
Conceptual Physics

Chapter 25

Vibrations And

Waves Summary

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*OMB No.
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SHARP GAVIN

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Vibrations and Waves.
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PLAY. Vibration. An
oscillation, or repeating
back-and-forth motion,

about an equilibrium position. Wave. A disturbance that repeats regularly in space and time that is transmitted progressively from one place to the next with no actual transport of matter. Conceptual Physics - Chapter 25: Vibrations and Waves ... Start studying Conceptual Physics: Chapter 25 - Vibrations and Waves. Learn vocabulary, terms, and more with flashcards, games, and other study tools. Conceptual Physics: Chapter 25 - Vibrations and Waves ... A type of wave that vibrates perpendicular (or in right angles) to the direction that the energy is being transferred in (that the wave is traveling in). Conceptual Physics - Chapter 25 (Waves and Vibrations ... Name

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chapter 27: light
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chapter 31: diffraction and interference
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Practice Page 25.2
Wave Description 25
Vibrations and Waves
The Parts of a Wave
A weight attached to a spring undergoes simple harmonic motion. A marking pen attached to the bob traces a sine curve on a sheet of paper that is moving horizontally at constant speed. A sine curve is a pictorial representation of a wave.

25.2 Wave Description 25
Vibrations and Waves 25
Vibrations and Waves 25.1
Vibration of a Pendulum
800 J 200 W
6 kW 2:1 250 N
Block on A reaches bottom first; greater acceleration and less ramp distance.

Although it will have the same speed at bottom, the time it takes to reach that speed is different!

10 10
Concept-Development 9-1
Practice Page
Standing Waves

Different modes of vibration can be produced in the same medium under different conditions.

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The easiest standing wave to produce has one segment. Shaking the rope with twice the frequency will produce a standing wave with two segments.

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easiest standing wave
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The distance between the balls decreases.

The wavelength decreases, just as the distance between the balls in Question 5 decreases. 30 m 30 cm 1 m/s

25 Vibrations and Waves
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25.2 Wave Description

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