**Calculation of Atomic Harmonic Parameters**

Atomic radius, r = λ/2 = c/2ν (1)

Density, ρ = m/v = m/(4πr3/3) = 6mν3/πc3  (2)

Angular speed, ω = 2πν (3)

Centripetal force, F = mωr2 = 8π2mν3/c (4)

Elastic modulus, ϵ = mω2 = 4π2mν2  (5)

Longitudinal stress, σ = F/πr2  = 8πmν3/c (6)

Strain, τ = σ/c = 2ν/πc (7)

where λ (m) is wavelength; and c is vacuum light oscillation (s-1) and m (kg) is mass.

A set of rules for correct use of the equation is available at: <https://dx.doi.org/aprv.7n6p85>

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