

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

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..

Anatomy of a Sound Wave

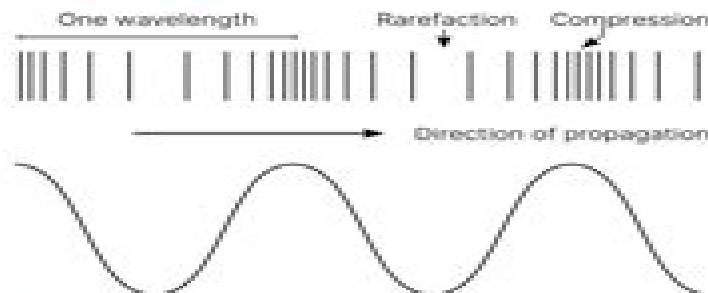


Figure 91. Anatomy of a sound wave

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

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-

15 Study Guide Properties Of Sound

David G. Myers, Richard O. Straub



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Study Guide and Laboratory Exercises for Technology for Diagnostic Sonography - E-Book Wayne R.

Hedrick,Paul R. Wagner,2016-06-24 Gain a firm foundation for sonography practice Corresponding to the chapters in Hedrick s Technology for Diagnostic Sonography this study guide focuses on basic concepts to help you master sonography physics and instrumentation It includes laboratory exercises designed to teach you how to operate a scanner and comprehensive review questions allow you to assess your knowledge Not only will you learn the theoretical knowledge that is the basis for ultrasound scanning but also the practical skills necessary for clinical practice Laboratory exercises teach you the function of operator controls and how to optimize image quality and practice ALARA and include step by step instructions for scanner operation for hands on application and practice 250 review questions help you assess your understanding of sonography physics and instrumentation and identify areas of knowledge that may need further study Key Points at the beginning of each chapter emphasize the most important sonography principles that you need to understand and apply

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