

Holt Physics

Problem 13A**INTENSITY OF SOUND WAVES****PROBLEM**

Your friend whistles a secret to you with a power output of $2.00 \times 10^{-2} \text{ W}$. If the whistle has a sound intensity of $4.1 \times 10^{-10} \text{ W/m}^2$, how far are you from your friend?

SOLUTION

Given: Intensity = $4.1 \times 10^{-10} \text{ W/m}^2$ $P = 2.00 \times 10^{-2} \text{ W}$

Unknown: $r = ?$

Choose the equation(s) or situation.

Use the equation for the intensity of a spherical wave.

$$\text{Intensity} = \frac{P}{4\pi r^2}$$

$$r = \sqrt{\frac{P}{4\pi(\text{Intensity})}} = \sqrt{\frac{2.00 \times 10^{-2} \text{ W}}{4\pi(4.1 \times 10^{-10} \text{ W/m}^2)}} = \boxed{0.20 \text{ m}}$$

ADDITIONAL PRACTICE

- Your friend tells you about what happened last weekend with a power output of $5.68 \times 10^{-2} \text{ W}$ and a sound intensity of $5.9 \times 10^{-10} \text{ W/m}^2$. How far are you from your friend?
- The power output of heavy street traffic is $1.50 \times 10^3 \text{ W}$. At what distance is the sound intensity of the traffic $5.20 \times 10^{-7} \text{ W/m}^2$?
- A subway train in New York City produces sound with a power output of 4.28 W and an intensity of $7.1 \times 10^{-7} \text{ W/m}^2$. How far are you from the subway train?
- A loud clap of thunder has a power output of 151 kW and a sound intensity of 0.025 W/m^2 . How far are you from the thunder's source?
- What is the intensity of the sound waves produced by the jet engine of a plane taking off at a distance of 3.2 m when the power radiated as sound from the engine is 400 W ? Assume that the sound waves are spherical.
- Calculate the intensity of the sound waves from a car stereo at a distance of 0.50 m when the sound has power output of 3.5 W .
- At a maximum level of loudness, the power output of portable radio-headphones radiated as sound is $2.76 \times 10^{-2} \text{ W}$. What is the intensity of these sound waves to a jogger whose ear is 5.0 cm from the headphone's speaker?

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Holt, Rinehart and Winston Staff



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