

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 (θ_i) is equal to the angle of reflection (θ_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 (θ_i):** The angle between the incident ray and the normal.
- **Angle of Reflection (θ_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

Ensheng Dong



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