

Why does sound travel?

PowerKids Press - Does Sound Travel Up or Down? Noise Explained

Speed of Sound

- The speed of sound depends upon the material the sound is traveling.
- Sound travels faster in a solid than in air.
- Sound requires a medium to travel. As a result, sound DOES NOT travel in a vacuum.

Material	Sound speed (m/sec)
Air	330
Helium	965
Water	1530
Wood (average)	2000
Gold	3240
Steel	5940

Description: -

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Theater -- Poland

Polish drama.

Noise -- Miscellanea -- Juvenile literature

Sound -- Miscellanea -- Juvenile literature Why does sound travel?

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Solving science mysteries Why does sound travel?

Notes: Includes index.

This edition was published in 2010



Filesize: 10.810 MB

Tags: #acoustics

Why Does Sound Travel Faster In Solids?

This equation has a standard error of 0. On a calm day, a synchronized pocket watch would be given to an assistant who would fire a shotgun at a pre-determined time from a conspicuous point some miles away, across the countryside. It is more quiet near the wall than away from it.

Does Sound Travel Up or Down? Noise Explained

Some textbooks mistakenly state that the speed of sound increases with density. And of course, as mentioned below, in the far field all frequencies obey the inverse square law.

How Sound Travels Under Water

In the SOFAR channel, the speed of sound is lower than that in the layers above and below. Aircraft, however, operate using pressure differential to compute Mach number, not temperature. The energy is picked up by and travels through the air until it collides with a solid object and passes into the space beyond it.

acoustics

Air, a mixture of oxygen and nitrogen, constitutes a non-dispersive medium

Why does sound get weaker as it travels?

The much larger, lower-pitch waves aren't affected as much by the little water-waves because they hit a much wider area on the water's surface. This helps transmit the energy in-turn to the neighboring sphere's springs bonds, and so on.

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