

Holt Physics

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

Your friend whispers a secret to you with a power output of $2.05 \times 10^{-10} \text{ W}$. If the whisper has a sound intensity $4.1 \times 10^{-10} \text{ W/m}^2$, how far are you from your friend?

SOLUTION

Given: $\text{Intensity} = 4.1 \times 10^{-10} \text{ W/m}^2$ $P = 2.05 \times 10^{-10} \text{ W}$

Unknown: $r = ?$

Choose the equation(s) or situation:

Use the equation for the intensity of a spherical wave.

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

$$r = \sqrt{\frac{P}{4\pi(\text{Intensity})}} = \sqrt{\frac{2.05 \times 10^{-10} \text{ W}}{(4\pi)(4.1 \times 10^{-10} \text{ W/m}^2)}} = \boxed{0.20 \text{ m}}$$

ADDITIONAL PRACTICE

1. Your friend tells you about what happened last weekend with a power output of $5.88 \times 10^{-5} \text{ W}$ and a sound intensity of $3.9 \times 10^{-6} \text{ W/m}^2$. How far are you from your friend?
2. The power output of heavy street traffic is $1.57 \times 10^{-3} \text{ W}$. At what distance is the sound intensity of the traffic $3.20 \times 10^{-3} \text{ W/m}^2$?
3. A subway train in New York City produces sound with a power output of 4.80 W and an intensity of $7.2 \times 10^{-2} \text{ W/m}^2$. How far are you from the subway train?
4. 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?
5. What is the intensity of the sound waves produced by the jet engine of a plane taking off at a distance of 32 m when the power radiated as sound from the engine is 402 W ? Assume that the sound waves are spherical.
6. 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 .
7. 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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Jin-Ying Zhang



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