May 1982, this was a valid ETDE descriptor.)

USE minerals

**VANADIUM NITRATES**

INIS: 1976-10-29; ETDE: 1976-12-16

\*BT1 nitrates

\*BT1 vanadium compounds

**VANADIUM NITRIDES**

\*BT1 nitrides

\*BT1 vanadium compounds

**VANADIUM ORES**

1976-02-11

BT1 ores

**VANADIUM OXIDES**

1996-07-18

\*BT1 oxides

\*BT1 vanadium compounds

RT corvusite

RT ferghanite

RT melanovanadite

RT oxide minerals

RT pascoite

RT rauvite

RT sengierite

RT tyuyamunite

RT vanadates

**VANADIUM PHOSPHATES**

\*BT1 phosphates

\*BT1 vanadium compounds

**VANADIUM PHOSPHIDES**

INIS: 1980-11-07; ETDE: 1979-04-11

\*BT1 phosphides

\*BT1 vanadium compounds

**VANADIUM SELENIDES**

INIS: 1979-09-18; ETDE: 1977-11-09

\*BT1 selenides

\*BT1 vanadium compounds

**VANADIUM SILICATES**

\*BT1 silicates

\*BT1 vanadium compounds

**VANADIUM SILICIDES**

\*BT1 silicides

\*BT1 vanadium compounds

**VANADIUM SULFATES**

\*BT1 sulfates

\*BT1 vanadium compounds

**VANADIUM SULFIDES**

\*BT1 sulfides

\*BT1 vanadium compounds

**VANADIUM TELLURIDES**

INIS: 2000-04-12; ETDE: 1991-07-30

\*BT1 tellurides

\*BT1 vanadium compounds

**vanadium tungstates**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE tungstates

USE vanadium compounds

**VANDELLOS-2 REACTOR**

INIS: 1995-02-15; ETDE: 1986-04-29

Vandellos, Tarragona, Spain.

\*BT1 pwr type reactors

**VANDELLOS REACTOR**

Vandellos, Tarragona, Spain.

\*BT1 carbon dioxide cooled reactors

\*BT1 gcr type reactors

\*BT1 power reactors

\*BT1 thermal reactors

**VANES**

RT fins

RT reactor components

**VANPOOLING**

INIS: 2000-04-12; ETDE: 1977-06-21

SF ridesharing

BT1 carpooling

RT energy conservation

RT land transport

RT roads

RT transportation systems

RT vans

**VANS**

INIS: 2000-04-12; ETDE: 1979-12-17

BT1 vehicles

RT automobiles

RT occupants

RT taxicabs

RT vanpooling

**vanstar 7**

1997-01-28

(Prior to March 1997 this was a valid ETDE descriptor.)

USE alloy-v87cr9fe3

**VAPOR COMPRESSION REFRIGERATION CYCLE**

INIS: 2000-04-12; ETDE: 1978-05-03

BT1 thermodynamic cycles

RT air conditioners

RT cooling systems

RT gas compressors  
 RT refrigerating machinery  
 RT refrigeration  
 RT refrigerators

**VAPOR CONDENSATION**

UF condensation (vapor)  
 NT1 dropwise condensation  
 NT1 film condensation  
 RT condensates  
 RT condensation chambers  
 RT condensation nuclei  
 RT cooling  
 RT dew point  
 RT fog  
 RT heat transfer  
 RT liquefaction  
 RT subcooling  
 RT vapor condensers

**VAPOR CONDENSERS**

UF condensers (vapor)  
 UF liquefiers  
 SF condensers  
 NT1 cold traps  
 NT1 steam condensers  
 NT2 ice condensers  
 NT2 isolation condensers  
 RT cooling towers  
 RT counterflow systems  
 RT crossflow systems  
 RT evaporators  
 RT heat sinks  
 RT vapor condensation  
 RT vapor separators

**VAPOR DEPOSITED COATINGS**

BT1 coatings  
 RT chemical vapor deposition  
 RT physical vapor deposition  
 RT sputtering  
 RT vacuum coating  
 RT vacuum evaporation  
 RT vapor plating

**VAPOR-DOMINATED SYSTEMS**

INIS: 1997-06-19; ETDE: 1976-03-25  
 (Prior to May 1976 DRY-STEAM SYSTEMS was used for this concept in ETDE.)

UF dry-steam systems  
 \*BT1 hydrothermal systems  
 RT geysers geothermal field  
 RT larderello geothermal field  
 RT matsukawa geothermal field  
 RT travale geothermal field

**VAPOR GENERATORS**

UF generators (vapor)  
 BT1 boilers  
 NT1 steam generators  
 RT rankine cycle engines  
 RT reactor cooling systems  
 RT vapors

**vapor incinerators**

INIS: 2000-04-12; ETDE: 1975-11-11  
 USE afterburners

**VAPOR JET EJECTORS**

NT1 steam jet ejectors  
 RT mhd generators

**VAPOR PHASE EPITAXY**

INIS: 1992-08-12; ETDE: 1982-10-20  
 Epitaxial growth resulting from the pyrolysis of or chemical reaction between vapor phase components at the substrate surface.

\*BT1 epitaxy  
 RT chemical vapor deposition  
 RT crystal growth

**VAPOR PLATING**

\*BT1 plating  
 RT cathode sputtering  
 RT chemical vapor deposition  
 RT physical vapor deposition  
 RT vacuum evaporation  
 RT vapor deposited coatings

**VAPOR PRESSURE**

UF pressure (vapor)  
 \*BT1 thermodynamic properties  
 RT knudsen flow

**VAPOR SEPARATORS**

UF moisture separators  
 UF separators (vapor)  
 \*BT1 separation equipment  
 NT1 steam separators  
 RT mhd generators  
 RT vapor condensers

**vaporization**

USE evaporation

**VAPORIZATION HEAT**

UF heat of vaporization  
 UF latent heat of vaporization  
 \*BT1 transition heat  
 RT evaporation  
 RT latent heat storage

**VAPORS**

\*BT1 gases  
 NT1 water vapor  
 RT distillates  
 RT evaporation  
 RT liquids  
 RT vapor generators  
 RT void fraction

**var compensators**

INIS: 2000-04-12; ETDE: 1983-03-23  
 USE var control systems

**VAR CONTROL SYSTEMS**

INIS: 2000-04-12; ETDE: 1983-03-23  
 UF var compensators  
 UF volt-ampere reactive control systems  
 BT1 control systems  
 RT electric power  
 RT electrical transients  
 RT overvoltage  
 RT power factor  
 RT power systems  
 RT power transmission  
 RT reliability  
 RT stabilization  
 RT surges

**varactors**

USE variable capacitance diodes

**VARENNES TOKAMAK**

1983-09-06  
 UF tokamak de varennnes  
 \*BT1 tokamak devices

**variability (biological)**

USE biological variability

**variability (genetic)**

USE genetic variability

**VARIABLE CAPACITANCE DIODES**

UF varactors  
 \*BT1 semiconductor diodes

**VARIABLE ENERGY CYCLOTRONS**

1999-05-19  
 \*BT1 cyclotrons  
 NT1 calcutta cyclotron  
 NT1 chandigarh cyclotron

**variable moment of inertia model**

USE vmi model

**VARIABLE STARS**

BT1 stars  
 NT1 eruptive variable stars  
 NT2 novae  
 NT2 supernovae  
 NT2 t tauri stars  
 NT1 pulsating variable stars  
 NT2 cepheids  
 RT magnetic stars  
 RT starspots

**varian computers**

INIS: 2000-04-12; ETDE: 1975-11-28  
 (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE computers

**VARIATIONAL METHODS**

BT1 calculation methods  
 NT1 density functional method  
 NT1 hsk procedure  
 NT1 resonating-group method  
 NT1 schwinger variational method  
 RT functionals  
 RT mathematics  
 RT neutron transport theory  
 RT optimization  
 RT ritz method

**VARIATIONS**

NT1 annual variations  
 NT1 daily variations  
 NT1 fluctuations  
 NT2 landau fluctuations  
 NT1 geographical variations  
 NT2 latitude effect  
 NT1 hourly variations  
 NT1 monthly variations  
 NT1 nocturnal variations  
 NT1 periodicity  
 NT1 seasonal variations  
 RT degrees of freedom  
 RT disturbances  
 RT modifications  
 RT modulation  
 RT oscillations  
 RT pulsations  
 RT reactor noise  
 RT temperature noise  
 RT transients

**varistors**

Non-linear semiconductor resistors.  
 USE semiconductor resistors

**VARNISHES**

BT1 coatings  
 RT dielectric materials

**VASCULAR DISEASES**

BT1 diseases  
 NT1 arteriosclerosis  
 NT1 hypertension  
 NT1 ischemia  
 NT1 nephrosclerosis  
 NT1 telangiectasis  
 NT1 thrombosis  
 RT blood vessels  
 RT cardiovascular diseases  
 RT emboli  
 RT vasoconstrictors  
 RT vasodilators

**VASOCONSTRICTION**

RT blood circulation  
 RT blood vessels  
 RT capillaries  
 RT cardiovascular agents



RT sympathomimetics  
 RT vasoconstrictors  
 RT vasodilation

**VASOCONSTRICTORS**

INIS: 1984-05-24; ETDE: 1981-04-20

\*BT1 cardiovascular agents  
 NT1 angiotensin  
 NT1 ephedrine  
 RT blood vessels  
 RT endothelins  
 RT vascular diseases  
 RT vasoconstriction

**vasodilatation**

INIS: 1990-12-07; ETDE: 2002-05-24

(Prior to December 1990, this was a valid descriptor.)

USE vasodilation

**VASODILATION**

INIS: 1990-12-07; ETDE: 1977-10-20

UF vasodilatation  
 RT blood circulation  
 RT blood vessels  
 RT capillaries  
 RT cardiovascular agents  
 RT sympathomimetics  
 RT vasoconstriction  
 RT vasodilators

**VASODILATORS**

INIS: 1984-05-24; ETDE: 1981-04-20

\*BT1 cardiovascular agents  
 NT1 dipyridamole  
 NT1 theobromine  
 NT1 theophylline  
 RT blood vessels  
 RT vascular diseases  
 RT vasodilation

**VASOPRESSIN**

UF antidiuretic hormone  
 \*BT1 pituitary hormones  
 RT tubules

**vavilov-cherenkov radiation**

USE cherenkov radiation

**vax computers**

INIS: 1980-09-12; ETDE: 1980-03-29

USE dec computers

**VBWR REACTOR**

General Electric Co., Sunol, California, USA.  
 Decommissioned in 1963.

UF vallecitos vbwr reactor  
 \*BT1 bwr type reactors

**vcocl**

ETDE: 2002-05-24

USE vcoclnd

**VCOCLND**

Vienna Convention on Civil Liability for Nuclear Damage.

UF damage, vienna convention on liability  
 UF liability conv nuclear damage, vienna  
 UF nuclear damage, vienna civil liability convention  
 UF vcocl  
 UF vienna convention on civil liability  
 \*BT1 international agreements  
 RT civil liability  
 RT nuclear damage  
 RT nuclear liability

**vector-axial vector theory**

USE v-a theory

**VECTOR CURRENTS**

\*BT1 algebraic currents  
 RT axial-vector currents  
 RT cvc theory  
 RT pvc theory  
 RT v-a theory

**VECTOR DOMINANCE MODEL**

\*BT1 particle models  
 RT vector mesons

**VECTOR FIELDS**

RT quantum chromodynamics  
 RT quantum field theory

**VECTOR MESONS**

1995-08-07

Mesons with spin and parity 1-

SF *upsilon resonances*  
 \*BT1 mesons  
 NT1 b\*-5325 mesons  
 NT1 d\*-2010 mesons  
 NT1 j psi-3097 mesons  
 NT1 k\*-1410 mesons  
 NT1 k\*-1680 mesons  
 NT1 k\*-892 mesons  
 NT1 omega-1420 mesons  
 NT1 omega-1600 mesons  
 NT1 omega-782 mesons  
 NT1 phi-1020 mesons  
 NT1 phi-1680 mesons  
 NT1 psi-3685 mesons  
 NT1 psi-3770 mesons  
 NT1 psi-4040 mesons  
 NT1 psi-4160 mesons  
 NT1 psi-4415 mesons  
 NT1 rho-1450 mesons  
 NT1 rho-1700 mesons  
 NT1 rho-2150 mesons  
 NT1 rho-770 mesons  
 NT1 upsilon-10023 mesons  
 NT1 upsilon-10355 mesons  
 NT1 upsilon-10580 mesons  
 NT1 upsilon-10860 mesons  
 NT1 upsilon-11020 mesons  
 NT1 upsilon-9460 mesons  
 RT gluon model  
 RT gluons  
 RT higgs model  
 RT meson nonets  
 RT vector dominance model

**VECTOR PROCESSING**

INIS: 1997-06-17; ETDE: 1983-11-09

BT1 programming  
 RT algorithms  
 RT cedar computers  
 RT computers  
 RT parallel processing  
 RT supercomputers

**VECTORS**

BT1 tensors  
 NT1 isovectors  
 RT banach space  
 RT eigenvectors  
 RT helmholtz theorem  
 RT laplacian  
 RT mathematics  
 RT poynting theorem  
 RT spinors  
 RT tensor forces

**VEGA SPACE PROBES**

INIS: 1985-04-22; ETDE: 1985-05-07

\*BT1 space vehicles

**VEGARD LAW**

RT alloy systems  
 RT crystal lattices

**VEGETABLE OILS**

INIS: 1996-10-22; ETDE: 1983-03-07

(Prior to March 1983 this concept was indexed to PLANTS and OILS in ETDE.)

UF *croton oil*  
 UF *tigilium oil*  
 \*BT1 oils  
 NT1 castor oil  
 NT1 corn oil  
 NT1 cottonseed oil  
 NT1 linseed oil  
 NT1 olive oil  
 NT1 palm oil  
 NT1 peanut oil  
 NT1 sesame oil  
 NT1 soybean oil  
 NT1 sunflower oil  
 RT essential oils

**VEGETABLES**

Edible parts of plants only.

BT1 food  
 BT1 plants  
 NT1 beans  
 NT2 mungbeans  
 NT1 beets  
 NT2 sugar beets  
 NT1 brassica  
 NT2 kale  
 NT1 carrots  
 NT1 cucumbers  
 NT1 garlic  
 NT1 lettuce  
 NT1 onions  
 NT2 allium cepa  
 NT1 peas  
 NT1 peppers  
 NT1 potatoes  
 NT1 radishes  
 NT1 soybeans  
 NT1 spinach  
 NT1 yams  
 RT crops

**vegetation**

USE plants

**VEGETATIVE PROPAGATION**

1999-05-05

BT1 cloning  
 RT adventitious bud technique  
 RT plants  
 RT reproduction

**VEHICLES**

1995-09-08

(From February 1982 till March 1997 TRAILERS was a valid ETDE descriptor.)

UF *motor vehicles*  
 SF *trailers*  
 NT1 air cushion vehicles  
 NT1 automobiles  
 NT1 bicycles  
 NT1 buses  
 NT1 electric-powered vehicles  
 NT2 hybrid electric-powered vehicles  
 NT2 roadway-powered electric vehicles  
 NT1 flywheel-powered vehicles  
 NT1 low-emission vehicles  
 NT1 mine cars  
 NT1 motorcycles  
 NT1 railroad cars  
 NT1 recreational vehicles  
 NT1 space vehicles  
 NT2 luna space probes  
 NT2 mariner space probes  
 NT2 mars space probes  
 NT2 mir orbital station  
 NT2 pioneer space probes  
 NT2 reentry vehicles

**NT2** salyut orbital stations  
**NT2** space shuttles  
**NT2** vega space probes  
**NT2** venera space probes  
**NT2** viking space probes  
**NT2** voyager space probes  
**NT1** taxicabs  
**NT1** trackless vehicles  
**NT1** trains  
**NT2** levitated trains  
**NT2** locomotives  
**NT1** trucks  
**NT1** vans  
*RT* earthmoving equipment  
*RT* mechanical transmissions  
*RT* mobile homes  
*RT* motor vehicle accidents  
*RT* motor vehicle operators  
*RT* occupants  
*RT* postal services  
*RT* propulsion systems  
*RT* rail transport  
*RT* road tests  
*RT* road transport  
*RT* tires  
*RT* traffic control  
*RT* transport  
*RT* wheels  
**VEINS**  
**\*BT1** blood vessels  
**NT1** portal system  
*RT* intravenous injection  
*RT* lymph vessels  
**VELA PROJECT**  
 1996-07-23  
 (Prior to February 1996 COWBOY EVENT and LOLLIPOP EVENT were valid ETDE descriptors; prior to March 1997 SHOAL EVENT was a valid ETDE descriptor.)  
*UF* cowboy event  
*UF* lollipop event  
*UF* project vela  
*UF* shoal event  
**NT1** gnome event  
**NT1** long shot event  
**NT1** salmon event  
**NT1** sterling event  
*RT* nuclear explosions  
*RT* seismic detection  
*RT* seismology  
*RT* underground explosions  
**VELOCIMETERS**  
*INIS: 1978-11-24; ETDE: 1975-08-19*  
*UF* speed indicators  
**BT1** measuring instruments  
*RT* accelerometers  
*RT* velocity  
**VELOCITY**  
*UF* speed  
**NT1** angular velocity  
**NT1** critical velocity  
**NT1** mach number  
**NT1** phase velocity  
**NT1** radial velocity  
**NT1** slip velocity  
*RT* acceleration  
*RT* flow rate  
*RT* kinetic energy  
*RT* linear momentum  
*RT* motion  
*RT* velocimeters  
**velocity-pumps reaction turbines**  
*INIS: 2000-04-12; ETDE: 1979-07-24*  
 (Prior to January 1995, this was a valid ETDE descriptor.)  
**USE** turbines

**VENERA SPACE PROBES**  
*INIS: 1978-09-28; ETDE: 1979-06-21*  
**\*BT1** space vehicles  
*RT* space flight  
**VENEZIANO MODEL**  
**\*BT1** particle models  
**NT1** dual resonance model  
*RT* scattering amplitudes  
**VENEZUELA**  
**BT1** developing countries  
**\*BT1** south america  
*RT* andes  
*RT* opec  
**VENOMS**  
*RT* toxicity  
*RT* toxins  
**VENTILATION**  
*UF* natural ventilation  
*UF* ventilation ducts  
**NT1** displacement ventilation  
*RT* aerosols  
*RT* air  
*RT* air cleaning  
*RT* air cleaning systems  
*RT* air conditioning  
*RT* air flow  
*RT* airtightness  
*RT* ceiling fans  
*RT* exhaust systems  
*RT* filters  
*RT* fume hoods  
*RT* gaseous wastes  
*RT* stacks  
*RT* ventilation barriers  
*RT* ventilation systems  
**VENTILATION BARRIERS**  
*INIS: 1996-04-18; ETDE: 1978-05-03*  
*Physical barriers used in mines to prevent harmful gases or smoke from mixing with air in the area being worked by miners.*  
*UF* stoppings  
*SF* barriers  
**BT1** engineered safety systems  
*RT* ventilation  
**ventilation ducts**  
*INIS: 2000-04-12; ETDE: 1977-06-24*  
**USE** ducts  
**USE** ventilation  
**VENTILATION SYSTEMS**  
*INIS: 1992-04-13; ETDE: 1978-01-23*  
*RT* air cleaning systems  
*RT* air conditioning  
*RT* air flow  
*RT* displacement ventilation  
*RT* space hvac systems  
*RT* ventilation  
**VENTS**  
*RT* openings  
**VENTURI TUBES**  
*RT* flowmeters  
**VENUS PLANET**  
**BT1** planets  
**VENUS REACTOR**  
*UF* vulcain experiment nuclear study  
**\*BT1** enriched uranium reactors  
**\*BT1** experimental reactors  
**\*BT1** heavy water cooled reactors  
**\*BT1** heavy water moderated reactors  
**\*BT1** tank type reactors  
**\*BT1** thermal reactors  
**\*BT1** water cooled reactors

**\*BT1** water moderated reactors  
**VEP-1**  
**BT1** storage rings  
**VEPP-2**  
**BT1** storage rings  
**VEPP-3**  
**BT1** storage rings  
**VEPP-4**  
**BT1** storage rings  
**VERA REACTOR**  
*UK Ministry of Defence, Berkshire, United Kingdom.*  
*UF* versatile experimental reactor assembly  
**\*BT1** fast reactors  
**\*BT1** research reactors  
**\*BT1** zero power reactors  
*RT* enriched uranium reactors  
*RT* plutonium reactors  
**VERIFICATION**  
*INIS: 1995-04-09; ETDE: 1983-08-25*  
*Process or result of confirming the accuracy of reported information, data, etc.*  
*UF* data validation  
*UF* information validation  
*RT* arms control  
*RT* audits  
*RT* inspection  
*RT* on-site inspection  
*RT* treaties  
*RT* validation  
**VERMICULITE**  
**\*BT1** inorganic ion exchangers  
**\*BT1** mica  
*RT* aluminium silicates  
*RT* iron silicates  
*RT* magnesium silicates  
**VERMONT**  
 1997-06-17  
**\*BT1** usa  
*RT* connecticut river  
*RT* connecticut river basin  
**VERMONT YANKEE REACTOR**  
*Entergy Nuclear Operations, Inc., Vernon, Vermont, USA.*  
*UF* yankee vermont reactor  
**\*BT1** bwr type reactors  
**VERNACULAR ARCHITECTURE**  
 2005-06-01  
*Approach based on traditional methods which are especially suitable for the locality.*  
**BT1** architecture  
*RT* building codes  
*RT* construction  
*RT* energy conservation  
*RT* site selection  
**VERNALIZATION**  
*RT* cereals  
*RT* crops  
*RT* seasons  
*RT* seeds  
*RT* sprouting  
*RT* temperature dependence  
**VERNEUIL METHOD**  
 2000-04-12  
*Method of single-crystal growth in which powder is dropped through an oxy-hydrogen flame, falling molten on crystal seed.*  
**BT1** crystal growth methods  
**BT1** flames  
*RT* crystal growth

*RT* monocrystals

### vernier chronotrons

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE chronotrons

### VERPLANCK-1 REACTOR

*Consolidated Edison Co., Verplanck, New York, USA. Canceled in 1972 before construction began.*

\*BT1 bwr type reactors

### VERPLANCK-2 REACTOR

*Consolidated Edison Co., Verplanck, New York, USA. Canceled in 1972 before construction began.*

\*BT1 bwr type reactors

### versatile experimental reactor assembly

1993-11-10

USE vera reactor

### versatile intermediate pulsed experimental reactor

1993-11-10

USE viper reactor

### VERSATOR TOKAMAK

*INIS: 1986-03-04; ETDE: 1985-08-08*

*A tokamak confinement experiment at Massachusetts Institute of Technology used primarily for studies on rf heating and current drive using lower hybrid waves.*

\*BT1 tokamak devices

### versene

USE edta

### versuchatomkraftwerk kahl reactor

1993-11-10

USE vak reactor

### VERTEBRAE

*UF disks (intervertebral)*

*UF intervertebral disks*

*UF spine*

\*BT1 skeleton

*RT spinal cord*

*RT spondylitis*

### VERTEBRATES

*UF chordates*

BT1 animals

NT1 amphibians

NT2 frogs

NT2 salamanders

NT3 triturus

NT2 toads

NT1 birds

NT2 fowl

NT3 chickens

NT3 ducks

NT3 geese

NT2 pigeons

NT1 fishes

NT2 anadromous fishes

NT3 salmon

NT3 striped bass

NT2 codfish

NT2 eel

NT2 fathead minnow

NT2 goldfish

NT2 plaice

NT2 trout

NT2 tuna

NT1 mammals

NT2 bats

NT2 bears

NT2 burros

NT2 cats

NT2 cetaceans

NT2 coyotes

NT2 dogs

NT3 beagles

NT2 foxes

NT2 horses

NT2 marsupials

NT2 otters

NT2 pinnipeds

NT2 primates

NT3 apes

NT3 man

NT4 children

NT5 infants

NT4 elderly people

NT4 men

NT4 women

NT3 monkeys

NT4 baboons

NT4 macacus

NT2 rabbits

NT2 rodents

NT3 gerbils

NT3 guinea pigs

NT3 hamsters

NT3 mice

NT4 transgenic mice

NT3 prairie dogs

NT3 rats

NT3 squirrels

NT3 voles

NT2 ruminants

NT3 buffalo

NT3 camels

NT3 cattle

NT4 calves

NT4 cows

NT3 deer

NT3 goats

NT3 llamas

NT3 sheep

NT2 shrews

NT2 swine

NT3 miniature swine

NT2 wolves

NT1 reptiles

NT2 alligators

NT2 lizards

NT2 snakes

NT2 turtles

### VERTEX FUNCTIONS

BT1 functions

*RT form factors*

*RT quantum field theory*

### VERTICAL AXIS TURBINES

*INIS: 1992-09-24; ETDE: 1976-02-19*

\*BT1 wind turbines

NT1 giromill turbines

NT1 tornado turbines

*RT darrieus rotors*

*RT madaras rotors*

*RT savonius rotors*

### VERTICAL DIVESTITURE

*INIS: 2000-04-19; ETDE: 1977-09-19*

*Required breaking up of (energy) companies into production, refining, and marketing components.*

*RT competition*

*RT petroleum industry*

*RT regulations*

### VERTICAL INTEGRATION

*INIS: 1999-09-13; ETDE: 1978-04-27*

*RT competition*

*RT petroleum industry*

### very high frequency

USE mhz range

### very high frequency radiation

USE mhz range

USE radiowave radiation

### very high pressure

(Prior to November 2003 this was a valid descriptor.)

SEE pressure range giga pa

SEE pressure range mega pa 100-1000

### very high temperature

1992-01-23

(Prior to February 1992, this was a valid ETDE descriptor.)

USE temperature range 1000-4000 k

### very low pressure

SEE pressure range milli pa

SEE pressure range pa

### very low temperature

1992-01-23

(Prior to February 1992, this was a valid ETDE descriptor.)

USE temperature range 0013-0065 k

### vessels

USE containers

### vessels (chemical reactions)

*INIS: 1985-12-10; ETDE: 1976-05-17*

USE chemical reactors

### vessels (pressure)

USE pressure vessels

### vessels (reactor)

USE reactor vessels

### VESTIBULAR APPARATUS

*UF labyrinth*

\*BT1 sense organs

*RT auditory organs*

### VESUVIANITE

*INIS: 2000-04-12; ETDE: 1981-04-17*

\*BT1 uranium minerals

### vetch

USE vicia

### veterans administration hospital triga reactor

1993-11-10

USE triga-veterans reactor

### VETERINARY MEDICINE

BT1 medicine

*RT animals*

### VG-400 REACTOR

*INIS: 1989-04-20; ETDE: 1989-05-11*

\*BT1 enriched uranium reactors

\*BT1 helium cooled reactors

\*BT1 htgr type reactors

\*BT1 pebble bed reactors

\*BT1 power reactors

\*BT1 thermal reactors

### vgl devices

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE magnetic mirrors

### VGR-50 REACTOR

*INIS: 1989-04-20; ETDE: 1989-05-11*

\*BT1 enriched uranium reactors

\*BT1 helium cooled reactors

\*BT1 htgr type reactors

\*BT1 pebble bed reactors

- \*BT1 power reactors
- \*BT1 thermal reactors

**vhf**

- USE mhz range

**vhf radiation**

- USE mhz range
- USE radiowave radiation

**VHTR REACTOR**

- INIS: 1978-01-16; ETDE: 1978-03-03*
- UF *experimental very high temperature gas cooled reactor*
  - UF *multipurpose vht reactor*
  - \*BT1 enriched uranium reactors
  - \*BT1 experimental reactors
  - \*BT1 helium cooled reactors
  - \*BT1 htgr type reactors
  - \*BT1 power reactors
  - \*BT1 thermal reactors

**VIABILITY**

- ETDE: 1975-09-11*
- RT biological regeneration
  - RT growth
  - RT life cycle
  - RT reproduction

**VIBRATING SAMPLE MAGNETOMETERS**

- \*BT1 magnetometers

**vibration modes**

- USE oscillation modes

**vibrational band**

- USE vibrational states

**VIBRATIONAL STATES**

- UF *collective states (vibrational)*
- UF *vibrational band*
- \*BT1 excited states
- RT infrared spectra
- RT lattice vibrations
- RT rotation-vibration model
- RT rydberg-klein-rees method

**vibrations (lattice)**

- USE lattice vibrations

**vibrations (mechanical)**

- USE mechanical vibrations

**VIBRON MODEL**

- INIS: 1992-08-06; ETDE: 1992-09-10*
- \*BT1 nuclear models
  - RT cluster model

**VICIA**

- UF *vetch*
- \*BT1 leguminosae

**VICKERS HARDNESS**

- RT hardness

**vicksi**

- INIS: 2000-04-12; ETDE: 1975-11-11*  
(Prior to July 1985, this was a valid ETDE descriptor.)
- USE vicksi accelerator

**VICKSI ACCELERATOR**

- INIS: 1976-02-11; ETDE: 1976-03-25*  
*Van de Graaff Isochronous Cyclotron Kombination fuer Schwere Ionen at Hahn-Meitner-Institut, Berlin.*
- UF *hahn-meitner vicksi accelerator*
  - UF *vicksi*
  - \*BT1 heavy ion accelerators
  - RT isochronous cyclotrons
  - RT van de graaff accelerators

**VICTIMS COMPENSATION**

- INIS: 1976-12-08; ETDE: 1978-03-08*  
*For victims not covered by workmens compensation.*
- RT accidents
  - RT exceptional natural disaster
  - RT financial security
  - RT insurance
  - RT liabilities
  - RT workmens compensation

**VICTORIA**

- \*BT1 australia

**VIDAL-1 REACTOR**

- INIS: 1976-02-11; ETDE: 1975-10-01*  
*Southern California Edison Co., Vidal, California, USA. Canceled in 1974 before construction began.*
- \*BT1 enriched uranium reactors
  - \*BT1 helium cooled reactors
  - \*BT1 htgr type reactors
  - \*BT1 power reactors
  - \*BT1 thermal reactors

**VIDAL-2 REACTOR**

- INIS: 1976-02-11; ETDE: 1975-10-01*  
*Southern California Edison Co., Vidal, California, USA. Canceled in 1974 before construction began.*
- \*BT1 enriched uranium reactors
  - \*BT1 helium cooled reactors
  - \*BT1 htgr type reactors
  - \*BT1 power reactors
  - \*BT1 thermal reactors

**VIDEO TAPES**

- INIS: 1985-03-19; ETDE: 1981-06-13*
- \*BT1 magnetic tapes
  - RT digitizers
  - RT image processing
  - RT images
  - RT remote viewing equipment
  - RT television

**VIDICONS**

- \*BT1 camera tubes
- RT television cameras

**vienna convention on civil liability**

- 1993-11-10*
- USE vcoclnd

**vienna triga-mk-2 reactor**

- INIS: 1984-06-21; ETDE: 2002-05-24*
- USE triga-2-vienna reactor

**VIET NAM**

- INIS: 1977-10-17; ETDE: 1978-03-08*
- BT1 asia
  - BT1 developing countries
  - RT centrally planned economies

**VIETNAMESE ORGANIZATIONS**

- 1993-08-06*
- BT1 national organizations

**vietnamese triga-mk-2 reactor**

- INIS: 1984-06-21; ETDE: 2002-05-24*
- USE triga-2-dalat reactor

**vietnamese triga-mk-ii reactor**

- 2000-04-12*
- USE triga-2-dalat reactor

**VIGNA**

- INIS: 1992-05-05; ETDE: 1993-01-20*
- UF *cowpea plants*
  - UF *mungbean plants*
  - \*BT1 leguminosae
  - RT mungbeans

**vikalloy 1**

- 1997-01-28*  
(Until October 1996 this was a valid descriptor.)
- USE cobalt base alloys
  - USE iron alloys
  - USE vanadium alloys

**vikalloy 2**

- INIS: 1996-07-16; ETDE: 1978-12-20*  
(Until July 1996 this was a valid descriptor.)
- USE cobalt base alloys
  - USE iron alloys
  - USE vanadium alloys

**VIKING SPACE PROBES**

- INIS: 1977-06-13; ETDE: 1976-09-28*
- \*BT1 space vehicles

**villigen cyclotron**

- USE sin cyclotron

**VINBLASTINE**

- \*BT1 alkaloids
- \*BT1 antimetabolic drugs
- \*BT1 indoles
- RT leukemia

**vinca r-a reactor yugoslavia**

- USE r-a reactor

**vinca r-b reactor yugoslavia**

- USE r-b reactor

**vincristine sulfate**

- INIS: 2002-03-17; ETDE: 2000-11-24*
- USE oncovin

**vinoflex**

- USE polyvinyls

**VINT TORSATRON**

- INIS: 1977-01-26; ETDE: 1977-04-13*
- \*BT1 torsatron stellarators

**VINTOTRON DEVICES**

- 2000-04-12*
- BT1 thermonuclear devices

**VINYL ACETATE**

- 2005-02-22*
- \*BT1 acetic acid esters
  - RT vinyl monomers

**VINYL CHLORIDE**

- INIS: 1992-03-17; ETDE: 1984-05-08*
- UF *monochloroethylene*
  - \*BT1 chlorinated aliphatic hydrocarbons

**vinyl cyanide**

- USE acrylonitrile

**VINYL MONOMERS**

- BT1 monomers
- RT acrolein
- RT acrylamide
- RT acrylates
- RT acrylic acid
- RT acrylic acid esters
- RT acrylonitrile
- RT methacrylates
- RT methacrylic acid
- RT methacrylic acid esters
- RT styrene
- RT vinyl acetate

**VINYL RADICALS**

- \*BT1 alkyl radicals

**vinylbenzene**

- USE styrene

**VINYLLIDENE RADICALS**

BT1 radicals

**violanthrone**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE condensed aromatics  
USE hydrocarbons  
USE ketones**VIOLATIONS**

INIS: 1993-06-04; ETDE: 1979-11-23

Failure to comply with laws or regulations;  
not for violations of invariance principles.

UF notice of probable violation

NT1 security violations  
RT administrative procedures  
RT compliance  
RT enforcement  
RT laws  
RT regulations**VIPER REACTOR**

UK Ministry of Defence, Berkshire, United Kingdom.

UF versatile intermediate pulsed  
experimental reactor\*BT1 enriched uranium reactors  
\*BT1 fast reactors  
\*BT1 organic moderated reactors  
\*BT1 pulsed reactors  
\*BT1 research reactors  
\*BT1 test reactors**VIRAL DISEASES**

INIS: 1982-12-08; ETDE: 1981-01-12

UF rinderpest

\*BT1 infectious diseases  
NT1 aids  
NT1 herpes simplex  
NT1 herpes zoster  
NT1 infectious hepatitis  
NT1 influenza  
NT1 measles  
NT1 newcastle disease  
NT1 poliomyelitis  
NT1 rabies  
RT cell transformations  
RT encephalitis  
RT host  
RT viruses**virgil c summer-1 reactor**

USE summer-1 reactor

**VIRGIN ISLANDS**

INIS: 1992-06-04; ETDE: 1979-07-24

\*BT1 lesser antilles  
\*BT1 usa**VIRGINIA**\*BT1 usa  
RT chesapeake bay  
RT james river  
RT potomac river  
RT potomac river basin  
RT us east coast**virginia polytechnic institute training reactor**

1993-11-10

USE vpi-utr-10 reactor

**virginia university reactor**

INIS: 1984-06-21; ETDE: 2002-05-24

USE uvar reactor

**VIRIAL EQUATION**

1999-07-07

In thermodynamics only.

BT1 equations

RT equations of state  
RT gases  
RT thermodynamics  
RT van der waals forces**VIRIAL THEOREM**

In mechanics only.

RT kinetic energy  
RT mechanics  
RT particles  
RT statistics**VIRTUAL HEIGHT**

2000-04-12

Apparent height of an ionized atmospheric layer determined from time interval between the transmitted signal and the ionospheric echo at vertical incident.

