

Holt Physics

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

Sören Walkert of Sweden reportedly screams loudly, with a sound intensity of $4.5 \times 10^{-6} \text{ W/cm}^2$. Suppose the intensity of Walkert's screams are measured 0.60 m from his mouth. What is the power associated with the sound wave?

SOLUTION

Given: Intensity = $4.5 \times 10^{-6} \text{ W/cm}^2$
 $r = 0.60 \text{ m}$

Unknown: $P = ?$

Use the equation for the intensity of a spherical wave.

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

$$P = 4\pi r^2 (\text{Intensity}) = 4\pi (0.60 \text{ m})^2 (4.5 \times 10^{-6} \text{ W/cm}^2)$$

$$P = \boxed{2.0 \times 10^{-3} \text{ W}}$$

ADDITIONAL PRACTICE

1. Blue whales are the loudest creatures; they can emit sound waves with an intensity of $3.0 \times 10^{-2} \text{ W/cm}^2$. If this intensity is measured 4.0 m from its source, what power is associated with the sound wave?
2. The whistling sound that is characteristic of the language known as "whiffo," which is used on the Canary Island of Gomera, is detectable at 8.0 km. Use the spherical wave approximation to find the power of a whistler's sound. Sound intensity at the hearing threshold is $1.0 \times 10^{-12} \text{ W/cm}^2$.
3. Estimate how far away a cicada can be heard if the lowest audible intensity of the sound it produces is $1.0 \times 10^{-12} \text{ W/cm}^2$ and the power of a cicada's sound source is $2.0 \times 10^{-6} \text{ W}$.
4. Howler monkeys, found in Central and South America, can emit a sound that can be heard by a human several miles away. The power associated with the sound is roughly $2.0 \times 10^{-4} \text{ W}$. If the threshold of hearing of a human is assumed to be $1.0 \times 10^{-12} \text{ W/cm}^2$, how far away can a howler monkey be heard?
5. In 1963, Ray Lantieri became the world's loudest whistler; the power of his whistle was $1.0 \times 10^{-4} \text{ W}$. What was the sound's intensity at 2.5 m?
6. In 1988, Steven Robinson produced a sound having an intensity level of $2.5 \times 10^{-10} \text{ W/cm}^2$ at a distance of 2.5 m. What power was associated with Robinson's scream?

Holt Physics Sound Problem 13a Answers

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