

Vibrations and Waves

Problems

Motion

pages 375–380

page 376

1. A mass-spring system is stationary for stretches of spring 0.275 m when the spring constant is 975 N/m.

$$\begin{aligned} F &= kx \\ &= (975 \text{ N/m})(0.275 \text{ m}) \\ &= 268 \text{ N} \end{aligned}$$

2. A spring has a spring constant of 56 N/m. How far will it stretch when a block weighing 3.6 N is hung from the end?

$$\begin{aligned} F &= kx \\ x &= \frac{F}{k} = \frac{3.6 \text{ N}}{56 \text{ N/m}} = 0.064 \text{ m} \end{aligned}$$

3. What is the spring constant of a spring that stretches 1.2 cm when an object weighing 2.4 N is hung from it?

$$\begin{aligned} F &= kx \\ k &= \frac{F}{x} \\ &= \frac{2.4 \text{ N}}{0.012 \text{ m}} \\ &= 2.0 \times 10^2 \text{ N/m} \end{aligned}$$

4. A spring with a spring constant of 144 N/m is compressed by a distance of 3.5 cm. How much elastic potential energy is stored in the spring?

$$\begin{aligned} PE_{\text{el}} &= \frac{1}{2}kx^2 \\ &= \frac{1}{2}(144 \text{ N/m})(0.035 \text{ m})^2 = 0.86 \text{ J} \end{aligned}$$

5. A spring has a spring constant of 256 N/m. How far must it be stretched to give it an elastic potential energy of 4.0 J?

$$PE_{\text{el}} = \frac{1}{2}kx^2$$

$$x = \sqrt{\frac{2PE_{\text{el}}}{k}} = \sqrt{\frac{2(4.0 \text{ J})}{256 \text{ N/m}}} = 0.089 \text{ m}$$

page 379

6. What is the period of a pendulum with a length of 1.0 m?

$$T = 2\pi\sqrt{\frac{L}{g}} = 2\pi\sqrt{\frac{1.0 \text{ m}}{9.8 \text{ m/s}^2}} = 2.0 \text{ s}$$

7. A large clock pendulum, when at rest, has a period of 2 s.

$$\begin{aligned} T &= 2\pi\sqrt{\frac{L}{g}} \\ L &= g\left(\frac{T}{2\pi}\right)^2 = (9.8 \text{ m/s}^2)\left(\frac{2 \text{ s}}{2\pi}\right)^2 = 0.99 \text{ m} \end{aligned}$$

8. On a planet with an unknown value of g , the period of a 0.75-m-long pendulum is 1.8 s. What is g for this planet?

$$\begin{aligned} T &= 2\pi\sqrt{\frac{L}{g}} \\ g &= g\left(\frac{T}{2\pi}\right)^2 = (9.8 \text{ m/s}^2)\left(\frac{0.75 \text{ s}}{1.8 \text{ s}}\right)^2 = 3.7 \text{ m/s}^2 \end{aligned}$$

Section Review

14.1 Periodic Motion

pages 375–380

page 380

9. Hooke's Law: Two springs both obey Hooke's Law with different spring constants. How could you determine which one has the greater spring constant?

Using the same object from both springs. The one that stretches less has the greater spring constant.

10. Hooke's Law: Effects of various weights are being from a rubber band that is suspended from a hook. The weights of the objects are plotted on a graph against the

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Cornelius Rea



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Table of Contents Chapter 14 Study Guide Vibrations Waves Answers

1. Understanding the eBook Chapter 14 Study Guide Vibrations Waves Answers
 - The Rise of Digital Reading Chapter 14 Study Guide Vibrations Waves Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 14 Study Guide Vibrations Waves Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter 14 Study Guide Vibrations Waves Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 14 Study Guide Vibrations Waves Answers

- Personalized Recommendations
- Chapter 14 Study Guide Vibrations Waves Answers User Reviews and Ratings
- Chapter 14 Study Guide Vibrations Waves Answers and Bestseller Lists
- 5. Accessing Chapter 14 Study Guide Vibrations Waves Answers Free and Paid eBooks
 - Chapter 14 Study Guide Vibrations Waves Answers Public Domain eBooks
 - Chapter 14 Study Guide Vibrations Waves Answers eBook Subscription Services
 - Chapter 14 Study Guide Vibrations Waves Answers Budget-Friendly Options
- 6. Navigating Chapter 14 Study Guide Vibrations Waves Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 14 Study Guide Vibrations Waves Answers Compatibility with Devices
 - Chapter 14 Study Guide Vibrations Waves Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 14 Study Guide Vibrations Waves Answers
 - Highlighting and Note-Taking Chapter 14 Study Guide Vibrations Waves Answers
 - Interactive Elements Chapter 14 Study Guide Vibrations Waves Answers
- 8. Staying Engaged with Chapter 14 Study Guide Vibrations Waves Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 14 Study Guide Vibrations Waves Answers
- 9. Balancing eBooks and Physical Books Chapter 14 Study Guide Vibrations Waves Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 14 Study Guide Vibrations Waves Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 14 Study Guide Vibrations Waves Answers
 - Setting Reading Goals Chapter 14 Study Guide Vibrations Waves Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 14 Study Guide Vibrations Waves Answers

- Fact-Checking eBook Content of Chapter 14 Study Guide Vibrations Waves Answers
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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