

WAVES

$\frac{\partial^2 y}{\partial x^2} = \frac{1}{v^2} \frac{\partial^2 y}{\partial t^2}$
 $Y = A \sin(kx - \omega t)$
 $= A \sin[2\pi(x/\lambda - t/T)]$
 $T = \frac{1}{f} = \frac{2\pi}{\omega}$ $v = \lambda f$ Wave Number $(k) = \frac{2\pi}{\lambda}$

STANDING WAVES

$y_1 = A \sin(kx - \omega t)$ $y_2 = A \sin(kx + \omega t)$
 $Y = 2A \cos kx \sin \omega t$ Node if \cos is zero $\rightarrow x = (n + \frac{1}{2})\lambda$



$Y_1 = A_1 \sin(kx - \omega t)$ $Y_2 = A_2 \sin(kx - \omega t + \phi)$
 $Y = A \sin(kx - \omega t + \epsilon)$ $A^2 = \sqrt{A_1^2 + A_2^2 \cos^2 \phi} + (A_1 A_2 \sin \phi)^2$
 $\phi = 2n\pi$ (even) : constructive
 $\phi = (2n+1)\pi$ (odd) : destructive
 $\tan \epsilon = \frac{A_2 \sin \phi}{A_1 + A_2 \cos \phi}$



SOUND WAVES

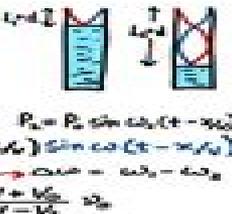
$S = S_0 \sin[\omega(t - x/v)]$ $V_{\text{sound}} = \sqrt{\gamma P/\rho}$
 $P = P_0 \cos[\omega(t - x/v)]$ $V_{\text{air}} = \sqrt{B/\rho}$
 $P_0 = \left[\frac{\rho c \omega}{2} \right] s_0$ $V_{\text{gas}} = \sqrt{\gamma P/\rho}$
 $I = \frac{2\pi^2 \rho s_0^2 v^2}{\lambda} = \frac{P_0^2 v}{2B} = \frac{P_0^2}{2\rho v}$

STANDING LONGITUDINAL WAVES

$P_1 = P_0 \sin[\omega t - kx]$ $P_2 = P_0 \sin[\omega t + kx]$
 $P = P_1 + P_2 = 2P_0 \cos kx \sin \omega t$
CLOSED ORGAN PIPE
 $L = (2n+1) \frac{\lambda}{4}$ $v = (2n+1) \frac{v_{\text{air}}}{4L}$
OPEN ORGAN PIPE
 $L = n \frac{\lambda}{2}$ $v = n \frac{v_{\text{air}}}{2L}$

RESONANCE COLUMN

$L = n \frac{\lambda}{4}$ $L = (2n+1) \frac{\lambda}{4}$
 $v = 2L/\lambda$
BERTS (if $\omega_1 = \omega_2$)
 $P = P_1 \sin \omega_1(t - x/v_1)$ $P_2 = P_2 \sin \omega_2(t - x/v_2)$
 $P = 2B \cos \Delta \omega(t - x/v) \sin \omega(t - x/v)$
 $\omega = (\omega_1 \pm \omega_2)$ Beats $\rightarrow \omega = \omega_1 - \omega_2$
DOPPLER $v = \frac{v + v_o}{v - v_s} \lambda$



LIGHT WAVES

PLANE WAVES $E = E_0 \sin \omega(t - x/v)$; $I = I_0 \cos^2 \theta$
SPHERICAL WAVES $E = \frac{E_0}{r} \sin \omega(t - r/v)$; $I = \frac{I_0}{r^2}$

DIFFRACTION

$\Delta x = b \sin \theta = \lambda \sin \theta$
 Minima $b \sin \theta = n \lambda$
 Resolution $\sin \theta = \lambda / 2a$



YOUNG'S DOUBLE SLIT EXPERIMENT

Path diff: $\Delta x = y \frac{\lambda}{D}$ Phase diff: $\phi = \frac{2\pi}{\lambda} \Delta x$
CONSTRUCTIVE | **DESTRUCTIVE**
 $\phi = 2n\pi$; $\Delta x = n\lambda$ $\phi = (2n+1)\pi$; $\Delta x = (n + \frac{1}{2})\lambda$
 Intensity $I = I_1 + I_2 + 2\sqrt{I_1 I_2} \cos \phi$ $I_{\text{max/min}} = (\sqrt{I_1} \pm \sqrt{I_2})^2$
 Fringe width $w = \lambda \frac{D}{2a}$ Optical Path $\Delta x = \mu \Delta x$



LAW of MALUS

$I = I_0 \cos^2 \theta$

INTERFERENCE THROUGH THIN FILM

$\Delta x = 2 \mu d \cos \theta = n \lambda \rightarrow$ Constructive
 $(2n+1) \lambda / 2 \rightarrow$ destructive

