RAY OPTICS AND OPTICAL INSTRUMENTS



CLASS XII

APPLICATIONS OF TIR

- Fiber optics communication
- Medical endoscopy
- Periscope (Using prism)
- Sparkling of diamond



TOTAL INTERNAL REFLECTION

TIR conditions

- Light must travel from denser to rarer.
- Incident angle i > critical angle i_c.

Relation between μ and i_i : $\mu =$

REFRACTION OF LIGHT

Snell's law: When light travels from medium a to medium $b_i = \mu_b = \frac{\mu_b}{a}$

Refractive index.

$$\mu = \frac{\text{velocity of light in vacuum}}{\text{velocity of light in medium}} = \frac{c}{\nu}$$

Real and apparent depth real depth(x)

apparent depth (y)

REFLECTION OF LIGHT

According to the laws of reflection,

If a plane mirror is rotated by an angle 0, the reflected rays rotates by am amade 20).

SIMPLE MICROSCOPE

Magnifying power

For final image is formed at D

(least distance) $M = 1 + \frac{D}{2}$

For final image formed at infinity

REFLECTING TELESCOPE

Magnifying power

$$M = \frac{f_o}{f_c} = \frac{R/2}{f_c}$$

REFRACTION THROUGH PRISM

Relation between μ and δ_m

$$\mu = \frac{\sin\frac{A + \delta_{\text{ym}}}{2}}{\sin\frac{A}{2}} \quad \begin{bmatrix} \text{where.} \\ \delta_{\text{ym}} = \text{angle of minimum} \\ \text{deviation} \\ A = \text{angle of prison} \end{bmatrix}$$

or $\delta = (\mu - 1)A$ (Prism of small angle)

Angular dispersion.

$$= \bar{o}_{\gamma} - \bar{o}_{g} = (\mu_{\gamma} - \mu_{g})A$$

Dispersive power,

$$a = \frac{\delta_V - \delta_R}{\delta} = \frac{\mu_V - \mu_R}{\mu - 1}$$

Mean deviation, $\delta = \frac{\delta_V + \delta_R}{2}$

Magnification: m = :

Power of lens: P =

Thin lens formula

POWER OF LENSES

(d = small separation between the

Combination of lenses: Power: $P = P_1 + P_2 - dP_1P_2$

For d = 0 (lenses in contact)

Power: $P = P_1 + P_2 + P_3 + ...$

REFRACTION BY SPHERICAL SURFACE

Relation between object distance (u), image distance (v) and refractive index (u)

aphenical. surface 3.

Lens maker's formula

$$\frac{1}{f} = (\mu - 1) \left[\frac{1}{R_1} - \frac{1}{R_2} \right]$$

REFLECTION BY SPHERICAL MIRRORS

Mirror formula,

Magnification, m = -

COMPOUND MICROSCOPE

Magnifying power, $M = m_{\alpha} \times m_{\phi}$ For final image formed at D (least

distance) $M = \frac{L}{f_o} \left[1 + \frac{D}{f_e} \right]$

For final image formed at infinity M = L D

TERRESTRIAL TELESCOPE

For normal adjustment M = Lo.

Distance between objective and eyepiece $d = f_o + 4f + f_e$



RAY OPTICS

TELESCOPE

Astronomical telescope

For final image formed at D (least distance) $M = Ie |_{1+} I_e$

In normal adjustment, image formed at infinity $M = f_{\alpha}/f_{\alpha}$





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Sebastian Brünink

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