

CHAPTER 15

WAVES

The disturbances which move without the actual physical transfer or flow of matter as a whole, are called waves. In a wave, information and energy, in the form of signals, propagate from one point to another but material object moves during the propagation.

Types of waves

1. **Mechanical waves** - These waves are governed by Newton's laws and can exist only within a material medium, such as air, water and rock. Eg. Sound waves, water waves, etc.
2. **Electromagnetic waves** - They travel through vacuum at the same speed of light Eq.
Visible, UV, IR, radiowaves, etc.
3. **Matter waves** - They are associated with moving electrons, protons, neutrons and other fundamental particles.

Transverse and longitudinal waves

Mechanical waves can be transverse or longitudinal.

Difference between transverse and longitudinal waves

Transverse waves

1. Transverse waves are those in which particles of the medium oscillate in a direction perpendicular to the wave motion.
2. Propagate in the form of crest and trough.

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dcrest-

Longitudinal waves

Longitudinal waves are those in which particles of the medium oscillate in a direction parallel to the wave motion.

Propagate in the form of compressions and rarefactions

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