

Physical Science: Speed of Sound Calculations

Directions: Solve the following problems. Round approximate answers to 2 digits after the decimal.

Formulas:

$$f(\text{frequency}) = \frac{\text{speed of sound}}{\text{wavelength}}$$

$$\text{speed of sound} = (331.5 + 0.60 \times \text{temperature of air in Celsius}) \text{ m/s}$$

1. A sound wave traveling through 22.3° C air has a wavelength of 9.65 meters. What is the frequency of the sound wave? Answer: _____

2. A jet aircraft is traveling at Mach 2.26 through the air at 9.27 °C. What is the jet's speed in m/sec? Answer: _____

3. What is the frequency of a wave that travels at a speed of 8.99 m/s and has a wavelength of 4.14 m? Answer: _____

4. What is the wavelength of a wave that travels at a speed of 3.67 m/s and has a frequency of 8.32 Hertz? Answer: _____

5. What is the speed of a wave that has a wavelength of 8.89 m and a frequency of 4.59 Hertz? Answer: _____

6. What is the wavelength of a wave that travels at a speed of 72.4 m/s and has a frequency of 11.1 Hertz? Answer: _____

7. What is the frequency of a wave that travels at a speed of 6.28 m/s and has a wavelength of 1.48 m? Answer: _____



Physical Science Sound Calculations

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Table of Contents Physical Science Sound Calculations

1. Understanding the eBook Physical Science Sound Calculations
 - The Rise of Digital Reading Physical Science Sound Calculations
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Sound Calculations
 - 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 Physical Science Sound Calculations
 - User-Friendly Interface

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

12. Sourcing Reliable Information of Physical Science Sound Calculations
 - Fact-Checking eBook Content of Physical Science Sound Calculations
 - 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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