

Practice Problems

15.1 Properties and Detection of Sound

pages 403–410

page 405

1. Find the wavelength in air at 20°C of an 18-Hz sound wave, which is one of the lowest frequencies that is detectable by the human ear.

$$\lambda = \frac{v}{f} = \frac{343 \text{ m/s}}{18 \text{ Hz}} = 19 \text{ m}$$

2. What is the wavelength of an 18-Hz sound wave in seawater at 25°C?

$$\lambda = \frac{v}{f} = \frac{1533 \text{ m/s}}{18 \text{ Hz}} = 85 \text{ m}$$

3. Find the frequency of a sound wave moving through iron at 25°C with a wavelength of 1.25 m.

$$f = \frac{v}{\lambda} = \frac{5130 \text{ m/s}}{1.25 \text{ m}} = 4.10 \times 10^3 \text{ Hz}$$

4. If you shout across a canyon and hear the echo 0.80 s later, how wide is the canyon?

$$v = \frac{d}{t}$$

$$\text{so } d = vt = (343 \text{ m/s})(0.40 \text{ s}) = 140 \text{ m}$$

5. A 2280-Hz sound wave has a wavelength of 0.655 m in an unknown medium. Identify the medium.

$$\lambda = \frac{v}{f}$$

$$\text{so } v = \lambda f = (0.655 \text{ m})(2280 \text{ Hz}) \\ = 1490 \text{ m/s}$$

This speed corresponds to water at 25°C.

page 409

6. Repeat Example Problem 1, but with the car moving away from you. What frequency would you hear?

$$v_o = -24.6 \text{ m/s}$$

$$f_d = 524 \text{ Hz} \left(\frac{1}{1 - \frac{[-24.6 \text{ m/s}]}{343 \text{ m/s}}} \right) \\ = 489 \text{ Hz}$$

7. You are in an auto traveling at 25.0 m/s toward a pole-mounted warning siren. If the siren's frequency is 365 Hz, what frequency do you hear? Use 343 m/s as the speed of sound.

$$v = 343 \text{ m/s}, f_s = 365 \text{ Hz}, v_o = 0,$$

$$v_d = -25.0 \text{ m/s}$$

$$f_d = f_s \left(\frac{v - v_d}{v - v_o} \right) \\ = (365 \text{ Hz}) \left(\frac{343 \text{ m/s} + 25.0 \text{ m/s}}{343 \text{ m/s}} \right) \\ = 392 \text{ Hz}$$

8. You are in an auto traveling at 55 mph (24.6 m/s). A second auto is moving toward you at the same speed. Its horn is sounding at 475 Hz. What frequency do you hear? Use 343 m/s as the speed of sound.

$$v = 343 \text{ m/s}, f_s = 475 \text{ Hz}, v_o = +24.6 \text{ m/s},$$

$$v_d = -24.6 \text{ m/s}$$

$$f_d = f_s \left(\frac{v - v_d}{v - v_o} \right) \\ = (475 \text{ Hz}) \left(\frac{343 \text{ m/s} + 24.6 \text{ m/s}}{343 \text{ m/s} - 24.6 \text{ m/s}} \right) \\ = 548 \text{ Hz}$$

9. A submarine is moving toward another submarine at 9.20 m/s. It emits a 3.50-MHz ultrasound. What frequency would the second sub, at rest, detect? The speed of sound in water is 1482 m/s.

$$v = 1482 \text{ m/s}, f_s = 3.50 \text{ MHz},$$

$$v_o = 9.20 \text{ m/s}, v_d = 0 \text{ m/s}$$

$$f_d = f_s \left(\frac{v - v_d}{v - v_o} \right)$$

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Table of Contents Pearson Physics 20 Textbook Answers

1. Understanding the eBook Pearson Physics 20 Textbook Answers
 - The Rise of Digital Reading Pearson Physics 20 Textbook Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Pearson Physics 20 Textbook 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 Pearson Physics 20 Textbook Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pearson Physics 20 Textbook Answers
 - Personalized Recommendations
 - Pearson Physics 20 Textbook Answers User Reviews and Ratings
 - Pearson Physics 20 Textbook Answers and Bestseller Lists
5. Accessing Pearson Physics 20 Textbook Answers Free and Paid eBooks
 - Pearson Physics 20 Textbook Answers Public Domain eBooks
 - Pearson Physics 20 Textbook Answers eBook Subscription Services
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7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pearson Physics 20 Textbook Answers
 - Highlighting and Note-Taking Pearson Physics 20 Textbook Answers
 - Interactive Elements Pearson Physics 20 Textbook Answers

8. Staying Engaged with Pearson Physics 20 Textbook Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pearson Physics 20 Textbook Answers
9. Balancing eBooks and Physical Books Pearson Physics 20 Textbook Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pearson Physics 20 Textbook Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Pearson Physics 20 Textbook Answers
 - Setting Reading Goals Pearson Physics 20 Textbook Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Pearson Physics 20 Textbook Answers
 - Fact-Checking eBook Content of Pearson Physics 20 Textbook 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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