

Chapter 13

Vibrations and Waves

Answers to Even Numbered Conceptual Questions

4. To understand how we might have anticipated this similarity in speeds, consider sound as a motion of air molecules in a certain direction superimposed on the random, high speed, thermal molecular motions predicted by kinetic theory. Individual molecules experience billions of collisions per second with their neighbors, and as a result, do not travel very far in any appreciable time interval. With this interpretation, the energy of a sound wave is carried as kinetic energy of a molecule and transferred to neighboring molecules by collision. Thus, the energy transmitted by a sound wave in, say, a compression, travels from molecule to molecule at about the rms speed, or actually somewhat less, as observed, since multiple collisions slow the process a bit.
6. Friction. This includes both air-resistance and damping within the spring.
12. The speed of the pulse is $v = \sqrt{F/\mu}$, so increasing the tension F in the hose increases the speed of the pulse. Filling the hose with water increases the mass per unit length μ , and will decrease the speed of the pulse.
16. If the tension remains the same, the speed of a wave on the string does not change. This means, from $v = \lambda f$, that if the frequency is doubled, the wavelength must decrease by a factor of two.
18. The speed of a wave on a string is given by $v = \sqrt{F/\mu}$. This says the speed is independent of the frequency of the wave. Thus, doubling the frequency leaves the speed unaffected.

Physics Study Guide Vibrations And Waves Answers

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