

Wave Optics

★ Huygen's Principal of Secondary waves

$$i = r$$

i - incident angle
 r - reflected angle
 n_{12} - Refractive index

$$\frac{\sin i}{\sin r} = \frac{v_1}{v_2} = \text{constant}$$

$$n_{21} = \frac{v_1}{v_2} = \frac{\text{velocity of light in first medium}}{\text{velocity of light in second medium}}$$

$$v = \frac{c}{n}$$

n - refractive index
 c - velocity of light

$$\frac{\lambda_1}{\lambda_2} = \frac{v_1}{v_2} = n_{21}$$

★ Optical Path
 d - distance

$$c \times t = nd$$

★ Doppler Effect

change in frequency

$$\frac{\Delta \nu}{\nu} = - \frac{v_{\text{radical}}}{c}$$

velocity

★ Refractive index of water relative to air

$$n = \frac{\lambda}{\lambda_w} \quad \text{OR} \quad \lambda_w = \frac{\lambda}{n}$$

★ Interference

$$I = I_1 + I_2 + 2\sqrt{I_1 I_2} \cos \phi$$

★ Positions of Bright fringes

$$x = n \frac{D\lambda}{d}$$

★ Fringe Width

$$\beta = \frac{D\lambda}{d}$$

★ Positions of Dark fringes

$$x = \left[\frac{n-1}{2} \right] \frac{D\lambda}{d}$$

★ Angular Fringe - Width

OR

Angular Path difference

$$\theta = \frac{\lambda}{d}$$

★ Displacement of fringe

$$x_0 = \frac{D(n-1)t}{d}$$

★ thickness of plate

$$t = \frac{x_0 \lambda}{D(n-1)}$$

★ Diffraction of light due to a single slit

$$e \sin \theta = \pm m \lambda$$

$$e \sin \theta = (2m+1) \frac{\lambda}{2}$$

★ Angular width of Central maximum

$$2\theta = \frac{2\lambda}{e}$$

★ Linear width of Central maximum

$$2x = \frac{2\lambda \times f}{e}$$

★ Resolving power of Telescope

$$1.22 \frac{\lambda}{d}$$

★ Fresnel distance

$$Z_f = \frac{e^2}{\lambda}$$

★ Resolving power of microscope

$$\frac{1.22 \lambda}{2n \sin \alpha}$$

★ Brewster's law

$$\mu = \tan i_p$$

★ Coherent and non-coherent addition of waves

1. $I \propto a^2$ I - Intensity, a - amplitude

2. Coherent waves : No phase difference

displacement $y = 2a \cos \omega t$

Amplitude $2a$

Intensity $I = 4I_0$ where $I_0 \propto a^2$

The Wave Study Questions

**Edward Jewitt Wheeler, Isaac Kaufman
Funk, William Seaver Woods**

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Table of Contents The Wave Study Questions

1. Understanding the eBook The Wave Study Questions
 - The Rise of Digital Reading The Wave Study Questions
 - Advantages of eBooks Over Traditional Books
2. Identifying The Wave Study Questions
 - 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 The Wave Study Questions
 - User-Friendly Interface
4. Exploring eBook Recommendations from The Wave Study Questions
 - Personalized Recommendations
 - The Wave Study Questions User Reviews and Ratings
 - The Wave Study Questions and Bestseller Lists
5. Accessing The Wave Study Questions Free and Paid eBooks
 - The Wave Study Questions Public Domain eBooks
 - The Wave Study Questions eBook Subscription Services

- The Wave Study Questions Budget-Friendly Options
- 6. Navigating The Wave Study Questions eBook Formats
 - ePub, PDF, MOBI, and More
 - The Wave Study Questions Compatibility with Devices
 - The Wave Study Questions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of The Wave Study Questions
 - Highlighting and Note-Taking The Wave Study Questions
 - Interactive Elements The Wave Study Questions
- 8. Staying Engaged with The Wave Study Questions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers The Wave Study Questions
- 9. Balancing eBooks and Physical Books The Wave Study Questions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection The Wave Study Questions
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine The Wave Study Questions
 - Setting Reading Goals The Wave Study Questions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of The Wave Study Questions
 - Fact-Checking eBook Content of The Wave Study Questions
 - 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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