

## Problem 1: Mass on a spring

A 2 kg mass, attached to a spring with spring constant 200 N/m, oscillates on a horizontal, frictionless surface. The total energy in the oscillator is 0.25 J. The equilibrium position of the oscillator is at  $x = 0$ .



A. Determine the angular frequency of the oscillator.

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

$$= \sqrt{\frac{(200)}{(2)}} = 10 \text{ rad/s}$$

B. Determine the amplitude of the oscillation?

$$E_{\text{total}} = \frac{1}{2} k A^2 = 0.25 \text{ J}$$

$$\rightarrow A = \sqrt{\frac{(2 \cdot 0.25)}{200}} = 0.05 \text{ m}$$

C. What is the period of the oscillation?

$$\omega^2 = \frac{k}{m} \quad \omega = \frac{2\pi}{T}$$

$$\sqrt{\left(\frac{2\pi}{T}\right)^2} = \sqrt{\frac{200}{2}}$$

$$T = \frac{2\pi}{\omega} = \frac{2\pi}{10} = 0.63 \text{ seconds}$$

D. Determine the speed of the mass when it passes its equilibrium position.

$$\frac{1}{2} m v^2 = 0.25$$

$$v = \sqrt{\frac{2 \cdot (0.25)}{2 \text{ kg}}} = 0.5 \text{ m/s}$$

E. At what position is the potential energy of the oscillator equal to its kinetic energy?

$$2 \cdot \frac{1}{2} k x^2 = 0.125 \text{ J} \cdot 2$$

$$\sqrt{\frac{k x^2}{k}} = \sqrt{\frac{0.125 \cdot 2}{k}} \rightarrow \sqrt{\frac{2 \cdot (0.125)}{200}} = 0.035 \text{ m}$$

# Physics Principles And Problems Ch14 Answers

**Tao Wei**



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In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Physics Principles And Problems Ch14 Answers**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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