\*BT1 height  
RT ionosphere  
RT scale height**virtual mass effect**

INIS: 1976-03-17; ETDE: 1976-08-24

USE hydrodynamic mass effect

**VIRTUAL PARTICLES**BT1 elementary particles  
RT deep inelastic scattering**VIRTUAL STATES**

BT1 energy levels

**VIRULENCE**RT infectious diseases  
RT microorganisms**VIRUSES**BT1 microorganisms  
BT1 parasites  
NT1 aids virus  
NT1 bacteriophages  
NT1 influenza viruses  
NT1 measles virus  
NT1 oncogenic viruses  
NT2 adenovirus  
NT2 leukemia viruses  
NT2 polyoma virus  
NT1 polio virus  
NT1 simian virus  
NT1 tobacco mosaic virus  
NT1 vaccinia virus  
RT herpes simplex  
RT herpes zoster  
RT inoculation  
RT interferon  
RT mutagens  
RT newcastle disease  
RT particles  
RT plaque formation  
RT rabies  
RT vaccines  
RT viral diseases**VISCOSE**\*BT1 polysaccharides  
\*BT1 xanthates**VISCOSIMETERS**

BT1 measuring instruments

**VISCOSITY**UF heavy oils  
RT fluid flow  
RT grashof number  
RT hartmann number  
RT internal friction  
RT nusselt number  
RT rheology  
RT superfluidity  
RT thixotropy  
RT viscous flow**VISCOUS FLOW**BT1 fluid flow  
NT1 couette flow  
RT laminar flow  
RT navier-stokes equations  
RT prandtl number  
RT reynolds number  
RT stokes law  
RT turbulent flow  
RT viscosity**VISIBILITY**

INIS: 1986-05-23; ETDE: 1978-02-14

RT fog  
RT luminosity  
RT opacity  
RT optical properties  
RT pattern recognition  
RT smog  
RT smokes  
RT visible radiation**VISIBLE RADIATION**UF light  
UF photomagnetic effect  
\*BT1 electromagnetic radiation  
RT fresnel coefficient  
RT kerr effect  
RT laser radiation  
RT light scattering  
RT light sources  
RT lighting requirements  
RT lighting systems  
RT monochromatic radiation  
RT opacity  
RT photon beams  
RT photoperiod  
RT photoreactivation  
RT raman effect  
RT reflectivity  
RT schlieren method  
RT visibility  
RT visible spectra  
RT voigt effect**VISIBLE SPECTRA**

INIS: 1976-07-30; ETDE: 1976-11-01

BT1 spectra  
RT visible radiation**VISION**

RT eyes

**visitor centers**

INIS: 2000-04-12; ETDE: 1981-01-09

USE public buildings

**visual purple**

INIS: 1986-03-04; ETDE: 2002-05-24

USE rhodopsin

**VITALLIUM**

2000-04-12

\*BT1 chromium alloys  
\*BT1 cobalt alloys  
\*BT1 molybdenum alloys**VITAMIN A**UF axerophthol  
UF retinol  
BT1 vitamins  
RT carotenoids  
RT retinoic acid**vitamin b-1**

USE thiamine

**VITAMIN B-12**UF cyanocobalamin  
\*BT1 hematinics  
\*BT1 vitamin b group  
RT anemias

*RT* intrinsic factor

### **vitamin b-2**

USE riboflavin

### **vitamin b-5**

USE pantothenic acid

### **vitamin b-6**

USE pyridoxine

## **VITAMIN B GROUP**

BT1 vitamins  
 NT1 biotin  
 NT1 carnitine  
 NT1 folic acid  
 NT1 nicotinamide  
 NT1 nicotinic acid  
 NT1 pantothenic acid  
 NT1 pyridoxine  
 NT1 riboflavin  
 NT1 thiamine  
 NT1 vitamin b-12  
*RT* adenines  
*RT* citrovorum factor  
*RT* coenzymes  
*RT* lipotropic factors  
*RT* paba  
*RT* pyridoxal

### **vitamin b-t**

USE carnitine

### **vitamin c**

USE ascorbic acid

## **VITAMIN D**

BT1 vitamins  
 NT1 cholecalciferol  
 NT1 ergocalciferol  
*RT* rickets

### **vitamin d-2**

USE ergocalciferol

### **vitamin d-3**

USE cholecalciferol

## **VITAMIN E**

*UF* tocopherols  
 BT1 vitamins

### **vitamin h**

USE biotin

### **vitamin h-1**

USE paba

## **VITAMIN K**

\*BT1 quinones  
 BT1 vitamins  
*RT* anticoagulants  
*RT* blood coagulation factors  
*RT* ubiquinone

### **vitamin p**

USE bioflavonoids

### **vitamin pp**

USE nicotinamide

## **VITAMINS**

NT1 ascorbic acid  
 NT1 bioflavonoids  
 NT1 vitamin a  
 NT1 vitamin b group  
 NT2 biotin  
 NT2 carnitine  
 NT2 folic acid  
 NT2 nicotinamide  
 NT2 nicotinic acid  
 NT2 pantothenic acid  
 NT2 pyridoxine

NT2 riboflavin  
 NT2 thiamine  
 NT2 vitamin b-12  
 NT1 vitamin d  
 NT2 cholecalciferol  
 NT2 ergocalciferol  
 NT1 vitamin e  
 NT1 vitamin k  
*RT* biochemistry  
*RT* carotenoids  
*RT* diet  
*RT* drugs  
*RT* food  
*RT* food additives  
*RT* metabolism

## **VITON**

\*BT1 rubbers

## **VITRIFICATION**

*SF* immobilization (wastes)  
*RT* ceramic melters  
*RT* glass  
*RT* harvest process  
*RT* metallic glasses  
*RT* pamela plant  
*RT* radioactive waste processing  
*RT* solidification  
*RT* waste processing

## **VITRINITE**

*INIS: 2000-04-12; ETDE: 1979-09-27*  
 BT1 macerals

## **VIVITRON TANDEM**

**ACCELERATOR**  
*INIS: 1990-12-15; ETDE: 1991-08-20*  
*Nuclear Research Center, Strasbourg, France.*  
 \*BT1 tandem electrostatic accelerators  
 \*BT1 van de graaff accelerators

## **VK-50 REACTOR**

*Dimitrovgrad, Russian Federation.*  
*UF* ulyanovsk reactor vk-50  
 \*BT1 bwr type reactors

## **vlasov equation**

USE boltzmann-vlasov equation

## **vlasov instability**

*ETDE: 2002-05-24*  
 USE boltzmann-vlasov equation

## **vlasov-maxwell equations**

*INIS: 2000-04-12; ETDE: 1995-09-22*  
 USE boltzmann-vlasov equation

## **vib systems**

*INIS: 1984-04-04; ETDE: 2002-05-24*  
 USE interferometers

## **vlcc**

*INIS: 2000-04-12; ETDE: 1976-08-04*  
 USE tanker ships

## **VMI MODEL**

*UF* variable moment of inertia model  
 \*BT1 nuclear models  
*RT* backbending  
*RT* moment of inertia

## **vnt alloys**

*INIS: 1996-11-13; ETDE: 1978-12-20*  
 (Prior to March 1997 STEEL VNT was used for this concept in ETDE.)  
 USE manganese steels

## **voc**

*INIS: 2000-04-12; ETDE: 1992-09-15*  
 USE organic compounds  
 USE volatile matter

## **vocabulary (controlled)**

USE standardized terminology

## **vocational training**

*INIS: 2000-04-12; ETDE: 1980-09-22*  
 USE training

## **VOGTLE-1 REACTOR**

*Southern Nuclear Operating Co., Inc., Waynesboro, Georgia, USA.*  
 \*BT1 pwr type reactors

## **VOGTLE-2 REACTOR**

*Southern Nuclear Operating Co., Inc., Waynesboro, Georgia, USA.*  
 \*BT1 pwr type reactors

## **VOGTLE-3 REACTOR**

*Georgia Power Co., Waynesboro, Georgia, USA. Canceled in 1974 before construction began.*  
 \*BT1 pwr type reactors

## **VOGTLE-4 REACTOR**

*Georgia Power Co., Waynesboro, Georgia, USA. Canceled in 1974 before construction began.*  
 \*BT1 pwr type reactors

## **VOID COEFFICIENT**

BT1 reactivity coefficients

## **VOID FRACTION**

*RT* liquids  
*RT* vapors

## **VOIDS**

*RT* boiling detection  
*RT* bubbles  
*RT* cavities  
*RT* defects

## **VOIGT EFFECT**

*UF* cotton-mouton effect  
 BT1 magneto-optical effects  
*RT* plasma  
*RT* polarization  
*RT* visible radiation

## **VOLATILE MATTER**

*INIS: 1986-05-26; ETDE: 1976-09-14*  
*Materials capable of being readily evaporated.*

*UF* voc  
 BT1 matter  
*RT* coal  
*RT* devolatilization  
*RT* pyrolysis products  
*RT* pyrolytic gases  
*RT* pyrolytic oils  
*RT* volatility

## **VOLATILITY**

*RT* chloride volatility process  
*RT* devolatilization  
*RT* distillation  
*RT* fluoride volatility process  
*RT* volatile matter

## **volatilization**

USE evaporation

## **VOLCANIC GASES**

*INIS: 1993-03-23; ETDE: 1978-08-08*  
*Volatile matter released during a volcanic eruption that was previously dissolved in the magma.*  
 \*BT1 gases  
*RT* fumarolic fluids  
*RT* volcanism  
*RT* volcanoes

**VOLCANIC REGIONS**

1997-06-17

- RT hachimantai  
RT volcanoes

**VOLCANIC ROCKS**

1976-03-17

- \*BT1 igneous rocks  
NT1 andesites  
NT1 basalt  
NT2 diabases  
NT1 lamprophyres  
NT2 kimberlites  
NT1 nepheline basalts  
NT1 perlite  
NT1 rhyolites  
NT1 trachytes  
NT1 tuff

**VOLCANISM**

INIS: 1992-04-13; ETDE: 1975-11-11

The process by which magma and its associated gases rise into the earth's crust and are extruded onto the earth's surface and into the atmosphere.

- RT eruption  
RT lava  
RT magma  
RT magmatism  
RT volcanic gases  
RT volcanoes

**VOLCANOES**

1996-04-29

- NT1 kilauea volcano  
RT calderas  
RT earth crust  
RT eruption  
RT fumaroles  
RT geology  
RT geothermal energy  
RT hot spots  
RT lava  
RT magma  
RT mt st helens  
RT volcanic gases  
RT volcanic regions  
RT volcanism

**VOLES**

- \*BT1 rodents

**VOLGA RIVER**

- \*BT1 rivers  
RT russian federation

**VOLOXIDATION PROCESS**

Separation process designed to remove volatile fission products from spent LMFBR fuels.

- BT1 head end processes

**volt-ampere characteristic**

- USE electric conductivity

**volt-ampere reactive control systems**

INIS: 2000-04-12; ETDE: 1983-03-23

- USE var control systems

**voltage**

- USE electric potential

**VOLTAGE DROP**

INIS: 1999-07-01; ETDE: 1976-01-07

- NT1 electrical transients  
RT electric potential  
RT resistors

**VOLTAGE REGULATORS**

- UF regulators (voltage)  
RT electric controllers  
RT surges

**voltaic cells**

- USE electric batteries

**VOLTAMETRY**

- UF coulometry  
RT currents  
RT electrolysis  
RT electrolytic cells  
RT potentiostats  
RT quantitative chemical analysis

**volterra equations**

- USE volterra integral equations

**VOLTERRA INTEGRAL EQUATIONS**

- UF volterra equations  
\*BT1 integral equations

**VOLTMETERS**

- \*BT1 electric measuring instruments

**VOLUME**

- RT dilatancy  
RT dimensions  
RT size

**VOLUMETRIC ANALYSIS**

1995-11-22

- \*BT1 quantitative chemical analysis  
NT1 titration  
NT2 amperometry  
NT2 iodometry  
NT2 potentiometry  
NT2 thermometric titration

**VOMITING**

- BT1 symptoms  
RT digestive system diseases  
RT stomach

**VORONEZH AST-500 REACTOR**

INIS: 1990-01-29; ETDE: 1990-02-13

Voronezh, Russian Federation.

- \*BT1 thermal reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

**VORTEX AUGMENTED TURBINES**

INIS: 2000-04-12; ETDE: 1977-06-02

Horizontal axis turbines located at trailing ends of aerodynamic wing to utilize vortex air flow from wing tips.

- \*BT1 wind turbines  
RT horizontal axis turbines

**VORTEX FLOW**

(Prior to October 1981 this concept was indexed to SWIRL FLOW in ETDE.)

- UF swirl flow  
BT1 fluid flow  
RT superfluidity

**VORTICES**

- RT turbulence

**vortices (magnetic)**

- USE magnetic flux

**VOYAGER SPACE PROBES**

INIS: 1978-04-21; ETDE: 1978-07-06

- \*BT1 space vehicles

**vpi and su training reactor**

INIS: 1985-04-22; ETDE: 2002-05-24

- USE vpi-utr-10 reactor

**VPI-UTR-10 REACTOR**

1985-04-22

Virginia Polytechnic Inst. and State Univ., Blacksburg, Virginia, USA. Shut down in 1985.

- UF virginia polytechnic institute training reactor

UF vpi and su training reactor

- \*BT1 argonaut type reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**VR-1 REACTOR**

INIS: 1986-08-19; ETDE: 1986-09-05

Faculty of Nuclear Science and Technical Engineering, Czech Technical Univ., Prague, Czech Republic.

- \*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**VRAIN REACTOR**

Public Service Co. of Colorado, Platteville, Colorado, USA. Shut down in 1989; decommissioned in 1996.

- UF fort st. vrain reactor  
\*BT1 enriched uranium reactors  
\*BT1 helium cooled reactors  
\*BT1 htgr type reactors  
\*BT1 power reactors

**VUILLEUMIER CYCLE**

INIS: 2000-04-12; ETDE: 1978-01-23

- BT1 thermodynamic cycles  
RT solar air conditioners

**VUJE**

2002-12-17

- UF nuclear power plant research institute  
UF vyskumny ustav jadrovych elektrarni  
\*BT1 slovak organizations

**vulcain/belgian-3 reactor**

- USE br-3-vn reactor

**vulcain experiment nuclear study**

2000-04-12

- USE venus reactor

**VULCAN FACILITY**

INIS: 1999-07-26; ETDE: 1999-09-03

Neodymium laser facility at Rutherford Appleton Laboratories, UK.

- RT laser fusion reactors  
RT neodymium lasers

**VULCANIZATION**

- RT curing  
RT rubbers  
RT vulcanized elastomers

**VULCANIZED ELASTOMERS**

1999-06-30

- NT1 ebonite  
RT elastomers  
RT vulcanization

**VULNERABILITY**

INIS: 1992-04-06; ETDE: 1978-07-05

(From May 1987 till March 1997

TERRORISM was a valid ETDE descriptor.)

- SF terrorism  
RT sabotage  
RT safeguards  
RT theft  
RT warfare

**vulpes**

INIS: 1993-02-18; ETDE: 1985-03-12

- USE foxes

**VYCOR**

- RT glass

**vyskumny ustav jadrovych elektrarni**

2002-12-17

- USE vuje

**w. b. mc guire-1 reactor**

USE mc guire-1 reactor

**w. b. mc guire-2 reactor**

USE mc guire-2 reactor

**w boson**

ETDE: 2002-05-24

USE intermediate bosons

**W CODES**

BT1 computer codes

**W-L SULFUR DIOXIDE RECOVERY PROCESS**

2000-04-12

*Process for desulfurization of waste gas stream developed by Wellman-Power Gas, Inc.*

UF wellman-lord process

\*BT1 desulfurization

RT waste processing

**W MINUS BOSONS**

INIS: 1986-03-04; ETDE: 1985-10-11

(Prior to October 1985 this concept was indexed to INTERMEDIATE VECTOR BOSONS in ETDE.)

\*BT1 intermediate vector bosons

**W PLUS BOSONS**

INIS: 1986-03-04; ETDE: 1985-10-11

(Prior to October 1985 this concept was indexed to INTERMEDIATE VECTOR BOSONS in ETDE.)

\*BT1 intermediate vector bosons

**w stellarators**

2000-04-12

(Prior to January 1995, this was a valid ETDE descriptor.)

SEE wendelstein-2b stellarator

SEE wendelstein-7 stellarator

**WABASCA DEPOSIT**

1992-06-04

\*BT1 oil sand deposits

RT alberta

RT canada

RT oil sands

**WACKERSDORF REPROCESSING PLANT**

INIS: 1995-09-18; ETDE: 1988-05-23

*Wiederaufarbeitungsanlage Wackersdorf, Federal Republic of Germany.*

UF wav

UF wiederaufarbeitungsanlage wackersdorf

\*BT1 fuel reprocessing plants

RT reprocessing

RT spent fuel elements

RT spent fuels

**WADDEN SEA**

1999-01-12

\*BT1 north sea

RT netherlands

**wageningen barn reactor**

USE barn reactor

**WAGES**

INIS: 1992-10-05; ETDE: 1980-08-12

UF salary

RT personnel

RT work

**wagon wheel event**

1994-10-14

*A test made under PROJECT PLOWSHARE.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE contained explosions

USE nuclear explosions

**WAGR REACTOR**

UF agr reactor (windscale)

UF windscale advanced gas-cooled reactor

\*BT1 agr type reactors

\*BT1 carbon dioxide cooled reactors

\*BT1 power reactors

\*BT1 thermal reactors

**WAIOTAPU GEOTHERMAL FIELD**

2000-04-12

BT1 geothermal fields

RT new zealand

**WAIRAKEI GEOTHERMAL FIELD**

1993-02-08

BT1 geothermal fields

RT geothermal hot-water systems

RT new zealand

**WAIRAKITE**

2000-04-12

*The calcium analog of analcime.*

\*BT1 zeolites

**WAK***Wiederaufarbeitungsanlage Karlsruhe.*

UF karlsruhe reprocessing plant

UF wiederaufarbeitungsanlage karlsruhe

\*BT1 fuel reprocessing plants

\*BT1 german fr organizations

RT reprocessing

RT spent fuel elements

RT spent fuels

**WAKEFIELD ACCELERATORS**

INIS: 1987-04-28; ETDE: 1986-07-25

*Accelerators in which particles gain energy from electromagnetic waves (the "wake") generated by a relativistic beam.*

\*BT1 linear accelerators

RT acceleration

RT plasma waves

**WALECKA MODEL**

INIS: 1984-10-23; ETDE: 1984-11-08

*A mean-field theory of nuclear matter with scalar and vector fields as carriers of nuclear forces.*

\*BT1 nuclear models

RT nuclear matter

**walker carcinoma**

USE experimental neoplasms

**wall effect**

INIS: 1982-12-01; ETDE: 2002-05-24

(Prior to January 1983 this was a valid descriptor for the contribution to ionization in an ionization chamber by electrons liberated from the chamber walls.)

USE wall effects

**WALL EFFECTS**

1995-07-03

UF plasma-wall interactions

UF wall effect

RT end effects

RT ionization

RT ionization chambers

RT microdosimetry

RT particle influx

RT plasma

RT plasma impurities

RT proportional counters

RT wall-less counters

**WALL-LESS COUNTERS**

\*BT1 radiation detectors

RT ionization chambers

RT proportional counters

RT wall effects

**WALL LOADING**

INIS: 1975-08-20; ETDE: 1975-10-01

*Surface power density at thermonuclear reactor walls.*

BT1 power density

RT first wall

**WALLS**

INIS: 1992-05-26; ETDE: 1975-11-11

UF building envelope

NT1 bead walls

NT1 drum walls

NT1 trombe walls

NT1 water walls

RT buildings

RT panels

**walls (cell)**

INIS: 1992-05-26; ETDE: 2002-05-24

USE cell wall

**walls (thermonuclear reactor)**

INIS: 1992-05-26; ETDE: 2002-05-24

USE thermonuclear reactor walls

**walter reed research reactor I-54**

1993-11-10

USE wrrr reactor

**WALTHER PROCESS**

INIS: 2000-04-12; ETDE: 1982-08-11

*Desulfurization process in which ammonia is used to produce pelletized ammonium sulfate as a dry end product for direct use as a fertilizer.*

\*BT1 desulfurization

**WANKEL ENGINES**

2000-04-12

\*BT1 rotary engines

\*BT1 spark ignition engines

**WANO**

INIS: 1990-05-17; ETDE: 1990-06-01

*World Association of Nuclear Operators.*

UF world association of nuclear operators

BT1 international organizations

RT nuclear operators

**wapa**

INIS: 2000-04-12; ETDE: 1980-03-29

USE western area power administration

**WARD IDENTITY**

RT gauge invariance

RT quantum electrodynamics

**WARFARE**

1997-06-17

NT1 biological warfare

NT1 chemical warfare

NT1 conventional warfare

NT1 radiological warfare

RT military strategy

RT national defense

RT vulnerability

**WARM SPRINGS**

INIS: 2000-01-26; ETDE: 1980-06-06

*Springs whose temperature is appreciably above the local mean annual temperature but below that of the human body.*

SF geothermal springs



- \*BT1 thermal springs
- RT hydrothermal systems

**warning systems**

- INIS: 1984-04-04; ETDE: 2002-05-24
- USE alarm systems

**WARRANTIES**

- INIS: 2000-04-19; ETDE: 1979-07-24
- RT consumer protection
- RT equipment
- RT legal aspects

**WARSAW CYCLOTRON**

- INIS: 1982-07-22; ETDE: 1982-08-11
- \*BT1 heavy ion accelerators
- \*BT1 isochronous cyclotrons

**WASATCH FORMATION**

- 1984-04-04
- BT1 geologic formations
- RT colorado
- RT natural gas
- RT natural gas deposits
- RT oil shales
- RT uranium deposits
- RT wyoming

**WASHAKIE BASIN**

- 2000-04-12
- \*BT1 wyoming
- RT green river formation
- RT oil shale deposits

**washers, clothes**

- INIS: 2000-04-12; ETDE: 1977-06-21
- USE clothes washers

**washers (fuel)**

- USE fuel washers

**WASHING**

- 1992-03-11
- UF laundries
- BT1 cleaning
- RT clothes washers
- RT coal preparation
- RT dishwashers
- RT heavy media separation
- RT safety showers
- RT scrubbing

**WASHINGTON**

- 1999-03-03
- \*BT1 usa
- NT1 richland
- RT cascade mountains
- RT columbia river
- RT columbia river basin
- RT hanford engineering development laboratory
- RT hanford reservation
- RT lewis river
- RT mt baker
- RT mt st helens
- RT pasco basin
- RT puget sound
- RT sequim bay
- RT skagit river
- RT us west coast

**WASHINGTON DC**

- UF district of columbia
- \*BT1 usa
- RT potomac river basin

**washington public power supply system-1 reactor**

- INIS: 2000-04-12; ETDE: 1997-03-28
- USE wnp-1 reactor

**washington public power supply system-2 reactor**

- INIS: 2000-04-12; ETDE: 1997-03-28
- USE wnp-2 reactor

**washington public power supply system-3 reactor**

- INIS: 2000-04-12; ETDE: 1997-03-28
- USE wnp-3 reactor

**washington public power supply system-4 reactor**

- INIS: 2000-04-12; ETDE: 1997-03-28
- USE wnp-4 reactor

**washington public power supply system-5 reactor**

- INIS: 2000-04-12; ETDE: 1997-03-28
- USE wnp-5 reactor

**washington state university reactor**

- 1993-11-10
- USE wsur reactor

**washington university (seattle) reactor**

- INIS: 1993-11-10; ETDE: 2002-05-24
- USE uwtr reactor

**WASHOUT**

- UF rainout
- UF scavenging (atmospheric)
- UF wet deposition
- BT1 fallout
- RT air pollution
- RT atmospheric precipitations
- RT decontamination
- RT droplets
- RT precipitation scavenging
- RT radioactive clouds
- RT rain
- RT sprays
- RT water

**WASPALOY**

- 1993-10-03
- \*BT1 alloy-ni58cr20co14mo4ti3

**WASPS**

- 1996-11-13
- (Prior to March 1997 HABROBRACON was a valid ETDE descriptor.)
- UF habrobracon
- \*BT1 hymenoptera

**waste burial**

- SEE ground disposal
- SEE underground disposal

**waste chemicals**

- INIS: 1986-07-09; ETDE: 1982-03-29
- USE chemical wastes

**WASTE DISPOSAL**

- For final disposal of wastes, with no intention of retrieval.
- UF discharges (wastes)
- UF disposal (wastes)
- UF sewage disposal
- UF ultimate storage
- \*BT1 waste management
- NT1 ground disposal
- NT1 ground release
- NT1 marine disposal
- NT1 nonradioactive waste disposal
- NT1 radioactive waste disposal
- NT1 sanitary landfills
- NT1 stack disposal
- NT1 underground disposal
- RT aerosol wastes

- RT gaseous wastes
- RT global aspects
- RT hydraulic fracturing
- RT liquid wastes
- RT reinjection
- RT salt vault project
- RT solid wastes
- RT spent liquors
- RT us superfund
- RT waste disposal acts
- RT waste processing
- RT waste storage
- RT wastes

**WASTE DISPOSAL ACTS**

- INIS: 1992-05-18; ETDE: 1978-04-27
- For legislation of any country relating to the handling of nonradioactive wastes. For radioactive wastes, use NUCLEAR WASTE POLICY ACTS.

- BT1 laws
- NT1 nuclear waste policy acts
- RT liquid wastes
- RT nonradioactive waste disposal
- RT resource recovery acts
- RT solid wastes
- RT us superfund
- RT waste disposal

**WASTE FORMS**

- INIS: 1985-11-18; ETDE: 1984-02-10
- Physical and chemical forms of wastes (e.g. liquid, in concrete, in glass) without packaging.

- UF wasteforms
- \*BT1 radioactive wastes
- RT gaseous wastes
- RT liquid wastes
- RT radioactive waste disposal
- RT radioactive waste processing
- RT solid wastes
- RT waste management

**waste-fueled boilers**

- INIS: 1992-05-18; ETDE: 1979-05-09
- USE refuse-fueled boilers

**waste-fueled power plants**

- INIS: 2000-04-12; ETDE: 1979-03-27
- USE refuse-fueled power plants

**WASTE HEAT**

- \*BT1 heat
- BT1 wastes
- RT cogeneration
- RT district heating
- RT energy sources
- RT heat sinks
- RT plumes
- RT thermal effluents
- RT thermal pollution
- RT waste heat utilization

**WASTE HEAT BOILERS**

- INIS: 1992-04-09; ETDE: 1978-12-20
- BT1 boilers
- RT cogeneration
- RT heat recovery equipment
- RT waste heat utilization

**WASTE HEAT UTILIZATION**

- INIS: 1986-05-26; ETDE: 1977-06-21
- (From January 1979 till February 1997 ENERGY CASCADE was a valid ETDE descriptor.)
- UF energy cascade
- UF energy cascading
- BT1 waste product utilization
- RT aquaculture
- RT cogeneration
- RT heat recovery

RT waste heat  
RT waste heat boilers

**WASTE INCINERATORS**

2004-02-11

BT1 incinerators  
\*BT1 waste processing plants

**waste isolation pilot plant**

INIS: 1985-04-22; ETDE: 1984-10-10  
USE wipp

**WASTE MANAGEMENT**

UF handling (wastes)  
BT1 management  
NT1 nonradioactive waste management  
NT2 nonradioactive waste disposal  
NT1 radioactive waste management  
NT2 radioactive waste disposal  
NT2 radioactive waste processing  
NT3 harvest process  
NT2 radioactive waste storage  
NT3 monitored retrievable storage  
NT1 waste disposal  
NT2 ground disposal  
NT2 ground release  
NT2 marine disposal  
NT2 nonradioactive waste disposal  
NT2 radioactive waste disposal  
NT2 sanitary landfills  
NT2 stack disposal  
NT2 underground disposal  
NT1 waste processing  
NT2 activated sludge process  
NT2 composting  
NT2 fluidized bed refuse gasification  
NT2 landgard pyrolysis system  
NT2 lime-soda sinter process  
NT2 materials recovery  
NT2 molten salt waste gasification process  
NT2 occidental flash pyrolysis process  
NT2 purox pyrolysis process  
NT2 radioactive waste processing  
NT3 harvest process  
NT2 slagging pyrolysis process  
NT2 steam stripping  
NT2 syngas process  
NT2 unisulf process  
NT2 wet oxidation processes  
NT1 waste retrieval  
NT1 waste storage  
NT2 radioactive waste storage  
NT3 monitored retrievable storage  
NT1 waste transportation  
RT hazardous materials  
RT waste forms  
RT waste oils  
RT waste product utilization

**WASTE OIL REFINERIES**

INIS: 1992-08-12; ETDE: 1981-07-18

\*BT1 waste processing plants  
RT lubricating oils  
RT petroleum refineries  
RT recycling  
RT waste oils  
RT waste product utilization

**WASTE OILS**

INIS: 1992-03-17; ETDE: 1976-10-13

\*BT1 oils  
RT lubricating oils  
RT recycling  
RT waste management  
RT waste oil refineries

**WASTE PELLETS**

INIS: 1981-03-10; ETDE: 1981-04-17

BT1 pellets  
\*BT1 solid wastes

RT pelletizing  
RT radioactive wastes

**WASTE PROCESSING**

1996-04-18

UF bailie process  
UF bamag process  
UF black clawson system  
UF caloricon process  
UF citrex process  
UF cyam process  
UF flame chamber process  
UF hichlor process  
UF processing (wastes)  
UF pyrotek process  
UF sewage treatment  
UF waste treatment  
SF destrugas process  
BT1 processing  
\*BT1 waste management  
NT1 activated sludge process  
NT1 composting  
NT1 fluidized bed refuse gasification  
NT1 landgard pyrolysis system  
NT1 lime-soda sinter process  
NT1 materials recovery  
NT1 molten salt waste gasification process  
NT1 occidental flash pyrolysis process  
NT1 purox pyrolysis process  
NT1 radioactive waste processing  
NT2 harvest process  
NT1 slagging pyrolysis process  
NT1 steam stripping  
NT1 syngas process  
NT1 unisulf process  
NT1 wet oxidation processes  
RT aerobic digestion  
RT alkalized alumina process  
RT ammonia-ammonium bisulfate process  
RT anaerobic digestion  
RT bergbauforschung process  
RT bischoff process  
RT bitumens  
RT calcination  
RT cea-adl dual alkali process  
RT chiyoda thoroughbred process  
RT evaporation  
RT flotation  
RT fmc double alkali process  
RT freezing out  
RT lime-limestone wet scrubbing processes  
RT liquid wastes  
RT magnesium slurry scrubbing process  
RT perox process  
RT precipitation  
RT process control  
RT recycling  
RT regeneration  
RT relox process  
RT saarberg-holter process  
RT scrap  
RT scrubbers  
RT settling ponds  
RT shell-uop copper oxide process  
RT solidification  
RT soxal process  
RT thiosorbic process  
RT vacuum carbonate process  
RT vitrification  
RT w-l sulfur dioxide recovery process  
RT waste disposal  
RT waste processing plants  
RT wet ashing

**WASTE PROCESSING PLANTS**

INIS: 1992-05-28; ETDE: 1975-10-01

UF cpu-400 combustion plant  
BT1 industrial plants

NT1 resource recovery facilities  
NT1 waste incinerators  
NT1 waste oil refineries  
RT biogas process  
RT landgard pyrolysis system  
RT occidental flash pyrolysis process  
RT purox pyrolysis process  
RT waste processing

**WASTE PRODUCT UTILIZATION**

INIS: 1981-12-23; ETDE: 1977-08-09  
Use of waste products as raw material, either directly or after processing, e.g. sewage sludge for fertilizer, or radioactive waste as a source of radiation.

NT1 waste heat utilization  
RT cogeneration  
RT energy recovery  
RT spent liquors  
RT stillage  
RT waste management  
RT waste oil refineries

**WASTE RETRIEVAL**

INIS: 1981-08-18; ETDE: 1981-09-22  
(From August 1979 till March 1997 WASTE RETRIEVAL was a valid ETDE descriptor.)

SF retrieval systems  
\*BT1 waste management  
RT materials handling  
RT radioactive waste facilities  
RT radioactive wastes

**WASTE-ROCK INTERACTIONS**

INIS: 1981-10-15; ETDE: 1981-03-17

RT backfilling  
RT chemical reactions  
RT radioactive waste disposal  
RT rock-fluid interactions  
RT rocks

**waste solutions**

USE liquid wastes

**WASTE STORAGE**

For temporary storage of wastes.

