

## Reflection & Mirrors Study Guide

### I. Introduction to Reflection

- **Reflection:** The bouncing back of light when it strikes a surface.
- **Specular Reflection:**
  - Reflection from a smooth surface.
  - Reflected rays are parallel.
  - Forms clear images.
  - Example: Mirrors.
- **Diffuse Reflection:**
  - Reflection from a rough surface.
  - Reflected rays are scattered.
  - Does not form clear images.
  - Example: Paper, walls.

### II. Laws of Reflection

- **Law of Reflection:**
  - The angle of incidence ( $\theta_i$ ) is equal to the angle of reflection ( $\theta_r$ ).
  - The incident ray, the reflected ray, and the normal lie in the same plane.
- **Normal:** A line perpendicular to the reflecting surface at the point of incidence.
- **Angle of Incidence ( $\theta_i$ ):** The angle between the incident ray and the normal.
- **Angle of Reflection ( $\theta_r$ ):** The angle between the reflected ray and the normal.

### III. Types of Mirrors

- **Plane Mirrors:**
  - Flat reflective surfaces.
  - Form virtual, upright, and same-size images.
  - Images are reversed left to right.
- **Concave Mirrors:**
  - Curved inward.
  - Can form both real and virtual images.
  - Real images are inverted.
  - Virtual images are upright and magnified.
  - Used in telescopes, makeup mirrors, and headlights.
- **Convex Mirrors:**
  - Curved outward.
  - Always form virtual, upright, and smaller images.
  - Provide a wider field of view.
  - Used in car side mirrors and security mirrors.

# Study Guide Solutions Reflection And Mirrors

**Bo Lou**



## Study Guide Solutions Reflection And Mirrors:

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