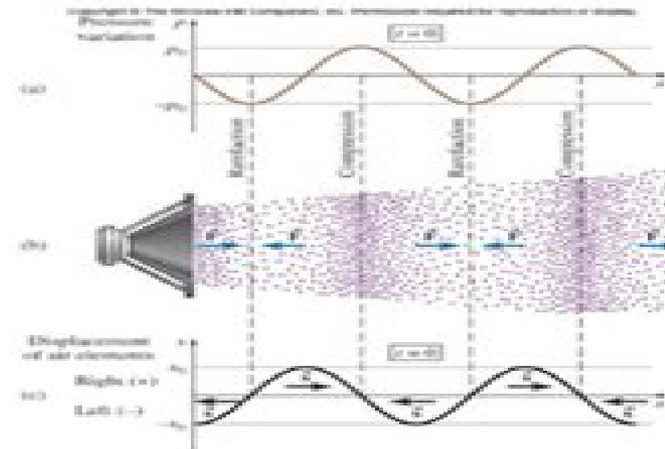


Chapter 12 Sound Waves

We study the properties and detection of a particular type of wave – sound waves.

A speaker generates sound. The density of the air changes as the wave propagates.



The range of frequencies that can be heard by humans is typically taken to be between 20 Hz and 20,000 Hz. Most people struggle to hear the highest frequencies and that ability lessens with age.

Speed of Sound

Recall

$$v = \sqrt{\frac{\text{Restoring Force}}{\text{Inertia}}}$$

In fluids

$$v = \sqrt{\frac{B}{\rho}}$$

The speed of the wave in a fluid (especially air) depends on temperature. In solids

$$v = \sqrt{\frac{Y}{\rho}}$$

SKIP Equations 12-6 and 12-7 on pressure and sound intensity.

Chapter 12 Sound Waves Answer Key

Paul Orland



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