

WAVES

$$\frac{\partial^2 y}{\partial x^2} = \frac{1}{v^2} \frac{\partial^2 y}{\partial t^2}$$

$$Y = A \sin(kx - \omega t) = A \sin\left[2\pi\left(\frac{x}{\lambda} - \frac{t}{T}\right)\right]$$

$T = \frac{1}{f} = \frac{2\pi}{\omega}$ $v = \lambda f$ Wave Number $(k) = \frac{2\pi}{\lambda}$

STANDING WAVES

$$y_1 = A \sin(kx - \omega t) \quad y_2 = A \sin(kx + \omega t)$$

$$Y = 2A \cos kx \sin \omega t$$

Node if \cos is zero $\rightarrow x = (n + \frac{1}{2})\lambda$



$$Y_1 = A_1 \sin(kx - \omega t) \quad Y_2 = A_2 \sin(kx - \omega t + \epsilon)$$

$$Y = A \sin(kx - \omega t + \epsilon) \quad A^2 = \sqrt{A_1^2 + A_2^2 \cos^2 \epsilon - 2A_1 A_2 \cos \epsilon}$$

$\epsilon = 2n\pi$ (even) : constructive
 $\epsilon = (2n+1)\pi$ (odd) : destructive

$$\tan \epsilon = \frac{A_2 \sin \phi}{A_1 + A_2 \cos \phi}$$

SOUND WAVES

$$S = S_0 \sin[\omega(t - x/v)]$$

$$P = P_0 \cos[\omega(t - x/v)]$$

$$P_0 = \left[\frac{\partial S}{\partial t}\right]_{\max}^2 / Z$$

$$I = \frac{2\pi^2 B^2 \omega^2 v^2}{Z} = \frac{P_0^2 v}{2Z} = \frac{P_0^2}{2\rho v}$$

STANDING LONGITUDINAL WAVES

$$P_1 = P_0 \sin[\omega(t - x/v)] \quad P_2 = P_0 \sin[\omega(t + x/v)]$$

$$P = P_1 + P_2 = 2P_0 \cos kx \sin \omega t$$

CLOSED ORGAN PIPE
 $L = (2n+1) \frac{\lambda}{4}$ $v = (2n+1) \frac{v}{4L}$

OPEN ORGAN PIPE
 $L = n \frac{\lambda}{2}$ $v = n \frac{v}{2L}$

RESONANCE COLUMN

$$L = n \frac{\lambda}{4} \quad L = (2n+1) \frac{\lambda}{4}$$

$v = 2L / T$

BEATS (if $\omega_1 \approx \omega_2$)
 $P = P_1 \sin \omega_1(t - x/v) + P_2 \sin \omega_2(t - x/v)$
 $P = 2B \cos \Delta\omega(t - x/v) \sin \omega(t - x/v)$
 $\omega = (\omega_1 + \omega_2) \quad \text{Beats} \rightarrow \omega = \omega_1 - \omega_2$

DOPPLER $v = \frac{v + v_o}{v - v_s} \lambda$

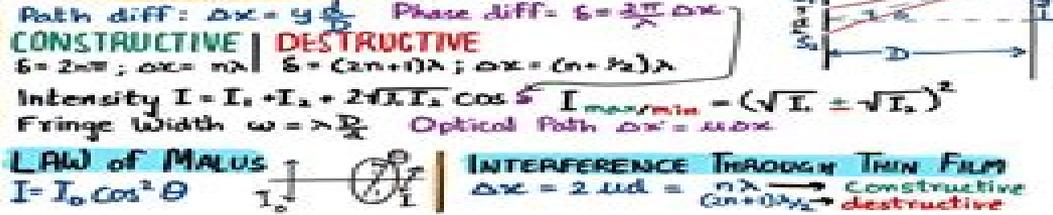
LIGHT WAVES

$\rightarrow \rightarrow \rightarrow$ PLANE WAVES $E = E_0 \sin \omega(t - x/v)$; $I = I_0 \cos^2 \theta$

$\circ \circ \circ$ SPHERICAL WAVES $E = \frac{A}{r} \sin \omega(t - r/v)$; $I = \frac{I_0}{r^2}$



YOUNG'S DOUBLE SLIT EXPERIMENT



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 $m = -\frac{v}{u}$

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

REFRACTION
 $\mu = \frac{c}{v} = \frac{\sin i}{\sin r}$
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
 $S = i + r - A$
 $\mu = \frac{\sin(A + \delta)}{\sin A}$
 $\delta_{\min} = (A - A')/A$
For small 'A' $\delta = A(\mu - 1)$

SPHERICAL SURFACE
 $\frac{\mu_2}{v} - \frac{\mu_1}{u} = \frac{\mu_2 - \mu_1}{R}$

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 $\frac{1}{f} = \frac{1}{f_1} + \frac{1}{f_2} = \frac{d}{f_1 f_2}$

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
 $\omega = \frac{\mu_y - \mu_r}{\mu_y - 1} \approx \frac{\theta}{S_y}$

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

DISPERSION
 $(\mu_y - 1)A + (\mu_g - \mu_r)A = 0$
 $(\mu_r - \mu_b)A = (\mu_g - \mu_r)A$



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M Carnoy



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