

WAVE MOTION

It is a disturbance that propagates from one place to other without movement of wave constituents from one place to other.

In a wave energy and momentum is transmitted by oscillations. A wave can be classified in two broad categories. Mechanical Waves and Non Mechanical or Electromagnetic waves. In mechanical waves, energy is transferred due to oscillations of medium particles and in non mechanical waves energy transfer takes place by the oscillations of electric and magnetic field vectors. In this chapter we'll mainly discuss all about mechanical waves which requires a physical medium for its propagation.

Properties of a Mechanical Wave

A wave has three basic properties which decide the characteristic behaviour of wave and these are

- (i) Amplitude of wave
- (ii) Frequency of wave
- (iii) Velocity of wave

(i) Amplitude : It is the maximum displacement of oscillating medium particle from their mean position. It depends on the source of oscillation or the wave generator. It may vary with the distance of medium particle from the oscillating source.

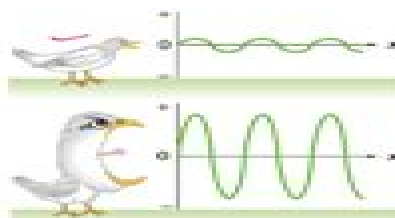
(ii) Frequency : It is the number of oscillations made by the medium particles per unit time. It also depends on the source of oscillations. Once a wave is produced by a source it is carried by the medium, no matters what the medium may be, the frequency of oscillation remains same wherever the wave will go.

(iii) Velocity of wave : It is the speed with which energy transfers through a medium and it depends mainly on the physical properties of the medium. When a wave is transmitted through a medium, its frequency and amplitude depends on the source of oscillation which produces the wave but its speed is decided by the medium which carries energy.



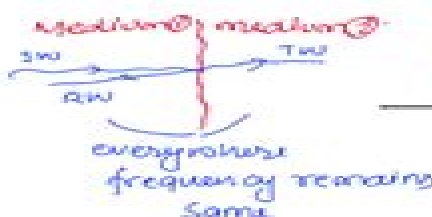
Based on requirement of medium for the propagation of wave it is of two type-

- ① mechanical wave → medium is required
eg. string wave, sound wave, water wave etc
- ② Non mechanical wave → medium not required.
eg. light wave, X-Rays (EM waves)



for ideal medium where no loss of energy is taking place AMPLITUDE remains same.

for lossy medium where loss of energy takes place AMPLITUDE decreases as the disturbance goes away from source.

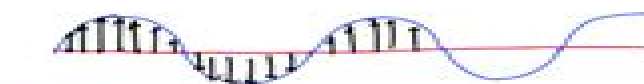


Based on the oscillation of wave constituents :-

Depending on the way how these medium particle oscillates and the nature of oscillations, there are several types of mechanical waves. Mainly mechanical waves are classified in two broad categories :

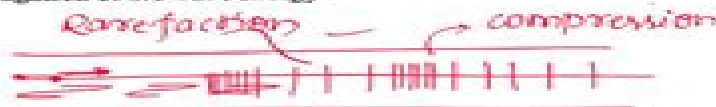
- (a) Transverse waves,
- (b) Longitudinal waves.

(i) Transverse Wave : During such type of wave propagation, medium particles oscillate in a plane normal to the direction of propagation of the wave energy



where displacement of medium particle is +vely max → Crest
where displacement of medium particle is -vely max → Trough

(ii) Longitudinal Waves : During such type of wave propagation, medium particles oscillate along the direction of propagation of the wave energy



where displacement of medium particle is +vely max → Crest
where displacement of medium particle is -vely max → Trough

Physics 151 Notes For Online Lecture 25 Waves

Liyong Dong



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