

Practice Problems

14.1 Periodic Motion
pages 375–380

page 378

1. How much force is necessary to stretch a spring 0.25 m when the spring constant is 95 N/m?

$$\begin{aligned} F &= kx \\ &= (95 \text{ N/m})(0.25 \text{ m}) \\ &= 24 \text{ N} \end{aligned}$$

2. A spring has a spring constant of 56 N/m. How far will it stretch when a block weighing 18 N is hung from its end?

$$\begin{aligned} F &= kx \\ x &= \frac{F}{k} = \frac{18 \text{ N}}{56 \text{ N/m}} = 0.32 \text{ m} \end{aligned}$$

3. What is the spring constant of a spring that stretches 12 cm when an object weighing 24 N is hung from it?

$$\begin{aligned} F &= kx \\ k &= \frac{F}{x} \\ &= \frac{24 \text{ N}}{0.12 \text{ m}} \\ &= 2.0 \times 10^2 \text{ N/m} \end{aligned}$$

4. A spring with a spring constant of 144 N/m is compressed by a distance of 16.5 cm. How much elastic potential energy is stored in the spring?

$$\begin{aligned} PE_{\text{sp}} &= \frac{1}{2} kx^2 \\ &= \frac{1}{2} (144 \text{ N/m})(0.165 \text{ m})^2 = 1.96 \text{ J} \end{aligned}$$

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 48 J?

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

$$x = \sqrt{\frac{2PE_{\text{sp}}}{k}} = \sqrt{\frac{(2)(48 \text{ J})}{256 \text{ N/m}}} = 0.61 \text{ m}$$

page 379

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

$$T = 2\pi \sqrt{\frac{l}{g}} = 2\pi \sqrt{\frac{1.0 \text{ m}}{9.80 \text{ m/s}^2}} = 2.0 \text{ s}$$

7. How long must a pendulum be on the Moon, where $g = 1.6 \text{ m/s}^2$, to have a period of 2.0 s?

$$\begin{aligned} T &= 2\pi \sqrt{\frac{l}{g}} \\ l &= g \left(\frac{T}{2\pi} \right)^2 = (1.6 \text{ m/s}^2) \left(\frac{2.0 \text{ s}}{2\pi} \right)^2 = 0.16 \text{ m} \end{aligned}$$

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?

$$\begin{aligned} T &= 2\pi \sqrt{\frac{l}{g}} \\ g &= l \left(\frac{2\pi}{T} \right)^2 = (0.75 \text{ m}) \left(\frac{2\pi}{1.8 \text{ s}} \right)^2 = 9.1 \text{ m/s}^2 \end{aligned}$$

Section Review

14.1 Periodic Motion
pages 375–380

page 380

9. **Hooke's Law** Two springs look alike but have different spring constants. How could you determine which one has the greater spring constant?

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

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

Physics Chapter 14 Vibrations And Waves Answers

Yicheng Fang



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Table of Contents Physics Chapter 14 Vibrations And Waves Answers

1. Understanding the eBook Physics Chapter 14 Vibrations And Waves Answers
 - The Rise of Digital Reading Physics Chapter 14 Vibrations And Waves Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics Chapter 14 Vibrations And 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 Physics Chapter 14 Vibrations And Waves Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Chapter 14 Vibrations And Waves Answers
 - Personalized Recommendations
 - Physics Chapter 14 Vibrations And Waves Answers User Reviews and Ratings
 - Physics Chapter 14 Vibrations And Waves Answers and Bestseller Lists

5. Accessing Physics Chapter 14 Vibrations And Waves Answers Free and Paid eBooks
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 - ePub, PDF, MOBI, and More
 - Physics Chapter 14 Vibrations And Waves Answers Compatibility with Devices
 - Physics Chapter 14 Vibrations And Waves Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physics Chapter 14 Vibrations And Waves Answers
 - Highlighting and Note-Taking Physics Chapter 14 Vibrations And Waves Answers
 - Interactive Elements Physics Chapter 14 Vibrations And Waves Answers
8. Staying Engaged with Physics Chapter 14 Vibrations And Waves Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics Chapter 14 Vibrations And Waves Answers
9. Balancing eBooks and Physical Books Physics Chapter 14 Vibrations And Waves Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics Chapter 14 Vibrations And Waves Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physics Chapter 14 Vibrations And Waves Answers
 - Setting Reading Goals Physics Chapter 14 Vibrations And Waves Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physics Chapter 14 Vibrations And Waves Answers
 - Fact-Checking eBook Content of Physics Chapter 14 Vibrations And 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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