

Physics

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(Chapter 14) (Oscillations) (Exercises)
(Class 11)

Answer 14.13:

(a) When a force F , is applied to the free end of the spring, an extension l , is produced. For the maximum extension, it can be written as:

$$F = kl$$

Where, k is the spring constant.

Hence, the maximum extension produced in the spring, $l = \frac{F}{k}$

(b) For the two block system:

The displacement (x) produced in this case is $x = \frac{1}{2}$

Net force, $F = +2kx = 2k \frac{1}{2}$

$$\therefore l = \frac{F}{K}$$

For the one block system:

For mass (m) of the block, force is written as: $F = ma = m \frac{d^2x}{dt^2}$

Where, x is the displacement of the block in time t .

$$\therefore m \frac{d^2x}{dt^2} = -kx$$

It is negative because the direction of elastic force is opposite to the direction of displacement.

$$\frac{d^2x}{dt^2} = -\left(\frac{k}{m}\right)x = -\omega^2 x, \text{ Where, } \omega^2 = \frac{k}{m}$$

Where, ω is angular frequency of the oscillation

$$\therefore \text{Time period of the oscillation, } T = \frac{2\pi}{\omega} = \frac{2\pi}{\sqrt{\frac{k}{m}}} = 2\pi \sqrt{\frac{m}{k}}$$

For the two block system:

$$F = m \frac{d^2x}{dt^2} \Rightarrow m \frac{d^2x}{dt^2} = -2kx$$

It is negative because the direction of elastic force is opposite to the direction of displacement.

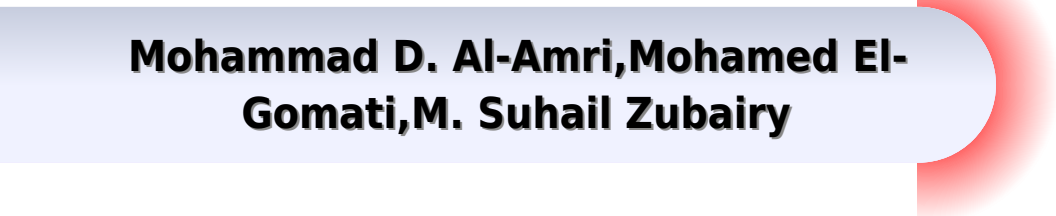
Where,

$$\text{Angular frequency, } \omega = \sqrt{\frac{2k}{m}}$$

$$\therefore \text{Time period, } T = \frac{2\pi}{\omega} = 2\pi \sqrt{\frac{m}{2k}}$$

Chapter 14 Physics Answers

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