UF interim storage  
UF intermediate storage  
UF storage (wastes)  
BT1 storage  
\*BT1 waste management  
NT1 radioactive waste storage  
NT2 monitored retrievable storage  
RT underground storage  
RT waste disposal

**WASTE TRANSPORTATION**

\*BT1 waste management  
RT away-from-reactor storage  
RT routing  
RT transport

**waste treatment**

USE waste processing

**WASTE WATER**

1982-12-03

UF oil shale waste water  
\*BT1 liquid wastes  
\*BT1 water  
NT1 shale tar water  
RT acid mine drainage  
RT bioreactors  
RT drainage  
RT reinjection  
RT steam stripping  
RT water pollution  
RT water treatment

**wasteforms**

INIS: 2000-04-12; ETDE: 1984-11-08  
USE waste forms

**WASTES**

- NT1 aerosol wastes
- NT2 fly ash
- NT1 biological wastes
  - NT2 feces
  - NT2 manures
  - NT2 sewage sludge
  - NT2 sweat
  - NT2 urine
- NT1 gaseous wastes
  - NT2 exhaust gases
  - NT2 flue gas
- NT1 industrial wastes
  - NT2 spent liquors
- NT1 liquid wastes
  - NT2 spent liquors
  - NT2 waste water
    - NT3 shale tar water
- NT1 municipal wastes
- NT1 nonradioactive wastes
  - NT2 chemical wastes
    - NT3 chemical effluents
- NT1 organic wastes
  - NT2 agricultural wastes
    - NT3 bagasse
    - NT3 manures
  - NT2 compost
  - NT2 stillage
  - NT2 wood wastes
- NT1 radioactive wastes
  - NT2 alpha-bearing wastes
  - NT2 calcined wastes
  - NT2 high-level radioactive wastes
  - NT2 intermediate-level radioactive wastes
  - NT2 low-level radioactive wastes
  - NT2 radioactive effluents
  - NT2 waste forms
- NT1 sewage
  - NT2 sewage sludge
- NT1 solid wastes
  - NT2 mineral wastes
    - NT3 culm
  - NT2 scrap
    - NT3 scrap metals
  - NT2 spoil banks
  - NT2 tailings
    - NT3 mill tailings
    - NT3 oil sand tailings
  - NT2 waste pellets
  - NT2 wood wastes
- NT1 waste heat
  - RT by-products
  - RT hazardous materials
  - RT pollution
  - RT pyrolysis products
  - RT recycling
  - RT residues
  - RT sludges
  - RT storage facilities
  - RT us superfund
  - RT waste disposal

**WATER**

1996-06-19

- UF hydrogen hydroxides
- UF oxygen hydrides
- UF water coolant
- UF water moderator
- BT1 hydrogen compounds
- BT1 oxygen compounds
- NT1 drinking water
- NT1 feedwater
- NT1 fresh water
- NT1 ground water
  - NT2 interstitial water
  - NT2 magmatic water
- NT1 heavy water
- NT1 hot water

- NT1 rain water
- NT2 throughfall
- NT1 seawater
- NT1 tritium oxides
- NT1 waste water
  - NT2 shale tar water
- RT anhydrides
- RT aqueous solutions
- RT balneology
- RT clouds
- RT coolants
- RT cooling
- RT demineralizers
- RT electromagnetic filters
- RT environmental materials
- RT glaciers
- RT hydrates
- RT hydrogels
- RT hydronium radicals
- RT hydrophilic polymers
- RT hydrosphere
- RT ice
- RT interception
- RT liming
- RT liquid wastes
- RT moderators
- RT moisture
- RT recombiners
- RT slush
- RT steam
- RT surface waters
- RT total flow systems
- RT washout
- RT water chemistry
- RT water influx
- RT water requirements
- RT water resources
- RT water rights

**WATER BRAKES**

INIS: 2000-04-12; ETDE: 1979-04-11

*Devices for conversion of mechanical energy into heat energy by use of rotating or reciprocating blades in contained water system and prevention of gust overspeed in fixed-pitch wind turbines.*

- \*BT1 brakes
  - RT energy conversion
  - RT wind turbines

**WATER CHEMISTRY**

1975-09-26

- UF chemistry (water)
- UF cooling water chemical treatment
- BT1 chemistry
- NT1 acid neutralizing capacity
- RT chemical analysis
- RT chemical composition
- RT coolants
- RT corrosion denting
- RT demineralization
- RT dissolved gases
- RT feedwater
- RT reactor cooling systems
- RT water
- RT water cooled reactors

**water content**

- SEE humidity
- SEE moisture

**water coolant**

- USE water

**water cooled graphite moderated reactors**

1993-11-10

- USE lwgr type reactors

**WATER COOLED REACTORS**

- UF light water cooled reactors
- UF lwr type reactors
- BT1 reactors
- NT1 aarr reactor
- NT1 acpr reactor
- NT1 anna reactor
- NT1 aqueous homogeneous reactors
  - NT2 ai-1-77 reactor
  - NT2 argus reactor
  - NT2 ber-2 reactor
  - NT2 byu 1-77 reactor
  - NT2 cesnef reactor
  - NT2 dr-1 reactor
  - NT2 frf reactor
  - NT2 gidra reactor
  - NT2 hre-2 reactor
  - NT2 jrr-1 reactor
  - NT2 kewb reactor
  - NT2 kstr reactor
  - NT2 ncscr-1 reactor
  - NT2 nevada university reactor
  - NT2 prnc-1-77 reactor
  - NT2 supo reactor
  - NT2 wrrr reactor
- NT1 argonaut type reactors
  - NT2 aeg-pr-10 reactor
  - NT2 arbi reactor
  - NT2 argonaut reactor
  - NT2 argos reactor
  - NT2 athene reactor
  - NT2 jason reactor
  - NT2 lfr reactor
  - NT2 moata reactor
  - NT2 nestor reactor
  - NT2 queen mary college utr-b reactor
  - NT2 ra-1 reactor
  - NT2 rb-2 reactor
  - NT2 rien-1 reactor
  - NT2 srcc-utr-100 reactor
  - NT2 stark reactor
  - NT2 strasbourg-cronenbourg reactor
  - NT2 ufr reactor
  - NT2 ulyse reactor
  - NT2 urr reactor
  - NT2 utr-10-kinki reactor
  - NT2 vpi-utr-10 reactor
- NT1 astr reactor
- NT1 atr reactor
- NT1 atrs reactor
- NT1 borax-1 reactor
- NT1 borax-2 reactor
- NT1 borax-3 reactor
- NT1 borax-4 reactor
- NT1 borax-5 reactor
- NT1 br-02 reactor
- NT1 br-2 reactor
- NT1 br-3-vn reactor
- NT1 bwr type reactors
  - NT2 allens creek-1 reactor
  - NT2 allens creek-2 reactor
  - NT2 bailly-1 reactor
  - NT2 barsebaeck-1 reactor
  - NT2 barsebaeck-2 reactor
  - NT2 barton-1 reactor
  - NT2 barton-2 reactor
  - NT2 barton-3 reactor
  - NT2 barton-4 reactor
  - NT2 bell reactor
  - NT2 big rock point reactor
  - NT2 black fox-1 reactor
  - NT2 black fox-2 reactor
  - NT2 bolsa chica-1 reactor
  - NT2 bolsa chica-2 reactor
  - NT2 bonus reactor
  - NT2 browns ferry-1 reactor
  - NT2 browns ferry-2 reactor
  - NT2 browns ferry-3 reactor
  - NT2 brunsbuettel reactor

NT2	brunswick-1 reactor	NT2	limerick-1 reactor	NT1	janus reactor
NT2	brunswick-2 reactor	NT2	limerick-2 reactor	NT1	jmtr reactor
NT2	chinshan-1 reactor	NT2	lingen reactor	NT1	kamini reactor
NT2	chinshan-2 reactor	NT2	mendocino-1 reactor	NT1	kuhfr reactor
NT2	clinton-1 reactor	NT2	mendocino-2 reactor	NT1	litr reactor
NT2	clinton-2 reactor	NT2	millstone-1 reactor	NT1	lwbr type reactors
NT2	cofrentes reactor	NT2	montague-1 reactor	NT1	lwgr type reactors
NT2	cooper reactor	NT2	montague-2 reactor	NT2	aps reactor
NT2	dodewaard reactor	NT2	montalto di castro-1 reactor	NT2	beloyarsk-1 reactor
NT2	douglas point-1 reactor	NT2	montalto di castro-2 reactor	NT2	beloyarsk-2 reactor
NT2	douglas point-2 reactor	NT2	monticello reactor	NT2	bilibin reactor
NT2	dresden-1 reactor	NT2	muehleberg reactor	NT2	chernobylsk-1 reactor
NT2	dresden-2 reactor	NT2	nine mile point-1 reactor	NT2	chernobylsk-2 reactor
NT2	dresden-3 reactor	NT2	nine mile point-2 reactor	NT2	chernobylsk-3 reactor
NT2	duane arnold-1 reactor	NT2	okg-1 reactor	NT2	chernobylsk-4 reactor
NT2	ebwr reactor	NT2	okg-2 reactor	NT2	ignalina-1 reactor
NT2	enel-4 reactor	NT2	okg-3 reactor	NT2	ignalina-2 reactor
NT2	enrico fermi-2 reactor	NT2	olkiluoto-1 reactor	NT2	kursk-1 reactor
NT2	err reactor	NT2	olkiluoto-2 reactor	NT2	kursk-2 reactor
NT2	fitzpatrick reactor	NT2	onagawa-1 reactor	NT2	kursk-3 reactor
NT2	forsmark-1 reactor	NT2	onagawa-2 reactor	NT2	kursk-4 reactor
NT2	forsmark-2 reactor	NT2	onagawa-3 reactor	NT2	leningrad-1 reactor
NT2	forsmark-3 reactor	NT2	oyster creek-1 reactor	NT2	leningrad-2 reactor
NT2	fukushima-1 reactor	NT2	pathfinder reactor	NT2	leningrad-3 reactor
NT2	fukushima-2 reactor	NT2	peach bottom-2 reactor	NT2	leningrad-4 reactor
NT2	fukushima-3 reactor	NT2	peach bottom-3 reactor	NT2	n-reactor
NT2	fukushima-4 reactor	NT2	perry-1 reactor	NT2	rpt reactor
NT2	fukushima-5 reactor	NT2	perry-2 reactor	NT2	smolensk-1 reactor
NT2	fukushima-6 reactor	NT2	philippsburg-1 reactor	NT2	smolensk-2 reactor
NT2	fukushima-ii-1 reactor	NT2	phipps bend-1 reactor	NT2	smolensk-3 reactor
NT2	fukushima-ii-2 reactor	NT2	phipps bend-2 reactor	NT2	uwtr reactor
NT2	fukushima-ii-3 reactor	NT2	pilgrim-1 reactor	NT1	maple reactor
NT2	fukushima-ii-4 reactor	NT2	quad cities-1 reactor	NT1	maple type reactors
NT2	garigliano reactor	NT2	quad cities-2 reactor	NT1	mir reactor
NT2	garona reactor	NT2	ringhals-1 reactor	NT1	mnsr type reactors
NT2	ge standard reactor	NT2	river bend-1 reactor	NT2	gharr-1 reactor
NT2	graben-1 reactor	NT2	river bend-2 reactor	NT2	mnsr-ciae reactor
NT2	graben-2 reactor	NT2	rwe-bayernwerk reactor	NT2	mnsr-sd reactor
NT2	grand gulf-1 reactor	NT2	shika-1 reactor	NT2	mnsr-sh reactor
NT2	grand gulf-2 reactor	NT2	shimane-1 reactor	NT2	mnsr-sz reactor
NT2	gundremmingen-2 reactor	NT2	shimane-2 reactor	NT2	nirr-1 reactor
NT2	gundremmingen-3 reactor	NT2	shoreham reactor	NT2	parr-2 reactor
NT2	hamaoka-1 reactor	NT2	skagit-1 reactor	NT2	srr-1 reactor
NT2	hamaoka-2 reactor	NT2	skagit-2 reactor	NT1	mrr reactor
NT2	hamaoka-3 reactor	NT2	sl-1 reactor	NT1	mtr reactor
NT2	hamaoka-4 reactor	NT2	susquehanna-1 reactor	NT1	murr reactor
NT2	hamaoka-5 reactor	NT2	susquehanna-2 reactor	NT1	netr reactor
NT2	hartsville-1 reactor	NT2	tarapur-1 reactor	NT1	nhr-5 reactor
NT2	hartsville-2 reactor	NT2	tarapur-2 reactor	NT1	nsrr reactor
NT2	hartsville-3 reactor	NT2	tokai-2 reactor	NT1	ntr reactor
NT2	hartsville-4 reactor	NT2	tsuruga reactor	NT1	orphee reactor
NT2	hatch-1 reactor	NT2	tullnerfeld reactor	NT1	orr reactor
NT2	hatch-2 reactor	NT2	vak reactor	NT1	osiris reactor
NT2	hdr reactor	NT2	vbwr reactor	NT1	owr reactor
NT2	hope creek-1 reactor	NT2	vermont yankee reactor	NT1	pbr reactor
NT3	newbold island-1 reactor	NT2	verplanck-1 reactor	NT1	pegase reactor
NT2	hope creek-2 reactor	NT2	verplanck-2 reactor	NT1	peggy reactor
NT3	newbold island-2 reactor	NT2	vk-50 reactor	NT1	perryman-1 reactor
NT2	humboldt bay reactor	NT2	wnp-2 reactor	NT1	perryman-2 reactor
NT2	isar reactor	NT2	wuergassen reactor	NT1	pool type reactors
NT2	jpd-2 reactor	NT2	zimmer-1 reactor	NT2	agata reactor
NT2	jpd reactor	NT2	zimmer-2 reactor	NT2	apsara reactor
NT2	kaiseraugst reactor	NT1	cius reactor	NT2	armf-1 reactor
NT2	kashiwazaki-kariwa-1 reactor	NT1	esada-vesr reactor	NT2	astra reactor
NT2	kashiwazaki-kariwa-2 reactor	NT1	etr reactor	NT2	atrc reactor
NT2	kashiwazaki-kariwa-3 reactor	NT1	evs reactor	NT2	avogadro rs-1 reactor
NT2	kashiwazaki-kariwa-4 reactor	NT1	ewa reactor	NT2	barn reactor
NT2	kashiwazaki-kariwa-5 reactor	NT1	ewg-1 reactor	NT2	bawtr reactor
NT2	kashiwazaki-kariwa-6 reactor	NT1	getr reactor	NT2	ber-2 reactor
NT2	kashiwazaki-kariwa-7 reactor	NT1	hclwr type reactors	NT2	brr reactor
NT2	kruemmel reactor	NT1	hfetr reactor	NT2	bsr-1 reactor
NT2	kuosheng-1 reactor	NT1	hfir reactor	NT2	bsr-2 reactor
NT2	kuosheng-2 reactor	NT1	hfr reactor	NT2	cabri reactor
NT2	la salle county-1 reactor	NT1	hwlwr type reactors	NT2	consort-2 reactor
NT2	la salle county-2 reactor	NT2	cirene reactor	NT2	cp-6 reactor
NT2	lacbwr reactor	NT2	gentilly reactor	NT2	crocus reactor
NT2	laguna verde-1 reactor	NT2	jatr reactor	NT2	democritus reactor
NT2	laguna verde-2 reactor	NT1	igr reactor	NT2	dr-2 reactor
NT2	leibstadt reactor	NT1	iowa utr-10 reactor	NT2	etrc reactor

NT2	etr-2 reactor	NT3	slowpoke-alberta reactor	NT2	calvert cliffs-1 reactor
NT2	fmr reactor	NT3	slowpoke-dalhousie reactor	NT2	calvert cliffs-2 reactor
NT2	fmr reactor	NT3	slowpoke-montreal reactor	NT2	catawba-1 reactor
NT2	frg-1 reactor	NT3	slowpoke-ottawa reactor	NT2	catawba-2 reactor
NT2	frg-2 reactor	NT3	slowpoke-toronto reactor	NT2	cattenom-1 reactor
NT2	frj-1 reactor	NT3	slowpoke-wvre reactor	NT2	cattenom-2 reactor
NT2	frm-ii reactor	NT2	spert-4 reactor	NT2	cattenom-3 reactor
NT2	frm reactor	NT2	stek reactor	NT2	cattenom-4 reactor
NT2	frn reactor	NT2	stir reactor	NT2	ce standard reactor
NT2	ga siwabassy reactor	NT2	swierk r-2 reactor	NT2	cherokee-1 reactor
NT2	gtr reactor	NT2	thetis reactor	NT2	cherokee-2 reactor
NT2	gulf triga-mk-3 reactor	NT2	thor reactor	NT2	cherokee-3 reactor
NT2	hanaro reactor	NT2	toshiba reactor	NT2	chinon-b1 reactor
NT2	herald reactor	NT2	tr-1 reactor	NT2	civaux-1 reactor
NT2	hor reactor	NT2	tr-2 reactor	NT2	civaux-2 reactor
NT2	horace reactor	NT2	triton reactor	NT2	comanche peak-1 reactor
NT2	htr reactor	NT2	trr-1 reactor	NT2	comanche peak-2 reactor
NT2	ian-r1 reactor	NT2	tz1 reactor	NT2	connecticut yankee reactor
NT2	iear-1 reactor	NT2	tz2 reactor	NT2	cook-1 reactor
NT2	ir-100 reactor	NT2	uknr reactor	NT2	cook-2 reactor
NT2	irl reactor	NT2	umne-1 reactor	NT2	cruas-2 reactor
NT2	irr-1 reactor	NT2	umrr reactor	NT2	cruas-3 reactor
NT2	irt-2000 djakarta reactor	NT2	utrr reactor	NT2	cruas-4 reactor
NT2	irt-2000 moscow reactor	NT2	uvar reactor	NT2	crystal river-3 reactor
NT2	irt-c reactor	NT2	uwnr reactor	NT2	crystal river-4 reactor
NT2	irt-f reactor	NT2	vr-1 reactor	NT2	dampierre-1 reactor
NT2	irt reactor	NT2	wpir reactor	NT2	dampierre-2 reactor
NT2	irt-sofia reactor	NT2	wsur reactor	NT2	dampierre-3 reactor
NT2	isis reactor	NT2	xapr reactor	NT2	dampierre-4 reactor
NT2	ivv-2m reactor	NT1	pumima-3 reactor	NT2	davis besse-1 reactor
NT2	ivv-7 reactor	NT1	pwr type reactors	NT2	davis besse-2 reactor
NT2	jen-1 reactor	NT2	aguirre reactor	NT2	davis besse-3 reactor
NT2	jen-2 reactor	NT2	almaraz-1 reactor	NT2	daya bay-1 reactor
NT2	jen reactor	NT2	almaraz-2 reactor	NT2	daya bay-2 reactor
NT2	jrr-3m reactor	NT2	angra-1 reactor	NT2	diablo canyon-1 reactor
NT2	jrr-4 reactor	NT2	angra-2 reactor	NT2	diablo canyon-2 reactor
NT2	jules horowitz reactor	NT2	angra-3 reactor	NT2	doel-1 reactor
NT2	kur reactor	NT2	ardennes b-1 reactor	NT2	doel-2 reactor
NT2	la reina rech-1 reactor	NT2	ardennes b-2 reactor	NT2	doel-3 reactor
NT2	lido reactor	NT2	ardennes reactor	NT2	doel-4 reactor
NT2	lo aguirre rech-2 reactor	NT2	arkansas-1 reactor	NT2	efdr-50 reactor
NT2	lpr reactor	NT2	arkansas-2 reactor	NT2	emsland reactor
NT2	lptr reactor	NT2	asco-1 reactor	NT2	erie-1 reactor
NT2	lr-0 reactor	NT2	asco-2 reactor	NT2	erie-2 reactor
NT2	ltir reactor	NT2	atlantic-1 reactor	NT2	farley-1 reactor
NT2	maria reactor	NT2	atlantic-2 reactor	NT2	farley-2 reactor
NT2	maryla reactor	NT2	basf-1 reactor	NT2	fessenheim-1 reactor
NT2	melusine-1 reactor	NT2	basf-2 reactor	NT2	flamanville-1 reactor
NT2	merlin reactor	NT2	beaver valley-1 reactor	NT2	flamanville-2 reactor
NT2	minerve reactor	NT2	beaver valley-2 reactor	NT2	forked river-1 reactor
NT2	mnr reactor	NT2	bellefonte-1 reactor	NT2	genkai-1 reactor
NT2	nscr reactor	NT2	bellefonte-2 reactor	NT2	genkai-2 reactor
NT2	nur reactor	NT2	belleville sur loire-1 reactor	NT2	genkai-3 reactor
NT2	opal reactor	NT2	belleville sur loire-2 reactor	NT2	genkai-4 reactor
NT2	osur reactor	NT2	beznau-1 reactor	NT2	ginna-1 reactor
NT2	parr-1 reactor	NT2	beznau-2 reactor	NT2	goesgen reactor
NT2	phebus reactor	NT2	biblis-1 reactor	NT2	golfech-1 reactor
NT2	pik physical model reactor	NT2	biblis-2 reactor	NT2	golfech-2 reactor
NT2	prpr reactor	NT2	biblis-3 reactor	NT2	grafenrheinfeld reactor
NT2	pr-1 reactor	NT2	biblis-4 reactor	NT2	gravelines-1 reactor
NT2	pstr reactor	NT2	blayais-1 reactor	NT2	gravelines-2 reactor
NT2	ptr reactor	NT2	blue hills-1 reactor	NT2	gravelines-3 reactor
NT2	pulstar-buffalo reactor	NT2	blue hills-2 reactor	NT2	gravelines-4 reactor
NT2	pulstar-raleigh reactor	NT2	borsssele reactor	NT2	gravelines-5 reactor
NT2	pur-1 reactor	NT2	br-3 reactor	NT2	gravelines-6 reactor
NT2	r2-0 reactor	NT2	braidwood-1 reactor	NT2	greene county reactor
NT2	ra-6 reactor	NT2	braidwood-2 reactor	NT2	greenwood-2 reactor
NT2	ra-8 reactor	NT2	brokdorf reactor	NT2	greenwood-3 reactor
NT2	rana reactor	NT2	bugey-2 reactor	NT2	grohnde reactor
NT2	rinsc reactor	NT2	bugey-3 reactor	NT2	hamm-uentrop reactor
NT2	ritmo reactor	NT2	bugey-4 reactor	NT2	harris-1 reactor
NT2	rp-10 reactor	NT2	bugey-5 reactor	NT2	harris-2 reactor
NT2	rts-1 reactor	NT2	bw standard reactor	NT2	harris-3 reactor
NT2	rv-1 reactor	NT2	byron-1 reactor	NT2	harris-4 reactor
NT2	saphir reactor	NT2	byron-2 reactor	NT2	haven-1 reactor
NT2	scarabee reactor	NT2	calhoun-1 reactor	NT3	koshkonong-1 reactor
NT2	siloe reactor	NT2	calhoun-2 reactor	NT2	haven-2 reactor
NT2	siloette reactor	NT2	callaway-1 reactor	NT3	koshkonong-2 reactor
NT2	slowpoke type reactors	NT2	callaway-2 reactor	NT2	ikata-2 reactor

NT2	ikata-3 reactor	NT2	pebble springs-1 reactor	NT2	tsuruga-2 reactor
NT2	ikata reactor	NT2	pebble springs-2 reactor	NT2	turkey point-3 reactor
NT2	indian point-1 reactor	NT2	penly-1 reactor	NT2	turkey point-4 reactor
NT2	indian point-2 reactor	NT2	perkins-1 reactor	NT2	tva-1 reactor
NT2	indian point-3 reactor	NT2	perkins-2 reactor	NT2	tva-2 reactor
NT2	iran-1 reactor	NT2	perkins-3 reactor	NT2	tyrone-1 reactor
NT2	iran-2 reactor	NT2	philippsburg-2 reactor	NT2	tyrone-2 reactor
NT2	isar-2 reactor	NT2	pilgrim-2 reactor	NT2	ulchin-1 reactor
NT2	jamesport-1 reactor	NT2	pilgrim-3 reactor	NT2	ulchin-2 reactor
NT2	jamesport-2 reactor	NT2	pm-2a reactor	NT2	ulchin-3 reactor
NT2	kewaunee reactor	NT2	pm-3a reactor	NT2	ulchin-4 reactor
NT2	koeberg-1 reactor	NT2	pnp-1 reactor	NT2	unterweser reactor
NT2	koeberg-2 reactor	NT2	point beach-1 reactor	NT2	vahnum-1 reactor
NT2	kori-1 reactor	NT2	point beach-2 reactor	NT2	vahnum-2 reactor
NT2	kori-2 reactor	NT2	prairie island-1 reactor	NT2	vandellos-2 reactor
NT2	kori-3 reactor	NT2	prairie island-2 reactor	NT2	vogtle-1 reactor
NT2	kori-4 reactor	NT2	qinshan-1 reactor	NT2	vogtle-2 reactor
NT2	krsko reactor	NT2	qinshan-2-1 reactor	NT2	vogtle-3 reactor
NT2	lemoniz-1 reactor	NT2	qinshan-2-2 reactor	NT2	vogtle-4 reactor
NT2	lemoniz-2 reactor	NT2	quanicassee-1 reactor	NT2	waterford-3 reactor
NT2	lenin reactor	NT2	quanicassee-2 reactor	NT2	waterford-4 reactor
NT2	leonid brezhnev reactor	NT2	rancho seco-1 reactor	NT2	watts bar-1 reactor
NT2	lingao-1 reactor	NT2	remerschen reactor	NT2	watts bar-2 reactor
NT2	lingao-2 reactor	NT2	rheinsberg akw1 reactor	NT2	westinghouse standard reactor
NT2	loft reactor	NT2	ringhals-2 reactor	NT2	wnp-1 reactor
NT2	lucie-1 reactor	NT2	ringhals-3 reactor	NT2	wnp-3 reactor
NT2	lucie-2 reactor	NT2	ringhals-4 reactor	NT2	wnp-4 reactor
NT2	maanshan-1 reactor	NT2	robinson-2 reactor	NT2	wnp-5 reactor
NT2	maine yankee reactor	NT2	rooppur reactor	NT2	wolf creek-1 reactor
NT2	malibu-1 reactor	NT2	rowe yankee reactor	NT2	wup-3 reactor
NT2	marble hill-1 reactor	NT2	s1c prototype reactor	NT2	wup-4 reactor
NT2	marble hill-2 reactor	NT2	saint alban-1 reactor	NT2	wup-5 reactor
NT2	mc guire-1 reactor	NT2	saint alban-2 reactor	NT2	wup-6 reactor
NT2	mc guire-2 reactor	NT2	saint laurent-b1 reactor	NT2	wwer type reactors
NT2	mh-1a reactor	NT2	salem-1 reactor	NT3	armenian-1 reactor
NT2	midland-1 reactor	NT2	salem-2 reactor	NT3	armenian-2 reactor
NT2	midland-2 reactor	NT2	san onofre-1 reactor	NT3	balakovo-1 reactor
NT2	mihama-1 reactor	NT2	san onofre-2 reactor	NT3	balakovo-2 reactor
NT2	mihama-2 reactor	NT2	san onofre-3 reactor	NT3	balakovo-3 reactor
NT2	mihama-3 reactor	NT2	savannah reactor	NT3	balakovo-4 reactor
NT2	millstone-2 reactor	NT2	saxton reactor	NT3	blahutovice-1 reactor
NT2	millstone-3 reactor	NT2	seabrook-1 reactor	NT3	bohunice v-1 reactor
NT2	muelheim-kaerlich reactor	NT2	seabrook-2 reactor	NT3	bohunice v-2 reactor
NT2	mutsu reactor	NT2	selni reactor	NT3	dukovany-1 reactor
NT2	nekar-1 reactor	NT2	sendai-1 reactor	NT3	dukovany-2 reactor
NT2	nekar-2 reactor	NT2	sendai-2 reactor	NT3	dukovany-3 reactor
NT2	nep-1 reactor	NT2	sequoyah-1 reactor	NT3	dukovany-4 reactor
NT2	nep-2 reactor	NT2	sequoyah-2 reactor	NT3	greifswald-1 reactor
NT2	neupotz-1 reactor	NT2	shippingport reactor	NT3	greifswald-2 reactor
NT2	neupotz-2 reactor	NT2	sizewell-b reactor	NT3	greifswald-3 reactor
NT2	nogent sur seine-1 reactor	NT2	sm-1 reactor	NT3	greifswald-4 reactor
NT2	nogent sur seine-2 reactor	NT2	sm-1a reactor	NT3	greifswald-5 reactor
NT2	north anna-1 reactor	NT2	south texas project-1 reactor	NT3	greifswald-6 reactor
NT2	north anna-2 reactor	NT2	south texas project-2 reactor	NT3	juragua-1 reactor
NT2	north anna-3 reactor	NT2	stade reactor	NT3	kalinin-1 reactor
NT2	north anna-4 reactor	NT2	sterling-1 reactor	NT3	kalinin-3 reactor
NT2	north coast-1 reactor	NT2	sterling-2 reactor	NT3	kecerovce-1 reactor
NT2	obrigheim reactor	NT2	summer-1 reactor	NT3	khmelnitskij-1 reactor
NT2	oconee-1 reactor	NT2	sundesert-1 reactor	NT3	kola-1 reactor
NT2	oconee-2 reactor	NT2	sundesert-2 reactor	NT3	kola-2 reactor
NT2	oconee-3 reactor	NT2	surry-1 reactor	NT3	kola-3 reactor
NT2	oi-1 reactor	NT2	surry-2 reactor	NT3	kola-4 reactor
NT2	oi-2 reactor	NT2	surry-3 reactor	NT3	kozloduy-1 reactor
NT2	oi-3 reactor	NT2	surry-4 reactor	NT3	kozloduy-2 reactor
NT2	oi-4 reactor	NT2	takahama-1 reactor	NT3	kozloduy-3 reactor
NT2	oktemberyan-2 reactor	NT2	takahama-2 reactor	NT3	kozloduy-4 reactor
NT2	olkiluoto-3 reactor	NT2	takahama-3 reactor	NT3	kozloduy-5 reactor
NT2	otto hahn reactor	NT2	takahama-4 reactor	NT3	kozloduy-6 reactor
NT2	palisades-1 reactor	NT2	three mile island-1 reactor	NT3	kudankulam-1 reactor
NT2	palo verde-1 reactor	NT2	three mile island-2 reactor	NT3	kudankulam-2 reactor
NT2	palo verde-2 reactor	NT2	tihange-2 reactor	NT3	loviisa-1 reactor
NT2	palo verde-3 reactor	NT2	tihange-3 reactor	NT3	loviisa-2 reactor
NT2	palo verde-4 reactor	NT2	tihange reactor	NT3	mochovce-1 reactor
NT2	palo verde-5 reactor	NT2	tomari-1 reactor	NT3	mochovce-2 reactor
NT2	paluel-1 reactor	NT2	tomari-2 reactor	NT3	novovoronezh-1 reactor
NT2	paluel-2 reactor	NT2	tricastin-1 reactor	NT3	novovoronezh-2 reactor
NT2	paluel-3 reactor	NT2	tricastin-4 reactor	NT3	novovoronezh-3 reactor
NT2	paluel-4 reactor	NT2	trillo-1 reactor	NT3	novovoronezh-4 reactor
NT2	pat reactor	NT2	trojan reactor	NT3	novovoronezh-5 reactor

- NT3 paks-1 reactor  
 NT3 paks-2 reactor  
 NT3 paks-3 reactor  
 NT3 paks-4 reactor  
 NT3 rovno-1 reactor  
 NT3 rovno-2 reactor  
 NT3 rovno-3 reactor  
 NT3 rovno-4 reactor  
 NT3 rovno-5 reactor  
 NT3 south ukrainian-1 reactor  
 NT3 south ukrainian-2 reactor  
 NT3 south ukrainian-3 reactor  
 NT3 stendal-1 reactor  
 NT3 tatarian reactor  
 NT3 temelin-1 reactor  
 NT3 temelin-2 reactor  
 NT3 tianwan-1 reactor  
 NT3 zaporozhe-1 reactor  
 NT3 zaporozhe-2 reactor  
 NT3 zaporozhe-3 reactor  
 NT3 zaporozhe-4 reactor  
 NT3 zaporozhe-5 reactor  
 NT3 zaporozhe-6 reactor  
 NT2 wyhl-1 reactor  
 NT2 wyhl-2 reactor  
 NT2 yellow creek-1 reactor  
 NT2 yellow creek-2 reactor  
 NT2 yonggwang-1 reactor  
 NT2 yonggwang-2 reactor  
 NT2 yonggwang-3 reactor  
 NT2 yonggwang-4 reactor  
 NT2 zion-1 reactor  
 NT2 zion-2 reactor  
 NT2 zorita-1 reactor  
 NT1 r-2 reactor  
 NT1 ra-5 reactor  
 NT1 rg-1m reactor  
 NT1 safari-1 reactor  
 NT1 sghwr reactor  
 NT1 sm-2 reactor  
 NT1 spert-2 reactor  
 NT1 spert-3 reactor  
 NT1 sr-1 reactor  
 NT1 sr-3p reactor  
 NT1 sr-oa reactor  
 NT1 tca reactor  
 NT1 triga type reactors  
 NT2 afri reactor  
 NT2 atpr reactor  
 NT2 colorado triga-mk-3 reactor  
 NT2 cornell triga-mk-2 reactor  
 NT2 dow triga-mk-1 reactor  
 NT2 fir-1 reactor  
 NT2 fir-2 reactor  
 NT2 frn reactor  
 NT2 gulf triga-mk-3 reactor  
 NT2 kartini-ppny reactor  
 NT2 lopra reactor  
 NT2 nscr reactor  
 NT2 ostr reactor  
 NT2 prpr reactor  
 NT2 pstr reactor  
 NT2 rtp reactor  
 NT2 trico reactor  
 NT2 triga-1-arizona reactor  
 NT2 triga-1-california reactor  
 NT2 triga-1-hanford reactor  
 NT2 triga-1-hanover reactor  
 NT2 triga-1-heidelberg reactor  
 NT2 triga-1-michigan reactor  
 NT2 triga-2-bandung reactor  
 NT2 triga-2-bangladesh reactor  
 NT2 triga-2-dalat reactor  
 NT2 triga-2-illinois reactor  
 NT2 triga-2-kansas reactor  
 NT2 triga-2-ljubljana reactor  
 NT2 triga-2-mainz reactor  
 NT2 triga-2-musashi reactor  
 NT2 triga-2-pavia reactor  
 NT2 triga-2-pitesti reactor  
 NT2 triga-2 reactor  
 NT2 triga-2-rikkyo reactor  
 NT2 triga-2-rome reactor  
 NT2 triga-2-seoul reactor  
 NT2 triga-2-vienna reactor  
 NT2 triga-3-la jolla reactor  
 NT2 triga-3-munich reactor  
 NT2 triga-3-salazar reactor  
 NT2 triga-3-seoul reactor  
 NT2 triga-brazil reactor  
 NT2 triga-texas reactor  
 NT2 triga-veterans reactor  
 NT2 ucbr reactor  
 NT2 uwnr reactor  
 NT2 wsur reactor  
 NT1 tsr-2 reactor  
 NT1 venus reactor  
 NT1 voronezh ast-500 reactor  
 NT1 wntr reactor  
 NT1 wtr reactor  
 NT1 wwr type reactors  
 NT2 budapest training reactor  
 NT2 irt-1 libya reactor  
 NT2 irt-baghdad reactor  
 NT2 lvr-15 reactor  
 NT2 wwr-2 reactor  
 NT2 wwr-k-almaty reactor  
 NT2 wwr-m-kiev reactor  
 NT2 wwr-m-leningrad reactor  
 NT2 wwr-s-bucharest reactor  
 NT2 wwr-s-budapest reactor  
 NT2 wwr-s-cairo reactor  
 NT2 wwr-s-moscow reactor  
 NT2 wwr-s-prague reactor  
 NT2 wwr-s-tashkent reactor  
 NT2 wwr-sm rossendorf reactor  
 NT2 wwr-z reactor  
 NT1 zlfr reactor  
 NT1 zr-6 reactor  
 RT water chemistry

**WATER COOLERS**

2005-04-20

- \*BT1 appliances  
 BT1 heat exchangers  
 RT cooling  
 RT drinking water  
 RT refrigerators

**WATER CURRENT POWER GENERATORS**

INIS: 1992-10-02; ETDE: 1976-06-07

- \*BT1 electric generators  
 RT hydroelectric power  
 RT tidal power

**WATER CURRENTS**

INIS: 1981-11-26; ETDE: 1977-04-12

Net transport of water along a definable path.

- UF currents (water)  
 UF ocean currents  
 BT1 currents  
 NT1 gulf stream  
 RT advection  
 RT downwelling  
 RT lakes  
 RT oceanic circulation  
 RT rivers  
 RT seas  
 RT streams  
 RT surface waters  
 RT tide  
 RT upwelling  
 RT water waves

**water demand**

INIS: 1982-12-03; ETDE: 1979-05-09

- USE water requirements

**water distribution**

INIS: 1986-05-26; ETDE: 1979-09-26

- USE water supply

**WATER FAUCETS**

INIS: 2000-04-12; ETDE: 1977-06-21

- UF faucets (water)  
 \*BT1 valves  
 RT pipe fittings  
 RT plumbing

**WATER GAS**

2000-04-12

Approximately 300 btu per cubic foot.

- \*BT1 intermediate btu gas  
 RT carburetted water gas

**WATER GAS PROCESSES**

2000-04-12

Processes in which water gas with steam in excess is passed over catalysts.

- BT1 chemical reactions  
 RT hydrogen production

**WATER HAMMER**

- RT hydraulics  
 RT impact shock  
 RT shock waves

**WATER HEATERS**

1992-04-07

- UF hot water heaters  
 \*BT1 appliances  
 BT1 heaters  
 NT1 solar water heaters  
 NT2 passive solar water heaters  
 NT3 thermic diode solar panels  
 RT annual cycle energy system  
 RT gas appliances  
 RT water heating

**WATER HEATING**

INIS: 2000-05-02; ETDE: 1981-06-13

- BT1 heating  
 NT1 geothermal water heating  
 NT1 solar water heating  
 RT hot water  
 RT water heaters

**WATER HYACINTHS**

INIS: 1991-12-16; ETDE: 1977-11-29

- BT1 aquatic organisms  
 \*BT1 liliopsida

**water infiltration**

INIS: 1985-10-23; ETDE: 2002-05-24

- USE water influx

**WATER INFLUX**

INIS: 1985-10-23; ETDE: 1978-10-23

Entrance of water or aqueous solutions into geologic formations, underground spaces, etc.

