

Simple Harmonic Motion

1. Define Simple Harmonic Motion.

When an object's acceleration is directly proportional to its displacement but in the opposite direction.

2. A grandfather clock has a simple pendulum, which is 1.5 m long. Calculate the period and hence the frequency of the pendulum.

$$T = 2\pi \sqrt{\frac{l}{g}} = 2\pi \sqrt{\frac{1.5}{9.81}} = 2.456919 \dots = 2.46 \text{ s}$$

3. A simple pendulum of length "l" has a periodic time of T_1 seconds. What is the periodic time, T_2 , of a pendulum whose length is 2l?

$$T_1 = 2\pi \sqrt{\frac{l}{g}} \text{ and } T_2 = 2\pi \sqrt{\frac{2l}{g}} = 2\pi\sqrt{2} \sqrt{\frac{l}{g}} = \sqrt{2}T_1$$

4. a) A spring, natural length 30 cm is 35 cm long when a mass of 200 g is suspended from it. What is the spring constant?

$$F = k\Delta L \Rightarrow k = \frac{F}{\Delta L} = \frac{mg}{\Delta L} = \frac{0.2 \times 9.81}{0.05} = 39.24 = 39 \text{ Nm}^{-1}$$

When the mass is pulled down 2.0 cm and released the spring/mass system oscillates with simple harmonic motion.

b) What is the time period of the oscillations?

$$T = 2\pi \sqrt{\frac{m}{k}} = 2\pi \sqrt{\frac{0.2}{39.24}} = 0.44857 \dots = 0.45 \text{ s}$$

Simple Harmonic Motion Questions And Answers

J Dewey



Simple Harmonic Motion Questions And Answers:

Unveiling the Energy of Verbal Beauty: An Mental Sojourn through **Simple Harmonic Motion Questions And Answers**

In a world inundated with displays and the cacophony of instant transmission, the profound energy and emotional resonance of verbal artistry usually disappear into obscurity, eclipsed by the constant barrage of sound and distractions. However, situated within the lyrical pages of **Simple Harmonic Motion Questions And Answers**, a fascinating function of literary brilliance that impulses with raw emotions, lies an unforgettable journey waiting to be embarked upon. Composed with a virtuoso wordsmith, this mesmerizing opus courses readers on an emotional odyssey, softly exposing the latent possible and profound affect embedded within the delicate web of language. Within the heart-wrenching expanse of the evocative examination, we will embark upon an introspective exploration of the book is key subjects, dissect their charming publishing style, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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