

SOUND WAVES

Sound wave travel as transfer of transmission of energy through a medium in the form of a disturbance. It is due to the fact that particles instead of the particles of the medium themselves are vibrating, passing the energy from one particle to another.

The waves are of three types – mechanical, electromagnetic and matter waves. Mechanical waves are longitudinal and only in media which possess elasticity whether the media are solids, liquids or gases and electromagnetic waves are transverse in nature. Electromagnetic waves do not require any material medium for propagation. Radio waves, microwaves, infrared rays, visible light, the ultraviolet rays, X rays, gamma rays are electromagnetic waves. The waves exhibit interference, diffraction, reflection and refraction.

Characteristics of sound waves

(i) A wave motion is a form of disturbance travelling in the medium along the positive direction of the wave motion about their mean position.

(ii) It is necessary that the medium should possess elasticity and inertia.

(iii) A few particles of the medium move back and forth in a plane perpendicular to the wave motion. Hence the motion is 'transverse'.

(iv) The wave motion is different from the particle motion. The velocity of a wave is constant for a given medium, whereas the velocity of the particles goes on changing and is zero at the mean position.

(v) During the propagation of wave motion, there is transfer of energy from one particle to other but without any transmission of the particles of the medium.

(vi) The wave exhibits reflection, refraction, diffraction and interference.

Two types of mechanical wave motion

The two types of mechanical wave motion are (i) transverse wave motion and

(ii) longitudinal wave motion.



and (iii) longitudinal wave motion.

Transverse wave motion is the motion of transverse waves. The particles of the medium move perpendicular to the direction of wave motion. The motion of the particles is called transverse motion.

Transverse wave motion

Consider a wave motion in the form of a transverse wave.

The particles of the medium move perpendicular to the direction of wave motion. The motion of the particles is called transverse motion.

The motion of the particles is called transverse motion. The motion of the particles is called transverse motion.

Wave Characteristics And Sound Study Guide Answers

Didier Musso



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