- UF infiltration (rock)  
 UF infiltration (water)  
 UF influx (water)  
 UF intrusion (water)  
 UF water infiltration  
 UF water intrusion  
 SF intrusion  
 RT aquifers  
 RT cavities  
 RT coal seams  
 RT geologic structures  
 RT ground water  
 RT hydrology  
 RT mine draining  
 RT mines  
 RT natural gas wells  
 RT oil wells  
 RT reservoir rock  
 RT water

**water intrusion**

INIS: 1985-07-23; ETDE: 2002-05-24  
USE water influx

**water moderated organic cooled  
reactors**

USE Iwor type reactors

**WATER MODERATED REACTORS**

UF light water moderated reactors

BT1 reactors  
NT1 aarr reactor  
NT1 acpr reactor  
NT1 anna reactor  
NT1 aqueous homogeneous reactors  
NT2 ai-l-77 reactor  
NT2 argus reactor  
NT2 ber-2 reactor  
NT2 byu l-77 reactor  
NT2 cesnef reactor  
NT2 dr-1 reactor  
NT2 frf reactor  
NT2 gidra reactor  
NT2 hre-2 reactor  
NT2 jrr-1 reactor  
NT2 kewb reactor  
NT2 kstr reactor  
NT2 ncsr-1 reactor  
NT2 nevada university reactor  
NT2 prnc-l-77 reactor  
NT2 supo reactor  
NT2 wrrr reactor  
NT1 argonaut type reactors  
NT2 aeg-pr-10 reactor  
NT2 arbi reactor  
NT2 argonaut reactor  
NT2 argos reactor  
NT2 athene reactor  
NT2 jason reactor  
NT2 lfr reactor  
NT2 moata reactor  
NT2 nestor reactor  
NT2 queen mary college utr-b reactor  
NT2 ra-1 reactor  
NT2 rb-2 reactor  
NT2 rien-1 reactor  
NT2 srcr-utr-100 reactor  
NT2 stark reactor  
NT2 strasbourg-cronenbourg reactor  
NT2 uft reactor  
NT2 ulyse reactor  
NT2 urr reactor  
NT2 utr-10-kinki reactor  
NT2 vpi-utr-10 reactor  
NT1 astr reactor  
NT1 atr reactor  
NT1 atsr reactor  
NT1 borax-1 reactor  
NT1 borax-2 reactor  
NT1 borax-3 reactor  
NT1 borax-4 reactor  
NT1 borax-5 reactor  
NT1 br-02 reactor  
NT1 br-2 reactor  
NT1 br-3-vn reactor  
NT1 bwr type reactors  
NT2 allens creek-1 reactor  
NT2 allens creek-2 reactor  
NT2 bailly-1 reactor  
NT2 barsebaeck-1 reactor  
NT2 barsebaeck-2 reactor  
NT2 barton-1 reactor  
NT2 barton-2 reactor  
NT2 barton-3 reactor  
NT2 barton-4 reactor  
NT2 bell reactor  
NT2 big rock point reactor  
NT2 black fox-1 reactor  
NT2 black fox-2 reactor

NT2 bolsa chica-1 reactor  
NT2 bolsa chica-2 reactor  
NT2 bonus reactor  
NT2 browns ferry-1 reactor  
NT2 browns ferry-2 reactor  
NT2 browns ferry-3 reactor  
NT2 brunsbuettel reactor  
NT2 brunswick-1 reactor  
NT2 brunswick-2 reactor  
NT2 chinshan-1 reactor  
NT2 chinshan-2 reactor  
NT2 clinton-1 reactor  
NT2 clinton-2 reactor  
NT2 cofrentes reactor  
NT2 cooper reactor  
NT2 dodewaard reactor  
NT2 douglas point-1 reactor  
NT2 douglas point-2 reactor  
NT2 dresden-1 reactor  
NT2 dresden-2 reactor  
NT2 dresden-3 reactor  
NT2 duane arnold-1 reactor  
NT2 ebwr reactor  
NT2 enel-4 reactor  
NT2 enrico fermi-2 reactor  
NT2 err reactor  
NT2 fitzpatrick reactor  
NT2 forsmark-1 reactor  
NT2 forsmark-2 reactor  
NT2 forsmark-3 reactor  
NT2 fukushima-1 reactor  
NT2 fukushima-2 reactor  
NT2 fukushima-3 reactor  
NT2 fukushima-4 reactor  
NT2 fukushima-5 reactor  
NT2 fukushima-6 reactor  
NT2 fukushima-ii-1 reactor  
NT2 fukushima-ii-2 reactor  
NT2 fukushima-ii-3 reactor  
NT2 fukushima-ii-4 reactor  
NT2 garigliano reactor  
NT2 garona reactor  
NT2 ge standard reactor  
NT2 graben-1 reactor  
NT2 graben-2 reactor  
NT2 grand gulf-1 reactor  
NT2 grand gulf-2 reactor  
NT2 gundremmingen-2 reactor  
NT2 gundremmingen-3 reactor  
NT2 hamaoka-1 reactor  
NT2 hamaoka-2 reactor  
NT2 hamaoka-3 reactor  
NT2 hamaoka-4 reactor  
NT2 hamaoka-5 reactor  
NT2 hartsville-1 reactor  
NT2 hartsville-2 reactor  
NT2 hartsville-3 reactor  
NT2 hartsville-4 reactor  
NT2 hatch-1 reactor  
NT2 hatch-2 reactor  
NT2 hdr reactor  
NT2 hope creek-1 reactor  
NT2 newbold island-1 reactor  
NT2 hope creek-2 reactor  
NT2 newbold island-2 reactor  
NT2 humboldt bay reactor  
NT2 isar reactor  
NT2 jpdr-2 reactor  
NT2 jpdr reactor  
NT2 kaiseraugst reactor  
NT2 kashiwazaki-kariwa-1 reactor  
NT2 kashiwazaki-kariwa-2 reactor  
NT2 kashiwazaki-kariwa-3 reactor  
NT2 kashiwazaki-kariwa-4 reactor  
NT2 kashiwazaki-kariwa-5 reactor  
NT2 kashiwazaki-kariwa-6 reactor  
NT2 kashiwazaki-kariwa-7 reactor  
NT2 kruemmel reactor  
NT2 kuosheng-1 reactor

NT2 kuosheng-2 reactor  
NT2 la salle county-1 reactor  
NT2 la salle county-2 reactor  
NT2 lacbwr reactor  
NT2 laguna verde-1 reactor  
NT2 laguna verde-2 reactor  
NT2 leibstadt reactor  
NT2 limerick-1 reactor  
NT2 limerick-2 reactor  
NT2 lingen reactor  
NT2 mendocino-1 reactor  
NT2 mendocino-2 reactor  
NT2 millstone-1 reactor  
NT2 montague-1 reactor  
NT2 montague-2 reactor  
NT2 montalto di castro-1 reactor  
NT2 montalto di castro-2 reactor  
NT2 monticello reactor  
NT2 muehleberg reactor  
NT2 nine mile point-1 reactor  
NT2 nine mile point-2 reactor  
NT2 okg-1 reactor  
NT2 okg-2 reactor  
NT2 okg-3 reactor  
NT2 olkiluoto-1 reactor  
NT2 olkiluoto-2 reactor  
NT2 onagawa-1 reactor  
NT2 onagawa-2 reactor  
NT2 onagawa-3 reactor  
NT2 oyster creek-1 reactor  
NT2 pathfinder reactor  
NT2 peach bottom-2 reactor  
NT2 peach bottom-3 reactor  
NT2 perry-1 reactor  
NT2 perry-2 reactor  
NT2 philippsburg-1 reactor  
NT2 phipps bend-1 reactor  
NT2 phipps bend-2 reactor  
NT2 pilgrim-1 reactor  
NT2 quad cities-1 reactor  
NT2 quad cities-2 reactor  
NT2 ringhals-1 reactor  
NT2 river bend-1 reactor  
NT2 river bend-2 reactor  
NT2 rwe-bayernwerk reactor  
NT2 shika-1 reactor  
NT2 shimane-1 reactor  
NT2 shimane-2 reactor  
NT2 shoreham reactor  
NT2 skagit-1 reactor  
NT2 skagit-2 reactor  
NT2 sl-1 reactor  
NT2 susquehanna-1 reactor  
NT2 susquehanna-2 reactor  
NT2 tarapur-1 reactor  
NT2 tarapur-2 reactor  
NT2 tokai-2 reactor  
NT2 tsuruga reactor  
NT2 tullnerfeld reactor  
NT2 vak reactor  
NT2 vbwr reactor  
NT2 vermont yankee reactor  
NT2 verplanck-1 reactor  
NT2 verplanck-2 reactor  
NT2 vk-50 reactor  
NT2 wnp-2 reactor  
NT2 wuergassen reactor  
NT2 zimmer-1 reactor  
NT2 zimmer-2 reactor  
NT1 esada-vesr reactor  
NT1 etr reactor  
NT1 evsr reactor  
NT1 ewa reactor  
NT1 ewg-1 reactor  
NT1 gcre reactor  
NT1 getr reactor  
NT1 hclwr type reactors  
NT1 hfetr reactor  
NT1 hfir reactor



NT1	hfr reactor	NT2	ir-100 reactor	NT2	uknr reactor
NT1	igr reactor	NT2	irl reactor	NT2	umne-1 reactor
NT1	janus reactor	NT2	irr-1 reactor	NT2	umrr reactor
NT1	jmtr reactor	NT2	irt-2000 djakarta reactor	NT2	utrr reactor
NT1	juno reactor	NT2	irt-2000 moscow reactor	NT2	uvar reactor
NT1	kamini reactor	NT2	irt-c reactor	NT2	uwrr reactor
NT1	kuca reactor	NT2	irt-f reactor	NT2	vr-1 reactor
NT1	kuhfr reactor	NT2	irt reactor	NT2	wpir reactor
NT1	litr reactor	NT2	irt-sofia reactor	NT2	wsur reactor
NT1	lwbr type reactors	NT2	isis reactor	NT2	xapr reactor
NT1	lwor type reactors	NT2	ivv-2m reactor	NT1	purnima-3 reactor
NT1	maple reactor	NT2	ivv-7 reactor	NT1	pwr type reactors
NT1	maple type reactors	NT2	jen-1 reactor	NT2	aguirre reactor
NT1	mir reactor	NT2	jen-2 reactor	NT2	almaraz-1 reactor
NT1	ml-1 reactor	NT2	jen reactor	NT2	almaraz-2 reactor
NT1	mnsr type reactors	NT2	jrr-3m reactor	NT2	angra-1 reactor
NT2	gharr-1 reactor	NT2	jrr-4 reactor	NT2	angra-2 reactor
NT2	mnsr-ciae reactor	NT2	jules horowitz reactor	NT2	angra-3 reactor
NT2	mnsr-sd reactor	NT2	kur reactor	NT2	ardennes b-1 reactor
NT2	mnsr-sh reactor	NT2	la reina rech-1 reactor	NT2	ardennes b-2 reactor
NT2	mnsr-sz reactor	NT2	lido reactor	NT2	ardennes reactor
NT2	nirr-1 reactor	NT2	lo aguirre rech-2 reactor	NT2	arkansas-1 reactor
NT2	parr-2 reactor	NT2	lpr reactor	NT2	arkansas-2 reactor
NT2	srr-1 reactor	NT2	lptr reactor	NT2	asco-1 reactor
NT1	mrr reactor	NT2	lr-0 reactor	NT2	asco-2 reactor
NT1	mtr reactor	NT2	ltir reactor	NT2	atlantic-1 reactor
NT1	murr reactor	NT2	maria reactor	NT2	atlantic-2 reactor
NT1	netr reactor	NT2	maryla reactor	NT2	basf-1 reactor
NT1	nhr-5 reactor	NT2	melusine-1 reactor	NT2	basf-2 reactor
NT1	nsrr reactor	NT2	merlin reactor	NT2	beaver valley-1 reactor
NT1	ntr reactor	NT2	minerve reactor	NT2	beaver valley-2 reactor
NT1	nuclear furnace reactor	NT2	mnr reactor	NT2	bellefonte-1 reactor
NT1	orr reactor	NT2	nscr reactor	NT2	bellefonte-2 reactor
NT1	osiris reactor	NT2	nur reactor	NT2	belleville sur loire-1 reactor
NT1	owr reactor	NT2	opal reactor	NT2	belleville sur loire-2 reactor
NT1	pbr reactor	NT2	osur reactor	NT2	beznau-1 reactor
NT1	pegase reactor	NT2	parr-1 reactor	NT2	beznau-2 reactor
NT1	peggy reactor	NT2	phebus reactor	NT2	biblis-1 reactor
NT1	perryman-1 reactor	NT2	pik physical model reactor	NT2	biblis-2 reactor
NT1	perryman-2 reactor	NT2	prpr reactor	NT2	biblis-3 reactor
NT1	pool type reactors	NT2	prr-1 reactor	NT2	biblis-4 reactor
NT2	agata reactor	NT2	pstr reactor	NT2	blayais-1 reactor
NT2	apsara reactor	NT2	ptr reactor	NT2	blue hills-1 reactor
NT2	armf-1 reactor	NT2	pulstar-buffalo reactor	NT2	blue hills-2 reactor
NT2	astra reactor	NT2	pulstar-raleigh reactor	NT2	borssele reactor
NT2	atrc reactor	NT2	pur-1 reactor	NT2	br-3 reactor
NT2	avogadro rs-1 reactor	NT2	r2-0 reactor	NT2	braidwood-1 reactor
NT2	bam reactor	NT2	ra-6 reactor	NT2	braidwood-2 reactor
NT2	bawtr reactor	NT2	ra-8 reactor	NT2	brokdorf reactor
NT2	ber-2 reactor	NT2	rana reactor	NT2	bugey-2 reactor
NT2	brr reactor	NT2	rinsc reactor	NT2	bugey-3 reactor
NT2	bsr-1 reactor	NT2	ritmo reactor	NT2	bugey-4 reactor
NT2	bsr-2 reactor	NT2	rp-10 reactor	NT2	bugey-5 reactor
NT2	cabri reactor	NT2	rts-1 reactor	NT2	bw standard reactor
NT2	consort-2 reactor	NT2	rv-1 reactor	NT2	byron-1 reactor
NT2	cp-6 reactor	NT2	saphir reactor	NT2	byron-2 reactor
NT2	crocus reactor	NT2	scarabee reactor	NT2	calhoun-1 reactor
NT2	democritus reactor	NT2	siloe reactor	NT2	calhoun-2 reactor
NT2	dr-2 reactor	NT2	silotte reactor	NT2	callaway-1 reactor
NT2	etrc reactor	NT2	slowpoke type reactors	NT2	callaway-2 reactor
NT2	etrr-2 reactor	NT3	slowpoke-alberta reactor	NT2	calvert cliffs-1 reactor
NT2	fmr reactor	NT3	slowpoke-dalhousie reactor	NT2	calvert cliffs-2 reactor
NT2	fnr reactor	NT3	slowpoke-montreal reactor	NT2	catawba-1 reactor
NT2	frg-1 reactor	NT3	slowpoke-ottawa reactor	NT2	catawba-2 reactor
NT2	frg-2 reactor	NT3	slowpoke-toronto reactor	NT2	cattenom-1 reactor
NT2	fj-1 reactor	NT3	slowpoke-wvre reactor	NT2	cattenom-2 reactor
NT2	frm-ii reactor	NT2	spert-4 reactor	NT2	cattenom-3 reactor
NT2	frm reactor	NT2	stek reactor	NT2	cattenom-4 reactor
NT2	frm reactor	NT2	stir reactor	NT2	ce standard reactor
NT2	ga siwabessy reactor	NT2	swierk r-2 reactor	NT2	cherokee-1 reactor
NT2	gtr reactor	NT2	thetis reactor	NT2	cherokee-2 reactor
NT2	gulf triga-mk-3 reactor	NT2	thor reactor	NT2	cherokee-3 reactor
NT2	hanaro reactor	NT2	toshiba reactor	NT2	chinon-b1 reactor
NT2	herald reactor	NT2	tr-1 reactor	NT2	civaux-1 reactor
NT2	hor reactor	NT2	tr-2 reactor	NT2	civaux-2 reactor
NT2	horace reactor	NT2	triton reactor	NT2	comanche peak-1 reactor
NT2	htr reactor	NT2	tr-1 reactor	NT2	comanche peak-2 reactor
NT2	ian-r1 reactor	NT2	tz1 reactor	NT2	connecticut yankee reactor
NT2	iear-1 reactor	NT2	tz2 reactor	NT2	cook-1 reactor

NT2	cook-2 reactor	NT2	lemoniz-2 reactor	NT2	quanicassee-1 reactor
NT2	cruas-2 reactor	NT2	lenin reactor	NT2	quanicassee-2 reactor
NT2	cruas-3 reactor	NT2	leonid brezhnev reactor	NT2	rancho seco-1 reactor
NT2	cruas-4 reactor	NT2	lingao-1 reactor	NT2	remerschen reactor
NT2	crystal river-3 reactor	NT2	lingao-2 reactor	NT2	rheinsberg akw1 reactor
NT2	crystal river-4 reactor	NT2	loft reactor	NT2	ringhals-2 reactor
NT2	dampierre-1 reactor	NT2	lucie-1 reactor	NT2	ringhals-3 reactor
NT2	dampierre-2 reactor	NT2	lucie-2 reactor	NT2	ringhals-4 reactor
NT2	dampierre-3 reactor	NT2	maanshan-1 reactor	NT2	robinson-2 reactor
NT2	dampierre-4 reactor	NT2	maine yankee reactor	NT2	rooppur reactor
NT2	davis besse-1 reactor	NT2	malibu-1 reactor	NT2	rowe yankee reactor
NT2	davis besse-2 reactor	NT2	marble hill-1 reactor	NT2	s1c prototype reactor
NT2	davis besse-3 reactor	NT2	marble hill-2 reactor	NT2	saint alban-1 reactor
NT2	daya bay-1 reactor	NT2	mc guire-1 reactor	NT2	saint alban-2 reactor
NT2	daya bay-2 reactor	NT2	mc guire-2 reactor	NT2	saint laurent-b1 reactor
NT2	diablo canyon-1 reactor	NT2	mh-1a reactor	NT2	salem-1 reactor
NT2	diablo canyon-2 reactor	NT2	midland-1 reactor	NT2	salem-2 reactor
NT2	doel-1 reactor	NT2	midland-2 reactor	NT2	san onofre-1 reactor
NT2	doel-2 reactor	NT2	mihama-1 reactor	NT2	san onofre-2 reactor
NT2	doel-3 reactor	NT2	mihama-2 reactor	NT2	san onofre-3 reactor
NT2	doel-4 reactor	NT2	mihama-3 reactor	NT2	savannah reactor
NT2	efdr-50 reactor	NT2	millstone-2 reactor	NT2	saxton reactor
NT2	emsland reactor	NT2	millstone-3 reactor	NT2	seabrook-1 reactor
NT2	erie-1 reactor	NT2	muelheim-kaerlich reactor	NT2	seabrook-2 reactor
NT2	erie-2 reactor	NT2	mutsu reactor	NT2	selni reactor
NT2	farley-1 reactor	NT2	neckar-1 reactor	NT2	sendai-1 reactor
NT2	farley-2 reactor	NT2	neckar-2 reactor	NT2	sendai-2 reactor
NT2	fessenheim-1 reactor	NT2	nep-1 reactor	NT2	sequoyah-1 reactor
NT2	flamanville-1 reactor	NT2	nep-2 reactor	NT2	sequoyah-2 reactor
NT2	flamanville-2 reactor	NT2	neupotz-1 reactor	NT2	shippingport reactor
NT2	forked river-1 reactor	NT2	neupotz-2 reactor	NT2	sizewell-b reactor
NT2	genkai-1 reactor	NT2	nogent sur seine-1 reactor	NT2	sm-1 reactor
NT2	genkai-2 reactor	NT2	nogent sur seine-2 reactor	NT2	sm-1a reactor
NT2	genkai-3 reactor	NT2	north anna-1 reactor	NT2	south texas project-1 reactor
NT2	genkai-4 reactor	NT2	north anna-2 reactor	NT2	south texas project-2 reactor
NT2	ginna-1 reactor	NT2	north anna-3 reactor	NT2	stade reactor
NT2	goesgen reactor	NT2	north anna-4 reactor	NT2	sterling-1 reactor
NT2	golfech-1 reactor	NT2	north coast-1 reactor	NT2	sterling-2 reactor
NT2	golfech-2 reactor	NT2	obrigheim reactor	NT2	summer-1 reactor
NT2	grafenrheinfeld reactor	NT2	oconee-1 reactor	NT2	sundesert-1 reactor
NT2	gravelines-1 reactor	NT2	oconee-2 reactor	NT2	sundesert-2 reactor
NT2	gravelines-2 reactor	NT2	oconee-3 reactor	NT2	surry-1 reactor
NT2	gravelines-3 reactor	NT2	oi-1 reactor	NT2	surry-2 reactor
NT2	gravelines-4 reactor	NT2	oi-2 reactor	NT2	surry-3 reactor
NT2	gravelines-5 reactor	NT2	oi-3 reactor	NT2	surry-4 reactor
NT2	gravelines-6 reactor	NT2	oi-4 reactor	NT2	takahama-1 reactor
NT2	greene county reactor	NT2	oktemberyan-2 reactor	NT2	takahama-2 reactor
NT2	greenwood-2 reactor	NT2	olkiluoto-3 reactor	NT2	takahama-3 reactor
NT2	greenwood-3 reactor	NT2	otto hahn reactor	NT2	takahama-4 reactor
NT2	grohnde reactor	NT2	palisades-1 reactor	NT2	three mile island-1 reactor
NT2	hamm-uentrop reactor	NT2	palo verde-1 reactor	NT2	three mile island-2 reactor
NT2	harris-1 reactor	NT2	palo verde-2 reactor	NT2	tihange-2 reactor
NT2	harris-2 reactor	NT2	palo verde-3 reactor	NT2	tihange-3 reactor
NT2	harris-3 reactor	NT2	palo verde-4 reactor	NT2	tihange reactor
NT2	harris-4 reactor	NT2	palo verde-5 reactor	NT2	tomari-1 reactor
NT2	haven-1 reactor	NT2	paluel-1 reactor	NT2	tomari-2 reactor
NT3	koshkonong-1 reactor	NT2	paluel-2 reactor	NT2	tricastin-1 reactor
NT2	haven-2 reactor	NT2	paluel-3 reactor	NT2	tricastin-4 reactor
NT3	koshkonong-2 reactor	NT2	paluel-4 reactor	NT2	trillo-1 reactor
NT2	ikata-2 reactor	NT2	pat reactor	NT2	trojan reactor
NT2	ikata-3 reactor	NT2	pebble springs-1 reactor	NT2	tsuruga-2 reactor
NT2	ikata reactor	NT2	pebble springs-2 reactor	NT2	turkey point-3 reactor
NT2	indian point-1 reactor	NT2	penly-1 reactor	NT2	turkey point-4 reactor
NT2	indian point-2 reactor	NT2	perkins-1 reactor	NT2	tva-1 reactor
NT2	indian point-3 reactor	NT2	perkins-2 reactor	NT2	tva-2 reactor
NT2	iran-1 reactor	NT2	perkins-3 reactor	NT2	tyrone-1 reactor
NT2	iran-2 reactor	NT2	philippsburg-2 reactor	NT2	tyrone-2 reactor
NT2	isar-2 reactor	NT2	pilgrim-2 reactor	NT2	ulchin-1 reactor
NT2	jamesport-1 reactor	NT2	pilgrim-3 reactor	NT2	ulchin-2 reactor
NT2	jamesport-2 reactor	NT2	pm-2a reactor	NT2	ulchin-3 reactor
NT2	kewaunee reactor	NT2	pm-3a reactor	NT2	ulchin-4 reactor
NT2	koeberg-1 reactor	NT2	pnp-1 reactor	NT2	unterweser reactor
NT2	koeberg-2 reactor	NT2	point beach-1 reactor	NT2	vahnum-1 reactor
NT2	kori-1 reactor	NT2	point beach-2 reactor	NT2	vahnum-2 reactor
NT2	kori-2 reactor	NT2	prairie island-1 reactor	NT2	vandellos-2 reactor
NT2	kori-3 reactor	NT2	prairie island-2 reactor	NT2	vogtle-1 reactor
NT2	kori-4 reactor	NT2	qinshan-1 reactor	NT2	vogtle-2 reactor
NT2	krsko reactor	NT2	qinshan-2-1 reactor	NT2	vogtle-3 reactor
NT2	lemoniz-1 reactor	NT2	qinshan-2-2 reactor	NT2	vogtle-4 reactor

- NT2 waterford-3 reactor  
 NT2 waterford-4 reactor  
 NT2 watts bar-1 reactor  
 NT2 watts bar-2 reactor  
 NT2 westinghouse standard reactor  
 NT2 wnp-1 reactor  
 NT2 wnp-3 reactor  
 NT2 wnp-4 reactor  
 NT2 wnp-5 reactor  
 NT2 wolf creek-1 reactor  
 NT2 wup-3 reactor  
 NT2 wup-4 reactor  
 NT2 wup-5 reactor  
 NT2 wup-6 reactor  
 NT2 wwer type reactors  
   NT3 armenian-1 reactor  
   NT3 armenian-2 reactor  
   NT3 balakovo-1 reactor  
   NT3 balakovo-2 reactor  
   NT3 balakovo-3 reactor  
   NT3 balakovo-4 reactor  
   NT3 blahutovice-1 reactor  
   NT3 bohunice v-1 reactor  
   NT3 bohunice v-2 reactor  
   NT3 dukovany-1 reactor  
   NT3 dukovany-2 reactor  
   NT3 dukovany-3 reactor  
   NT3 dukovany-4 reactor  
   NT3 greifswald-1 reactor  
   NT3 greifswald-2 reactor  
   NT3 greifswald-3 reactor  
   NT3 greifswald-4 reactor  
   NT3 greifswald-5 reactor  
   NT3 greifswald-6 reactor  
   NT3 juragua-1 reactor  
   NT3 kalinin-1 reactor  
   NT3 kalinin-3 reactor  
   NT3 kecerovce-1 reactor  
   NT3 khmelnitskij-1 reactor  
   NT3 kola-1 reactor  
   NT3 kola-2 reactor  
   NT3 kola-3 reactor  
   NT3 kola-4 reactor  
   NT3 kozloduy-1 reactor  
   NT3 kozloduy-2 reactor  
   NT3 kozloduy-3 reactor  
   NT3 kozloduy-4 reactor  
   NT3 kozloduy-5 reactor  
   NT3 kozloduy-6 reactor  
   NT3 kudankulam-1 reactor  
   NT3 kudankulam-2 reactor  
   NT3 loviisa-1 reactor  
   NT3 loviisa-2 reactor  
   NT3 mochovce-1 reactor  
   NT3 mochovce-2 reactor  
   NT3 novovoronezh-1 reactor  
   NT3 novovoronezh-2 reactor  
   NT3 novovoronezh-3 reactor  
   NT3 novovoronezh-4 reactor  
   NT3 novovoronezh-5 reactor  
   NT3 paks-1 reactor  
   NT3 paks-2 reactor  
   NT3 paks-3 reactor  
   NT3 paks-4 reactor  
   NT3 rovno-1 reactor  
   NT3 rovno-2 reactor  
   NT3 rovno-3 reactor  
   NT3 rovno-4 reactor  
   NT3 rovno-5 reactor  
   NT3 south ukrainian-1 reactor  
   NT3 south ukrainian-2 reactor  
   NT3 south ukrainian-3 reactor  
   NT3 stendal-1 reactor  
   NT3 tatarian reactor  
   NT3 temelin-1 reactor  
   NT3 temelin-2 reactor  
   NT3 tianwan-1 reactor  
   NT3 zaporozhe-1 reactor  
   NT3 zaporozhe-2 reactor  
   NT3 zaporozhe-3 reactor  
   NT3 zaporozhe-4 reactor  
   NT3 zaporozhe-5 reactor  
   NT3 zaporozhe-6 reactor  
 NT2 wyhl-1 reactor  
 NT2 wyhl-2 reactor  
 NT2 yellow creek-1 reactor  
 NT2 yellow creek-2 reactor  
 NT2 yonggwang-1 reactor  
 NT2 yonggwang-2 reactor  
 NT2 yonggwang-3 reactor  
 NT2 yonggwang-4 reactor  
 NT2 zion-1 reactor  
 NT2 zion-2 reactor  
 NT2 zorita-1 reactor  
 NT1 r-2 reactor  
 NT1 ra-5 reactor  
 NT1 rake-2 reactor  
 NT1 rg-1m reactor  
 NT1 safari-1 reactor  
 NT1 sm-2 reactor  
 NT1 spert-1 reactor  
 NT1 spert-2 reactor  
 NT1 spert-3 reactor  
 NT1 sr-1 reactor  
 NT1 sr-0a reactor  
 NT1 tca reactor  
 NT1 triga type reactors  
   NT2 afri reactor  
   NT2 atrp reactor  
   NT2 colorado triga-mk-3 reactor  
   NT2 cornell triga-mk-2 reactor  
   NT2 dow triga-mk-1 reactor  
   NT2 fir-1 reactor  
   NT2 fir-2 reactor  
   NT2 fnr reactor  
   NT2 gulf triga-mk-3 reactor  
   NT2 kartini-ppny reactor  
   NT2 lopra reactor  
   NT2 nscr reactor  
   NT2 ostr reactor  
   NT2 prpr reactor  
   NT2 pstr reactor  
   NT2 rtp reactor  
   NT2 trico reactor  
   NT2 triga-1-arizona reactor  
   NT2 triga-1-california reactor  
   NT2 triga-1-hanford reactor  
   NT2 triga-1-hanover reactor  
   NT2 triga-1-heidelberg reactor  
   NT2 triga-1-michigan reactor  
   NT2 triga-2-bandung reactor  
   NT2 triga-2-bangladesh reactor  
   NT2 triga-2-dalat reactor  
   NT2 triga-2-illinois reactor  
   NT2 triga-2-kansas reactor  
   NT2 triga-2-ljubljana reactor  
   NT2 triga-2-mainz reactor  
   NT2 triga-2-musashi reactor  
   NT2 triga-2-pavia reactor  
   NT2 triga-2-pitesti reactor  
   NT2 triga-2 reactor  
   NT2 triga-2-rikkyo reactor  
   NT2 triga-2-rome reactor  
   NT2 triga-2-seoul reactor  
   NT2 triga-2-vienna reactor  
   NT2 triga-3-la jolla reactor  
   NT2 triga-3-munich reactor  
   NT2 triga-3-salazar reactor  
   NT2 triga-3-seoul reactor  
   NT2 triga-brazil reactor  
   NT2 triga-texas reactor  
   NT2 triga-veterans reactor  
   NT2 ucbr reactor  
   NT2 uwnr reactor  
   NT2 wsur reactor  
 NT1 tsr-2 reactor  
 NT1 twmr reactor  
 NT1 venus reactor  
 NT1 voronezh ast-500 reactor  
 NT1 wnt reactor  
 NT1 wtr reactor  
 NT1 wwr type reactors  
   NT2 budapest training reactor  
   NT2 irt-1 libya reactor  
   NT2 irt-baghdad reactor  
   NT2 lvr-15 reactor  
   NT2 wwr-2 reactor  
   NT2 wwr-k-almaty reactor  
   NT2 wwr-m-kiev reactor  
   NT2 wwr-m-leningrad reactor  
   NT2 wwr-s-bucharest reactor  
   NT2 wwr-s-budapest reactor  
   NT2 wwr-s-cairo reactor  
   NT2 wwr-s-moscow reactor  
   NT2 wwr-s-prague reactor  
   NT2 wwr-s-tashkent reactor  
   NT2 wwr-sm rossendorf reactor  
   NT2 wwr-z reactor  
 NT1 zlfr reactor

**water moderator**

USE water

**WATER POLICY**

INIS: 1992-04-08; ETDE: 1981-08-04

\*BT1 environmental policy

RT water resources

**WATER POLLUTION***For nonradioactive pollution only; for radioactive pollution use CONTAMINATION.*

UF thermal pollution (water)

BT1 pollution

RT acid mine drainage

RT buoys

RT clean water acts

RT dissolved gases

RT environmental effects

RT environmental exposure

RT eutrophication

RT fouling

RT long-range transport

RT particulates

RT plumes

RT point pollutant sources

RT stationary pollutant sources

RT waste water

RT water pollution abatement

RT water pollution control

RT water pollution monitors

RT water quality

RT water use

**WATER POLLUTION ABATEMENT**

INIS: 1992-03-11; ETDE: 1976-07-07

*The prevention of formation of pollutants at the source.*

SF prevention of significant deterioration

SF psd

BT1 pollution abatement

RT ground cover

RT water pollution

RT water reclamation

**WATER POLLUTION CONTROL**

INIS: 1991-08-16; ETDE: 1977-03-04

*The removal or management of pollutants after they are formed by a source.*

\*BT1 pollution control

RT natural attenuation

RT oil pollution containment

RT rotating disk removal systems

RT sorbent recovery systems

RT water pollution

RT water treatment plants

RT water use

RT weir oil recovery systems

**WATER POLLUTION MONITORS**

INIS: 1992-01-15; ETDE: 1978-01-23

UF monitors (water pollution)

\*BT1 monitors

RT chemical effluents

RT liquid wastes

RT monitoring

RT water pollution

**WATER PUMPS**

INIS: 1993-06-08; ETDE: 1979-03-28

\*BT1 pumps

NT1 solar water pumps

**WATER QUALITY**

INIS: 1991-08-16; ETDE: 1975-10-28

BT1 environmental quality

RT clean water acts

RT gas bubble disease

RT water pollution

RT water reclamation

RT water treatment

**WATER RECLAMATION**

INIS: 1992-03-11; ETDE: 1981-05-18

RT aesthetics

RT public health

RT water pollution abatement

RT water quality

RT water resources

**WATER REMOVAL**INIS: 1991-08-14; ETDE: 1975-11-28  
(Prior to August 1991, this concept was indexed to DEHYDRATION.)

UF dewatering

BT1 removal

RT coal preparation

RT dehydration

RT dewatering equipment

**WATER REQUIREMENTS**

INIS: 1982-12-03; ETDE: 1976-07-07

UF water demand

BT1 demand

RT drought resistance

RT water

RT water resources

RT water use

**WATER RESERVOIRS**

UF reservoirs (water)

BT1 surface waters

NT1 cooling ponds

RT aquicludes

RT dams

RT energy storage

RT energy storage systems

RT fresh water

RT lakes

RT pumped storage power plants

RT reservoir engineering

RT storage

RT water resources

RT water supply

RT water use

**WATER RESOURCES**

1992-08-18

(Until January 1983, this concept was indexed by coordination of WATER and RESERVES; and from then until August 1992 by coordination of WATER and RESOURCES.)

BT1 resources

RT ground water

RT surface waters

RT water

RT water policy

RT water reclamation

RT water requirements

RT water reservoirs

RT water rights

RT water supply

RT water use

RT water wells

**WATER RIGHTS**

INIS: 1992-08-18; ETDE: 1976-03-22

*Rights to the use of water.*

RT legal aspects

RT property rights

RT water

RT water resources

**WATER SATURATION**

INIS: 1992-07-21; ETDE: 1977-01-28

*Degree of filling of reservoir pore structure by reservoir water.*

BT1 saturation

RT gas saturation

RT oil saturation

RT reservoir rock

**water solutions**

USE aqueous solutions

**WATER SOURCE HEAT PUMPS**

INIS: 2000-04-12; ETDE: 1979-07-24

BT1 heat pumps

RT air conditioning

RT space heating

**WATER SPRINGS**

INIS: 2000-01-26; ETDE: 1980-06-06

*Places where ground water flows naturally from a rock or the soil onto the land surface or into a body of surface water.*

UF springs (water)

NT1 mineral springs

NT1 thermal springs

NT2 hot springs

NT3 geysers

NT2 warm springs

RT ground water

RT hydrology

**WATER SUPPLY**

INIS: 1986-05-26; ETDE: 1979-09-26

*To be used in the sense of a public utility or other engineered system, e.g. an irrigation system, rather than a natural system.*

UF water distribution

RT plumbing

RT public utilities

RT reactor cooling systems

RT water reservoirs

RT water resources

RT water utilities

RT water wells

**WATER TABLES**

INIS: 1987-12-03; ETDE: 1980-03-04

RT aquifers

RT ground water

RT hydrology

**WATER TREATMENT**

INIS: 1982-12-07; ETDE: 1976-07-07

NT1 steam stripping

RT bioreactors

RT deaerators

RT dissolved gases

RT drinking water

RT waste water

RT water quality

RT water treatment plants

**WATER TREATMENT PLANTS**

INIS: 1992-05-26; ETDE: 1977-08-09

RT water pollution control

RT water treatment

**WATER USE**

INIS: 1984-02-22; ETDE: 1983-07-20

RT environment

RT external zones

RT irrigation

RT land use

RT regional analysis

RT water pollution

RT water pollution control

RT water requirements

RT water reservoirs

RT water resources

**WATER UTILITIES**

INIS: 1993-06-02; ETDE: 1981-01-27

BT1 public utilities

RT water supply

**WATER VAPOR**

\*BT1 vapors

RT fog

RT humidity

RT steam

RT transpiration

**WATER WALLS**

INIS: 2000-04-12; ETDE: 1980-03-04

\*BT1 passive solar heating systems

BT1 walls

RT sensible heat storage

**WATER WAVES**

INIS: 1992-09-08; ETDE: 1976-08-04

BT1 gravity waves

NT1 tsunamis

RT air-water interactions

RT hurricanes

RT internal waves

RT seas

RT storms

RT tide

RT water currents

RT wave energy converters

RT wave forces

RT wave power

**WATER WELLS**

INIS: 1994-06-27; ETDE: 1981-01-30

(Until June 1994 this concept was indexed by WELLS.)

