

1.1 A 2-kHz sound wave traveling in the x -direction in air was observed to have a differential pressure $p(x, t) = 10 \text{ N/m}^2$ at $x = 0$ and $t = 50 \mu\text{s}$. If the reference phase of $p(x, t)$ is 36° , find a complete expression for $p(x, t)$. The velocity of sound in air is 330 m/s .

Solution: The general form is given by Eq. (1.17),

$$p(x, t) = A \cos \left(\frac{2\pi t}{T} - \frac{2\pi x}{\lambda} + \phi_0 \right),$$

where it is given that $\phi_0 = 36^\circ$. From Eq. (1.26), $T = 1/f = 1/(2 \times 10^3) = 0.5 \text{ ms}$. From Eq. (1.27),

$$\lambda = \frac{v_p}{f} = \frac{330}{2 \times 10^3} = 0.165 \text{ m}.$$

Also, since

$$\begin{aligned} p(x = 0, t = 50 \mu\text{s}) &= 10 \text{ (N/m}^2\text{)} = A \cos \left(\frac{2\pi \times 50 \times 10^{-6}}{5 \times 10^{-4}} + 36^\circ \frac{\pi \text{ rad}}{180^\circ} \right) \\ &= A \cos(1.26 \text{ rad}) = 0.31A, \end{aligned}$$

it follows that $A = 10/0.31 = 32.36 \text{ N/m}^2$. So, with t in (s) and x in (m),

$$\begin{aligned} p(x, t) &= 32.36 \cos \left(2\pi \times 10^3 \frac{t}{500} - 2\pi \times 10^3 \frac{x}{165} + 36^\circ \right) \quad (\text{N/m}^2) \\ &= 32.36 \cos(4\pi \times 10^3 t - 12.12\pi x + 36^\circ) \quad (\text{N/m}^2). \end{aligned}$$

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Table of Contents Harris 8th Edition Solutions Manual

1. Understanding the eBook Harris 8th Edition Solutions Manual
 - The Rise of Digital Reading Harris 8th Edition Solutions Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Harris 8th Edition Solutions Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Harris 8th Edition Solutions Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Harris 8th Edition Solutions Manual
 - Personalized Recommendations
 - Harris 8th Edition Solutions Manual User Reviews and Ratings

- Harris 8th Edition Solutions Manual and Bestseller Lists
- 5. Accessing Harris 8th Edition Solutions Manual Free and Paid eBooks
 - Harris 8th Edition Solutions Manual Public Domain eBooks
 - Harris 8th Edition Solutions Manual eBook Subscription Services
 - Harris 8th Edition Solutions Manual Budget-Friendly Options
- 6. Navigating Harris 8th Edition Solutions Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Harris 8th Edition Solutions Manual Compatibility with Devices
 - Harris 8th Edition Solutions Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Harris 8th Edition Solutions Manual
 - Highlighting and Note-Taking Harris 8th Edition Solutions Manual
 - Interactive Elements Harris 8th Edition Solutions Manual
- 8. Staying Engaged with Harris 8th Edition Solutions Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Harris 8th Edition Solutions Manual
- 9. Balancing eBooks and Physical Books Harris 8th Edition Solutions Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Harris 8th Edition Solutions Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Harris 8th Edition Solutions Manual
 - Setting Reading Goals Harris 8th Edition Solutions Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Harris 8th Edition Solutions Manual
 - Fact-Checking eBook Content of Harris 8th Edition Solutions Manual
 - Distinguishing Credible Sources

-
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 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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