



GEOMETRICAL OPTICS



INTRODUCTION :

Blue lakes, ochre deserts, green forest, and multicolored rainbows can be enjoyed by anyone who has eyes with which to see them. But by studying the branch of physics called **optics**, which deals with the behaviour of light and other electromagnetic waves, we can reach a deeper appreciation of the visible world. A knowledge of the properties of light allows us to understand the blue color of the sky and the design of optical devices such as telescopes, microscopes, cameras, eyeglasses, and the human eyes. The same basic principles of optics also lie at the heart of modern developments such as the laser, optical fibers, holograms, optical computers, and new techniques in medical imaging.

1. CONDITION FOR RECTILINEAR PROPAGATION OF LIGHT

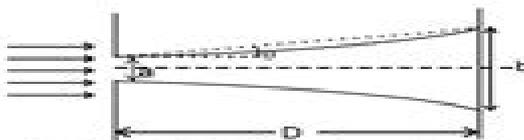
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Some part of the optics can be understood if we assume that light travels in a straight line and it bends abruptly when it suffers reflection or refraction.

The assumption that the light travels in a straight line is correct if

(i) the medium is isotropic, i.e. its behaviour is same in all directions and (ii) the obstacle past which the light moves or the opening through which the light moves is not very small.

Consider a slit of width 'a' through which monochromatic light rays pass and strike a screen, placed at a distance D as shown.



It is found that the light strikes in a band of width 'b' more than 'a'. This bending is called **diffraction**.

Light bends by $(b-a)/2$ on each side of the central line. It can be shown by wave theory of light that

$\sin \theta = \frac{\lambda}{a}$ (A), where θ is shown in figure.

This formula indicates that the **bending is considerable only when $a \approx \lambda$** . Diffraction is more pronounced in sound because its wavelength is much more than that of light and it is of the order of the size of obstacles or apertures.

Formula (A) gives $\frac{b-a}{2D} \approx \frac{\lambda}{a}$.

It is clear that the bending is negligible if $\frac{D\lambda}{a} \ll a$ or $a \gg \sqrt{D\lambda}$. If this condition is fulfilled, light is said to move rectilinearly. In most of the situations including geometrical optics the conditions are such that we can safely assume that light moves in straight line and bends only when it gets reflected or refracted.

Thus geometrical optics is an approximate treatment in which the light waves can be represented by straight lines which are called rays. A ray of light is the straight line path of transfer of light energy. Arrow represents the direction of propagation of light.

Figure shows a ray which indicates light is moving from A to B.



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