BT1 wells

RT water resources

RT water supply

**WATER WHEELS**

INIS: 2000-04-12; ETDE: 1980-02-11

UF waterwheels

BT1 wheels

RT hydraulic turbines

RT hydroelectric power plants

**waterborne particles**

INIS: 1991-08-14; ETDE: 1981-09-08

USE particulates

**waterborne particulates**

INIS: 1991-08-14; ETDE: 2002-05-24

USE particulates

**WATERFLOODING**

INIS: 1992-07-10; ETDE: 1976-03-11

*Method of pressure maintenance and secondary recovery in which water is injected through input (injection) wells to drive oil to the production wells.*

SF polymer flooding

BT1 fluid injection

NT1 caustic flooding

RT petroleum

RT well stimulation

**WATERFORD-3 REACTOR**

*Energy Operations, Inc., Taft, Louisiana, USA.*

\*BT1 pwr type reactors

**WATERFORD-4 REACTOR**

*Taft, Louisiana, USA. Unit never ordered.*

\*BT1 pwr type reactors

**WATERPROOFING**

*INIS: 1999-10-08; ETDE: 1977-01-28*

RT coatings  
RT films  
RT protective coatings  
RT sealing materials  
RT seals  
RT surface coating  
RT surface properties  
RT surface treatments  
RT wettability

**WATERSHEDS**

*INIS: 1997-06-19; ETDE: 1976-04-19*

*The drainage areas or catchment basins of streams.*

UF catchment basins  
NT1 colorado river basin  
NT1 columbia river basin  
NT2 pasco basin  
NT1 connecticut river basin  
NT1 great lakes basin  
NT1 mississippi river basin  
NT1 missouri river basin  
NT1 monongahela river basin  
NT1 north platte river basin  
NT1 piceance creek basin  
NT1 potomac river basin  
NT1 powder river basin  
NT1 tennessee valley region  
NT1 yellow creek basin  
RT complex terrain  
RT drainage  
RT imperial valley  
RT land use  
RT rivers  
RT runoff  
RT streams  
RT surface waters  
RT valleys

**waterwall furnaces**

*INIS: 2000-04-12; ETDE: 1981-06-13*

USE waterwall incinerators

**WATERWALL INCINERATORS**

*INIS: 2000-04-12; ETDE: 1981-06-13*

UF waterwall furnaces  
BT1 incinerators  
RT steam generators

**waterwheels**

*INIS: 2000-04-12; ETDE: 1980-02-11*

USE water wheels

**watson method**

USE sommerfeld-watson theory

**watt distribution**

USE watt fission spectrum

**watt fission source**

USE watt fission spectrum

**WATT FISSION SPECTRUM**

UF watt distribution  
UF watt fission source  
\*BT1 neutron spectra  
RT fission  
RT prompt neutrons  
RT thermal fission  
RT thermal neutrons

**watt-hour meters**

*INIS: 1992-07-22; ETDE: 1978-01-23*

USE power meters

**WATT POWER RANGE**

*INIS: 1988-04-15; ETDE: 1989-08-10*

BT1 power range  
NT1 power range 01-10 w  
NT1 power range 10-100 w  
NT1 power range 100-1000 w

**wattage**

*INIS: 1985-01-18; ETDE: 1977-09-19*

USE power input

**WATTS BAR-1 REACTOR**

*TVA, Spring City, Tennessee, USA.*

\*BT1 pwr type reactors

**WATTS BAR-2 REACTOR**

*TVA, Spring City, Tennessee, USA.*

*Indefinitely deferred; construction stopped in early 1990s.*

\*BT1 pwr type reactors

**WAVE ENERGY CONVERTERS**

*1992-09-25*

*Devices for converting energy of water waves.*

RT energy conversion  
RT seas  
RT water waves

**WAVE EQUATIONS**

*INIS: 1982-10-29; ETDE: 1976-09-14*

\*BT1 partial differential equations  
NT1 dirac equation  
NT1 klein-gordon equation  
NT1 schroedinger equation  
RT rarita-schwinger theory

**WAVE FORCES**

*INIS: 2000-04-12; ETDE: 1977-03-08*

*Forces exerted on mechanical structures by waves.*

RT storms  
RT water waves  
RT wave power

**WAVE FORMS**

UF waveforms  
RT electromagnetic radiation  
RT polarization  
RT wave propagation

**WAVE FUNCTIONS**

BT1 functions  
RT brillouin theorem  
RT eigenfunctions  
RT fractional-parentage coefficients  
RT hidden variables  
RT hybridization  
RT muffin-tin potential  
RT projection operators  
RT quantum entanglement  
RT quantum wells  
RT schroedinger equation  
RT slater method  
RT sudden approximation

**WAVE PACKETS**

RT wave propagation

**WAVE POWER**

*1982-12-07*

BT1 power  
\*BT1 renewable energy sources  
RT water waves  
RT wave forces

**WAVE PROPAGATION**

*1996-07-08*

*(Prior to August 1996 STAPP THEORY was a valid ETDE descriptor.)*

UF propagation (wave)  
SF stapp theory  
SF stapp-ypsilantis-metropolis theory  
RT amplitudes  
RT bifurcation  
RT fermat principle  
RT huygens principle  
RT interference  
RT internal waves  
RT mode control  
RT mode conversion  
RT phase velocity  
RT plasma surface waves  
RT polarization  
RT refraction  
RT refractive index  
RT standing waves  
RT travelling waves  
RT wave forms  
RT wave packets  
RT wavelengths  
RT zero sound

**waveforms**

*INIS: 2000-04-12; ETDE: 1983-05-21*

USE wave forms

**WAVEGUIDES**

NT1 helical waveguides  
RT cyclic accelerators  
RT electrical equipment  
RT gratings  
RT microwave equipment  
RT standing waves  
RT travelling waves

**wavelength dependence**

*INIS: 1984-04-04; ETDE: 2002-05-24*

USE frequency dependence

**WAVELENGTHS**

*INIS: 1998-02-26; ETDE: 1975-09-12*

*If the frequency of the wave is known, see the descriptor for the specific frequency range listed under FREQUENCY RANGE.*

*(Prior to July 1986 FREQUENCY RANGE was used for this concept.)*

NT1 de broglie wavelength  
RT frequency range  
RT infrared radiation  
RT standing waves  
RT wave propagation

**waves (shock)**

USE shock waves

**waves (standing)**

USE standing waves

**waves (travelling)**

USE travelling waves

**waw**

*INIS: 1988-02-02; ETDE: 2002-05-24*

USE wackersdorf reprocessing plant

**WAXES**

*1997-06-17*

UF montan waxes  
UF santowax  
\*BT1 other organic compounds  
NT1 carbowax  
NT1 paraffin  
RT dewaxing

**way of life**

INIS: 2000-04-05; ETDE: 1978-11-14  
(From November 1978 till March 1997 LIFE STYLES and QUALITY OF LIFE were valid ETDE descriptors.)  
SEE behavior  
SEE standard of living

**way-wigner formula**

1996-07-15  
(Until June 1996 this was a valid descriptor.)  
SEE beta decay

**waz 16**

INIS: 2000-04-12; ETDE: 1979-08-09  
USE nickel base alloys

**weak boson**

2000-03-29  
SEE intermediate vector bosons

**WEAK CHARGED CURRENTS**

INIS: 1976-08-17; ETDE: 1976-11-01  
\*BT1 charged currents  
RT weak neutral currents

**WEAK-COUPPLING MODEL**

\*BT1 nuclear models  
RT coupling  
RT particle-hole model  
RT shell models  
RT strong-coupling model

**WEAK HADRONIC DECAY**

INIS: 1978-02-23; ETDE: 1978-05-01  
Decay of hadrons due to weak interactions.  
UF non-leptonic decay  
UF nonleptonic decay  
\*BT1 weak particle decay  
RT semileptonic decay  
RT weak interactions

**WEAK INTERACTIONS**

1996-07-18  
(Prior to March 1997 FEINBERG-PAIS THEORY was a valid ETDE descriptor.)  
SF feynberg-pais theory  
SF peratization procedure  
\*BT1 basic interactions  
NT1 fermi interactions  
NT1 leptonic decay  
RT cabibbo angle  
RT charged currents  
RT electron-quark interactions  
RT goldberger-treiman relation  
RT grand unified theory  
RT lepton-hadron interactions  
RT lepton-lepton interactions  
RT neutral currents  
RT neutrino oscillation  
RT photon-lepton interactions  
RT second-class currents  
RT standard model  
RT weak hadronic decay  
RT weak neutral currents  
RT weak particle decay  
RT weinberg angle

**WEAK NEUTRAL CURRENTS**

1995-08-10  
\*BT1 neutral currents  
RT weak charged currents  
RT weak interactions  
RT weyl unified theory

**WEAK PARTICLE DECAY**

INIS: 1978-02-23; ETDE: 1978-05-01  
\*BT1 particle decay  
NT1 leptonic decay  
NT1 semileptonic decay  
NT1 weak hadronic decay

RT radiative decay  
RT weak interactions

**WEAKLY IONIZED GASES**

Ionization factor under 10(-4).  
\*BT1 ionized gases

**WEAPONS**

INIS: 2000-04-12; ETDE: 1975-12-16  
NT1 biological warfare agents  
NT1 bombs  
NT1 chemical warfare agents  
NT1 directed-energy weapons  
NT2 laser weapons  
NT1 nuclear weapons  
NT2 enhanced radiation weapons  
NT2 little boy  
RT ammunition  
RT arms control  
RT penetrators

**WEAR**

RT abrasion  
RT bearings  
RT erosion  
RT friction  
RT gears  
RT grinding  
RT mechanical tests  
RT rolling friction  
RT tribology  
RT wear resistance

**WEAR RESISTANCE**

BT1 mechanical properties  
RT gears  
RT wear

**WEATHER**

RT atmospheric precipitations  
RT climates  
RT clouds  
RT droughts  
RT forecasting  
RT frost  
RT hail  
RT hurricanes  
RT meteorology  
RT natural disasters  
RT seasons  
RT storms  
RT tornadoes  
RT wind

**WEATHERING**

INIS: 1999-01-21; ETDE: 1976-02-19  
Physical disintegration and chemical decomposition (as of earthy and rocky materials) on exposure to atmospheric agents.  
RT aging  
RT corrosion  
RT decomposition

**WEATHERIZATION**

INIS: 1997-06-19; ETDE: 1979-07-18  
Protection from the effects of weather.  
SF caulking  
RT buildings  
RT storm doors  
RT storm windows  
RT thermal insulation  
RT weatherstripping

**WEATHERSTRIPPING**

INIS: 2000-04-12; ETDE: 1977-06-21  
BT1 materials  
RT air infiltration  
RT gaskets  
RT thermal insulation  
RT weatherization

**web growth method**

INIS: 2000-04-12; ETDE: 1980-02-11  
USE dendritic web growth method

**wecs**

INIS: 1991-08-16; ETDE: 1981-08-04  
Wind energy conversion systems.  
USE wind turbines

**WEDDELL SEA**

INIS: 1992-06-04; ETDE: 1984-08-06  
An arm of the southern Atlantic Ocean in Antarctica.  
\*BT1 antarctic ocean  
\*BT1 atlantic ocean

**WEEDS**

BT1 plants  
RT gramineae

**weevils**

USE beetles

**wega device**

INIS: 1977-06-13; ETDE: 2002-05-24  
USE wega stellarator

**WEGA STELLARATOR**

UF wega device  
UF wega tokamak  
\*BT1 stellarators  
RT tokamak devices

**wega tokamak**

INIS: 1977-06-13; ETDE: 2002-05-24  
USE wega stellarator

**WEIERSTRASS FUNCTIONS**

INIS: 2000-04-12; ETDE: 1976-01-23  
BT1 functions  
RT mathematics

**weighing**

(From February 1978 till March 1997 WEIGHT MEASUREMENT was used for this concept in ETDE.)  
USE weight

**WEIGHT**

(From February 1978 till March 1997 WEIGHT MEASUREMENT was a valid ETDE descriptor.)  
UF weighing  
UF weight measurement  
RT density  
RT mass  
RT molecular weight  
RT weight indicators

**WEIGHT INDICATORS**

BT1 measuring instruments  
NT1 balances  
NT2 microbalances  
RT densimeters  
RT weight

**weight measurement**

INIS: 2000-04-12; ETDE: 1978-02-14  
(Prior to March 1997 this was a valid ETDE descriptor.)  
USE weight

**WEIGHTING FUNCTIONS**

BT1 functions  
RT kriging  
RT statistics

**WEIGHTLESSNESS**

INIS: 1999-07-30; ETDE: 1981-12-21  
UF zero gravity  
RT gravitation  
RT space flight

**WEIL EQUATION**

- BT1 equations
- RT spin

**WEINBERG ANGLE**

- INIS: 1995-08-10; ETDE: 1985-07-23*  
*A parameter in the standard model of the electroweak interaction that is used to describe neutral-current weak interactions.*
- UF electroweak mixing angle
  - RT charged-current interactions
  - RT intermediate vector bosons
  - RT mixing ratio
  - RT neutral-current interactions
  - RT standard model
  - RT weak interactions

**weinberg lepton model**

- 1995-08-10  
 (Until July 1995 this was a valid term.)  
 USE weinberg-salam gauge model

**weinberg model**

- 1995-08-10  
 (Prior to November 1995 WEINBERG LEPTON MODEL was used for this concept in ETDE.)  
 USE weinberg-salam gauge model

**WEINBERG-SALAM GAUGE MODEL**

- INIS: 1995-08-10; ETDE: 1976-10-13*  
 (Until July 1995 this concept was indexed by WEINBERG LEPTON MODEL.)
- UF electroweak interaction model
  - UF electroweak model
  - UF salam-weinberg gauge model
  - UF standard electroweak model
  - UF weinberg lepton model
  - UF weinberg model
  - \*BT1 unified-field theories
  - \*BT1 unified gauge models
  - RT grand unified theory
  - RT quantum flavordynamics
  - RT standard model

**WEIR OIL RECOVERY SYSTEMS**

- INIS: 2000-04-12; ETDE: 1978-01-23*  
 \*BT1 pollution control equipment  
 RT oil spills  
 RT water pollution control

**WEISSENBERG METHOD**

- RT rotating crystal method

**WEISSKOPF MODEL**

- \*BT1 evaporation model

**weizsaecker-fermi formula**

- USE weizsaecker formula

**WEIZSAECKER FORMULA**

- UF bethe-weizsaecker relation
- UF weizsaecker-fermi formula
- RT liquid drop model
- RT mass number

**WELDABILITY**

- RT welding

**WELDED JOINTS**

- (From January 1975 until March 1996 LAP WELDS was a valid ETDE descriptor.)
- UF butt welds
  - UF lap welds
  - UF seam welds
  - UF spot welds
  - UF welds
  - BT1 joints
  - RT welding

**WELDING**

*All endothermic processes for material joining.*

- UF fusion (welding)
- UF seam welding
- UF spot welding
- UF stud welding
- \*BT1 joining
- NT1 arc welding
- NT2 gas metal-arc welding
- NT3 gas tungsten-arc welding
- NT2 plasma arc welding
- NT2 shielded metal-arc welding
- NT2 submerged arc welding
- NT1 brazing
- NT1 diffusion welding
- NT1 electron beam welding
- NT1 electroslag welding
- NT1 explosion welding
- NT1 forge welding
- NT1 friction welding
- NT1 gas welding
- NT1 induction welding
- NT1 laser welding
- NT1 magnetic force welding
- NT1 resistance welding
- NT2 flash welding
- NT1 soldering
- NT1 ultrasonic welding
- NT1 vacuum welding
- RT filler metals
- RT heat affected zone
- RT melting
- RT metallurgical flux
- RT self-welding
- RT thermite process
- RT weldability
- RT welded joints
- RT welding machines
- RT welding rods

**welding fluxes**

- (Prior to March 1997 this was a valid ETDE descriptor.)  
 USE metallurgical flux

**WELDING MACHINES**

- RT welding
- RT welding rods

**WELDING RODS**

- RT welding
- RT welding machines

**welds**

- USE welded joints

**well bore damage**

- INIS: 2000-04-12; ETDE: 1983-01-21*  
 USE formation damage

**WELL CASINGS**

- 1992-05-26
- UF casings (well)
  - BT1 equipment
  - RT cementing
  - RT pipes
  - RT wells

**WELL COMPLETION**

- INIS: 1992-09-03; ETDE: 1976-03-11*  
*Final sealing-off of a drilled well, after drilling apparatus is removed, with valving, safety, and flow-control devices.*
- RT cementing
  - RT grouting
  - RT hydraulic equipment
  - RT natural gas wells
  - RT oil wells
  - RT perforation
  - RT propping agents

- RT sand consolidation
- RT well drilling
- RT wellheads

**WELL DRILLING**

- 1992-02-21
- BT1 drilling
  - RT cuttings removal
  - RT directional drilling
  - RT drilling equipment
  - RT drilling rigs
  - RT drills
  - RT exploratory wells
  - RT geothermal wells
  - RT hydraulic equipment
  - RT mwd systems
  - RT rock drilling
  - RT rotary drilling
  - RT rotary drills
  - RT spark drills
  - RT well completion
  - RT wells

**WELL INJECTION EQUIPMENT**

- INIS: 2000-04-12; ETDE: 1984-03-19*  
 \*BT1 field production equipment  
 RT natural gas fields  
 RT natural gas wells  
 RT oil fields  
 RT oil wells

**WELL LOGGING**

*Detailed recording of a physical property of a well or borehole as a function of depth.*

- UF hydrocarbon logging
- NT1 caliper logging
- NT1 chemical logging
- NT1 dipmeter logging
- NT1 electric logging
- NT2 induced polarization logging
- NT2 induction logging
- NT2 resistivity logging
- NT2 sp logging
- NT1 gravity logging
- NT1 nuclear magnetic logging
- NT1 production logging
- NT1 radioactivity logging
- NT2 gamma-gamma logging
- NT2 gamma logging
- NT2 neutron logging
- NT3 neutron-gamma logging
- NT3 neutron-neutron logging
- NT2 radioactive tracer logging
- NT2 x-ray fluorescence logging
- NT1 sonic logging
- NT1 temperature logging
- RT boreholes
- RT borescopes
- RT drill cores
- RT geophysical surveys
- RT mwd systems
- RT well logging equipment

**WELL LOGGING EQUIPMENT**

- INIS: 1980-04-02; ETDE: 1979-03-27*  
*Limited to equipment based on nuclear techniques or used in exploration of materials of nuclear interest.*
- BT1 equipment
  - RT geothermal exploration
  - RT mwd systems
  - RT natural gas deposits
  - RT petroleum deposits
  - RT probes
  - RT radiation detectors
  - RT radiation sources
  - RT well logging

**well maintenance**

- INIS: 1992-03-05; ETDE: 1981-05-18*  
 USE well servicing

**WELL PRESSURE**

INIS: 2000-01-24; ETDE: 1978-08-08

UF bottom-hole pressure

BT1 reservoir pressure

RT geothermal wells

RT natural gas wells

**well reconditioning**

INIS: 1992-03-05; ETDE: 1981-05-18

USE well servicing

**WELL RECOVERY EQUIPMENT**

INIS: 2000-04-12; ETDE: 1984-03-19

\*BT1 field production equipment

RT natural gas fields

RT natural gas wells

RT oil fields

RT oil wells

**WELL SERVICING**

INIS: 1992-03-05; ETDE: 1981-05-18

UF well maintenance

UF well reconditioning

RT natural gas wells

RT oil wells

RT scrapers

RT well stimulation

**well shooting**

INIS: 2000-04-12; ETDE: 1977-01-28

USE explosive stimulation

**well skin effect**

INIS: 2000-04-12; ETDE: 1983-01-21

USE formation damage

**WELL SPACING**

INIS: 2000-04-12; ETDE: 1976-07-07

Area location and interrelationship between wells, such as producing oil, natural gas, or geothermal wells in a field or wells used for radioactive wastes; may be calculated for the maximum ultimate production from a given reservoir.

RT geothermal fields

RT natural gas fields

RT oil fields

**WELL STIMULATION**

1999-04-16

One of the techniques to increase oil or gas reservoir production such as acidizing, fracturing, controlled underground explosions, or various cleaning techniques.

BT1 stimulation

NT1 explosive stimulation

RT acidization

RT carbon dioxide injection

RT displacement fluids

RT enhanced recovery

RT fluid injection

RT fracturing fluids

RT gas injection

RT hydraulic fracturing

RT microemulsion flooding

RT microemulsions

RT natural gas wells

RT oil wells

RT steam injection

RT waterflooding

RT well servicing

**WELL TEMPERATURE**

INIS: 1992-07-21; ETDE: 1978-12-11

BT1 reservoir temperature

RT temperature measurement

**WELLHEAD PRICES**

INIS: 1992-04-09; ETDE: 1979-06-06

Prices paid at the wellhead for gas or oil produced.

BT1 prices

RT natural gas wells

RT oil wells

**WELLHEADS**

INIS: 1992-04-09; ETDE: 1977-01-28

UF christmas trees

\*BT1 field production equipment

RT geothermal wells

RT natural gas wells

RT oil wells

RT well completion

**WELLMAN-GALUSHA PROCESS**

2000-04-12

Crushed coal and oxygen-steam mixture are introduced through revolving grate at bottom of gasifier available with or without agitator. Raw gas of 270 btu/scf is produced.

\*BT1 coal gasification

**WELLMAN-INCANDESCENT PROCESS**

INIS: 2000-04-12; ETDE: 1978-04-27

This two-stage gasifier is nearly identical to the IFE two-stage gasifier that was commercially available until the late 1950's from the International Furnace Equipment Co. Ltd.

\*BT1 coal gasification

RT gas generators

**wellman-lord process**

2000-04-12

USE w-l sulfur dioxide recovery process

**WELLS**

1976-05-07

NT1 abandoned wells

NT1 disposal wells

NT1 dry holes

NT1 exploratory wells

NT1 gas condensate wells

NT1 geothermal wells

NT1 injection wells

NT1 natural gas wells

NT1 oil wells

NT1 water wells

RT blowouts

RT boreholes

RT drilling

RT formation damage

RT perforation

RT well casings

RT well drilling

**welton method**

USE feynman method

**WENDELL-AMEDEE HOT SPRINGS**

INIS: 2000-04-12; ETDE: 1985-12-13

BT1 kgra

RT california

RT geothermal fields

**WENDELSTEIN-2B STELLARATOR**

INIS: 1976-07-06; ETDE: 1976-08-25

SF w stellarators

\*BT1 stellarators

**WENDELSTEIN-7 STELLARATOR**

SF w stellarators

\*BT1 stellarators

**WENDS**

INIS: 1979-12-20; ETDE: 1980-01-24

World ENergy Data System.

UF world energy data system

BT1 information systems

RT energy policy

**WENRA**

INIS: 1999-04-28; ETDE: 1999-05-03

Western European Nuclear Regulators Association.

BT1 international organizations

**wentzel-kramers-brillouin approximation**

USE wkb approximation

**west coast**

INIS: 1992-06-04; ETDE: 1979-12-10

(Prior to December 1991 this was a valid ETDE descriptor.)

USE us west coast

**west germany**

INIS: 2000-04-12; ETDE: 1979-05-25

USE federal republic of germany

**WEST INDIES**

BT1 islands

NT1 bahama islands

NT1 greater antilles

NT2 cuba

NT2 hispaniola

NT3 dominican republic

NT3 haiti

NT2 jamaica

NT2 puerto rico

NT1 lesser antilles

NT2 antigua and barbuda

NT2 barbados

NT2 grenada

NT2 martinique

NT2 netherlands antilles

NT2 saint kitts and nevis

NT2 trinidad and tobago

NT2 virgin islands

NT1 saint lucia

NT1 saint vincent and the grenadines

RT caribbean sea

RT latin america

**WEST VALLEY PROCESSING PLANT**

\*BT1 fuel reprocessing plants

**WEST VALLEY UF6 FACILITY**

INIS: 1985-07-19; ETDE: 1976-08-24

\*BT1 feed materials plants

**WEST VIRGINIA**

\*BT1 usa

RT monongahela river basin

RT ohio river

RT potomac river

RT potomac river basin

**WESTERN AREA POWER ADMINISTRATION**

INIS: 1996-07-16; ETDE: 1980-03-29

UF wapa

\*BT1 us doe

RT electric power

**WESTERN AUSTRALIA**

\*BT1 australia

RT yeelirrie deposit

**WESTERN EUROPE**

INIS: 1995-04-03; ETDE: 1993-08-31

(Prior to July 1991 this was a valid ETDE descriptor. From July 1991 to August 1993 this concept was indexed to EUROPE in ETDE.)

BT1 europe

NT1 austria

NT1 belgium



**NT1** federal republic of germany  
**NT1** france  
**NT2** reunion island  
**NT1** greece  
**NT1** iceland  
**NT1** ireland  
**NT1** italy  
**NT2** appennines  
**NT2** sicily  
**NT1** luxembourg  
**NT1** malta  
**NT1** monaco  
**NT1** netherlands  
**NT1** portugal  
**NT2** azores islands  
**NT1** san marino  
**NT1** scandinavia  
**NT2** denmark  
**NT2** finland  
**NT2** norway  
**NT2** sweden  
**NT1** spain  
**NT2** canary islands  
**NT1** switzerland  
**NT1** united kingdom

### western new york nuclear research reactor

1993-11-10  
 USE pulstar-buffalo reactor

### western region

INIS: 2000-04-12; ETDE: 1978-07-06  
 (Prior to June 1982 this was a valid ETDE descriptor.)  
 USE usa

### WESTERN US OVERTHRUST BELT

INIS: 2000-04-12; ETDE: 1982-07-27  
 UF overthrust belt  
 UF rocky mountain overthrust belt  
 RT idaho  
 RT montana  
 RT natural gas deposits  
 RT petroleum deposits  
 RT utah  
 RT wyoming

### WESTINGHOUSE GASIFICATION PROCESS

INIS: 2000-04-12; ETDE: 1979-02-23  
 The process involves two stages: fluidized-bed gasifier and recirculating-bed devolatilizer.  
 \*BT1 coal gasification  
 RT krw gasification process

### westinghouse nuclear training reactor

INIS: 1993-11-10; ETDE: 1980-03-04  
 USE wntr reactor

### WESTINGHOUSE RECYCLE FUELS PLANT

\*BT1 fuel fabrication plants  
 \*BT1 fuel reprocessing plants  
 RT fuel cycle

### WESTINGHOUSE STANDARD REACTOR

1975-10-29  
 USA.  
 (Prior to 1975, PWR/41 TYPE REACTORS was used.)  
 UF pwr/41 type reactors  
 \*BT1 pwr type reactors  
 RT bopssar standard plant  
 RT gibbsar standard plant

### westinghouse testing reactor

USE wtr reactor

### westvaco process

2000-04-12  
 Process uses dry activated carbon to remove sulfur dioxide from waste gases.  
 (Prior to March 1994, this was a valid ETDE descriptor.)  
 USE desulfurization

### WET ASHING

UF ashing (wet)  
 RT combustion  
 RT sample preparation  
 RT waste processing

### wet deposition

INIS: 2000-04-12; ETDE: 1980-01-15  
 USE washout

### WET OXIDATION PROCESSES

INIS: 1994-07-01; ETDE: 1984-10-10  
 \*BT1 waste processing  
 RT liquid wastes  
 RT oxidation

### WET STORAGE

INIS: 1996-04-16; ETDE: 1997-05-29  
 BT1 storage  
 RT dry storage  
 RT radioactive waste storage  
 RT spent fuel storage

### wet-type cooling towers

2000-04-12  
 USE cooling towers  
 USE open-cycle cooling systems

### WETLANDS

INIS: 1992-05-08; ETDE: 1981-04-17  
 UF peatlands  
 \*BT1 aquatic ecosystems  
**NT1** marshes  
**NT1** swamps  
 RT river deltas  
 RT surface waters

### WETTABILITY

RT surface properties  
 RT waterproofing  
 RT wetting agents

### WETTING AGENTS

BT1 surfactants  
**NT1** detergents  
**NT2** pluronics  
 RT wettability

### WETTING HEAT

INIS: 2000-04-12; ETDE: 1984-11-08  
 Heat change that occurs when a powder is wet by a liquid.  
 UF heat of wetting  
 RT absorption heat  
 RT reaction heat

### weyl field

USE weyl unified theory

### WEYL UNIFIED THEORY

UF weyl field  
 \*BT1 unified-field theories  
 RT electromagnetic fields  
 RT gravitational fields  
 RT weak neutral currents

### whales

INIS: 1991-09-30; ETDE: 1981-06-15  
 USE cetaceans

### WHEAT

UF triticum  
 \*BT1 cereals

### WHEELS

INIS: 2000-01-24; ETDE: 1978-12-28  
**NT1** water wheels  
 RT gears  
 RT tires  
 RT vehicles

### WHETSTONE OPERATION

INIS: 2000-04-12; ETDE: 1979-11-23  
 \*BT1 nuclear explosions  
 \*BT1 underground explosions  
 RT contained explosions

### WHEY

INIS: 1993-07-19; ETDE: 1978-08-08  
 Watery part of milk separated from the curd in the process of making cheese.  
 \*BT1 milk products  
 RT cheese  
 RT food industry  
 RT milk

### WHISKERS

\*BT1 monocrystals

### WHISTLER INSTABILITY

INIS: 1988-11-16; ETDE: 1985-10-25  
 UF whistler mode  
 \*BT1 plasma macroinstabilities  
 RT beam-plasma systems  
 RT plasma waves

### whistler mode

INIS: 1988-11-16; ETDE: 2002-05-24  
 USE whistler instability

### WHISTLERS

\*BT1 radio noise  
 RT atmospheric  
 RT auroral hiss  
 RT lightning

### white copper

1996-06-28  
 (Prior to July 1996 GERMAN SILVER was a valid ETDE descriptor.)  
 USE copper base alloys  
 USE nickel alloys  
 USE zinc alloys

### WHITE DWARF STARS

\*BT1 dwarf stars

### WHITE HOLES

INIS: 1977-10-17; ETDE: 1976-06-07  
 A time-reversed black hole, an expanding source with growing intensity and photon energy.  
 RT black holes  
 RT cosmology  
 RT origin  
 RT stars

### WHITE RIVER

2000-04-12  
 Not related to White River Basin, a geographically separate area in Arkansas and Missouri.  
 \*BT1 rivers  
 RT colorado  
 RT utah

### WHITE RIVER BASIN

INIS: 2000-04-12; ETDE: 1977-11-28  
 Not related to White River, a river flowing in Colorado and Utah.  
 RT arkansas  
 RT missouri

### WHITE RIVER SHALE PROJECT

INIS: 2000-04-12; ETDE: 1976-03-11  
 RT oil shales

RT utah

## WHITE SANDS SOLAR FACILITY

INIS: 2000-04-12; ETDE: 1981-10-24

The US Army Solar Test Facility in White Sands, New Mexico.

BT1 test facilities  
RT solar furnaces

## whiteshell-1 reactor

USE wr-1 reactor

## whiteshell nuclear research establishment

USE wnre

## WHO

UF world health organization  
BT1 international organizations  
RT medicine  
RT united nations

## WHOLE-BODY COUNTERS

\*BT1 radiation detectors  
RT gamma spectrometers  
RT whole-body counting

## WHOLE-BODY COUNTING

BT1 counting techniques  
RT body  
RT personnel monitoring  
RT radiation protection  
RT radioactivity  
RT radionuclide kinetics  
RT retention  
RT whole-body counters

## WHOLE-BODY IRRADIATION

\*BT1 external irradiation  
RT body

## wholesale buyers

INIS: 1992-04-03; ETDE: 1979-09-28

USE resellers

## wholesale price index

INIS: 2000-04-12; ETDE: 1979-09-27

(Prior to March 1996 this was a valid ETDE descriptor.)

USE wholesale prices

## WHOLESALE PRICES

INIS: 1992-02-23; ETDE: 1979-06-06

(From September 1979 until March 1996 WHOLESALE PRICE INDEX was a valid ETDE descriptor.)

UF producer price index  
UF wholesale price index  
BT1 prices  
RT retail prices

## wholesale sellers

INIS: 1992-04-03; ETDE: 1979-09-28

USE resellers

## wholesalers

INIS: 1992-04-03; ETDE: 1979-09-28

USE resellers

## WHOLESOMENESS

RT food  
RT preservation

## WICK-CHANDRASEKHAR METHOD

1996-07-15

BT1 calculation methods  
RT transport theory

## WICK METHOD

1996-07-15

RT neutron slowing-down theory  
RT slowing-down

## WICK THEOREM

RT many-body problem  
RT quantum field theory

## WIDE GAP SPARK CHAMBERS

\*BT1 spark chambers

## WIDMANSTAETTEN STRUCTURE

BT1 microstructure  
RT phase transformations

## WIDOWS CREEK STEAM PLANT

INIS: 2000-06-27; ETDE: 1976-08-04

\*BT1 fossil-fuel power plants  
RT tennessee valley authority

## WIDTH

For dimensions only: see also LEVEL WIDTHS, LINE WIDTHS, and PARTICLE WIDTHS.

BT1 dimensions  
RT size

## WIEDEMANN-FRANZ LAW

RT electric conductivity  
RT thermal conductivity

## wiederaufarbeitungsanlage karlsruhe

INIS: 1993-11-10; ETDE: 2002-05-24

USE wak

## wiederaufarbeitungsanlage wackersdorf

INIS: 1993-11-10; ETDE: 2002-05-24

USE wackersdorf reprocessing plant

## WIGGLER MAGNETS

INIS: 1999-07-02; ETDE: 1977-06-21

UF undulators  
\*BT1 magnets  
RT synchrotron radiation

## WIGHTMAN FIELD THEORY

\*BT1 axiomatic field theory

## WIGNER COEFFICIENTS

UF  $9j$ -symbols  
RT angular momentum  
RT clebsch-gordan coefficients  
RT group theory  
RT quantum mechanics  
RT racah coefficients

## WIGNER DISTRIBUTION

RT thermodynamics

## WIGNER EFFECT

RT graphite  
RT radiation effects

## WIGNER-EISENBUD THEORY

RT nuclear potential

## WIGNER FORCE

BT1 nuclear forces

## wigner method

USE peierls method

## WIGNER SCATTERING

\*BT1 elastic scattering

## WIGNER-SEITZ METHOD

BT1 calculation methods  
RT band theory

## WIGNER THEORY

RT quantum mechanics

## WIGNER-WILKINS MODEL

RT slowing-down

## WILD ANIMALS

BT1 animals  
RT coyotes

RT foxes  
RT grazing  
RT home range  
RT rangelands  
RT wolves

## wilderness areas

INIS: 1992-03-30; ETDE: 1978-08-08

USE nature reserves

## WILDERNESS PROTECTION ACTS

INIS: 1992-03-30; ETDE: 1983-03-23

BT1 laws  
RT environment  
RT land use  
RT nature reserves

## WILKINS EQUATION

1996-07-15

BT1 equations  
RT slowing-down

## wilkinson theory

1996-07-15

(Until June 1996 this was a valid descriptor.)  
SEE shell models

## william h. zimmer-1 reactor

USE zimmer-1 reactor

## william h. zimmer-2 reactor

INIS: 1980-02-26; ETDE: 1980-03-29

USE zimmer-2 reactor

## williams-weizsacker approximation

USE equivalent-photon approximation

## WILLISTON BASIN

INIS: 1992-06-18; ETDE: 1986-02-21

\*BT1 sedimentary basins  
RT manitoba  
RT montana  
RT north dakota  
RT petroleum deposits  
RT saskatchewan  
RT south dakota

## WILLOWS

INIS: 1992-01-13; ETDE: 1984-05-08

\*BT1 magnoliopsida  
\*BT1 trees

## wilputte process

INIS: 2000-04-12; ETDE: 1978-04-27

This gasifier is used for the gasification of various types of coal by partial combustion with air or oxygen at atmospheric pressure. The gasifier shell is brick-lined and is equipped with a Chapman drum feeder and agitator assembly. Supported under the shell, riding on three sets of rollers and guided by rollers, is the Koller-type revolving grate and ash pan.

(Prior to March 1994, this was a valid ETDE descriptor.)

