

Properties of Sound

Sound waves are very different from electro-magnetic (EM) radiation.

Sound waves	X-rays
Mechanical energy	EM radiation
Requires a medium	Can travel in a vacuum
Longitudinal wave: particles in the medium move back and forth parallel to the direction the wave is travelling	Transverse wave: electric and magnetic component oscillating at right angles to each other, and to the direction of propagation
Variable velocity	Constant velocity

Anatomy of a Sound Wave

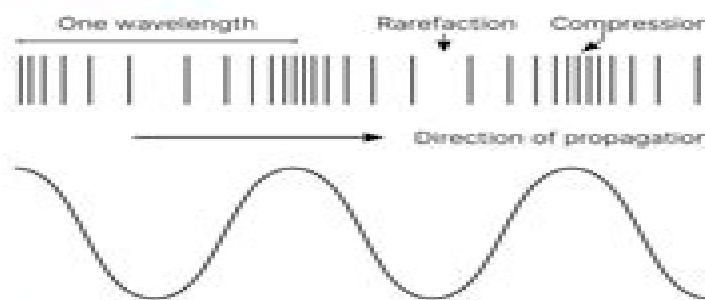


Figure 91 Anatomy of a sound wave

As the sound wave passes through material the particles vibrate back and forth. In some areas the particles are close together (compression) and in others they are further

apart (rarefaction). A sound wave can also be represented sinusoidally with the peaks and troughs of the wave corresponding to the areas of maximum compression and rarefaction.

1) Frequency

The audible range of sound waves for humans is 20 to 20,000 Hz. 1 Hz is 1 wavelength per second. Medical ultrasound uses frequencies of **2-18 MHz** (1 MHz = 1 million Hz) i.e. above the range of human hearing..

2) Velocity

The velocity of a sound wave is dependent on, and constant for, the material through which the wave is passing.

$$c = \sqrt{k / \rho}$$

Where: c = speed

k = rigidity

ρ = density

From the above equation, the speed of the sound wave increases with increasing rigidity and decreasing density. It travels the slowest in air as the material is so compressible that a lot of energy is lost between the particles. The important number to learn is that for soft tissues the speed is around 1540 m/s. Ultra-

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Raymond A. Serway, Steven Van Wyk

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Table of Contents Study Guide Properties Of Sound Physics Answers

1. Understanding the eBook Study Guide Properties Of Sound Physics Answers
 - The Rise of Digital Reading Study Guide Properties Of Sound Physics Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide Properties Of Sound Physics 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 Study Guide Properties Of Sound Physics Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide Properties Of Sound Physics Answers
 - Personalized Recommendations
 - Study Guide Properties Of Sound Physics Answers User Reviews and Ratings
 - Study Guide Properties Of Sound Physics Answers and Bestseller Lists

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