

#### Matter Waves

Waves associated with particles like - electrons. protons, neutrons, atoms, molecules, etc.

### Electromagnetic Waves

Do not require any material medium for their propagation e.g., light waves

#### Mechanical Waves Require material medium for

their propagation

#### **Essential Properties** for propagation

- · Elasticity
- Inertin
- Minimum friction

#### Relation how wave velocity (v), wavelength (λ) and frequency (v)

Wave velocity  $v = v\lambda$ 

Time period  $(T) = \frac{1}{\text{frequency}}$ Angular frequency  $(\omega) = 2\pi v$ 

Wave number  $(\overline{v}) =$ wavelength.

Types of waves

Individual particles of the medium oscillate perpendicular to the direction of wave propagation

Transverse waves

# Longitudinal waves

Individual particles of the medium oscillate along the direction of wave propagation

#### Displacement relation in a plane progressive wave

 $y(x,t) = A\sin(\omega t - kx + \phi_0)$  $y(x, t) = A \sin 2\pi \left(\frac{t}{T} - \frac{x}{\lambda}\right)$ 

velocity amplitude vo = Am Acceleration amplitude  $a_0 = A\omega^2$ 

#### WAVES

Information and energy propagate in the form of signal or disturbances without actual transfer of matter

#### Speed of transverse wave in a stretched string:

T = tensionand M = mass/length

#### Speed of longitudinal wave

Speed of sound,  $V = \sqrt{\frac{B}{a}}$ 

$$=\sqrt{\frac{Y}{\rho}}=\sqrt{\frac{P}{\rho}}=\sqrt{\frac{\gamma P}{\rho}}=\sqrt{\frac{\gamma RT}{M}}$$

for air  $\gamma = 7/5$ .

Elasticity of solids maximum and of gases-minium

· If string is stretched by some weight

# **Chapter Review Waves**

F Rizvi

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