USE coal gasification

## WILSON LOOP

1983-03-16

RT feynman path integral  
RT lattice field theory  
RT order parameters  
RT quantum chromodynamics  
RT yang-mills theory

## WILZBACH METHOD

BT1 labelling  
RT labelled compounds

## WINCHES

1999-07-07

\*BT1 materials handling equipment  
RT hoists

*RT* materials handling

**WIND**

*RT* advection

*RT* air

*RT* atmospheric circulation

*RT* climates

*RT* fallout

*RT* hurricanes

*RT* meteorology

*RT* natural disasters

*RT* particle resuspension

*RT* radioactive clouds

*RT* sails

*RT* tornadoes

*RT* turbulence

*RT* weather

*RT* wind loads

**wind energy conversion systems**

*INIS: 1991-08-16; ETDE: 1981-07-18*  
*USE* wind turbines

**wind farms**

*INIS: 1992-04-08; ETDE: 1985-08-22*  
*USE* wind turbine arrays

**wind generators**

*INIS: 2000-04-12; ETDE: 1976-03-22*  
*USE* electric generators  
*USE* wind turbines

**WIND LOADS**

*INIS: 1992-07-22; ETDE: 1980-03-29*

*BT1* dynamic loads

*RT* high-rise buildings

*RT* storms

*RT* stresses

*RT* wind

**WIND POWER**

1982-12-07

*BT1* power

*\*BT1* renewable energy sources

*RT* wind power industry

*RT* wind turbines

**WIND POWER INDUSTRY**

*INIS: 1992-02-04; ETDE: 1981-07-18*

*BT1* industry

*RT* wind power

**WIND POWER PLANTS**

*INIS: 1992-04-08; ETDE: 1976-03-22*  
*Wind turbines supplying electric power to a grid.*

*BT1* power plants

*NT1* efd wind generators

*RT* wind turbine arrays

**WIND-POWERED PUMPS**

*INIS: 1992-04-08; ETDE: 1978-09-11*  
*Wind-mechanical pumps only, for wind-electric pumps use WIND TURBINES and PUMPS.*

*\*BT1* pumps

*RT* wind turbines

**WIND TUNNELS**

*BT1* equipment

*RT* aerodynamics

*RT* ducts

*RT* supersonic flow

*RT* tunnels

**WIND TURBINE ARRAYS**

*INIS: 1992-04-08; ETDE: 1985-08-22*  
*UF* wind farms  
*RT* wind power plants

**WIND TURBINES**

1991-08-16  
*UF* wecs

*UF* wind energy conversion systems

*UF* wind generators

*\*BT1* turbines

*NT1* diffuser augmented turbines

*NT1* horizontal axis turbines

*NT1* vertical axis turbines

*NT2* giromill turbines

*NT2* tornado turbines

*NT1* vortex augmented turbines

*RT* solar chimneys

*RT* tilt mechanisms

*RT* tipvane rotors

*RT* troposkien shape

*RT* water brakes

*RT* wind power

*RT* wind-powered pumps

**WINDFALL PROFITS TAX**

*INIS: 2000-04-12; ETDE: 1979-12-10*

*BT1* taxes

*RT* petroleum industry

*RT* profits

*RT* us economic recovery tax act

**WINDING MACHINES**

*INIS: 1999-07-07; ETDE: 1979-05-02*  
*Equipment for winding coils.*

*\*BT1* machinery

*RT* electric coils

*RT* magnet coils

**WINDOW FRAMES**

*INIS: 2004-11-03; ETDE: 2004-10-29*

*RT* buildings

*RT* windows

**WINDOWS**

*BT1* openings

*NT1* storm windows

*RT* bead walls

*RT* buildings

*RT* curtains

*RT* daylighting

*RT* double glazing

*RT* glazing materials

*RT* heat mirrors

*RT* shutters

*RT* skylights

*RT* solar control films

*RT* window frames

**windscale advanced gas-cooled reactor**

1993-11-10  
*USE* wagr reactor

**WINDSCALE PRODUCTION REACTORS**

*\*BT1* air cooled reactors

*\*BT1* graphite moderated reactors

*\*BT1* natural uranium reactors

*\*BT1* plutonium production reactors

*\*BT1* thermal reactors

**windscale reprocessing plant**

*INIS: 1984-06-21; ETDE: 1984-07-10*  
*USE* sellafeld reprocessing plant

**wine**

*USE* beverages

**WINKLER PROCESS**

2000-04-12  
*Davy-Powergas Inc. process for producing intermediate- or high-btu gas that utilizes a fluidized bed gasifier operating at 1500-1850 degrees F and using oxygen and steam. Substitution of air for oxygen will produce low-btu gas.*

*RT* sng processes

**winston collectors**

*INIS: 2000-04-12; ETDE: 1976-11-17*  
*USE* compound parabolic concentrators

**WIPP**

*INIS: 1985-04-22; ETDE: 1984-10-10*  
*UF* waste isolation pilot plant

*\*BT1* pilot plants

*\*BT1* radioactive waste facilities

*BT1* underground facilities

*\*BT1* us doe

*RT* alpha-bearing wastes

*RT* high-level radioactive wastes

*RT* new mexico

*RT* salt deposits

**WIRE SPARK CHAMBERS**

*\*BT1* filmless spark chambers

*RT* multiwire proportional chambers

**WIRES**

*NT1* exploding wires

*NT1* superconducting wires

*RT* chains

*RT* filaments

*RT* rods

*RT* ropes

**wires (fuel)**

*USE* fuel wires

**WISCONSIN**

1997-06-17

*\*BT1* usa

*RT* menominee river

*RT* mississippi river

**wisconsin point beach-1 reactor**

*INIS: 1993-11-10; ETDE: 2002-05-24*  
*USE* point beach-1 reactor

**wisconsin point beach-2 reactor**

*INIS: 1993-11-10; ETDE: 2002-05-24*  
*USE* point beach-2 reactor

**wisconsin public service power reactor**

1993-11-10  
*USE* kewaunee reactor

**wisconsin university nuclear reactor**

*INIS: 1993-11-10; ETDE: 2002-05-24*  
*USE* uwnr reactor

**wisconsin university tokamak**

*ETDE: 2002-05-24*  
*USE* uwmak devices

**wisconsin utilities project-3 reactor**

*INIS: 1993-11-10; ETDE: 2002-05-24*  
*USE* wup-3 reactor

**wisconsin utilities project-4 reactor**

*INIS: 1993-11-10; ETDE: 2002-05-24*  
*USE* wup-4 reactor

**wisconsin utilities project-5 reactor**

*INIS: 1993-11-10; ETDE: 2002-05-24*  
*USE* wup-5 reactor

**wisconsin utilities project-6 reactor**

*INIS: 1993-11-10; ETDE: 2002-05-24*  
*USE* wup-6 reactor

**WITWATERSRAND**

*BT1* mountains

*RT* transvaal

**WKB APPROXIMATION**

*UF* wentzel-kramers-brillouin approximation

*\*BT1* approximations

RT scattering

## WMO

2001-07-17

UF world meteorological organization  
BT1 international organizations  
RT climates  
RT meteorology  
RT united nations

## WNP-1 REACTOR

Washington Public Power Supply System, Richland, Washington, USA. Canceled in 1995 after construction began (1978).

UF washington public power supply system-1 reactor  
UF wppss nuclear project no. 1  
\*BT1 pwr type reactors  
RT n-reactor

## WNP-2 REACTOR

Energy Northwest, Richland, Washington, USA.

(Prior to August 2005 the old name HANFORD-2 REACTOR was also a valid descriptor.)

UF columbia generating station  
UF hanford-2 reactor  
UF washington public power supply system-2 reactor  
UF wppss nuclear project no. 2  
\*BT1 bwr type reactors

## WNP-3 REACTOR

Washington Public Power Supply System, Satsop, Washington, USA. Canceled in 1995 after construction began (1978).

UF washington public power supply system-3 reactor  
UF wppss nuclear project no. 3  
\*BT1 pwr type reactors

## WNP-4 REACTOR

1975-08-20

Washington Public Power Supply System, Richland, Washington, USA. Canceled in 1982 after construction began (1975).

UF washington public power supply system-4 reactor  
UF wppss nuclear project no. 4  
\*BT1 pwr type reactors

## WNP-5 REACTOR

Washington Public Power Supply System, Satsop, Washington, USA. Canceled in 1982 after construction began (1977).

UF washington public power supply system-5 reactor  
UF wppss nuclear project no. 5  
\*BT1 pwr type reactors

## WNRE

UF whiteshell nuclear research establishment  
\*BT1 atomic energy of canada ltd

## WNTR REACTOR

INIS: 1985-04-22; ETDE: 1980-03-04

Westinghouse Electric Corp. Zion, Illinois, USA. Shut down in 1987.

UF westinghouse nuclear training reactor  
\*BT1 enriched uranium reactors  
\*BT1 fast reactors  
\*BT1 tank type reactors  
\*BT1 training reactors  
\*BT1 water cooled reactors  
\*BT1 water moderated reactors

## WOLF CREEK-1 REACTOR

1975-10-29

Wolf Creek Nuclear Operating Corp., Burlington, Kansas, USA.

\*BT1 pwr type reactors

## WOLF-RAYET STARS

\*BT1 main sequence stars

## WOLFENSTEIN PARAMETERS

BT1 dimensionless numbers  
RT interactions  
RT nucleons

## wolfram

USE tungsten

## WOLFRAMITE

\*BT1 oxide minerals  
RT iron oxides  
RT tungsten oxides

## wolframophosphoric acid

USE tungstophosphoric acid

## WOLSUNG-1 REACTOR

INIS: 1978-02-23; ETDE: 1978-03-03

\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors

## WOLSUNG-2 REACTOR

INIS: 1991-12-11; ETDE: 1992-01-24

\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors

## WOLSUNG-3 REACTOR

1994-01-24

\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors

## WOLSUNG-4 REACTOR

1994-01-24

\*BT1 candu type reactors  
\*BT1 natural uranium reactors  
\*BT1 phwr type reactors

## WOLVES

INIS: 1993-07-20; ETDE: 1979-07-18

\*BT1 mammals  
RT coyotes  
RT dogs  
RT foxes  
RT wild animals

## WOMEN

BT1 females  
\*BT1 man  
RT adults  
RT gynecology  
RT us affirmative action program

## WOOD

UF lightwood  
RT biomass  
RT cork  
RT creosote  
RT delignification  
RT fuels  
RT harvesting  
RT hemicellulose  
RT lignin  
RT paper industry  
RT solid fuels  
RT trees  
RT wood-fuel power plants  
RT wood fuels  
RT wood-plastic composites  
RT wood products industry  
RT xylans

RT xylose

## wood alcohol

USE methanol

## WOOD BURNING APPLIANCES

INIS: 1993-01-22; ETDE: 1979-08-07

UF stoves (wood burning)  
UF wood stoves  
\*BT1 appliances  
NT1 wood burning furnaces  
RT ovens  
RT stoves

## WOOD BURNING FURNACES

INIS: 2000-04-12; ETDE: 1977-06-21

BT1 furnaces  
\*BT1 wood burning appliances  
RT space heating

## WOOD-FUEL POWER PLANTS

INIS: 1993-01-22; ETDE: 1980-02-11

\*BT1 thermal power plants  
RT wood  
RT wood fuels

## WOOD FUELS

INIS: 1992-04-09; ETDE: 1981-01-27

UF firewood  
UF fuelwood  
UF wood pellets  
\*BT1 biofuels  
\*BT1 solid fuels  
RT biomass  
RT charcoal  
RT trees  
RT wood  
RT wood-fuel power plants

## WOOD METAL

1993-10-03

\*BT1 alloy-bi50pb25cd12sn12

## WOOD OILS

INIS: 2000-04-12; ETDE: 1984-09-21

\*BT1 oils  
RT synthetic fuels

## wood pellets

2004-09-14

USE pellets  
USE wood fuels

## WOOD-PLASTIC COMPOSITES

\*BT1 composite materials  
RT organic polymers  
RT wood

## WOOD PRODUCTS INDUSTRY

INIS: 1992-03-10; ETDE: 1978-10-30

Industry producing products made from wood, including lumber.

UF lumber industry  
BT1 industry  
NT1 paper industry  
RT forestry  
RT furniture industry  
RT harvesting equipment  
RT printing and publishing industry  
RT wood

## wood stoves

INIS: 2000-04-12; ETDE: 1993-01-20

USE stoves  
USE wood burning appliances

## WOOD WASTES

INIS: 1992-03-16; ETDE: 1975-10-01

UF hog fuel  
\*BT1 organic wastes  
\*BT1 solid wastes  
RT bark

**WOODALL-DUCKHAM PROCESS**

INIS: 2000-04-12; ETDE: 1977-08-24

A two-stage fixed bed process with volatile matter removed at low temperature in the first stage and semicoke or char gasified at higher temperatures in the second stage to produce a low btu gas.

\*BT1 coal gasification  
RT low btu gas

**WOODS-SAXON POTENTIAL**

UF saxon-woods potential  
\*BT1 nuclear potential  
RT optical models

**WOOL**

RT fibers  
RT textiles

**wool fat**

1996-10-23

(Prior to March 1997 LANOLIN was used for this concept in ETDE.)

USE esters  
USE lipids  
USE sterols

**worcester polytechnic institute pool reactor**

1993-11-10

USE wpir reactor

**WORK**

(From August 1977 to March 1997 LABOR was a valid ETDE descriptor.)

SF labor  
RT automation  
RT employment  
RT ilo  
RT occupational diseases  
RT occupations  
RT personnel  
RT remote handling  
RT wages  
RT working conditions  
RT working days

**WORK FUNCTIONS**

BT1 functions  
RT binding energy  
RT electron emission  
RT electron tubes  
RT energy  
RT metals  
RT surface potential

**work hardening**

USE strain hardening

**work softening**

1977-07-05

USE strain softening

**workers**

USE personnel

**working (materials)**

USE materials working

**WORKING CONDITIONS**

RT air conditioning  
RT alara  
RT human factors engineering  
RT icrp critical group  
RT industrial medicine  
RT labor relations  
RT occupational diseases  
RT occupational safety  
RT radiation protection  
RT safety  
RT us occupational safety and health act

RT work  
RT working days

**WORKING DAYS**

INIS: 2000-04-12; ETDE: 1993-08-31

(Prior to December 1991 this was a valid ETDE descriptor. From December 1991 to August 1993 this concept was indexed by ALTERNATIVE WORK SCHEDULES or WORKING CONDITIONS in ETDE.)

RT alternative work schedules  
RT employment  
RT personnel  
RT work  
RT working conditions

**WORKING FACES**

INIS: 1999-09-01; ETDE: 1980-05-23

RT geologic deposits  
RT mining

**WORKING FLUIDS**

1982-06-09

BT1 fluids  
NT1 hydraulic fluids  
NT1 refrigerants  
RT antifreeze  
RT energy conversion  
RT freeze protection  
RT heat exchangers  
RT heat pumps  
RT heat transfer  
RT heat transfer fluids  
RT hydrodynamics  
RT turbines

**WORKMENS COMPENSATION**

UF compensation (workmens)  
RT accidents  
RT civil liability  
RT financial security  
RT hazards  
RT indemnification agreements  
RT legal aspects  
RT victims compensation

**world**

INIS: 2000-04-12; ETDE: 1980-08-25

SEE earth planet  
SEE global aspects

**world association of nuclear operators**

INIS: 1993-11-10; ETDE: 2002-05-24

USE wano

**WORLD ENERGY COUNCIL**

2000-08-21

BT1 international organizations  
RT energy policy

**world energy data system**

INIS: 1979-12-20; ETDE: 1980-01-24

USE wends

**world health organization**

USE who

**world meteorological organization**

2001-07-17

USE wmo

**world-wide fallout**

USE global fallout

**worms (flat)**

USE platyhelminths

**worms (round)**

USE nematodes

**worms (segmented)**

USE annelids

**WOUNDS**

\*BT1 injuries  
RT healing  
RT necrosis  
RT skin

**WPIR REACTOR**

Worcester Polytechnic Institute, Worcester, Massachusetts, USA.

UF worcester polytechnic institute pool reactor

\*BT1 enriched uranium reactors  
\*BT1 pool type reactors  
\*BT1 thermal reactors  
\*BT1 training reactors

**wppss nuclear project no. 1**

USE wnp-1 reactor

**wppss nuclear project no. 2**

INIS: 1984-06-21; ETDE: 1997-03-28

USE wnp-2 reactor

**wppss nuclear project no. 3**

INIS: 1984-06-21; ETDE: 1997-03-28

USE wnp-3 reactor

**wppss nuclear project no. 4**

INIS: 1984-06-21; ETDE: 1997-03-28

USE wnp-4 reactor

**wppss nuclear project no. 5**

INIS: 1984-06-21; ETDE: 1997-03-28

USE wnp-5 reactor

**WR-1 REACTOR**

AECL, Pinawa, Manitoba, Canada.

UF whiteshell-1 reactor

\*BT1 enriched uranium reactors  
\*BT1 heavy water moderated reactors  
\*BT1 materials testing reactors  
\*BT1 organic cooled reactors  
\*BT1 tank type reactors  
\*BT1 test reactors  
\*BT1 thermal reactors

**WRRR REACTOR**

Walter Reed Army Medical Center, Washington, D.C., USA. Shut down in 1970.

UF walter reed research reactor 1-54

\*BT1 aqueous homogeneous reactors  
\*BT1 enriched uranium reactors  
\*BT1 research reactors  
\*BT1 thermal reactors

**WSUR REACTOR**

Washington State Univ., Pullman, Washington, USA.

UF pullman washington state university reactor

UF rscw reactor

UF rwsu reactor

UF washington state university reactor

\*BT1 pool type reactors  
\*BT1 pulsed reactors  
\*BT1 research reactors  
\*BT1 thermal reactors  
\*BT1 triga type reactors

**WT-3 TOKAMAK**

INIS: 1989-12-07; ETDE: 1990-01-03

Kyoto University, Kyoto, Japan.

\*BT1 tokamak devices

**WTR REACTOR**

Westinghouse Electric Corporation, Madison, Pennsylvania, USA. Shut down in 1963.

UF westinghouse testing reactor

\*BT1 enriched uranium reactors

- \*BT1 isotope production reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 test reactors
- \*BT1 thermal reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors

**wuerenlingen proteus reactor**

USE proteus reactor

**WUERGASSEN REACTOR**

*Wuergassen, Niedersachsen, Federal Republic of Germany.*

UF kernkraftwerk wuergassen

- \*BT1 bwr type reactors

**wulfenite**

1996-07-23

(Until July 1996 this was a valid descriptor.)

USE oxide minerals

**wup-1 reactor**

USE haven-1 reactor

**wup-2 reactor**

USE haven-2 reactor

**WUP-3 REACTOR**

*Standardized plant of the Wisconsin Utilities Project, Wisconsin, USA.*

UF wisconsin utilities project-3 reactor

- \*BT1 pwr type reactors

**WUP-4 REACTOR**

*Standardized plant of the Wisconsin Utilities Project, Wisconsin, USA.*

UF wisconsin utilities project-4 reactor

- \*BT1 pwr type reactors

**WUP-5 REACTOR**

*Standardized plant of the Wisconsin Utilities Project, Wisconsin, USA.*

UF wisconsin utilities project-5 reactor

- \*BT1 pwr type reactors

**WUP-6 REACTOR**

*Standardized plant of the Wisconsin Utilities Project, Wisconsin, USA.*

UF wisconsin utilities project-6 reactor

- \*BT1 pwr type reactors

**wwer-1 reactor**

2003-06-26

USE novovoronezh-1 reactor

**wwer-2 reactor**

2003-06-26

USE novovoronezh-2 reactor

**wwer-3 reactor**

2003-06-26

USE novovoronezh-3 reactor

**wwer-4 reactor**

2003-06-26

USE novovoronezh-4 reactor

**wwer-5 reactor**

2003-06-26

USE novovoronezh-5 reactor

**WWER TYPE REACTORS**

1997-08-20

- \*BT1 pwr type reactors
- NT1 armenian-1 reactor
- NT1 armenian-2 reactor
- NT1 balakovo-1 reactor
- NT1 balakovo-2 reactor
- NT1 balakovo-3 reactor
- NT1 balakovo-4 reactor
- NT1 blahutovice-1 reactor
- NT1 bohunice v-1 reactor

- NT1 bohunice v-2 reactor
- NT1 dukovany-1 reactor
- NT1 dukovany-2 reactor
- NT1 dukovany-3 reactor
- NT1 dukovany-4 reactor
- NT1 greifswald-1 reactor
- NT1 greifswald-2 reactor
- NT1 greifswald-3 reactor
- NT1 greifswald-4 reactor
- NT1 greifswald-5 reactor
- NT1 greifswald-6 reactor
- NT1 juragua-1 reactor
- NT1 kalinin-1 reactor
- NT1 kalinin-3 reactor
- NT1 kecerovce-1 reactor
- NT1 khmelnitskij-1 reactor
- NT1 kola-1 reactor
- NT1 kola-2 reactor
- NT1 kola-3 reactor
- NT1 kola-4 reactor
- NT1 kozloduy-1 reactor
- NT1 kozloduy-2 reactor
- NT1 kozloduy-3 reactor
- NT1 kozloduy-4 reactor
- NT1 kozloduy-5 reactor
- NT1 kozloduy-6 reactor
- NT1 kudankulam-1 reactor
- NT1 kudankulam-2 reactor
- NT1 loviisa-1 reactor
- NT1 loviisa-2 reactor
- NT1 mochovce-1 reactor
- NT1 mochovce-2 reactor
- NT1 novovoronezh-1 reactor
- NT1 novovoronezh-2 reactor
- NT1 novovoronezh-3 reactor
- NT1 novovoronezh-4 reactor
- NT1 novovoronezh-5 reactor
- NT1 paks-1 reactor
- NT1 paks-2 reactor
- NT1 paks-3 reactor
- NT1 paks-4 reactor
- NT1 rovno-1 reactor
- NT1 rovno-2 reactor
- NT1 rovno-3 reactor
- NT1 rovno-4 reactor
- NT1 rovno-5 reactor
- NT1 south ukrainian-1 reactor
- NT1 south ukrainian-2 reactor
- NT1 south ukrainian-3 reactor
- NT1 stendal-1 reactor
- NT1 tatarian reactor
- NT1 temelin-1 reactor
- NT1 temelin-2 reactor
- NT1 tianwan-1 reactor
- NT1 zaporozhe-1 reactor
- NT1 zaporozhe-2 reactor
- NT1 zaporozhe-3 reactor
- NT1 zaporozhe-4 reactor
- NT1 zaporozhe-5 reactor
- NT1 zaporozhe-6 reactor

**WWR-2 REACTOR**

*Moscow, Russian Federation.*

- \*BT1 isotope production reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 wwr type reactors

**wwr-c-baghdad reactor**

INIS: 1976-06-23; ETDE: 1994-08-10

USE irt-baghdad reactor

**wwr-c-bucharest reactor**

INIS: 1976-06-23; ETDE: 2002-05-24

USE wwr-s-bucharest reactor

**wwr-c-budapest reactor**

INIS: 1976-06-23; ETDE: 2002-05-24

USE wwr-s-budapest reactor

**wwr-c-cairo reactor**

INIS: 1976-06-23; ETDE: 2002-05-24

USE wwr-s-cairo reactor

**wwr-c-moscow reactor**

INIS: 1976-06-23; ETDE: 2002-05-24

USE wwr-s-moscow reactor

**wwr-c-prague reactor**

INIS: 1998-09-23; ETDE: 2002-03-27

USE lvr-15 reactor

**wwr-c-tashkent reactor**

INIS: 1976-06-23; ETDE: 2002-05-24

USE wwr-s-tashkent reactor

**wwr-k-alma-ata reactor**

1997-07-30

(Until July 1997 this was a valid descriptor.)

USE wwr-k-almaty reactor

**WWR-K-ALMATY REACTOR**

INIS: 1997-07-30; ETDE: 1997-08-30

*Almaty, Kazakhstan.*

(Prior to August 1997 this descriptor was spelled WWR-K ALMA-ATA REACTOR.)

UF alma-ata wwr-k reactor

UF almaty wwr-k reactor

UF wwr-k-alma-ata reactor

- \*BT1 research reactors

- \*BT1 thermal reactors

- \*BT1 wwr type reactors

**wwr-libyan reactor**

2005-01-24

USE irt-1 libya reactor

**WWR-M-KIEV REACTOR**

*Kiev, Ukraine.*

UF kiev wwr-m reactor

- \*BT1 isotope production reactors

- \*BT1 materials testing reactors

- \*BT1 research reactors

- \*BT1 thermal reactors

- \*BT1 wwr type reactors

**WWR-M-LENINGRAD REACTOR**

*St. Petersburg, Russian Federation.*

UF leningrad wwr-m reactor

- \*BT1 isotope production reactors

- \*BT1 materials testing reactors

- \*BT1 research reactors

- \*BT1 thermal reactors

- \*BT1 wwr type reactors

**wwr-s-baghdad reactor**

INIS: 1985-06-10; ETDE: 1994-08-10

(Name changed to IRT-BAGHDAD REACTOR; prior to June 1985 this was a valid descriptor.)

USE irt-baghdad reactor

**WWR-S-BUCHAREST REACTOR**

1976-06-23

*Magurele, Romania.*

UF bucharest wwr-s reactor

UF romanian wwr-c reactor

UF wwr-c-bucharest reactor

- \*BT1 research reactors

- \*BT1 thermal reactors

- \*BT1 wwr type reactors

**WWR-S-BUDAPEST REACTOR**

1976-06-23

*KFKI Atomic Energy Research Institute, Hungarian Academy of Sciences, Budapest, Hungary.*

UF budapest wwr-s reactor

UF hungarian wwr-c reactor

UF kfk reactor

UF wwr-c-budapest reactor

- \*BT1 isotope production reactors

- \*BT1 thermal reactors
- \*BT1 training reactors
- \*BT1 wwr type reactors

**WWR-S-CAIRO REACTOR**

1976-06-23

- UF *are-rr-1 reactor*
- UF *cairo wwr-s reactor*
- UF *united arab republic wwr-c reactor*
- UF *wwr-c-cairo reactor*
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 wwr type reactors

**WWR-S-MOSCOW REACTOR**

1976-06-23

- Moscow, Russian Federation.
- UF *moscow wwr-s reactor*
- UF *wwr-c-moscow reactor*
- \*BT1 isotope production reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 wwr type reactors

**WWR-S-PRAGUE REACTOR**

1998-09-23

- UF *czech wwr-c reactor*
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 wwr type reactors

**wwr-s-rez reactor**

INIS: 1998-09-23; ETDE: 2002-03-27  
 USE lvr-15 reactor

**WWR-S-TASHKENT REACTOR**

1976-06-23

- Tashkent, Uzbekistan.
- UF *tashkent wwr-s reactor*
- UF *uzbek wwr-c reactor*
- UF *uzbek wwr-s reactor*
- UF *wwr-c-tashkent reactor*
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 wwr type reactors

**wwr-s-zittau reactor**

INIS: 1984-04-04; ETDE: 2002-05-24  
 USE zlfr reactor

**WWR-SM ROSENDORF REACTOR**

- Zentralinstitut fuer Kernforschung,  
 Rossendorf bei Dresden, Federal Republic of  
 Germany.
- UF *rossendorf wwr-sm reactor*
- \*BT1 isotope production reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 wwr type reactors

**WWR TYPE REACTORS**

- UF *zarnowiec reactor*
- \*BT1 enriched uranium reactors
- \*BT1 tank type reactors
- \*BT1 water cooled reactors
- \*BT1 water moderated reactors
- NT1 budapest training reactor
- NT1 irt-1 libya reactor
- NT1 irt-baghdad reactor
- NT1 lvr-15 reactor
- NT1 wwr-2 reactor
- NT1 wwr-k-almaty reactor
- NT1 wwr-m-kiev reactor
- NT1 wwr-m-leningrad reactor
- NT1 wwr-s-bucharest reactor
- NT1 wwr-s-budapest reactor
- NT1 wwr-s-cairo reactor
- NT1 wwr-s-moscow reactor
- NT1 wwr-s-prague reactor
- NT1 wwr-s-tashkent reactor
- NT1 wwr-sm rosendorf reactor

NT1 wwr-z reactor

**WWR-Z REACTOR**

2000-04-12

- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 wwr type reactors

**WYHL-1 REACTOR**

INIS: 1975-10-31; ETDE: 1975-12-16

- UF *kws-1 wyhl reactor*
- \*BT1 pwr type reactors

**WYHL-2 REACTOR**

INIS: 1975-10-31; ETDE: 1975-12-16

- UF *kws-2 wyhl reactor*
- \*BT1 pwr type reactors

**wylfa nuclear power station**

USE wylfa reactor

**WYLFA REACTOR**

Anglesey, Wales, UK.

- UF *wylfa nuclear power station*
- \*BT1 carbon dioxide cooled reactors
- \*BT1 magnox type reactors
- \*BT1 thermal reactors

**WYOMING**

1997-06-19

- \*BT1 usa
- NT1 powder river basin
- NT1 rock springs sites
- NT1 washakie basin
- RT green river formation
- RT north platte river basin
- RT snake river plain
- RT us naval petroleum reserves
- RT wasatch formation
- RT western us overthrust belt
- RT yellowstone national park

**X-10 REACTOR**

ORNL, Oak Ridge, Tennessee, USA. Shut down in November 1963.

- UF *ornl x-10 area graphite reactor*
- \*BT1 air cooled reactors
- \*BT1 graphite moderated reactors
- \*BT1 isotope production reactors
- \*BT1 natural uranium reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 training reactors

**X-1700 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

- \*BT1 mesons

**X-1935 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by S-1930 RESONANCES.)

- UF *s-1930 resonances*
- \*BT1 mesons

**X-2220 MESONS**

INIS: 1987-12-21; ETDE: 1988-02-01

(Prior to December 1987 this concept was indexed by X-2220 RESONANCES.)

- UF *x-2220 resonances*
- \*BT1 mesons

**x-2220 resonances**

INIS: 1988-03-08; ETDE: 1987-06-09

(Prior to December 1987 this was a valid descriptor.)

- USE x-2220 mesons

**x-2830 resonances**

INIS: 1988-03-08; ETDE: 1977-11-28

(Prior to December 1987 this was a valid descriptor.)

- USE mesons

**X-3075 MESONS**

INIS: 1988-05-13; ETDE: 1988-06-24

- \*BT1 mesons

**x 40 (alloy)**

INIS: 2000-04-12; ETDE: 1979-12-17

- USE alloy-hs-31

**X CENTERS**

2000-04-12

- \*BT1 color centers

**X CHROMOSOME**

INIS: 1980-02-26; ETDE: 1980-03-31

From then till April 1980 the form X-CHROMOSOMES was used.

(Prior to July 1978

HETEROCHROMOSOMES was used for this concept.)

- \*BT1 heterochromosomes
- NT1 human x chromosome

**X CODES**

- BT1 computer codes

**X RADIATION**

- \*BT1 electromagnetic radiation
- \*BT1 ionizing radiations
- NT1 hard x radiation
- NT1 soft x radiation
- RT biomedical radiography
- RT cosmic x-ray bursts
- RT cosmic x-ray sources
- RT fluoroscopy
- RT gamma radiation
- RT photons
- RT solar x-ray bursts
- RT television
- RT x-ray fluorescence analysis
- RT x-ray photoelectron spectroscopy
- RT x-ray spectroscopy

**x-rasers**

INIS: 1978-07-03; ETDE: 1978-03-08

- USE x-ray lasers

**X-RAY DETECTION**

- UF *photon detection (x-ray)*
- \*BT1 radiation detection
- RT x-ray dosimetry
- RT x-ray spectrometers

**X-RAY DIFFRACTION**

- UF *diffraction (x-ray)*
- UF *xrd*
- \*BT1 diffraction
- RT bragg reflection
- RT crystallography
- RT debye-scherrer method
- RT diffuse scattering
- RT laue method
- RT structural chemical analysis
- RT x-ray diffractometers

**X-RAY DIFFRACTOMETERS**

- \*BT1 diffractometers
- RT crystallography
- RT diffraction methods
- RT gamma diffractometers
- RT structural chemical analysis
- RT x-ray diffraction

**X-RAY DOSIMETRY**

- BT1 dosimetry
- RT x-ray detection

**X-RAY EMISSION ANALYSIS**

- UF *particle-induced x-ray emission analysis*
- \*BT1 nondestructive analysis
- NT1 pixe analysis
- NT1 x-ray fluorescence analysis

RT electron probes  
 RT quantitative chemical analysis  
 RT x-ray spectroscopy

**X-RAY EQUIPMENT**

BT1 equipment  
 NT1 x-ray tubes  
 RT biomedical radiography  
 RT diagnostic techniques  
 RT diffraction gratings  
 RT electronic equipment  
 RT x-ray sources

**X-RAY FLUORESCENCE ANALYSIS**

UF *x-ray spectroscopy*  
 \*BT1 x-ray emission analysis  
 RT fluorescence  
 RT fluorescence spectroscopy  
 RT quantitative chemical analysis  
 RT x radiation  
 RT x-ray fluorescence analyzers  
 RT x-ray fluorescence logging

**X-RAY FLUORESCENCE ANALYZERS**

RT x-ray fluorescence analysis

**X-RAY FLUORESCENCE LOGGING**

INIS: 1978-11-24; ETDE: 1977-03-04  
 \*BT1 radioactivity logging  
 RT x-ray fluorescence analysis

**X-RAY GALAXIES**

INIS: 1975-09-09; ETDE: 1976-08-24  
*Galaxies that emit most of their radiative power in the form of x-rays.*  
 \*BT1 cosmic x-ray sources  
 BT1 galaxies  
 RT cosmic photons  
 RT cosmic radiation

**X-RAY LASERS**

INIS: 1978-07-03; ETDE: 1978-03-08  
 UF *x-rasers*  
 BT1 lasers

**x-ray photoelectron spectrometry**

2002-11-25  
 USE x-ray photoelectron spectroscopy

**X-RAY PHOTOELECTRON SPECTROSCOPY**

2002-11-25  
 UF *esca*  
 UF *x-ray photoelectron spectrometry*  
 UF *xps*  
 \*BT1 photoelectron spectroscopy  
 RT electron spectra  
 RT x radiation

**X-RAY RADIOGRAPHY**

\*BT1 industrial radiography  
 RT biomedical radiography

**x-ray radiography (biomedical)**

ETDE: 2002-05-24  
 USE biomedical radiography

**X-RAY SOURCES**

*For cosmic sources of x radiation use COSMIC X-RAY SOURCES.*  
 BT1 radiation sources  
 RT advanced light source  
 RT advanced photon source  
 RT nsls  
 RT swiss light source  
 RT synchrotron radiation sources  
 RT x-ray equipment

**X-RAY SPECTRA**

BT1 spectra  
 RT x-ray spectroscopy

**X-RAY SPECTROMETERS**

\*BT1 spectrometers  
 RT x-ray detection

**x-ray spectrometry**

INIS: 1975-10-23; ETDE: 2002-05-24  
 USE x-ray spectroscopy

**X-RAY SPECTROSCOPY**

UF *x-ray spectrometry*  
 BT1 spectroscopy  
 RT x radiation  
 RT x-ray emission analysis  
 RT x-ray spectra

**x-ray transmission scanning**

USE photon transmission scanning

**X-RAY TUBES**

BT1 electron tubes  
 \*BT1 x-ray equipment

**x-zero resonances**

USE eta prime-958 mesons

**XANTHAN GUM**

INIS: 2000-09-06; ETDE: 2000-02-25  
 UF *xanthum gum*  
 \*BT1 polysaccharides

**XANTHATES**

\*BT1 organic sulfur compounds  
 NT1 viscose

**XANTHINES**

\*BT1 organic oxygen compounds  
 \*BT1 purines  
 NT1 caffeine  
 NT1 theobromine  
 NT1 theophylline  
 NT1 uric acid  
 RT hypoxanthine

**xanthum gum**

INIS: 2000-04-12; ETDE: 1983-05-21  
 USE xanthan gum

**XAPR REACTOR**

2003-08-18  
*Xi'an, China.*  
 \*BT1 pool type reactors  
 \*BT1 pulsed reactors  
 \*BT1 research reactors

**xc-224**

INIS: 2000-04-12; ETDE: 1979-01-30  
 USE mar-m509 alloys

**xc-224fe**

INIS: 2000-04-12; ETDE: 1979-01-30  
 USE mar-m509 alloys

**xds computers**

INIS: 1996-07-15; ETDE: 1979-01-30  
 (Until June 1996 this was a valid descriptor.)  
 USE computers

**XE-2 REACTOR**

2000-04-12  
 USA.  
 UF *ground experimental engine experiment-2*  
 \*BT1 experimental reactors  
 \*BT1 space propulsion reactors  
 RT hydrogen cooled reactors  
 RT nerva reactor

**XE-PRIME REACTOR**

2000-04-12  
*Nevada Test Site, Mercury, Nevada, USA.*  
 UF *ground experimental engine experiment*  
 \*BT1 experimental reactors

\*BT1 hydrogen cooled reactors  
 \*BT1 propulsion reactors

**XENOBIOTICS**

INIS: 1981-02-27; ETDE: 1981-03-16  
 RT additives  
 RT detergents  
 RT drugs  
 RT nutrients  
 RT organic polymers

**XENON**

\*BT1 rare gases

**XENON 110**

INIS: 1986-04-28; ETDE: 1981-09-08  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 xenon isotopes

**XENON 111**

INIS: 1980-04-02; ETDE: 1980-05-06  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 milliseconds living radioisotopes  
 \*BT1 xenon isotopes

**XENON 112**

INIS: 1979-04-27; ETDE: 1979-05-25  
 \*BT1 alpha decay radioisotopes  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 xenon isotopes

**XENON 113**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 xenon isotopes

**XENON 114**

INIS: 1978-02-23; ETDE: 1978-05-01  
 \*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 xenon isotopes

**XENON 115**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 xenon isotopes

**XENON 116**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-even nuclei  
 \*BT1 intermediate mass nuclei  
 \*BT1 seconds living radioisotopes  
 \*BT1 xenon isotopes

**XENON 117**

\*BT1 beta-plus decay radioisotopes  
 \*BT1 electron capture radioisotopes  
 \*BT1 even-odd nuclei  
 \*BT1 intermediate mass nuclei



- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

**XENON 118**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

**XENON 119**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

**XENON 120**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

**XENON 121**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

**XENON 122**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 xenon isotopes

**XENON 123**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 xenon isotopes

**XENON 123 TARGET**

*INIS: 1975-12-17; ETDE: 1976-07-12*  
BT1 targets

**XENON 124**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 124 TARGET**

*INIS: 1976-02-11; ETDE: 1976-07-12*  
BT1 targets

**XENON 125**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 125 TARGET**

*INIS: 1978-07-31; ETDE: 1978-09-11*  
BT1 targets

**XENON 126**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei

- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 126 TARGET**

*INIS: 1976-02-11; ETDE: 1976-07-12*  
BT1 targets

**XENON 127**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

**XENON 127 TARGET**

*INIS: 1979-02-21; ETDE: 1979-03-28*  
BT1 targets

**XENON 128**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 128 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**XENON 129**

- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 129 BEAMS**

*INIS: 1976-07-30; ETDE: 1976-11-01*  
\*BT1 ion beams

**XENON 129 REACTIONS**

*INIS: 1976-07-30; ETDE: 1976-11-01*  
\*BT1 heavy ion reactions

**XENON 129 TARGET**

*INIS: 1984-05-24; ETDE: 1984-06-29*  
BT1 targets

**XENON 130**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 130 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**XENON 131**

- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 131 BEAMS**

*INIS: 1977-02-08; ETDE: 1977-04-13*  
\*BT1 ion beams

**XENON 131 TARGET**

*INIS: 1979-04-27; ETDE: 1977-06-02*  
BT1 targets

**XENON 132**

- \*BT1 even-even nuclei
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 132 BEAMS**

*INIS: 1979-01-18; ETDE: 1979-02-23*  
\*BT1 ion beams

**XENON 132 REACTIONS**

*INIS: 1977-02-08; ETDE: 1977-04-13*  
\*BT1 heavy ion reactions

**XENON 132 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**XENON 133**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 xenon isotopes

**XENON 134**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 xenon isotopes

**XENON 134 REACTIONS**

*1983-09-01*  
\*BT1 heavy ion reactions

**XENON 134 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**XENON 135**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

**XENON 136**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 xenon isotopes
- RT* xenon 136 beams

**XENON 136 BEAMS**

- \*BT1 ion beams
- RT* xenon 136

**XENON 136 REACTIONS**

- \*BT1 heavy ion reactions

**XENON 136 TARGET**

*INIS: 1975-10-23; ETDE: 1976-07-09*  
BT1 targets

**XENON 137**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

**XENON 138**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 xenon isotopes

**XENON 139**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 140**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 141**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 142**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 143**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 144**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 145**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 xenon isotopes

**XENON 146**

*INIS: 1992-09-23; ETDE: 1976-03-25*

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 xenon isotopes

**XENON BROMIDES**

- \*BT1 bromides
- \*BT1 xenon compounds

**XENON CHLORIDES**

- \*BT1 chlorides
- \*BT1 xenon compounds

**XENON COMPLEXES**

- BT1 complexes

**XENON COMPOUNDS**

*1996-07-08*

- UF xenon hydrides*
- BT1 rare gas compounds
- NT1 xenon bromides
- NT1 xenon chlorides
- NT1 xenon fluorides
- NT1 xenon iodides
- NT1 xenon oxides

**xenon effect**

- USE poisoning

**XENON FLUORIDES**

- \*BT1 fluorides
- \*BT1 xenon compounds

**xenon hydrides**

*1996-07-15*

(Until June 1996 this was a valid descriptor.)

