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CHAPTER 11: Vibrations and Waves

Answers to Questions 1. The blades in an electric shaver vibrate, approximately in SHM. The speakers in a stereo system vibrate, but usually in a very complicated way since many notes are

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being sounded at the same time. A piano string vibrates when struck, in approximately SHM.

CHAPTER 11: Vibrations and Waves

CHAPTER 11 VIBRATIONS AND WAVES ...

Continuous waves start with vibrations too. If the vibration is SHM, then the wave will be sinusoidal. ... 11 Energy

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Transported by Waves Just as with the oscillation that starts it, the energy transported by a wave is proportional to the

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Chapter 11 Vibrations and Waves.
simple harmonic motion. Amplitude (A)

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period. frequency. vibration about an equilibrium position in which a restoring f.... distance from the origin to the trough or crest; the maximum d.... the time required for one complete cycle of a periodic motion....

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CHAPTER 11 VIBRATION AND WAVES
INTERNET QUESTIONS 1 - 30 CONCEPT
QUESTIONS 1 - 6 Robert Hooke
(1635-1703) SIMPLE HARMONIC MOTION
1. If a particle undergoes SHM with
amplitude 0.18 m, what is the total
distance it travels in one period? 2. An
elastic cord is 65 cm long when a weight
of 75 N hangs from it but is 85 cm long

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CHAPTER 11

Chapter Eleven [Vibrations and Waves]
Chapter Twelve [Sound] Chapter
Thirteen [Light and Reflection] Chapter
Fourteen [Refraction] Physics Videos You
Should Watch: ... 11.3 Properties of
waves. Damped harmonic motion Driven
harmonic motion. Coupled harmonic

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motion . 11.4 Wave interactions.

Chapter Eleven [Vibrations and Waves] - Wattsburg

Physics Chapter 12--Vibrations and Waves Study Guide Multiple Choice Identify the choice that best completes the statement or answers the question.

___ 1. Tripling the displacement from

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equilibrium of an object in simple harmonic motion will change the magnitude of the object's maximum acceleration by what factor? a. one-third c. 3 b. 1 d. 9

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Chapter 11 - Vibrations and waves - Mr. Stumler ...

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Answers to Questions 2. The acceleration of a simple harmonic oscillator is zero whenever the oscillating object is at the equilibrium position. 5. The maximum speed is given by $v_{\text{max}} = A \omega = A \sqrt{k/m}$. Various combinations of changing A , k , and/or m can result in a doubling of the maximum speed.

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CHAPTER 11: Vibrations and Waves

Answers to Questions

Chapter 11: Vibrations and Waves!

Chapter 12: Sound" Section 12.2" Sound Intensity and Resonance" 11/29/2007"

Sound Intensity"--Work is done on air molecules when a vibrating object creates sound waves.--Since work is

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done, energy is transferred to! the molecules; the object eventually stops!

Physics Chapter 11: Vibrations and Waves Chapter 12: Sound

Chapter 11: Vibrations and Waves

Online textbook: Oscillatory Motion and Waves. SHO SHO with energy bars

Vertical SHO with energy bars

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Resonance Dan Russell's Web Pages
Longitudinal and Transverse Waves
Waves On a String Superposition of
Waves "Snapshot" and "History" plots:
Can you figure them out?

Chapter 11: Vibrations and Waves - Mr Swackhamer's Classes

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Damped Harmonic Motion In simple harmonic motion, an object oscillates with a constant amplitude. In reality, friction or some other energy dissipating mechanism is always present and the amplitude decreases as time passes. This is referred to as a damped harmonic'

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Chapter(11

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Section 1 Simple Harmonic Motion.

Simple harmonic motion. Vibration = oscillation = back and forth motion of an object. Periodic motion = Vibration or Oscillation that regularly repeats itself.

Motion of an object that . regularly returns. to a given position after a fixed

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time interval.

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Chapter 11 Vibrations and Waves. 11-1
Simple Harmonic Motion If an object
vibrates or oscillates back and forth over
the same path, each cycle taking the
same amount of time, the motion is

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called periodic. The mass and spring system is a useful model for a periodic system.

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Answers to Questions 1. The blades in an electric shaver vibrate, approximately

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in SHM. The speakers in a stereo system vibrate, but usually in a very complicated way since many notes are being sounded at the same time. A piano string vibrates when struck, in approximately SHM.

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Answers to Questions

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Chapter 1 GHP; Chapter 2: Motion in One Dimension; Chapter 3: Motion in Two Dimensions; 2nd Rating Period: Chapters 4 – 6. Chapter 4: Forces and Newton's Laws; Chapter 5: Work & Energy; Chapter 6: Momentum & Collisions; 3rd Rating Period: Chapters 7, 11 & 12. Chapter 7: Circular Motion and Gravitation; Chapter 11: Vibrations and

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Waves ...

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Problems 11-1 to 11-3 Simple Harmonic

Motion 2. (I) An elastic cord is 65 cm long when a weight of 75 N hangs from it but is 85 cm long when a weight of 180 N hangs from it. What is the

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“spring” constant k of this elastic cord?
4. (II) A fisherman’s scale stretches 3.6 cm when a 2.7-kg fish hangs from it.

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waves ...

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In the next chapter, students will find that sound waves are longitudinal. Later they will study the properties of light waves, which are transverse. Have students work through the derivation

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before showing them the steps on this slide. ... ++Vibrations and WavesChapter 11 2. +11.1 Simple Harmonic Motion

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