

# 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  $\rightarrow x = (n + \frac{1}{2})\lambda$



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

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

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

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

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

# SOUND WAVES

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

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

$$P_0 = \left[\frac{\partial S}{\partial x}\right]_{t=0}^2$$

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

$V_{rms} = \sqrt{Y/\rho}$   
 $V_{avg} = \sqrt{B/\rho}$   
 $V_{rms} = \sqrt{Y/\rho}$

## 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

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

### OPEN ORGAN PIPE

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

## RESONANCE COLUMN

$$L = n \frac{\lambda}{4} \quad L = \frac{\lambda}{4}$$

$$v = 200 \text{ m/s}$$

### BERTS

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

### DOPPLER

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

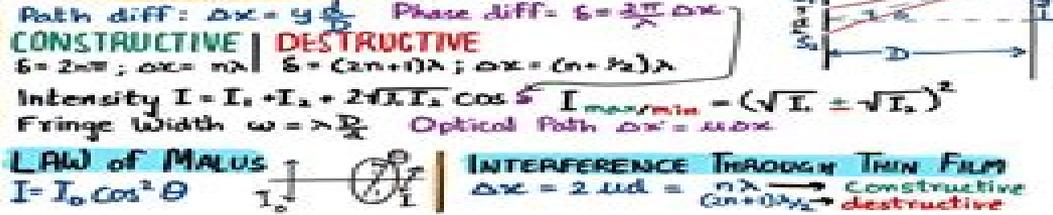
# LIGHT WAVES

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

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



## 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

$$\mu = \frac{c}{v} = \frac{\text{vacuum}}{\text{medium}}$$

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

$$S = i + r - A$$

$$\mu = \frac{\sin(A + \delta)}{\sin A}$$

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

$$\frac{1}{v} - \frac{1}{u} = \frac{1}{f}$$

POWER  $P = 1/f$

### THIN LENSES

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

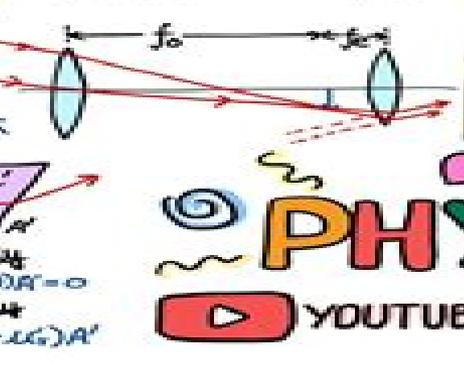
### DISPERSION

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



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