- USE hydrides
- USE xenon compounds

**XENON IODIDES**

*INIS: 1980-11-07; ETDE: 1978-10-23*

- \*BT1 iodides
- \*BT1 xenon compounds

**XENON IONS**

- \*BT1 ions

**XENON ISOTOPES**

*1999-07-16*

- BT1 isotopes
- NT1 xenon 110
- NT1 xenon 111
- NT1 xenon 112
- NT1 xenon 113
- NT1 xenon 114
- NT1 xenon 115
- NT1 xenon 116
- NT1 xenon 117
- NT1 xenon 118
- NT1 xenon 119
- NT1 xenon 120
- NT1 xenon 121
- NT1 xenon 122
- NT1 xenon 123
- NT1 xenon 124
- NT1 xenon 125
- NT1 xenon 126
- NT1 xenon 127
- NT1 xenon 128
- NT1 xenon 129
- NT1 xenon 130
- NT1 xenon 131
- NT1 xenon 132
- NT1 xenon 133
- NT1 xenon 134
- NT1 xenon 135
- NT1 xenon 136
- NT1 xenon 137
- NT1 xenon 138
- NT1 xenon 139
- NT1 xenon 140
- NT1 xenon 141
- NT1 xenon 142
- NT1 xenon 143
- NT1 xenon 144
- NT1 xenon 145
- NT1 xenon 146

**XENON OSCILLATIONS**

*1986-05-26*

*Effects of fission product xenon levels on reactor operation.*

- BT1 poisoning
- RT nuclear poisons
- RT oscillations
- RT reactor poison removal

**XENON OXIDES**

- \*BT1 oxides
- \*BT1 xenon compounds

**XENOTIME**

- \*BT1 phosphate minerals
- RT granites
- RT pegmatites
- RT yttrium phosphates

**xen spectroscopy**

*INIS: 1984-04-04; ETDE: 2002-05-24*

- USE x-ray fluorescence analysis

**xeroderma pigmentosum**

*INIS: 2000-04-12; ETDE: 1978-01-23*

*See also XP CELLS.*

(Prior to March 1997 this was a valid ETDE descriptor.)

- USE congenital diseases
- USE hereditary diseases
- USE skin diseases

**xeroderma pigmentosum cells**

*INIS: 1976-07-16; ETDE: 2002-05-24*

- USE xp cells

**XEROGRAPHY**

- UF xeroradiography*
- RT electrostatics
- RT photography

**xeroradiography**

*INIS: 1975-12-09; ETDE: 2002-05-24*

*Coordinate, as appropriate, with BIOMEDICAL RADIOGRAPHY or INDUSTRIAL RADIOGRAPHY.*

- USE xerography

**xerox data systems computers**

*INIS: 1996-07-08; ETDE: 2002-05-24*

- USE computers

**XI-1530 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-07*

(Prior to December 1987 this concept was indexed by XI-1530 RESONANCES.)

- UF xi-1530 resonances*
- \*BT1 xi baryons

**xi-1530 resonances**

*1987-12-21*

(Prior to December 1987 this was a valid descriptor.)

- USE xi-1530 baryons

**XI-1690 BARYONS**

*1995-07-17*

- \*BT1 xi baryons

**XI-1820 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-07*

(Prior to December 1987 this concept was indexed by XI-1820 RESONANCES.)

- UF xi-1820 resonances*
- \*BT1 xi baryons

**xi-1820 resonances**

*1987-12-21*

(Prior to December 1987 this was a valid descriptor.)

- USE xi-1820 baryons

**xi-1930 resonances**

*1987-12-21*

(Prior to December 1987 this was a valid descriptor.)

- USE xi-1950 baryons

**xi-1940 baryons**

*INIS: 1995-08-07; ETDE: 1988-03-07*

(From December 1987 until July 1995 this was a valid term.)

- USE xi-1950 baryons

**XI-1950 BARYONS**

*1995-08-07*

(Until December 1987 this concept was indexed by XI-1930 RESONANCES; from then until July 1995 it was indexed by XI-1940 BARYONS.)

- UF xi-1930 resonances*
- UF xi-1940 baryons*
- \*BT1 xi baryons

**XI-2030 BARYONS**

*INIS: 1987-12-21; ETDE: 1988-03-07*

(Prior to December 1987 this concept was indexed by XI-2030 RESONANCES.)

- UF xi-2030 resonances*
- \*BT1 xi baryons

**xi-2030 resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE xi-2030 baryons

**XI-2250 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-07

\*BT1 xi baryons

**XI-2500 BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-07

\*BT1 xi baryons

**XI BARYONS**

INIS: 1995-07-17; ETDE: 1988-03-07

\*BT1 hyperons

NT1 xi-1530 baryons

NT1 xi-1690 baryons

NT1 xi-1820 baryons

NT1 xi-1950 baryons

NT1 xi-2030 baryons

NT1 xi-2250 baryons

NT1 xi-2500 baryons

NT1 xi particles

NT2 antixi particles

NT2 xi minus particles

NT2 xi neutral particles

**XI C NEUTRAL BARYONS**

INIS: 1995-04-03; ETDE: 1995-03-27

\*BT1 charmed baryons

**XI C PLUS BARYONS**

INIS: 1987-12-21; ETDE: 1988-03-07

\*BT1 charmed baryons

**xi minus**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE xi minus particles

**XI MINUS PARTICLES**

INIS: 1987-12-21; ETDE: 1988-07-27

(Prior to August 1985 this concept was indexed by XI-MINUS and from August 1985 to December 1987 by XI MINUS.)

UF xi minus

\*BT1 xi particles

**xi neutral**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

USE xi neutral particles

**XI NEUTRAL PARTICLES**

INIS: 1987-12-21; ETDE: 1988-07-27

(Prior to August 1985 this concept was indexed by XI-NEUTRAL and from August 1985 to December 1987 by XI NEUTRAL.)

UF xi neutral

\*BT1 xi particles

**xi particle beams**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE hyperon beams

**XI PARTICLES**

\*BT1 xi baryons

NT1 antixi particles

NT1 xi minus particles

NT1 xi neutral particles

**XMA-1 REACTOR**

2000-04-12

USA.

\*BT1 air cooled reactors

\*BT1 aircraft propulsion reactors

\*BT1 enriched uranium reactors

\*BT1 experimental reactors

\*BT1 hydride moderated reactors

**XP CELLS**

INIS: 1976-07-16; ETDE: 1976-09-15

*Xeroderma pigmentosum cells.*

(From January 1978 till March 1997

XERODERMA PIGMENTOSUM was a valid ETDE descriptor.)

UF *xeroderma pigmentosum cells*

BT1 animal cells

**xps**

2002-11-25

USE x-ray photoelectron spectroscopy

**xrd**

2002-11-25

USE x-ray diffraction

**xuv**

USE extreme ultraviolet radiation

**XYLANASE**

INIS: 2000-04-12; ETDE: 1981-01-12

UF *xylanases*

\*BT1 o-glycosyl hydrolases

**xylanases**

INIS: 2000-04-12; ETDE: 1979-03-28

(Prior to January 1981 this was a valid ETDE descriptor.)

USE xylanase

**XYLANS**

INIS: 2000-04-12; ETDE: 1979-04-12

*Major hemicellulose of hard woods.*

\*BT1 hemicellulose

RT biomass

RT lignin

RT trees

RT wood

**XYLENE-PARA**

\*BT1 xylenes

**XYLENES**UF *dimethylbenzenes*

\*BT1 alkylated aromatics

\*BT1 hydrocarbons

NT1 xylene-para

**XYLENOL ORANGE**

BT1 dyes

BT1 indicators

**XYLENOLS**

2000-04-12

UF *dimethylphenols*UF *hydroxyxylenes*

\*BT1 phenols

**XYLOSE**

\*BT1 aldehydes

\*BT1 pentoses

RT wood

**Y-12 PLANT**

\*BT1 us aec

\*BT1 us doe

\*BT1 us erda

RT oak ridge

RT oak ridge reservation

RT tennessee

**Y CHROMOSOME**

INIS: 1980-02-26; ETDE: 1980-03-29

(Prior to April 1980 this concept was indexed to HETEROCHROMOSOMES in ETDE.)

\*BT1 heterochromosomes

NT1 human y chromosome

**Y CODES**

BT1 computer codes

**y\*resonances**

1988-03-08

(Prior to December 1987 this was a valid descriptor.)

USE baryons

**yamaguchi nonlocal potential**

USE yamaguchi potential

**YAMAGUCHI POTENTIAL**UF *yamaguchi nonlocal potential*

\*BT1 nucleon-nucleon potential

RT nucleons

**YAMS***Tuberous root of plants of the genus Dioscorea.*

\*BT1 magnoliopsida

\*BT1 vegetables

**YANG-FELDMAN FORMALISM**

RT quantum field theory

RT s matrix

**yang-lee distribution**

USE lee-yang theory

**YANG-MILLS THEORY**

RT instantons

RT isospin

RT quantum chromodynamics

RT quantum field theory

RT wilson loop

**YANG THEOREM**

RT angular distribution

RT nuclear reactions

**YANGTZE RIVER**

INIS: 1992-06-04; ETDE: 1980-08-12

\*BT1 rivers

RT china

**yankee connecticut reactor**

USE connecticut yankee reactor

**yankee event**

INIS: 1994-10-14; ETDE: 1984-05-23

*A test made during PROJECT CASTLE.*

(Prior to September 1994, this was a valid ETDE descriptor.)

USE atmospheric explosions

USE nuclear explosions

**yankee maine reactor**

USE maine yankee reactor

**yankee rowe reactor**

USE rowe yankee reactor

**yankee vermont reactor**

USE vermont yankee reactor

**YAYOI REACTOR***Univ. of Tokyo, Tokai, Ibaraki, Japan.*

\*BT1 fast reactors

\*BT1 research and test reactors

**YEARS LIVING RADIOISOTOPES**

\*BT1 radioisotopes

NT1 actinium 227

NT1 aluminium 26

NT1 americium 241

NT1 americium 242

NT1 americium 243

NT1 antimony 125

NT1 argon 39

NT1 argon 42

NT1 barium 133

NT1 berkelium 247

NTI beryllium 10  
 NTI bismuth 207  
 NTI bismuth 208  
 NTI bismuth 210  
 NTI cadmium 109  
 NTI cadmium 113  
 NTI calcium 41  
 NTI californium 249  
 NTI californium 250  
 NTI californium 251  
 NTI californium 252  
 NTI carbon 14  
 NTI cesium 134  
 NTI cesium 135  
 NTI cesium 137  
 NTI chlorine 36  
 NTI cobalt 60  
 NTI curium 243  
 NTI curium 244  
 NTI curium 245  
 NTI curium 246  
 NTI curium 247  
 NTI curium 248  
 NTI curium 250  
 NTI dysprosium 154  
 NTI einsteinium 252  
 NTI europium 150  
 NTI europium 152  
 NTI europium 154  
 NTI europium 155  
 NTI gadolinium 148  
 NTI gadolinium 150  
 NTI gadolinium 152  
 NTI hafnium 172  
 NTI hafnium 174  
 NTI hafnium 178  
 NTI hafnium 182  
 NTI holmium 163  
 NTI holmium 166  
 NTI indium 115  
 NTI iodine 129  
 NTI iridium 192  
 NTI iron 55  
 NTI iron 60  
 NTI krypton 81  
 NTI krypton 85  
 NTI lanthanum 137  
 NTI lanthanum 138  
 NTI lead 202  
 NTI lead 205  
 NTI lead 210  
 NTI lutetium 173  
 NTI lutetium 174  
 NTI lutetium 176  
 NTI manganese 53  
 NTI mercury 194  
 NTI molybdenum 93  
 NTI neodymium 144  
 NTI neptunium 235  
 NTI neptunium 236  
 NTI neptunium 237  
 NTI nickel 59  
 NTI nickel 63  
 NTI niobium 91  
 NTI niobium 92  
 NTI niobium 93  
 NTI niobium 94  
 NTI osmium 186  
 NTI osmium 194  
 NTI palladium 107  
 NTI platinum 190  
 NTI platinum 193  
 NTI plutonium 236  
 NTI plutonium 238  
 NTI plutonium 239  
 NTI plutonium 240  
 NTI plutonium 241  
 NTI plutonium 242  
 NTI plutonium 244

NTI polonium 208  
 NTI polonium 209  
 NTI potassium 40  
 NTI promethium 144  
 NTI promethium 145  
 NTI promethium 146  
 NTI promethium 147  
 NTI protactinium 231  
 NTI radium 226  
 NTI radium 228  
 NTI rhenium 186  
 NTI rhenium 187  
 NTI rhodium 101  
 NTI rubidium 87  
 NTI ruthenium 106  
 NTI samarium 146  
 NTI samarium 147  
 NTI samarium 148  
 NTI samarium 151  
 NTI selenium 79  
 NTI silicon 32  
 NTI silver 108  
 NTI sodium 22  
 NTI strontium 90  
 NTI tantalum 179  
 NTI technetium 97  
 NTI technetium 98  
 NTI technetium 99  
 NTI tellurium 123  
 NTI terbium 157  
 NTI terbium 158  
 NTI thallium 204  
 NTI thorium 228  
 NTI thorium 229  
 NTI thorium 230  
 NTI thorium 232  
 NTI thulium 171  
 NTI tin 121  
 NTI tin 126  
 NTI titanium 44  
 NTI tritium  
 NTI uranium 232  
 NTI uranium 233  
 NTI uranium 234  
 NTI uranium 235  
 NTI uranium 236  
 NTI uranium 238  
 NTI vanadium 50  
 NTI zirconium 93  
 RT half-life  
 RT lifetime

**YEASTS**

\*BT1 eumycota  
 BT1 microorganisms  
 NTI candida  
 NTI saccharomyces  
 NT2 saccharomyces cerevisiae  
 NTI torula  
 RT pheromone  
 RT zymosan

**YEELIRRIE DEPOSIT**

INIS: 1980-12-01; ETDE: 1981-01-09  
 \*BT1 uranium deposits  
 RT uranium ores  
 RT western australia

**yellow cake**

INIS: 1977-01-25; ETDE: 1977-04-13  
 USE uranium oxides u3o8

**YELLOW CREEK**

1997-06-19  
 \*BT1 rivers  
 RT colorado  
 RT yellow creek basin

**YELLOW CREEK-1 REACTOR**

INIS: 1977-11-21; ETDE: 1976-08-24  
 TVA, luka, Mississippi, USA. Canceled in 1984 after construction began (1978).  
 \*BT1 pwr type reactors

**YELLOW CREEK-2 REACTOR**

INIS: 1977-11-21; ETDE: 1976-08-24  
 TVA, luka, Mississippi, USA. Canceled in 1984 after construction began (1978).  
 \*BT1 pwr type reactors

**YELLOW CREEK BASIN**

2000-04-12  
 BT1 watersheds  
 RT colorado  
 RT yellow creek

**YELLOW RIVER**

1996-11-27  
 \*BT1 rivers  
 RT china

**YELLOWSTONE NATIONAL PARK**

1992-06-04  
 SF parks  
 BT1 public lands  
 RT idaho  
 RT montana  
 RT snake river plain  
 RT wyoming

**YEMEN**

1991-11-06  
 UF north yemen  
 UF peoples democratic republic of yemen  
 UF south yemen  
 UF southern yemen  
 UF yemen, southern  
 UF yemen arab republic  
 BT1 arab countries  
 BT1 asia  
 BT1 developing countries  
 BT1 middle east

**yemen, southern**

INIS: 2000-04-12; ETDE: 1980-08-12  
 USE yemen

**yemen arab republic**

INIS: 2000-04-12; ETDE: 1980-04-14  
 (Prior to November 1991 this was a valid ETDE descriptor.)  
 USE yemen

**yerevan synchrotron**

USE erevan synchrotron

**yield (biological)**

USE productivity

**yield (chemical reaction)**

2000-04-12  
 USE chemical reaction yield

**yield (fission)**

2000-04-12  
 USE fission yield

**yield (fusion)**

INIS: 2000-04-12; ETDE: 1976-05-19  
 USE fusion yield

**yield (nuclear reaction)**

2000-04-12  
 USE nuclear reaction yield

**YIELD STRENGTH**

UF strength (yield)  
 BT1 mechanical properties  
 RT tensile properties

**YIELDS**

1993-03-11

*Use of a more specific descriptor is recommended.*

- NT1 chemical reaction yield
- NT1 gas yields
- NT1 nuclear reaction yield
- NT2 fission yield
- NT2 fusion yield
- NT1 oil yields
- RT productivity

**yolk**

USE eggs

**YONGGWANG-1 REACTOR**

2000-11-21

*Yonggwang, Republic of Korea.*

- \*BT1 pwr type reactors

**YONGGWANG-2 REACTOR**

2000-11-21

*Yonggwang, Republic of Korea.*

- \*BT1 pwr type reactors

**YONGGWANG-3 REACTOR***INIS: 1997-10-03; ETDE: 1998-02-24**Yonggwang, Republic of Korea.*

- \*BT1 pwr type reactors

**YONGGWANG-4 REACTOR***INIS: 1997-10-03; ETDE: 1998-02-24**Yonggwang, Republic of Korea.*

- \*BT1 pwr type reactors

**yoshida sarcoma**

USE experimental neoplasms

**YOUNG DIAGRAM**

- \*BT1 diagrams
- RT group theory

**YOUNG MODEL**

RT transport theory

**YOUNG MODULUS**

- BT1 mechanical properties
- RT elasticity
- RT hooke law

**YRAST STATES***The lowest energy states for given angular momenta.*

- BT1 energy levels
- RT angular momentum
- RT backbending
- RT moment of inertia
- RT nuclear structure

**YTTERBIUM**

- \*BT1 rare earths

**YTTERBIUM 150***INIS: 1985-04-22; ETDE: 1985-05-07*

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 151***INIS: 1985-10-22; ETDE: 1984-11-29*

- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 152***INIS: 1980-12-01; ETDE: 1980-09-05*

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 153***INIS: 1977-06-14; ETDE: 1977-10-20*

- \*BT1 beta-plus decay radioisotopes

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 microseconds living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 154***INIS: 1976-10-07; ETDE: 1976-07-07*

- \*BT1 alpha decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 155***INIS: 1976-01-28; ETDE: 1975-09-12*

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 156***INIS: 1976-11-08; ETDE: 1976-09-15*

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 157**

1976-07-06

- \*BT1 alpha decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 158**

- \*BT1 alpha decay radioisotopes
- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 159**

- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 160**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 161**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 162**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 163**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 164**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 165**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 166**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 167**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 168**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 168 TARGET***ETDE: 1976-07-09*

- BT1 targets

**YTTERBIUM 169**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 169 TARGET***INIS: 1992-09-23; ETDE: 1982-03-29*

- BT1 targets

**YTTERBIUM 170**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 170 TARGET***ETDE: 1976-07-09*

- BT1 targets

**YTTERBIUM 171**

- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 171 TARGET***ETDE: 1976-07-09*

- BT1 targets

**YTTERBIUM 172**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 172 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**YTTERBIUM 173**

- \*BT1 even-odd nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 173 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**YTTERBIUM 174**

- \*BT1 even-even nuclei
- \*BT1 rare earth nuclei
- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 174 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**YTTERBIUM 175**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 176**

- \*BT1 even-even nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 stable isotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 176 TARGET**

*ETDE: 1976-07-09*  
BT1 targets

**YTTERBIUM 177**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 rare earth nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 ytterbium isotopes

**YTTERBIUM 178**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 rare earth nuclei
- \*BT1 ytterbium isotopes

**YTTERBIUM 179**

*1982-06-09*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-odd nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 rare earth nuclei  
\*BT1 ytterbium isotopes

**YTTERBIUM 180**

*INIS: 1987-09-22; ETDE: 1987-10-02*  
\*BT1 beta-minus decay radioisotopes  
\*BT1 even-even nuclei  
\*BT1 minutes living radioisotopes  
\*BT1 rare earth nuclei  
\*BT1 ytterbium isotopes

**YTTERBIUM ADDITIONS**

*Alloys containing not more than 1% Yb are listed here.*

- \*BT1 rare earth additions
- RT ytterbium alloys

**YTTERBIUM ALLOYS**

*Alloys containing more than 1% Yb.*  
\*BT1 rare earth alloys  
NT1 ytterbium base alloys  
RT ytterbium additions

**YTTERBIUM BASE ALLOYS**

- \*BT1 ytterbium alloys

**YTTERBIUM BORIDES**

- \*BT1 borides
- \*BT1 ytterbium compounds

**YTTERBIUM BROMIDES**

- \*BT1 bromides
- \*BT1 ytterbium compounds

**YTTERBIUM CARBIDES**

- \*BT1 carbides
- \*BT1 ytterbium compounds

**YTTERBIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 ytterbium compounds

**YTTERBIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 ytterbium compounds

**YTTERBIUM COMPLEXES**

- \*BT1 rare earth complexes

**YTTERBIUM COMPOUNDS**

*1997-06-19*  
BT1 rare earth compounds  
NT1 ytterbium borides  
NT1 ytterbium bromides  
NT1 ytterbium carbides  
NT1 ytterbium carbonates  
NT1 ytterbium chlorides  
NT1 ytterbium fluorides  
NT1 ytterbium hydrides  
NT1 ytterbium hydroxides  
NT1 ytterbium iodides  
NT1 ytterbium nitrates  
NT1 ytterbium nitrides  
NT1 ytterbium oxides  
NT1 ytterbium perchlorates  
NT1 ytterbium phosphates  
NT1 ytterbium phosphides  
NT1 ytterbium selenides  
NT1 ytterbium silicates  
NT1 ytterbium silicides  
NT1 ytterbium sulfates  
NT1 ytterbium sulfides  
NT1 ytterbium tellurides  
NT1 ytterbium tungstates

**YTTERBIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 ytterbium compounds

**YTTERBIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 ytterbium compounds

**YTTERBIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 ytterbium compounds

**YTTERBIUM IODIDES**

- \*BT1 iodides
- \*BT1 ytterbium compounds

**YTTERBIUM IONS**

- \*BT1 ions

**YTTERBIUM ISOTOPES**

BT1 isotopes  
NT1 ytterbium 150  
NT1 ytterbium 151  
NT1 ytterbium 152  
NT1 ytterbium 153  
NT1 ytterbium 154  
NT1 ytterbium 155  
NT1 ytterbium 156  
NT1 ytterbium 157  
NT1 ytterbium 158  
NT1 ytterbium 159  
NT1 ytterbium 160  
NT1 ytterbium 161  
NT1 ytterbium 162  
NT1 ytterbium 163  
NT1 ytterbium 164  
NT1 ytterbium 165  
NT1 ytterbium 166  
NT1 ytterbium 167  
NT1 ytterbium 168  
NT1 ytterbium 169  
NT1 ytterbium 170  
NT1 ytterbium 171  
NT1 ytterbium 172  
NT1 ytterbium 173  
NT1 ytterbium 174  
NT1 ytterbium 175  
NT1 ytterbium 176  
NT1 ytterbium 177  
NT1 ytterbium 178  
NT1 ytterbium 179  
NT1 ytterbium 180

**YTTERBIUM NITRATES**

- \*BT1 nitrates
- \*BT1 ytterbium compounds

**YTTERBIUM NITRIDES**

- \*BT1 nitrides
- \*BT1 ytterbium compounds

**YTTERBIUM OXIDES**

- \*BT1 oxides
- \*BT1 ytterbium compounds

**YTTERBIUM PERCHLORATES**

*INIS: 2000-04-12; ETDE: 1975-10-28*  
\*BT1 perchlorates  
\*BT1 ytterbium compounds

**YTTERBIUM PHOSPHATES**

*INIS: 1975-10-23; ETDE: 1975-12-16*  
\*BT1 phosphates  
\*BT1 ytterbium compounds

**YTTERBIUM PHOSPHIDES**

*INIS: 1993-01-13; ETDE: 1992-09-14*  
\*BT1 phosphides  
\*BT1 ytterbium compounds

**YTTERBIUM SELENIDES**

*INIS: 1977-01-25; ETDE: 1977-04-13*  
\*BT1 selenides  
\*BT1 ytterbium compounds

**YTTERBIUM SILICATES**

- \*BT1 silicates
- \*BT1 ytterbium compounds

**YTTERBIUM SILICIDES**

*INIS: 1978-07-31; ETDE: 1978-09-11*  
\*BT1 silicides  
\*BT1 ytterbium compounds

**YTTERBIUM SULFATES**

- \*BT1 sulfates
- \*BT1 ytterbium compounds

**YTTERBIUM SULFIDES**

- \*BT1 sulfides
- \*BT1 ytterbium compounds

**YTTERBIUM TELLURIDES***INIS: 1987-09-22; ETDE: 1976-01-07*

- \*BT1 tellurides
- \*BT1 ytterbium compounds

**YTTERBIUM TUNGSTATES***INIS: 1979-02-21; ETDE: 1979-03-28*

- \*BT1 tungstates
- \*BT1 ytterbium compounds

**yttrialite***1996-07-15*

(Until June 1996 this was a valid descriptor.)

- USE silicate minerals
- USE thorium minerals

**YTTRIUM**

- \*BT1 transition elements

**YTTRIUM 100***INIS: 1977-06-13; ETDE: 1977-10-20*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 101***INIS: 1984-06-21; ETDE: 1981-01-27*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 102***INIS: 1977-01-26; ETDE: 1976-11-17*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 103***INIS: 1996-06-17; ETDE: 1996-05-31*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 77***INIS: 1990-12-05; ETDE: 1991-01-14*

- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 79***INIS: 1992-03-26; ETDE: 1992-09-30*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 yttrium isotopes

**YTTRIUM 80***INIS: 1980-05-14; ETDE: 1979-12-10*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 yttrium isotopes

**YTTRIUM 81**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 82**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 yttrium isotopes

**YTTRIUM 83**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 84**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 yttrium isotopes

**YTTRIUM 85**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 86**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 internal conversion radioisotopes
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 87**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 yttrium isotopes
- RT radioisotope generators

**YTTRIUM 87 TARGET***INIS: 1977-01-25; ETDE: 1977-04-13*

- BT1 targets

**YTTRIUM 88**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 88 TARGET***INIS: 1977-01-25; ETDE: 1977-04-13*

- BT1 targets

**YTTRIUM 89**

- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 stable isotopes
- \*BT1 yttrium isotopes

**YTTRIUM 89 TARGET***ETDE: 1976-07-09*

- BT1 targets

**YTTRIUM 90**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 odd-odd nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 91**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 92**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 93**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 94**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 95**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 yttrium isotopes

**YTTRIUM 96**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 yttrium isotopes

**YTTRIUM 97**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 yttrium isotopes

**YTTRIUM 98**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 odd-odd nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 yttrium isotopes

**YTTRIUM 99**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 odd-even nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 yttrium isotopes

**YTTRIUM ADDITIONS**

1996-01-25

Alloys containing not more than 1% Y are listed here.

RT yttrium alloys

**YTTRIUM ALLOYS**

1995-02-27

Alloys containing more than 1% Y.

\*BT1 transition element alloys

NT1 alloy-c-103

NT1 ge 2541

NT1 yttrium base alloys

RT yttrium additions

**yttrium aluminium garnets**

USE aluminium oxides

USE ferrite garnets

USE yttrium compounds

**yttrium arsenides**

INIS: 1996-07-15; ETDE: 1976-09-14

(Until June 1996 this was a valid descriptor.)

USE arsenides

USE yttrium compounds

**YTTRIUM BASE ALLOYS**

\*BT1 yttrium alloys

**YTTRIUM BORIDES**

\*BT1 borides

\*BT1 yttrium compounds

**YTTRIUM BROMIDES**

\*BT1 bromides

\*BT1 yttrium compounds

**YTTRIUM CARBIDES**

\*BT1 carbides

\*BT1 yttrium compounds

**YTTRIUM CARBONATES**

\*BT1 carbonates

\*BT1 yttrium compounds

**YTTRIUM CHLORIDES**

\*BT1 chlorides

\*BT1 yttrium compounds

**YTTRIUM COMPLEXES**

\*BT1 transition element complexes

**YTTRIUM COMPOUNDS**

1997-06-19

UF yttrium aluminium garnets

UF yttrium arsenides

BT1 transition element compounds

NT1 yttrium borides

NT1 yttrium bromides

NT1 yttrium carbides

NT1 yttrium carbonates

NT1 yttrium chlorides

NT1 yttrium fluorides

NT1 yttrium hydrides

NT1 yttrium hydroxides

NT1 yttrium iodides

NT1 yttrium nitrates

NT1 yttrium nitrides

NT1 yttrium oxides

NT1 alloy-in-853

NT1 yttrium perchlorates

NT1 yttrium phosphates

NT1 yttrium phosphides

NT1 yttrium selenides

NT1 yttrium silicates

NT1 yttrium silicides

NT1 yttrium sulfates

NT1 yttrium sulfides

NT1 yttrium tellurides

NT1 yttrium tungstates

**YTTRIUM FLUORIDES**

\*BT1 fluorides

\*BT1 yttrium compounds

**YTTRIUM HYDRIDES**

\*BT1 hydrides

\*BT1 yttrium compounds

**YTTRIUM HYDROXIDES**

\*BT1 hydroxides

\*BT1 yttrium compounds

**YTTRIUM IODIDES**

\*BT1 iodides

\*BT1 yttrium compounds

**YTTRIUM IONS**

\*BT1 ions

**YTTRIUM ISOTOPES**

1999-07-16

BT1 isotopes

NT1 yttrium 100

NT1 yttrium 101

NT1 yttrium 102

NT1 yttrium 103

NT1 yttrium 77

NT1 yttrium 79

NT1 yttrium 80

NT1 yttrium 81

NT1 yttrium 82

NT1 yttrium 83

NT1 yttrium 84

NT1 yttrium 85

NT1 yttrium 86

NT1 yttrium 87

NT1 yttrium 88

NT1 yttrium 89

NT1 yttrium 90

NT1 yttrium 91

NT1 yttrium 92

NT1 yttrium 93

NT1 yttrium 94

NT1 yttrium 95

NT1 yttrium 96

NT1 yttrium 97

NT1 yttrium 98

NT1 yttrium 99

**YTTRIUM NITRATES**

\*BT1 nitrates

\*BT1 yttrium compounds

**YTTRIUM NITRIDES**

\*BT1 nitrides

\*BT1 yttrium compounds

**YTTRIUM ORES**

BT1 ores

**YTTRIUM OXIDES**

\*BT1 oxides

\*BT1 yttrium compounds

NT1 alloy-in-853

**YTTRIUM PERCHLORATES**

1991-09-16

\*BT1 perchlorates

\*BT1 yttrium compounds

**YTTRIUM PHOSPHATES**

\*BT1 phosphates

\*BT1 yttrium compounds

RT phosphate minerals

RT xenotime

**YTTRIUM PHOSPHIDES**

INIS: 1977-01-25; ETDE: 1976-08-04

\*BT1 phosphides

\*BT1 yttrium compounds

**YTTRIUM SELENIDES**

INIS: 2000-04-12; ETDE: 1975-11-28

\*BT1 selenides

\*BT1 yttrium compounds

**YTTRIUM SILICATES**

1996-07-08

\*BT1 silicates

\*BT1 yttrium compounds

RT kainosite

RT silicate minerals

**YTTRIUM SILICIDES**

INIS: 1977-07-05; ETDE: 1976-05-13

\*BT1 silicides

\*BT1 yttrium compounds

**YTTRIUM SULFATES**

\*BT1 sulfates

\*BT1 yttrium compounds

**YTTRIUM SULFIDES**

\*BT1 sulfides

\*BT1 yttrium compounds

**YTTRIUM TELLURIDES**

INIS: 1978-11-24; ETDE: 1975-11-28

\*BT1 tellurides

\*BT1 yttrium compounds

**YTTRIUM TUNGSTATES**

INIS: 1980-02-26; ETDE: 1980-03-29

\*BT1 tungstates

\*BT1 yttrium compounds

**YUCCA MOUNTAIN**

INIS: 1985-01-17; ETDE: 1984-06-29

BT1 mountains

RT nevada

RT nevada test site

RT radioactive waste disposal

**yugoslav triga-mk-2 reactor**

INIS: 1984-06-22; ETDE: 2002-05-24

USE triga-2-ljubljana reactor

**yugoslav triga-mk-ii reactor**

2000-04-12

USE triga-2-ljubljana reactor

**yugoslavia**

(Prior to March 2004 this was a valid descriptor.)

SEE bosnia and herzegovina

SEE croatia

SEE serbia and montenegro

SEE slovenia

SEE the former yugoslav republic of macedonia

**yugoslavia (macedonia)**

INIS: 1997-06-05; ETDE: 1998-04-10

USE the former yugoslav republic of macedonia

**yugoslavia r-a reactor vinca**

USE r-a reactor

**yugoslavia r-b reactor vinca**

USE r-b reactor

**YUKAWA NONLOCAL THEORY**

UF non-local quantum field theory

UF nonlocal quantum field theory

\*BT1 quantum field theory

**YUKAWA POTENTIAL**

\*BT1 nuclear potential

RT nucleon-nucleon potential

RT nucleons



**YUKON RIVER**

INIS: 1992-06-04; ETDE: 1978-10-25

- \*BT1 rivers
- RT alaska

**YUKON TERRITORY**

INIS: 1979-01-18; ETDE: 1979-02-23

- \*BT1 canada

**YVON METHOD**

- BT1 calculation methods
- RT neutron transport theory
- RT spherical harmonics
- RT transport theory

**Z CENTERS**

- \*BT1 color centers

**Z CODES**

- BT1 computer codes

**Z NEUTRAL BOSONS**

INIS: 1986-03-04; ETDE: 1985-10-11

(Prior to October 1985 this concept was indexed to INTERMEDIATE VECTOR BOSONS in ETDE.)

- \*BT1 intermediate vector bosons

**z pinch devices (linear)**

- USE linear z pinch devices

**Z\*BARYONS**

INIS: 1995-07-17; ETDE: 1988-03-11

(Prior to December 1987 this concept was indexed by Z\*RESONANCES.)

- UF z\*resonances
- \*BT1 hyperons

**z\*resonances**

1987-12-21

(Prior to December 1987 this was a valid descriptor.)

- USE z\*baryons

**ZACHARIASEN MODEL**

- RT quantum field theory

**zaire republic**

1997-08-20

(Until August 1997 this was a valid descriptor.)

- USE democratic republic of the congo

**ZAMAK**

2000-04-12

- \*BT1 aluminium alloys
- \*BT1 cadmium additions
- \*BT1 copper alloys
- \*BT1 iron additions
- \*BT1 magnesium additions
- \*BT1 tin additions
- \*BT1 zinc base alloys

**ZAMBIA**

- UF northern rhodesia
- UF rhodesia (northern)
- BT1 africa
- BT1 developing countries

**ZAPOROZHE-1 REACTOR**

INIS: 1984-08-23; ETDE: 1984-09-20

Ukraine.

