

Equilibrium

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- **Static Equilibrium**: The object is at rest.
 - $\sum F = 0$
 - $\sum \tau = 0$
- **Dynamic Equilibrium**: The object is moving with constant velocity.
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Equilibrium

Nuclear Chemistry

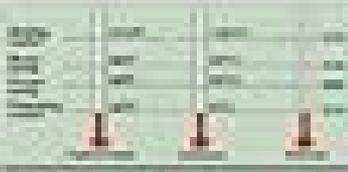
- **Nuclear Chemistry** is the study of the changes in the nucleus of an atom. It involves the emission of particles and energy.
- **Radioactivity**: The process by which an unstable nucleus loses energy by emitting ionizing particles.
- **Types of Radiation**:
 - **Alpha**: α particles (Helium nuclei)
 - **Beta**: β particles (Electrons or Positrons)
 - **Gamma**: γ rays (High energy photons)
- **Half-life**: The time taken for the activity of a substance to decrease to half its initial value.



Nuclear Chemistry

Measurement & Units

- **Measurement & Units** is the process of determining the magnitude of a physical quantity.
- **SI Units**: The International System of Units.
- **Fundamental Constants**:
 - Speed of light: $c = 3 \times 10^8 \text{ m/s}$
 - Gravitational constant: $G = 6.67 \times 10^{-11} \text{ N m}^2/\text{kg}^2$
 - Planck's constant: $h = 6.63 \times 10^{-34} \text{ J s}$
 - Boltzmann's constant: $k_B = 1.38 \times 10^{-23} \text{ J/K}$
 - Avogadro's number: $N_A = 6.02 \times 10^{23} \text{ mol}^{-1}$
 - Gas constant: $R = 8.31 \text{ J/mol K}$
 - Faraday constant: $F = 96485 \text{ C/mol}$
 - Rydberg constant: $R_H = 1.097 \times 10^7 \text{ m}^{-1}$
 - Stefan-Boltzmann constant: $\sigma = 5.67 \times 10^{-8} \text{ W/m}^2 \text{K}^4$
 - Wien's displacement law: $\lambda_m T = 2.898 \times 10^{-3} \text{ m K}$
 - Bohr radius: $a_0 = 5.29 \times 10^{-11} \text{ m}$
 - Rydberg constant: $R_H = 1.097 \times 10^7 \text{ m}^{-1}$
 - Fine structure constant: $\alpha = 1/137$
 - Gravitational constant: $G = 6.67 \times 10^{-11} \text{ N m}^2/\text{kg}^2$
 - Planck's constant: $h = 6.63 \times 10^{-34} \text{ J s}$
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Measurement & Units

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E Durkheim



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