

RAY OPTICS AND OPTICAL INSTRUMENTS

INTRODUCTION

Optics is the branch of physics which deals with the behavior of light waves. Under many circumstances, the wavelength of light is negligible compared with the dimensions of the device as in the case of ordinary mirrors and lenses. A light beam can then be treated as a ray whose propagation is governed by simple geometric rules. The part of optics that deals with such a phenomena is known as geometrical optics.

PROPAGATION OF LIGHT

Light travels along straight line path in a certain medium or in vacuum. The path of light changes only where the medium changes. We call this rectilinear (straight-line) propagation of light. A bundle of light rays is called a beam of light.

Apart from vacuum and gases, light can travel through some liquids and solids as well. A medium in which light can travel without attenuation over large distances is called a transparent medium. Water, glycerine, glass and clear plastics are transparent. A medium in which light cannot travel is called opaque. Wood, metals, bricks, etc., are opaque. In materials like oil, light can travel some distance, but its intensity reduces rapidly. Such materials are called translucent.

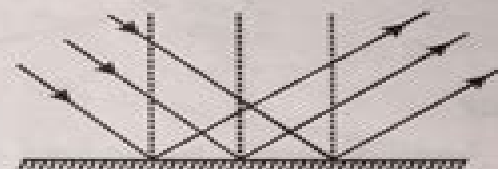
1. REFLECTION OF LIGHT

When light rays strike the boundary of two media such as air and glass, a part of light bounces back into the same medium. This phenomenon of light is called Reflection of light.

(i) Regular / Specular reflection :

When reflection takes place from a perfect plane surface then rays remain parallel after reflection.

It is called **Regular reflection**.



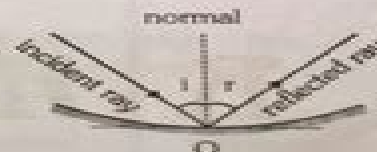
(ii) Irregular / Diffused reflection

When the surface is rough, light is reflected from the bits of its plane surfaces in different directions. This is called **Irregular reflection**. This process enables us to see an object from any position.



LAWS OF REFLECTION

- Incident ray, reflected ray and normal at the point of incidence all lie in the same plane.
- The angle of reflection is equal to the angle of incident i.e. $\angle i = \angle r$.



Optics Basics P 2 Answers

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