

→ 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

$$F \propto -x$$

$$F = -kx$$

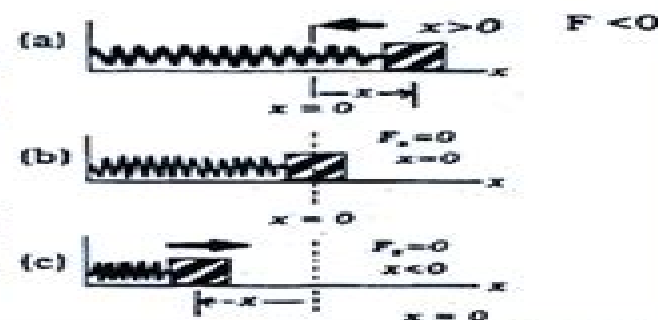
Where 'x' is the displacement of the body from its equilibrium position and 'k' is a constant, which is known as the force constant of the spring. The above equation is the mathematical expression of Hooke's law.

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

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proven with commercial arrays planned throughout the world The wave and tidal energy industry has developed rapidly in the past few years therefore it seems timely to review current research and map future challenges Methods to improve understanding of the resource and interactions between energy extraction the resource and the environment are considered such as resource characterisation including electricity output design considerations e g extreme and fatigue loadings and environmental impacts at all timescales ranging from turbulence to decadal and all spatial scales from device and array scales to shelf sea scales

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nonlinearity and internal variables in continua With the help of many mathematical models for describing waves physical phenomena concerning wave dispersion nonlinear effects emergence of solitary waves scales and hierarchies of waves as well as the governing physical parameters are analysed Also the energy balance in waves and non conservative models with energy influx are discussed Finally all answers are interwoven into the canvas of complexity **Fundamental Nuclear**

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