

Equilibrium

- **Equilibrium** is a state where the net force on an object is zero. It can be static or dynamic.
- **Static Equilibrium**: The object is at rest.
 - $\sum F = 0$
 - $\sum \tau = 0$
- **Dynamic Equilibrium**: The object is moving with constant velocity.
 - $\sum F = 0$
 - $\sum \tau = 0$
- **Center of Mass**: The point where the mass of the object is concentrated.
 - $\sum \tau = 0$ about the center of mass.
- **Stable Equilibrium**: The object returns to its original position after a small displacement.
- **Unstable Equilibrium**: The object moves away from its original position after a small displacement.
- **Neutral Equilibrium**: The object remains in its new position after a small displacement.



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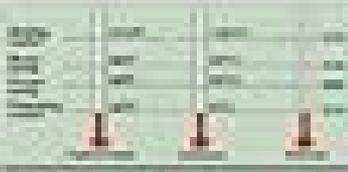
Nuclear Chemistry

- **Radioactivity** is the process by which unstable atomic nuclei lose energy by emitting radiation.
- **Types of Radiation**:
 - **Alpha** (α): ${}^4_2\text{He}$
 - **Beta** (β): ${}^0_{-1}\text{e}$
 - **Gamma** (γ): High energy photons
- **Half-life** ($T_{1/2}$): The time taken for half of the radioactive substance to decay.
- **Radioactive Decay**:
 - $N = N_0 e^{-\lambda t}$
 - $\lambda = \frac{0.693}{T_{1/2}}$
- **Applications**:
 - **Medicine**: Radioisotopes for diagnosis and treatment.
 - **Industry**: Radioisotopes for tracing and dating.
 - **Energy**: Nuclear power generation.



Measurement & Units

- **SI Units**: International System of Units.
- **Base Units**:
 - Length: meter (m)
 - Mass: kilogram (kg)
 - Time: second (s)
 - Temperature: kelvin (K)
 - Amount of substance: mole (mol)
 - Electric current: ampere (A)
 - Luminous intensity: candela (cd)
- **Derived Units**:
 - Area: square meter (m^2)
 - Volume: cubic meter (m^3)
 - Density: kg m^{-3}
 - Velocity: m s^{-1}
 - Acceleration: m s^{-2}
 - Force: newton (N)
 - Pressure: pascal (Pa)
 - Energy: joule (J)
 - Power: watt (W)
- **Significant Figures**:
 - Rules for addition, subtraction, multiplication, and division.
- **Dimensional Analysis**:
 - Check the consistency of units in an equation.



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Zhe Xu

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