



PROBLEM 19.11

A 2 kg block is supported as shown by a spring of constant $k = 400 \text{ N/m}$, which can act in tension or compression. The block is in its equilibrium position when it is struck from below by a hammer, which imparts to the block an upward velocity of 2.5 m/s . Determine (a) the time required for the block to move 100 mm upward, (b) the corresponding velocity and acceleration of the block.

SOLUTION

Simple harmonic motion.

$$x = x_m \sin(\omega_n t + \phi)$$

Natural frequency:

$$\omega_n = \sqrt{\frac{k}{m}}, \quad k = 400 \text{ N/m}$$

$$\omega_n = \sqrt{\frac{400 \text{ N/m}}{2}}$$

$$\omega_n = 10\sqrt{2} = 14.1421 \text{ rad/s}$$

$$x(0) = 0 = x_m \sin(0 + \phi)$$

$$\phi = 0$$

$$\dot{x}(0) = x_m \omega_n \cos(0 + 0)$$

$$\dot{x}(0) = 2.5 \text{ m/s}$$

$$2.5 = x_m (14.1421) \quad x_m = 0.17678 \text{ m}$$

$$x = (0.17678) \sin(14.1421 t) \text{ (m/s)} \quad (1)$$

(a) Time at $x = 100 \text{ mm}$ ($x = 0.1 \text{ m}$)

$$0.1 = 0.17678 \sin(14.1421 t)$$

$$t = \frac{\sin^{-1}\left(\frac{0.1}{0.17678}\right)}{14.1421} = 0.04252 \text{ s}$$

$$t = 0.046 \text{ s} \quad \blacktriangleleft$$

Note: Since ω is in rad/s, convert the argument of \sin^{-1} to radians.

(b) Velocity and acceleration.

$$\dot{x} = x_m \omega_n \cos(\omega_n t)$$

$$\ddot{x} = -x_m \omega_n^2 \sin \omega_n t$$

$$t = 0.04252$$

$$\dot{x} = (0.17678)(14.1421) \cos[(14.1421)(0.04252)]$$

$$\dot{x} = 2.0615 \text{ m/s} \quad \mathbf{v} = 2.06 \text{ m/s} \uparrow \quad \blacktriangleleft$$

$$\ddot{x} = -(0.1768)(14.1421)^2 \sin[(14.1421)(0.04252)]$$

$$= -20 \text{ m/s}^2 \quad \mathbf{a} = 20.0 \text{ m/s}^2 \downarrow \quad \blacktriangleleft$$



Dynamics Vibrations Solution Manual

Yi-Tong Ma



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