

Q:- Define the following:-

Vibratory or Oscillatory motion

To and fro motion of a body about a mean position is called oscillatory motion. For example motion of pendulum

Restoring Force

The force which bring a system back to its stable equilibrium position is called restoring force.

Mathematically $F = -kx$

Negative sign show that restoring force acts opposite to displacement from mean position.

Hook's Law

According to Hook's law, within the elastic limit the applied force is directly proportional to displacement from mean position.

$$F \propto x$$

$$F = kx$$

Here K is proportionality constant called spring constant.

Spring Constant

Force per unit length of a spring is called spring constant.

$$K = \frac{F}{x}$$

Unit of spring constant is Nm^{-1} .

Simple Harmonic Motion

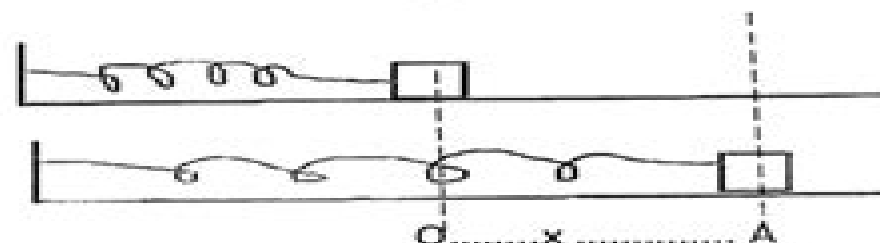
The oscillatory motion in which acceleration of the body at any instant is directly proportional to displacement from mean position and is always directed toward mean position is called Simple Harmonic Motion.

$$a \propto -x$$

For example motion of pendulum

Q:- Show that motion of mass spring system is SHM.

Consider a mass attached to one end of a spring. Mass can move freely on a frictionless surface as shown in figure



If an external force F_{ext} displaces the body from position O to A through displacement x then By Hook's Law

$$\vec{F}_x = k\vec{x}$$

The restoring Force F is equal and opposite to external force F_{ext} so

$$\vec{F} = -k\vec{x} \dots \dots (1)$$

When it released from A, it vibrates about O. According to Newton's 2nd Law of motion

$$\vec{F} = m\vec{a} \dots \dots (2)$$

Equating (1) and (2)

$$m\vec{a} = -k\vec{x}$$

$$\vec{a} = -\frac{k}{m}\vec{x}$$

$$\frac{k}{m} = \text{constant}$$

$$\vec{a} = -\text{Constant } \vec{x}$$

$$\vec{a} \propto -\vec{x}$$

Hence motion of mass spring system is SHM.

Q:- Define the following

Wave form of SHM

The curve representing the variation of

Hsc Physics Oscillation Chapter Notes

Bertram Hopkinson



Hsc Physics Oscillation Chapter Notes:

Vibrations of Systems Having One Degree of Freedom Bertram Hopkinson, 1910 **Vibrations and Waves** A.P. French, 2017-12-21 The M I T Introductory Physics Series is the result of a program of careful study planning and development that began in 1960 The Education Research Center at the Massachusetts Institute of Technology formerly the Science Teaching Center was established to study the process of instruction aids thereto and the learning process itself with special reference to science teaching at the university level Generous support from a number of foundations provided the means for assembling and maintaining an experienced staff to co operate with members of the Institute s Physics Department in the examination improvement and development of physics curriculum materials for students planning careers in the sciences After careful analysis of objectives and the problems involved preliminary versions of textbooks were prepared tested through classroom use at M I T and other institutions re evaluated rewritten and tried again Only then were the final manuscripts undertaken *Vibrations and Waves* Benjamin Crowell, 2000

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 - Chapter 1: Introduction to Hsc Physics Oscillation Chapter Notes
 - Chapter 2: Essential Elements of Hsc Physics Oscillation Chapter Notes
 - Chapter 3: Hsc Physics Oscillation Chapter Notes in Everyday Life
 - Chapter 4: Hsc Physics Oscillation Chapter Notes in Specific Contexts
 - Chapter 5: Conclusion
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6. In chapter 5, this book will draw a conclusion about Hsc Physics Oscillation Chapter Notes. This chapter will summarize the key points that have been discussed throughout the book.

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