WAVES

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

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

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

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

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

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

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

$P_{avg} = 2\pi^2\mu\nu A v^2$ $\quad$ velocity $v = \sqrt{\frac{T}{\mu}}$

STANDING WAVES

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

$Y = 2A\cos kx\sin\omega t$ $\quad$ Node if y is zero → $x = (n + \frac{1}{2})\lambda$

$L = n\lambda/2$ $\quad \nu = \frac{n}{2L}\sqrt{\frac{T}{\mu}}$ $\quad$ SONOMETER

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

SOUND WAVES

$S = S_0\sin[\omega(t - x/v)]$
$P = P_0\cos[\omega(t - x/v)]$
$P_0 = \left[\frac{B\omega}{v}\right]S_0$

$V_{solid} = \sqrt{Y/\rho}$
$V_{liq} = \sqrt{B/\rho}$
$V_{gas} = \sqrt{\gamma P/\rho}$

$I = \frac{2\pi^2 B}{v}S_0^2\nu^2 = \frac{P_0^2 v}{2B} = \frac{P_0^2}{2\rho v}$

STANDING LONGITUDINAL WAVES

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

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

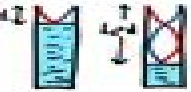
CLOSED ORGAN PIPE

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

OPEN ORGAN PIPE

$L = n\frac{\lambda}{2}$ $\quad \nu = n\frac{v}{2L}$

RESONANCE COLUMN



$L_1 + e = \frac{\lambda}{4}$ $\quad L_2 + e = \frac{3\lambda}{4}$
$V = 2(L_2 - L_1)\nu$

BEATS

(if $\omega_1 \approx \omega_2$)

$P_1 = P_0\sin\omega_1(t - x/v)$ $\quad P_2 = P_0\sin\omega_2(t - x/v)$

$P = 2P_0\cos\Delta\omega(t - x/v)\sin\omega(t - x/v)$

$\omega = \frac{(\omega_1 + \omega_2)}{2}$ $\quad$ Beats → $\Delta\omega = \omega_1 - \omega_2$

DOPPLER

$\nu = \frac{V + V_0}{V - V_s}\nu_0$

LIGHT WAVES

PLANE WAVES $E = E_0\sin\omega(t - x/v)$; $I = I_0$

SPHERICAL WAVES $E = \frac{aE_0}{r}\sin\omega(t - x/v)$; $I = \frac{I_0}{r^2}$

DIFFRACTION

$\theta \sim \tan\theta = y/D$

$\Delta x = b\sin\theta \approx b\theta$

Minima $b\theta = n\lambda$

Resolution $\sin\theta = \frac{1.22\lambda}{b}$

YOUNG'S DOUBLE SLIT EXPERIMENT

Path diff: $\Delta x = y\frac{d}{D}$ $\quad$ Phase diff: $\delta = \frac{2\pi}{\lambda}\Delta x$

CONSTRUCTIVE $\delta = 2n\pi$; $\Delta x = n\lambda$

DESTRUCTIVE $\delta = (2n+1)\pi$; $\Delta x = (n + \frac{1}{2})\lambda$

Intensity $I = I_1 + I_2 + 2\sqrt{I_1 I_2}\cos\delta$ $\quad I_{max/min} = (\sqrt{I_1} \pm \sqrt{I_2})^2$

Fringe Width $w = \lambda\frac{D}{d}$ $\quad$ Optical Path $\Delta x' = \mu\Delta x$

LAW OF MALUS

$I = I_0\cos^2\theta$

INTERFERENCE THROUGH THIN FILM

$\Delta x = 2\mu d = n\lambda$ → constructive
$(2n+1)\lambda/2$ → destructive

OPTICS

REFLECTION

(i) $\angle i = \angle r$
(ii) i, r & normal in same plane

$f = R/2$
$\frac{1}{v} + \frac{1}{u} = \frac{1}{f}$
Magnification $m = -\frac{v}{u}$

REFRACTION

$\mu = \frac{c}{v} = \frac{(vacuum)}{(medium)}$

SNELL'S LAW $\mu_1\sin i = \mu_2\sin r$

APPARENT DEPTH $d' = d/\mu$

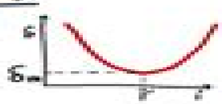
TIR CRITICAL ANGLE $\mu\sin\theta_c = \sin 90° = 1$

PRISM

$\delta = i + i' - A$

$\mu = \frac{\sin\left(\frac{A + \delta_{min}}{2}\right)}{\sin\left(\frac{A}{2}\right)}$

$\delta_{min} = (\mu - 1)A$ For small 'A'



SPHERICAL SURFACE

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

$m = \frac{\mu_1 v}{\mu_2 u}$

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 $\frac{1}{F} = \frac{1}{f_1} + \frac{1}{f_2} - \frac{d}{f_1 f_2}$

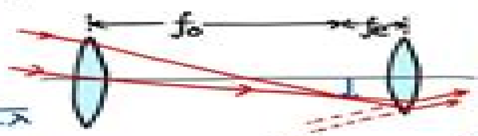
MICROSCOPE

Simple $m = D/f$

Compound $m = \frac{v}{u}\frac{D}{f_e}$ $\quad$ Resolving Pow $R = \frac{1}{\Delta d} = \frac{2\mu\sin\theta}{\lambda}$

TELESCOPE

$m = -f_0/f_e$
$L = f_0 + f_e$
$R = \frac{1}{\Delta\theta} = \frac{1}{1.22\lambda}$



DISPERSION

Cauchy's $\mu = \mu_0 + A/\lambda^2$ $\quad A > 0$

For small A & i
mean deviation $\delta_y = (\mu_y - 1)A$

Angular dispersion $\theta = (\mu_v - \mu_r)A$

Dispersive Power $\omega = \frac{\mu_v - \mu_r}{\mu_y - 1} \approx \frac{\theta}{\delta_y}$

DISPERSION only
$(\mu_y - 1)A + (\mu_y' - 1)A' = 0$

DEVIATION only
$(\mu_v - \mu_r)A = (\mu_v' - \mu_r')A'$

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