

### TYPES OF WAVES

#### Electromagnetic Waves

Waves propagating in form of oscillating electric and magnetic fields.  
Do not require medium for propagation.

#### Transverse Waves

The individual particles of the medium oscillate perpendicular to the direction of wave propagation.

#### Velocity of Transverse Wave in Solids and Strings

- In solids,  $v = \sqrt{\frac{\eta}{\rho}}$   
where  $\eta$  is modulus of rigidity and  $\rho$  is density of solids.
- In stretched string,  $v = \sqrt{\frac{T}{m}}$   
here,  $T$  is tension in string and  $m$  is mass per unit length of string.

#### Progressive Waves

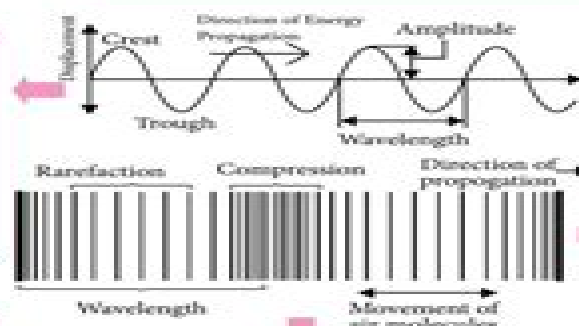
- Displacement**,  $y = A \sin(\omega t - kx + \phi_0)$   
 $y = A \sin 2\pi \left( \frac{t}{T} - \frac{x}{\lambda} \right) = A \sin \frac{2\pi}{\lambda} (vt - x)$
- Phase**,  $\phi = 2\pi \left( \frac{t}{T} - \frac{x}{\lambda} \right) + \phi_0$   
where  $\phi_0$  is the initial phase.
- Phase change**:  
(a) with time  $\Delta\phi = \frac{2\pi}{T} \Delta t$       (b) with position  $\Delta\phi = \frac{2\pi}{\lambda} \Delta x$ .

#### Stationary Waves

- Wave formed by the superposition of incident wave and reflected wave is given by  $y = \pm 2a \sin \frac{2\pi x}{\lambda} \cos \frac{2\pi t}{T}$
- Position of antinodes:  $x = 0, \frac{\lambda}{2}, \lambda, \frac{3\lambda}{2}$
- Position of nodes:  $x = \frac{\lambda}{4}, \frac{3\lambda}{4}, \frac{5\lambda}{4}$
- Frequency of vibration of a string fixed at both ends,  $v = \frac{nv}{2L} = \frac{n}{2L} \sqrt{\frac{T}{m}}$   
 $L$  = length of string,  $n$  = mode of vibration

#### Mechanical Waves

Waves which require a material medium for their propagation are called mechanical waves.



#### Matter Waves

Waves associative with microscopic particles such as electrons, protons etc. in motion are called matter waves.

#### Longitudinal Waves

The individual particles of medium oscillate along the direction of wave propagation.

#### Velocity of Longitudinal Waves

- In a solid of bulk modulus  $\kappa$ , modulus of rigidity  $\eta$  and density  $\rho$  is  
$$v = \sqrt{\frac{\kappa + \frac{4}{3}\eta}{\rho}}$$
- In a fluid of bulk modulus  $\kappa$  and density  $\rho$  is  
$$v = \sqrt{\frac{\kappa}{\rho}}$$
- Newton's formula for the velocity of sound in a gas is  
$$v = \sqrt{\frac{\kappa_{\text{iso}}}{\rho}} = \sqrt{\frac{P}{\rho}} \quad (P = \text{pressure of the gas})$$

### WAVE MOTION

#### Superposition of Waves

Identical waves of same speed superposes in opposite direction

Waves with same speed and different frequency superposes in same direction

- Open organ pipe:**  
Fundamental mode,  $v_1 = v/2L = v$  (1<sup>st</sup> harmonic)  
 $n^{\text{th}}$  mode,  $v_n = nv/2L$  ( $n^{\text{th}}$  harmonic and  $(n-1)^{\text{th}}$  overtone)
- Closed organ pipe:**  
Fundamental mode,  $v_1 = v/4L = v$  (1<sup>st</sup> harmonic)  
 $n^{\text{th}}$  mode,  $v_n = (2n-1)v$   
[( $2n-1$ )<sup>th</sup> harmonic or  $(n-1)^{\text{th}}$  overtone]

#### Doppler's Effect in Sound

- If  $v$ ,  $v_0$ ,  $v_s$  and  $v_m$  are the velocities of sound, observer, source and medium respectively, then the apparent frequency,  
$$v' = \frac{v + v_m - v_0}{v + v_m - v_s} \times v$$
- If the medium is at rest, ( $v_m = 0$ ) then  
$$v' = \frac{v - v_0}{v - v_s} \times v$$

#### Beats Formation

- Beat frequency** = Number of beats  $\text{sec}^{-1}$   
= Difference in frequencies of two sources.  
$$v_{\text{beat}} = (v_1 - v_2) \text{ or } (v_2 - v_1)$$
  
 $\therefore v_2 = v_1 + v_{\text{beat}}$
- If prongs of tuning fork is filed  $v$  increases.
- If prongs is loaded with a wax  $v$  decreases.
- Uses:**
  - For tuning musical instruments
  - For detection of marsh gas in mines
  - For using as a low frequency oscillator.

# Mind On Physics Answers Key Waves

**Marion Collin**



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