OPTICS

REFLECTION

$\angle i = \angle r$
 $i, r \perp$ normal in same plane
 $f = R/2$
 $\frac{1}{v} + \frac{1}{u} = \frac{1}{f}$
 Magnification $m = -\frac{v}{u}$



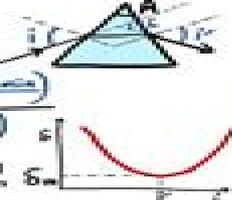
REFRACTION

$\mu = \frac{c}{v} = \frac{\text{vacuum}}{\text{medium}}$
SNELL'S LAW $\mu_1 \sin i = \mu_2 \sin r$
APPARENT DEPTH $d' = d/\mu$
TIR CRITICAL ANGLE
 $\mu \sin c = \sin 90^\circ$



PRISM

$S = i + r - A$
 $\mu = \frac{\sin(A + \delta)}{\sin(\theta)}$
 $\delta_{\text{min}} = A(\mu - 1)$
 For small 'A' $\delta = A(\mu - 1)$



SPHERICAL SURFACE

$\frac{\mu_2}{v} - \frac{\mu_1}{u} = \frac{\mu_2 - \mu_1}{R}$
 $m = \frac{\mu_2 v}{\mu_1 u}$
LENS MAKER'S $\frac{1}{f} = (\mu - 1) \left(\frac{1}{R_1} - \frac{1}{R_2} \right)$
LENS FORMULA $\frac{1}{v} - \frac{1}{u} = \frac{1}{f}$; $m = \frac{v}{u}$
POWER $P = 1/f$
THIN LENSES $\frac{1}{f} = \frac{1}{f_1} + \frac{1}{f_2} = \frac{d}{f_1 f_2}$



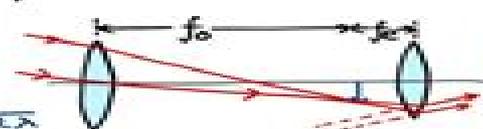
MICROSCOPE

Simple $m = D/v$
 Compound $m = \frac{D}{u} \cdot \frac{D'}{v'}$
 Resolving Power $R = \frac{1}{\Delta \theta} = \frac{2 \mu \sin \alpha}{\lambda}$



TELESCOPE

$m = -\frac{f_o}{f_e}$
 $L = f_o + f_e$
 $R = \frac{1}{\Delta \theta} = \frac{f_o}{1.22 \lambda}$



DISPERSION

Cauchy's $\mu = \mu_0 + A/\lambda^2$ $A > 0$
 For small $A \pm 1$
 mean deviation $S_y = (\mu_y - 1)A$
 Angular dispersion $\theta = (\mu_y - \mu_r)A$
 Dispersive Power
 $\omega = \frac{\mu_y - \mu_r}{\mu_y - 1} \approx \frac{\theta}{S_y}$



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Table of Contents Target Publication All Chapters Physics Notes Bing

1. Understanding the eBook Target Publication All Chapters Physics Notes Bing
 - The Rise of Digital Reading Target Publication All Chapters Physics Notes Bing
 - Advantages of eBooks Over Traditional Books
2. Identifying Target Publication All Chapters Physics Notes Bing
 - 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 Target Publication All Chapters Physics Notes Bing
 - User-Friendly Interface

4. Exploring eBook Recommendations from Target Publication All Chapters Physics Notes Bing
 - Personalized Recommendations
 - Target Publication All Chapters Physics Notes Bing User Reviews and Ratings
 - Target Publication All Chapters Physics Notes Bing and Bestseller Lists
5. Accessing Target Publication All Chapters Physics Notes Bing Free and Paid eBooks
 - Target Publication All Chapters Physics Notes Bing Public Domain eBooks
 - Target Publication All Chapters Physics Notes Bing eBook Subscription Services
 - Target Publication All Chapters Physics Notes Bing Budget-Friendly Options
6. Navigating Target Publication All Chapters Physics Notes Bing eBook Formats
 - ePub, PDF, MOBI, and More
 - Target Publication All Chapters Physics Notes Bing Compatibility with Devices
 - Target Publication All Chapters Physics Notes Bing Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Target Publication All Chapters Physics Notes Bing
 - Highlighting and Note-Taking Target Publication All Chapters Physics Notes Bing
 - Interactive Elements Target Publication All Chapters Physics Notes Bing
8. Staying Engaged with Target Publication All Chapters Physics Notes Bing
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Target Publication All Chapters Physics Notes Bing
9. Balancing eBooks and Physical Books Target Publication All Chapters Physics Notes Bing
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Target Publication All Chapters Physics Notes Bing
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Target Publication All Chapters Physics Notes Bing
 - Setting Reading Goals Target Publication All Chapters Physics Notes Bing
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Target Publication All Chapters Physics Notes Bing
 - Fact-Checking eBook Content of Target Publication All Chapters Physics Notes Bing
 - 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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