- \*BT1 wwer type reactors

**ZAPOROZHE-2 REACTOR**

INIS: 1986-12-09; ETDE: 1987-02-24

Ukraine.

- \*BT1 wwer type reactors

**ZAPOROZHE-3 REACTOR**

INIS: 1990-01-29; ETDE: 1990-02-13

Ukraine.

- \*BT1 wwer type reactors

**ZAPOROZHE-4 REACTOR**

INIS: 1990-01-29; ETDE: 1990-02-13

Ukraine.

- \*BT1 wwer type reactors

**ZAPOROZHE-5 REACTOR**

2001-02-21

Ukraine.

- \*BT1 wwer type reactors

**ZAPOROZHE-6 REACTOR**

2001-02-21

Ukraine.

- \*BT1 wwer type reactors

**zarnowiec reactor**

INIS: 2000-04-12; ETDE: 1977-03-04

(Prior to May 2001, this was a valid ETDE descriptor with BT1 PWR TYPE REACTORS.)

- USE wwr type reactors

**zea mays**

- USE maize

**ZEBRA REACTOR**

UKAEA, Winfrith, United Kingdom.

UF zero energy breeder reactor assembly

- \*BT1 fbr type reactors
- \*BT1 research reactors
- \*BT1 zero power reactors
- RT enriched uranium reactors
- RT plutonium reactors

**ZED-2 REACTOR**

UF chalk river zed-2 reactor

UF organic cooled and heavy water moderated chalk river reactor

UF organic cooled heavy water moderated chalk river reactor

- \*BT1 air cooled reactors
- \*BT1 heavy water cooled reactors
- \*BT1 heavy water moderated reactors
- \*BT1 natural uranium reactors
- \*BT1 organic cooled reactors
- \*BT1 tank type reactors
- \*BT1 thermal reactors

**ZEEMAN EFFECT**

UF zeeman resonance

UF zeeman spectrum

UF zeeman transition

RT double resonance methods

RT magnetic fields

RT magneto-optical effects

RT paschen-back effect

RT spectral shift

**zeeman resonance**

- USE zeeman effect

**zeeman spectrum**

- USE zeeman effect

**zeeman transition**

- USE zeeman effect

**ZEEP REACTOR**

UF zero energy experimental pile

- \*BT1 heavy water moderated reactors
- \*BT1 natural uranium reactors
- \*BT1 plutonium reactors
- \*BT1 research reactors
- \*BT1 tank type reactors
- \*BT1 zero power reactors

**ZEIN**

INIS: 2000-04-12; ETDE: 1986-01-24

A protein powder derived from maize that contributes the major portion of the protein nutrient value of corn.

- \*BT1 proteins

RT maize

**zemach-glauber formalism**

1996-07-15

(Until June 1996 this was a valid descriptor.)

SEE scattering

SEE thermal neutrons

**zener diodes**

- USE junction diodes

**ZENITH REACTOR**

UF zero energy nitrogen heated thermal reactor

- \*BT1 graphite moderated reactors
- \*BT1 nitrogen cooled reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 zero power reactors
- RT enriched uranium reactors
- RT plutonium reactors
- RT thorium reactors

**zentralinstitut fuer isotopen- und strahlenforschung leipzig**

INIS: 1993-11-10; ETDE: 2002-05-24

- USE zfi leipzig

**zentralinstitut fuer kernforschung**

INIS: 1993-11-10; ETDE: 1991-05-17

- USE zfk rossendorf

**ZEOLITES**

A class of hydrated silicates of aluminium and either sodium or calcium or both.

(From April 1975 until March 1996

ANALCIME was a valid ETDE descriptor.)

UF analcime

- \*BT1 inorganic ion exchangers
- \*BT1 silicate minerals
- NT1 clinoptilolite
- NT1 faujasite
- NT1 heulandite
- NT1 laumontite
- NT1 mordenite
- NT1 wairakite
- RT desiccants

**ZEPHYR REACTOR**

UF zero energy fast reactor-zephyr

- \*BT1 fast reactors
- \*BT1 materials testing reactors
- \*BT1 natural uranium reactors
- \*BT1 plutonium reactors
- \*BT1 zero power reactors

**zeran linac**

INIS: 1996-07-23; ETDE: 1979-05-25

(Until July 1996 this was a valid descriptor.)

- USE linear accelerators

**ZERLINA REACTOR**

Bhabha Atomic Research Centre, Trombay, Maharashtra, India.

UF zero energy reactor for lattice invest. and new assemblies

- \*BT1 heavy water moderated reactors
- \*BT1 organic moderated reactors
- \*BT1 research reactors
- \*BT1 thermal reactors
- \*BT1 zero power reactors

**zero-emission vehicles**

2005-07-05

- USE low-emission vehicles

**zero energy balance**

ETDE: 1976-05-19

- USE breakeven

**zero energy breeder reactor assembly**

1993-11-10

USE zebra reactor

**zero energy experimental pile**

USE zeep reactor

**zero energy fast reactor-zephyr**

1993-11-10

USE zephyr reactor

**zero energy nitrogen heated thermal reactor**

1993-11-10

USE zenith reactor

**zero energy reactor for lattice invest. and new assemblies**

1993-11-10

USE zerlina reactor

**zero gradient synchrotron**

USE zgs

**zero gravity**

INIS: 2000-04-12; ETDE: 1981-12-21

USE weightlessness

**zero power critical experiment minerve**

2000-04-12

USE minerve reactor

**zero power reactor (cornell university)**

INIS: 1993-11-10; ETDE: 2002-05-24

USE zpr reactor

**ZERO POWER REACTORS**

1995-12-08

UF cepfr-1 reactor

UF critical assemblies

UF hitrex-2 reactor

UF in-core thermionic reactor

UF itr reactor

UF sr-0f reactor

UF thermionic reactor critical experiments

UF trce(thermionic reactor critical experiments)

SF berkeley nuclear laboratory reactor

SF bnl reactor

SF fcel reactor

\*BT1 experimental reactors

NT1 agata reactor

NT1 akr-1 reactor

NT1 anex reactor

NT1 anna reactor

NT1 apfa-3 reactor

NT1 aquilon reactor

NT1 bfs reactor

NT1 big ten reactor

NT1 cfrmf reactor

NT1 cml reactor

NT1 coral-1 reactor

NT1 crocus reactor

NT1 dca reactor

NT1 dimple reactor

NT1 ecel reactor

NT1 ermine reactor

NT1 etrc reactor

NT1 fca reactor

NT1 flattop reactor

NT1 fr-0 reactor

NT1 godiva reactor

NT1 hero reactor

NT1 hitrex-1 reactor

NT1 horace reactor

NT1 hwzpr reactor

NT1 ica-zpr reactor

NT1 ifr reactor

NT1 ipen-mb-1 reactor

NT1 jezebel reactor

NT1 juno reactor

NT1 kahter reactor

NT1 kbr-1 reactor

NT1 kritz reactor

NT1 kuca reactor

NT1 lptf reactor

NT1 lr-0 reactor

NT1 lvr-15 reactor

NT1 marius reactor

NT1 maryla reactor

NT1 masurca reactor

NT1 minerve reactor

NT1 neptune reactor

NT1 nsf-rfp reactor

NT1 or-cef reactor

NT1 ornl-pca reactor

NT1 parka reactor

NT1 pdp reactor

NT1 peggy reactor

NT1 pelinduna reactor

NT1 plasma core assembly

NT1 prcf reactor

NT1 ptf-unc reactor

NT1 purnima-2 reactor

NT1 purnima reactor

NT1 r-b reactor

NT1 ra-0 reactor

NT1 ra-2 reactor

NT1 ra-8 reactor

NT1 rake-2 reactor

NT1 rb-1 reactor

NT1 rb-3 reactor

NT1 rensseleer critical facility

NT1 ritmo reactor

NT1 rospo reactor

NT1 saref reactor

NT1 shca reactor

NT1 silene reactor

NT1 siloette reactor

NT1 sneak reactor

NT1 split table reactor

NT1 sr-0a reactor

NT1 stacy reactor

NT1 tca reactor

NT1 tr-0 reactor

NT1 tracy reactor

NT1 vera reactor

NT1 zebra reactor

NT1 zeep reactor

NT1 zenith reactor

NT1 zephyr reactor

NT1 zerlina reactor

NT1 zlfr reactor

NT1 zppr reactor

NT1 zpr-3 reactor

NT1 zpr-6 reactor

NT1 zpr-9 reactor

NT1 zpr reactor

NT1 zr-6 reactor

RT reactor lattices

**zero power research reactor-3 (anl)**

INIS: 1993-11-10; ETDE: 2002-05-24

USE zpr-3 reactor

**zero power research reactor-6 (anl)**

INIS: 1993-11-10; ETDE: 2002-05-24

USE zpr-6 reactor

**zero power research reactor-9 (anl)**

INIS: 1993-11-10; ETDE: 2002-05-24

USE zpr-9 reactor

**ZERO-RANGE APPROXIMATION**

\*BT1 approximations

RT elastic scattering

RT finite-range interactions

RT nuclear reaction kinetics

**ZERO SOUND**

RT sound waves

RT superfluidity

RT wave propagation

**zet pinch**

USE longitudinal pinch

**ZETA DEVICES**

\*BT1 tlp devices

**zeunerite**

1996-07-15

(Until June 1996 this was a valid descriptor.)

USE oxide minerals

USE uranium minerals

**ZFI LEIPZIG**

INIS: 1986-05-23; ETDE: 1986-11-18

Zentralinstitut fuer Isotopen- und Strahlenforschung, Leipzig.

UF institut fuer isotopen- und strahlenforschung leipzig

UF leipzig zfi

UF zentralinstitut fuer isotopen- und strahlenforschung leipzig

\*BT1 german fr organizations

**ZFK ROSENDORF**

INIS: 1977-02-08; ETDE: 1977-04-13

Zentralinstitut fuer Kernforschung, Rossendorf, Germany.

UF rossendorf zfk

UF zentralinstitut fuer kernforschung

\*BT1 german fr organizations

**ZGS**

UF argonne zgs

UF zero gradient synchrotron

\*BT1 synchrotrons

**zhuravlev process**

2000-04-12

(Prior to July 1993, this was a valid ETDE descriptor.)

USE coal gasification

**ZIEGLER CATALYST**

BT1 catalysts

RT catalysis

**ZIMBABWE**

INIS: 1980-09-12; ETDE: 1980-10-07

(Prior to October 1980 this concept was indexed to SOUTHERN RHODESIA in ETDE.)

BT1 africa

BT1 developing countries

NT1 southern rhodesia

**ZIMMER-1 REACTOR**

Cincinnati Gas and Electric Co., Moscow, Ohio, USA. Canceled in 1984 before construction began.

UF william h. zimmer-1 reactor

\*BT1 bwr type reactors

**ZIMMER-2 REACTOR**

1980-02-26

Cincinnati Gas and Electric Co., Moscow, Ohio, USA. Canceled in 1978 before construction began.

UF william h. zimmer-2 reactor

\*BT1 bwr type reactors

**ZINC**

\*BT1 metals

**ZINC 57**

INIS: 1976-05-05; ETDE: 1976-06-07

\*BT1 beta-plus decay radioisotopes

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 58**

*INIS: 1986-09-26; ETDE: 1984-05-08*

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zinc isotopes

**ZINC 59**

*INIS: 1982-06-09; ETDE: 1982-03-10*

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 60**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 zinc isotopes

**ZINC 61**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 zinc isotopes

**ZINC 62**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 zinc isotopes

**ZINC 63**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 zinc isotopes

**ZINC 64**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zinc isotopes

**ZINC 64 REACTIONS**

*INIS: 1983-10-14; ETDE: 1983-11-09*

- \*BT1 heavy ion reactions

**ZINC 64 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**ZINC 65**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zinc isotopes

**ZINC 65 TARGET**

*INIS: 1984-05-24; ETDE: 1984-02-10*

- BT1 targets

**ZINC 66**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zinc isotopes

**ZINC 66 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**ZINC 67**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zinc isotopes

**ZINC 67 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**ZINC 68**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zinc isotopes

**ZINC 68 REACTIONS**

*INIS: 1976-03-02; ETDE: 1976-04-19*

- \*BT1 heavy ion reactions

**ZINC 68 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**ZINC 69**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 zinc isotopes

**ZINC 70**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zinc isotopes

**ZINC 70 REACTIONS**

*INIS: 1978-02-23; ETDE: 1978-05-01*

- \*BT1 heavy ion reactions

**ZINC 70 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**ZINC 71**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 zinc isotopes

**ZINC 72**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zinc isotopes

**ZINC 73**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 74**

*1976-11-08*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 zinc isotopes

**ZINC 75**

- \*BT1 beta-minus decay radioisotopes

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 76**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 77**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 78**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 79**

*INIS: 1977-06-13; ETDE: 1976-07-07*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 80**

*INIS: 1985-06-07; ETDE: 1985-07-18*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC 81**

*1992-03-18*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 zinc isotopes

**ZINC ADDITIONS**

*Alloys containing not more than 1% Zn are listed here.*

- \*BT1 zinc alloys
- NT1 nickeline alloy

**ZINC-AIR BATTERIES**

*2000-04-12*

- \*BT1 metal-gas batteries

**ZINC ALLOYS**

*1996-06-28*

*Alloys containing more than 1% Zn.*

- UF german silver
- UF nickel silver
- UF white copper
- BT1 alloys
- NT1 brass
- NT2 brass-alpha
- NT2 brass-beta
- NT1 lynite
- NT1 magnesium alloy-az31b
- NT1 magnesium alloy-ez
- NT1 magnesium alloy-zr
- NT1 muntz metal
- NT1 ounce metal
- NT1 zinc additions
- NT2 nickeline alloy
- NT1 zinc base alloys
- NT2 zamak

**ZINC ARSENIDES**

1978-07-03

- \*BT1 arsenides
- BT1 zinc compounds

**ZINC BASE ALLOYS**

- \*BT1 zinc alloys
- NT1 zamak

**ZINC BORIDES**

- \*BT1 borides
- BT1 zinc compounds

**ZINC BROMIDES**

- \*BT1 bromides
- \*BT1 zinc halides

**ZINC-BROMINE BATTERIES**

INIS: 1992-09-30; ETDE: 1979-02-23

- \*BT1 metal-nonmetal batteries

**ZINC CARBIDES**

- \*BT1 carbides
- BT1 zinc compounds

**ZINC CARBONATES**

- \*BT1 carbonates
- BT1 zinc compounds

**ZINC CHLORIDES**

- \*BT1 chlorides
- \*BT1 zinc halides

**ZINC-CHLORINE BATTERIES**

2000-04-12

- \*BT1 metal-gas batteries

**ZINC COMPLEXES**

- BT1 complexes

**ZINC COMPOUNDS**

1997-06-19

- NT1 zinc arsenides
- NT1 zinc borides
- NT1 zinc carbides
- NT1 zinc carbonates
- NT1 zinc halides
- NT2 zinc bromides
- NT2 zinc chlorides
- NT2 zinc fluorides
- NT2 zinc iodides
- NT1 zinc hydrides
- NT1 zinc hydroxides
- NT1 zinc nitrates
- NT1 zinc nitrides
- NT1 zinc oxides
- NT1 zinc perchlorates
- NT1 zinc phosphates
- NT1 zinc phosphides
- NT1 zinc selenides
- NT1 zinc silicates
- NT1 zinc silicides
- NT1 zinc sulfates
- NT1 zinc sulfides
- NT1 zinc tellurides
- NT1 zinc tungstates
- NT1 zincates

**zinc distillation process**

INIS: 1980-07-24; ETDE: 1979-12-10

- USE pyrochemical reprocessing

**ZINC FLUORIDES**

- \*BT1 fluorides
- \*BT1 zinc halides

**zinc halide process**

INIS: 2000-04-12; ETDE: 1976-07-07  
 Conoco Coal Development Company process  
 using zinc halide catalyst for the  
 hydrogenation and hydrocracking of coal  
 extract and of subbituminous coal.  
 (Prior to March 1994, this was a valid ETDE  
 descriptor.)

- USE coal liquefaction

**ZINC HALIDES**

1991-09-16

- \*BT1 halides
- BT1 zinc compounds
- NT1 zinc bromides
- NT1 zinc chlorides
- NT1 zinc fluorides
- NT1 zinc iodides

**ZINC HYDRIDES**

1976-11-08

- \*BT1 hydrides
- BT1 zinc compounds

**ZINC HYDROXIDES**

- \*BT1 hydroxides
- BT1 zinc compounds

**ZINC IODIDES**

- \*BT1 iodides
- \*BT1 zinc halides

**ZINC IONS**

- \*BT1 ions

**ZINC ISOTOPES**

1999-07-16

- BT1 isotopes
- NT1 zinc 57
- NT1 zinc 58
- NT1 zinc 59
- NT1 zinc 60
- NT1 zinc 61
- NT1 zinc 62
- NT1 zinc 63
- NT1 zinc 64
- NT1 zinc 65
- NT1 zinc 66
- NT1 zinc 67
- NT1 zinc 68
- NT1 zinc 69
- NT1 zinc 70
- NT1 zinc 71
- NT1 zinc 72
- NT1 zinc 73
- NT1 zinc 74
- NT1 zinc 75
- NT1 zinc 76
- NT1 zinc 77
- NT1 zinc 78
- NT1 zinc 79
- NT1 zinc 80
- NT1 zinc 81

**ZINC-MANGANESE BATTERIES**

2000-04-12

- \*BT1 metal-metal oxide batteries

**ZINC NITRATES**

- \*BT1 nitrates
- BT1 zinc compounds

**ZINC NITRIDES**

2000-04-12

- \*BT1 nitrides
- BT1 zinc compounds

**ZINC ORES**

- BT1 ores

**ZINC OXIDES**

- \*BT1 oxides

- BT1 zinc compounds

**ZINC PERCHLORATES**

2000-04-12

- \*BT1 perchlorates
- BT1 zinc compounds

**ZINC PHOSPHATES**

- \*BT1 phosphates
- BT1 zinc compounds

**ZINC PHOSPHIDE SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-01-30

- \*BT1 solar cells

**ZINC PHOSPHIDES**

INIS: 1978-04-21; ETDE: 1975-12-16

- \*BT1 phosphides
- BT1 zinc compounds

**ZINC SELENIDES**

- \*BT1 selenides
- BT1 zinc compounds

**ZINC SILICATES**

- \*BT1 silicates
- BT1 zinc compounds

**ZINC SILICIDES**

2000-04-12

- \*BT1 silicides
- BT1 zinc compounds

**ZINC SULFATES**

- \*BT1 sulfates
- BT1 zinc compounds

**ZINC SULFIDE SOLAR CELLS**

INIS: 2000-04-12; ETDE: 1981-07-18

- \*BT1 solar cells

**ZINC SULFIDES**

- \*BT1 inorganic phosphors
- \*BT1 sulfides
- BT1 zinc compounds

**ZINC TELLURIDES**

1976-02-11

- \*BT1 tellurides
- BT1 zinc compounds

**ZINC TUNGSTATES**

INIS: 1981-11-25; ETDE: 1982-01-07

- \*BT1 tungstates
- BT1 zinc compounds

**ZINCATES**

INIS: 2000-04-12; ETDE: 1976-03-11

- BT1 zinc compounds

**ZION-1 REACTOR**

Commonwealth Edison Co., Zion, Illinois,  
 USA. Shut down in 1997.

- UF zion station unit-1
- \*BT1 pwr type reactors

**ZION-2 REACTOR**

Commonwealth Edison Co., Zion, Illinois,  
 USA. Shut down in 1996.

- UF zion station unit-2
- \*BT1 pwr type reactors

**zion station unit-1**

- USE zion-1 reactor

**zion station unit-2**

- USE zion-2 reactor

**zippeite**

1997-01-28

(Until October 1996 this was a valid  
 descriptor.)

- USE sulfate minerals
- USE uranium minerals

**ZIRCALOY**

*For unspecified Zircaloy alloys.*

- \*BT1 zirconium base alloys
- NT1 alloy-zr98sn-2
- NT2 zircaloy 2
- NT1 alloy-zr98sn-4
- NT2 zircaloy 4

**ZIRCALOY 2**

*1993-10-03*

- \*BT1 alloy-zr98sn-2

**ZIRCALOY 4**

*1993-10-03*

- \*BT1 alloy-zr98sn-4

**ZIRCON**

- \*BT1 silicate minerals
- RT caldasite
- RT zirconium silicates

**ZIRCONATES**

*Specific compounds should be indexed by coordination of a descriptor of the form (CATION) COMPOUNDS and the above anion descriptor.*

- BT1 oxygen compounds
- \*BT1 zirconium compounds
- NT1 plzt
- NT1 pzt
- RT zirconium oxides

**ZIRCONIUM**

- \*BT1 transition elements
- NT1 zirconium-alpha
- NT1 zirconium-beta
- NT1 zirconium-omega

**ZIRCONIUM 100**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 101**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 102**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 103**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 104**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 105**

*2006-09-25*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 milliseconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 109**

*2006-09-25*

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 nanoseconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 80**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zirconium isotopes

**ZIRCONIUM 81**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 82**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 83**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 84**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 minutes living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 85**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 86**

- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 zirconium isotopes

**ZIRCONIUM 87**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 88**

- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zirconium isotopes

**ZIRCONIUM 89**

- \*BT1 beta-plus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 electron capture radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei

- \*BT1 isomeric transition isotopes
- \*BT1 minutes living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 90**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 isomeric transition isotopes
- \*BT1 milliseconds living radioisotopes
- \*BT1 stable isotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 90 REACTIONS**

*INIS: 1984-06-21; ETDE: 1984-07-10*

- \*BT1 heavy ion reactions

**ZIRCONIUM 90 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**ZIRCONIUM 91**

- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 91 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**ZIRCONIUM 92**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 92 REACTIONS**

*INIS: 1985-01-17; ETDE: 1985-02-22*

- \*BT1 heavy ion reactions

**ZIRCONIUM 92 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**ZIRCONIUM 93**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 years living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 93 TARGET**

*INIS: 1986-01-21; ETDE: 1981-08-21*

- BT1 targets

**ZIRCONIUM 94**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 94 TARGET**

*ETDE: 1976-07-09*

- BT1 targets

**ZIRCONIUM 95**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 days living radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 zirconium isotopes

**ZIRCONIUM 96**

- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 stable isotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 96 REACTIONS**

*INIS: 1985-01-17; ETDE: 1985-02-22*

- \*BT1 heavy ion reactions

**ZIRCONIUM 96 TARGET***ETDE: 1976-07-09*

BT1 targets

**ZIRCONIUM 97**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 hours living radioisotopes
- \*BT1 intermediate mass nuclei
- \*BT1 zirconium isotopes

**ZIRCONIUM 98**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-even nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM 99**

- \*BT1 beta-minus decay radioisotopes
- \*BT1 even-odd nuclei
- \*BT1 intermediate mass nuclei
- \*BT1 seconds living radioisotopes
- \*BT1 zirconium isotopes

**ZIRCONIUM ADDITIONS***1996-07-17**Alloys containing not more than 1% Zr are listed here.*

- \*BT1 zirconium alloys
- NT1 alloy-in-102
- NT1 alloy-mo99
- NT2 alloy-tzm
- NT2 alloy-zm-2a
- NT1 alloy-mo99b
- NT1 alloy-n-10m
- NT1 alloy-n-9m
- NT1 alloy-ni43fe33cr16mo3
- NT2 nimonic pe16
- NT1 alloy-ni46cr23co19ti5al4
- NT2 alloy-in-939
- NT1 alloy-ni55co17cr15mo5al4ti4
- NT2 astroloy
- NT1 alloy-ni58cr20co14mo4ti3
- NT2 waspaloy
- NT1 alloy-ni59cr20co17ti2
- NT1 alloy-ni60co15cr10al6ti5mo3
- NT2 alloy-in-100
- NT1 alloy-ni61cr16co9al3ti3w3
- NT2 alloy-in-738
- NT1 alloy-ni74cr13al6mo4
- NT2 inconel 713c
- NT1 alloy-ni75cr12al6mo5
- NT2 inconel 713lc
- NT1 alloy-ni76cr20ti2
- NT2 nimonic 80a
- NT1 magnesium alloy-ek
- NT1 magnesium alloy-ez
- NT1 magnesium alloy-hk31a
- NT1 rene 80
- NT1 rene 95

**ZIRCONIUM ALLOYS***1995-02-27**Alloys containing more than 1% Zr.*

- UF transage 129
- UF transage 134
- \*BT1 transition element alloys
- NT1 alloy-c-103
- NT1 alloy-ti89al6mo3
- NT1 alloy-ti90al6
- NT1 alloy-u90nb7zr3
- NT1 alloy-v87cr9fe3
- NT1 zirconium additions
- NT2 alloy-in-102
- NT2 alloy-mo99
- NT3 alloy-tzm
- NT3 alloy-zm-2a
- NT2 alloy-mo99b
- NT2 alloy-n-10m

- NT2 alloy-n-9m
- NT2 alloy-ni43fe33cr16mo3
- NT3 nimonic pe16
- NT2 alloy-ni46cr23co19ti5al4
- NT3 alloy-in-939
- NT2 alloy-ni55co17cr15mo5al4ti4
- NT3 astroloy
- NT2 alloy-ni58cr20co14mo4ti3
- NT3 waspaloy
- NT2 alloy-ni59cr20co17ti2
- NT2 alloy-ni60co15cr10al6ti5mo3
- NT3 alloy-in-100
- NT2 alloy-ni61cr16co9al3ti3w3
- NT3 alloy-in-738
- NT2 alloy-ni74cr13al6mo4
- NT3 inconel 713c
- NT2 alloy-ni75cr12al6mo5
- NT3 inconel 713lc
- NT2 alloy-ni76cr20ti2
- NT3 nimonic 80a
- NT2 magnesium alloy-ek
- NT2 magnesium alloy-ez
- NT2 magnesium alloy-hk31a
- NT2 rene 80
- NT2 rene 95
- NT1 zirconium base alloys
- NT2 alloy-zr97nb3
- NT2 zircaloy
- NT3 alloy-zr98sn-2
- NT4 zircaloy 2
- NT3 alloy-zr98sn-4
- NT4 zircaloy 4

**ZIRCONIUM-ALPHA**

\*BT1 zirconium

*zirconium arsenides**INIS: 1996-07-15; ETDE: 1976-12-16*  
(Until June 1996 this was a valid descriptor.)USE arsenides  
USE zirconium compounds**ZIRCONIUM BASE ALLOYS**

- \*BT1 zirconium alloys
- NT1 alloy-zr97nb3
- NT1 zircaloy
- NT2 alloy-zr98sn-2
- NT3 zircaloy 2
- NT2 alloy-zr98sn-4
- NT3 zircaloy 4

**ZIRCONIUM-BETA**

\*BT1 zirconium

**ZIRCONIUM BORIDES**

- \*BT1 borides
- \*BT1 zirconium compounds

**ZIRCONIUM BROMIDES**

- \*BT1 bromides
- \*BT1 zirconium compounds

**ZIRCONIUM CARBIDES**

- \*BT1 carbides
- \*BT1 zirconium compounds

**ZIRCONIUM CARBONATES**

- \*BT1 carbonates
- \*BT1 zirconium compounds

**ZIRCONIUM CHLORIDES**

- \*BT1 chlorides
- \*BT1 zirconium compounds

**ZIRCONIUM COMPLEXES**

- \*BT1 transition element complexes

**ZIRCONIUM COMPOUNDS***1996-07-08*

- UF zirconium arsenides
- BT1 transition element compounds
- NT1 zirconates
- NT2 plzt

**NT2 pzt**

- NT1 zirconium borides
- NT1 zirconium bromides
- NT1 zirconium carbides
- NT1 zirconium carbonates
- NT1 zirconium chlorides
- NT1 zirconium fluorides
- NT1 zirconium hydrides
- NT1 zirconium hydroxides
- NT1 zirconium iodides
- NT1 zirconium nitrates
- NT1 zirconium nitrides
- NT1 zirconium oxides
- NT1 zirconium perchlorates
- NT1 zirconium phosphates
- NT1 zirconium phosphides
- NT1 zirconium selenides
- NT1 zirconium silicates
- NT1 zirconium silicides
- NT1 zirconium sulfates
- NT1 zirconium sulfides
- NT1 zirconium tellurides
- NT1 zirconium tungstates

**ZIRCONIUM FLUORIDES**

- \*BT1 fluorides
- \*BT1 zirconium compounds

**ZIRCONIUM HYDRIDES**

- \*BT1 hydrides
- \*BT1 zirconium compounds
- RT hydride moderators

**ZIRCONIUM HYDROXIDES**

- \*BT1 hydroxides
- \*BT1 zirconium compounds

**ZIRCONIUM IODIDES**

- \*BT1 iodides
- \*BT1 zirconium compounds

**ZIRCONIUM IONS**

- \*BT1 ions

**ZIRCONIUM ISOTOPES***1999-07-16*

- BT1 isotopes
- NT1 zirconium 100
- NT1 zirconium 101
- NT1 zirconium 102
- NT1 zirconium 103
- NT1 zirconium 104
- NT1 zirconium 105
- NT1 zirconium 109
- NT1 zirconium 80
- NT1 zirconium 81
- NT1 zirconium 82
- NT1 zirconium 83
- NT1 zirconium 84
- NT1 zirconium 85
- NT1 zirconium 86
- NT1 zirconium 87
- NT1 zirconium 88
- NT1 zirconium 89
- NT1 zirconium 90
- NT1 zirconium 91
- NT1 zirconium 92
- NT1 zirconium 93
- NT1 zirconium 94
- NT1 zirconium 95
- NT1 zirconium 96
- NT1 zirconium 97
- NT1 zirconium 98
- NT1 zirconium 99

**ZIRCONIUM NITRATES**

- \*BT1 nitrates
- \*BT1 zirconium compounds

**ZIRCONIUM NITRIDES**

- \*BT1 nitrides
- \*BT1 zirconium compounds

**ZIRCONIUM-OMEGA**

\*BT1 zirconium

**ZIRCONIUM ORES**

1986-03-04

BT1 ores

**ZIRCONIUM OXIDES**

\*BT1 oxides

\*BT1 zirconium compounds

RT baddeleyite

RT marignacite

RT naegite

RT nogizawalite

RT oxide minerals

RT zirconates

RT zirconolite

**ZIRCONIUM PERCHLORATES**

INIS: 1981-02-27; ETDE: 1978-03-03

\*BT1 perchlorates

\*BT1 zirconium compounds

**ZIRCONIUM PHOSPHATES**

\*BT1 phosphates

\*BT1 zirconium compounds

**ZIRCONIUM PHOSPHIDES**

\*BT1 phosphides

\*BT1 zirconium compounds

**ZIRCONIUM SELENIDES**

\*BT1 selenides

\*BT1 zirconium compounds

**ZIRCONIUM SILICATES**

1996-11-13

\*BT1 silicates

\*BT1 zirconium compounds

RT alvite

RT lavenite

RT lovozerite

RT mesodialyte

RT silicate minerals

RT zircon

**ZIRCONIUM SILICIDES**

1976-11-08

\*BT1 silicides

\*BT1 zirconium compounds

**ZIRCONIUM SULFATES**

\*BT1 sulfates

\*BT1 zirconium compounds

**ZIRCONIUM SULFIDES**

\*BT1 sulfides

\*BT1 zirconium compounds

**ZIRCONIUM TELLURIDES**

INIS: 1976-11-08; ETDE: 1976-12-16

\*BT1 tellurides

\*BT1 zirconium compounds

**ZIRCONIUM TUNGSTATES**

1978-09-28

\*BT1 tungstates

\*BT1 zirconium compounds

**ZIRCONOLITE**

INIS: 1981-09-17; ETDE: 1981-06-13

\*BT1 oxide minerals

RT calcium oxides

RT synroc process

RT titanium oxides

RT zirconium oxides

**ZIRFLEX PROCESS**

\*BT1 reprocessing

RT solvent extraction

**zittauer Lehr- und forschungsreaktor**

1980-11-07

USE zlfr reactor

**ZITTERBEWEGUNG**

RT quantum mechanics

**ZLFR REACTOR**

1980-11-07

Ingenieurhochschule, Zittau, Federal Republic of Germany.

UF wwr-s-zittau reactor

UF zittauer Lehr- und forschungsreaktor

\*BT1 enriched uranium reactors

\*BT1 research reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 training reactors

\*BT1 water cooled reactors

\*BT1 water moderated reactors

\*BT1 zero power reactors

**ZODIACAL LIGHT**

UF gegenschein

UF light (zodiacal)

\*BT1 electromagnetic radiation

RT interplanetary space

RT solar radiation

**zoe reactor**

USE el-1 reactor

**ZONE MELTING**

UF floating zone techniques

BT1 crystal growth methods

\*BT1 melting

RT crystal growth

RT ribbon-to-ribbon method

**ZONE REFINING**

\*BT1 refining

BT1 separation processes

RT crystallization

RT metallurgy

RT reprocessing

**ZONES**

NT1 brillouin zones

NT1 guinier-preston zones

NT1 heat affected zone

**zones (auroral)**

USE auroral zones

**zones (rift)**

INIS: 2000-04-12; ETDE: 1980-11-08

USE rift zones

**zones (temperate)**

INIS: 2000-04-12; ETDE: 1980-11-08

USE temperate zones

**zoning**

INIS: 2000-04-12; ETDE: 1980-05-06

USE land use

**ZOOLOGY**

BT1 biology

**ZOOPLANKTON**

INIS: 1993-07-20; ETDE: 1977-01-10

(Until July 1993, this concept was indexed by PLANKTON.)

\*BT1 plankton

RT copepods

RT crustaceans

RT daphnia

RT protozoa

**ZORITA-1 REACTOR**

UF central nuclear de zorita-1

UF jose cabrera reactor

\*BT1 pwr type reactors

**ZPPR REACTOR**

ANL/INEEL, Idaho Falls, Idaho, USA. Zero power reactor. Shut down in 1992; in standby mode.

\*BT1 fast reactors

\*BT1 research reactors

\*BT1 zero power reactors

**ZPR-3 REACTOR**

ANL/INEEL, Idaho Falls, Idaho, USA. Variously fueled, unmoderated, uncooled. Shut down in 1970.

UF anl zero power research reactor-3

UF zero power research reactor-3 (anl)

\*BT1 fast reactors

\*BT1 zero power reactors

**ZPR-6 REACTOR**

ANL, Argonne, Illinois, USA. Variously fueled, unmoderated, uncooled. Shut down in 1981.

UF anl zero power research reactor-6

UF zero power research reactor-6 (anl)

\*BT1 fast reactors

\*BT1 zero power reactors

**ZPR-9 REACTOR**

ANL, Argonne, Illinois, USA. Uncooled. Shut down in 1982.

UF anl zero power research reactor-9

UF zero power research reactor-9 (anl)

\*BT1 fast reactors

\*BT1 zero power reactors

RT breeder reactors

RT propulsion reactors

**ZPR REACTOR**

Cornell Univ., Ward Laboratory of Nuclear Engineering, Ithaca, New York, USA.

UF cornell university zero power reactor

UF zero power reactor (cornell university)

\*BT1 enriched uranium reactors

\*BT1 tank type reactors

\*BT1 thermal reactors

\*BT1 training reactors

\*BT1 zero power reactors

**ZR-6 REACTOR**INIS: 1981-10-15; ETDE: 1975-07-29  
Central Research Institute for Physics, Budapest, Hungary.

\*BT1 water cooled reactors

\*BT1 zero power reactors

**ZRR REACTOR**

Czechoslovakia.

\*BT1 experimental reactors

\*BT1 fast reactors

\*BT1 sodium cooled reactors

**ZT-40 DEVICES**INIS: 1978-04-21; ETDE: 1978-01-23  
Los Alamos Experiment on reverse-field pinch.

\*BT1 reversed-field pinch devices

RT reverse-field pinch

**ZT-P DEVICES**

INIS: 1986-09-26; ETDE: 1986-04-11

\*BT1 reversed-field pinch devices

RT reverse-field pinch

**zuni event**INIS: 1994-10-14; ETDE: 1984-05-23  
A test made during PROJECT REDWING. (Prior to September 1994, this was a valid ETDE descriptor.)

USE nuclear explosions

USE surface explosions

**zwentendorf reactor**

INIS: 1982-09-21; ETDE: 1982-10-20

USE tullnerfeld reactor

**ZYGOTES**

INIS: 1993-07-20; ETDE: 1976-02-20

BT1 embryos

RT fertilization

RT gametes

RT ontogenesis

RT reproduction

**ZYMOMONAS MOBILIS**

INIS: 1993-07-20; ETDE: 1982-05-12

\*BT1 bacteria

RT anaerobic conditions

**ZYMOSAN**

1996-07-23

*A protein-carbohydrate complex isolated from yeast used to activate the immune system in response to microbial infection. The action of zymosan derives from its ability to stimulate properidin.*

RT complement

RT polysaccharides

RT yeasts



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