

→ WAVE MOTION & SOUND

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Q.1: State and explain Hooke's law?

Ans: HOOKE'S LAW:

Statement:

If the deformation of a material is proportional to the force applied, then the material is said to obey Hooke's law".

Or

In other words it can be explained as:

"Within the elastic limit, the force acting on a body is directly proportional to the displacement of the body (extension) from its equilibrium position is called Hooke's law".

Explanation:

Consider body of mass 'm' attached to a horizontal helical spring. The whole system is placed on a horizontal, smooth surface. If the spring is stretched or compressed, a small distance from its equilibrium position, and then released, the spring will exert a force on the body which is given by

$$F \propto -x$$

$$F = -kx$$

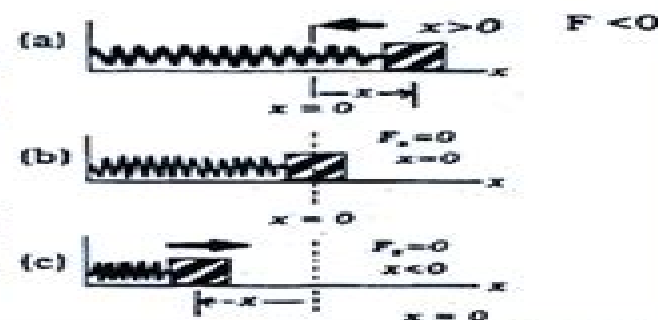
Where 'x' is the displacement of the body from its equilibrium position and 'k' is a constant, which is known as the force constant of the spring. The above equation is the mathematical expression of Hooke's law.

The negative sign in the above equation shows that the force exerted by the spring on the body is always directed opposite to the displacement.

For example, when 'x' is greater than zero as shown in figure (a) the spring force is to the left i.e. negative.

When 'x' is less than zero as shown in figure (c), the spring force is to the right that is positive. No doubt, when 'x' is equal zero as shown in figure (b) the spring is neither stretched nor compressed and $F = 0$

As the spring force always tends to restore the original condition of the spring, it is sometimes called a restoring force or more correctly elastic restoring force.



Wave Energy In Motion Study Questions Answers

Huangqi Zhang



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