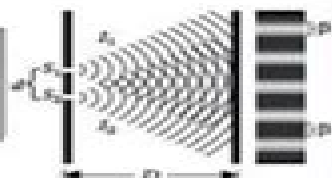


WAVE OPTICS

BRAIN MAP CLASS XII

REFLECTION AND REFRACTION

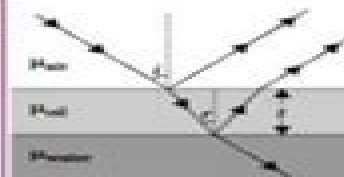
Law of reflection $\angle i = \angle r$
 & law of refraction $\frac{\sin i}{\sin r} = \mu$
 can be explained by Huygens wave theory.



INTERFERENCE OF LIGHT

The superposition of two coherent waves resulting in a pattern of alternating dark and bright fringes of equal width.

- Position of bright fringes $x_n = \frac{n\lambda D}{d}$
- Position of dark fringes $x'_n = \frac{(2n-1)\lambda D}{2d}$
- Fringe width $\beta = \frac{\lambda D}{d}$
- Ratio of slit width with intensity: $\frac{w_1}{w_2} = \frac{I_1}{I_2} = \frac{a_1^2}{a_2^2}$



ADDITION OF COHERENT WAVE

- Resultant intensity
 $I_R = I_1 + I_2 + 2\sqrt{I_1 I_2} \cos \phi$
 for bright fringes,
 $I_{\max} = (\sqrt{I_1} + \sqrt{I_2})^2$ at $\phi = 0^\circ, 2\pi, 4\pi, \dots$
 for dark fringes,
 $I_{\min} = (\sqrt{I_1} - \sqrt{I_2})^2$ at $\phi = \pi, 3\pi, 5\pi, \dots$
 for $I_1 = I_2 = I_0$: $I_R = 4I_0 \cos^2 \frac{\phi}{2}$

INTERFERENCE IN THIN FILM

- For reflected light
 Maxima $\rightarrow 2\mu t \cos r = (2n+1)\frac{\lambda}{2}$
 Minima $\rightarrow 2\mu t \cos r = n\lambda$
 For transmitted light
 Maxima $\rightarrow 2\mu t \cos r = n\lambda$
 Minima $\rightarrow 2\mu t \cos r = (2n+1)\frac{\lambda}{2}$
 Shift in fringe patterns
 $\Delta x = \frac{\beta}{\lambda} (\mu - 1)t = \frac{D}{d} (\mu - 1)t$
 (t = thickness of film, μ = R.I. of the film)

DIFFRACTION

- Single slit experiment
 > Angular position of n^{th} minima, $\theta_n = \frac{n\lambda}{d}$
 > Angular position of n^{th} maxima, $\theta_n = \frac{(2n+1)\lambda}{2d}$
 > Width of central maximum $\beta_c = 2\beta = \frac{2\lambda D}{d}$

FRESNEL'S DISTANCE

- Ray optics as a limiting case of wave optics
 • Diffraction at circular aperture
 Linear spread, $x = D\theta$ $\left\{ \theta = 1.22 \frac{\lambda}{d} \right\}$
 Area spread, $x^2 = (D\theta)^2$
 • Fresnel's distance: Distance at which diffraction spread is equal to the size of aperture, $D_F = \frac{d^2}{\lambda}$
 • Size of Fresnel zone, $d_F = \sqrt{\lambda D}$

RESOLVING POWER (R.P.)

The ability to resolve the images of two nearby point objects distinctly.

- R.P. = $\frac{1}{\text{Limit of resolution}}$
 R.P. of a microscope = $\frac{1}{d} = \frac{2\mu \sin \theta}{\lambda}$
 θ = Semi vertical angle subtended at objective.
 R.P. of a telescope = $\frac{1}{\theta} = \frac{1.22\lambda}{D}$
 D = Diameter of objective lens of telescope.

DOPPLER'S EFFECT

- Apparent frequency received during relative motion of source and observer
 $\nu' = \nu \left(1 - \frac{v}{c} \right)$ (red shift)
 $\nu' = \nu \left(1 + \frac{v}{c} \right)$ (blue shift)
 Doppler shift: $\Delta \lambda = \pm \frac{v}{c} \times \lambda$
 $\Delta \lambda = \pm \frac{v}{c} \times \lambda \Rightarrow \lambda' - \lambda = \pm \frac{v}{c} \lambda$



POLARISATION OF LIGHT

Malus Law: The intensity of transmitted light passed through an analyser is $I = I_0 \cos^2 \theta$
 (θ = angle between transmission directions of polariser and analyser)

POLARISATION BY REFLECTION

- Brewster's Law:** The tangent of polarising angle of incidence at which reflected light becomes completely plane polarised is numerically equal to refractive index of the medium
 $\mu = \tan i_p$; i_p = Brewster's angle.
 and $i_p + r_p = 90^\circ$

Physics Waves And Vibrations Notes

Edward Livingston Youmans



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1. Understanding the eBook Physics Waves And Vibrations Notes
 - The Rise of Digital Reading Physics Waves And Vibrations Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics Waves And Vibrations Notes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Physics Waves And Vibrations Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Waves And Vibrations Notes
 - Personalized Recommendations
 - Physics Waves And Vibrations Notes User Reviews and Ratings
 - Physics Waves And Vibrations Notes and Bestseller Lists

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 - Physics Waves And Vibrations Notes Compatibility with Devices
 - Physics Waves And Vibrations Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physics Waves And Vibrations Notes
 - Highlighting and Note-Taking Physics Waves And Vibrations Notes
 - Interactive Elements Physics Waves And Vibrations Notes
8. Staying Engaged with Physics Waves And Vibrations Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics Waves And Vibrations Notes
9. Balancing eBooks and Physical Books Physics Waves And Vibrations Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics Waves And Vibrations Notes
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physics Waves And Vibrations Notes
 - Setting Reading Goals Physics Waves And Vibrations Notes
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physics Waves And Vibrations Notes
 - Fact-Checking eBook Content of Physics Waves And Vibrations Notes
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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