

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  $36^\circ$ , find a complete expression for  $p(x, t)$ . The velocity of sound in air is  $330 \text{ m/s}$ .

**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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# Fundamentals Of Electromagnetics Ulaby Solution Manual

**M Carnoy**



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## **Table of Contents Fundamentals Of Electromagnetics Ulaby Solution Manual**

1. Understanding the eBook Fundamentals Of Electromagnetics Ulaby Solution Manual
  - The Rise of Digital Reading Fundamentals Of Electromagnetics Ulaby Solution Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Fundamentals Of Electromagnetics Ulaby Solution 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 Fundamentals Of Electromagnetics Ulaby Solution Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Fundamentals Of Electromagnetics Ulaby Solution Manual
  - Personalized Recommendations
  - Fundamentals Of Electromagnetics Ulaby Solution Manual User Reviews and Ratings
  - Fundamentals Of Electromagnetics Ulaby Solution Manual and Bestseller Lists
5. Accessing Fundamentals Of Electromagnetics Ulaby Solution Manual Free and Paid eBooks

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- Fundamentals Of Electromagnetics Ulaby Solution Manual eBook Subscription Services
- Fundamentals Of Electromagnetics Ulaby Solution Manual Budget-Friendly Options
- 6. Navigating Fundamentals Of Electromagnetics Ulaby Solution Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Fundamentals Of Electromagnetics Ulaby Solution Manual Compatibility with Devices
  - Fundamentals Of Electromagnetics Ulaby Solution Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Fundamentals Of Electromagnetics Ulaby Solution Manual
  - Highlighting and Note-Taking Fundamentals Of Electromagnetics Ulaby Solution Manual
  - Interactive Elements Fundamentals Of Electromagnetics Ulaby Solution Manual
- 8. Staying Engaged with Fundamentals Of Electromagnetics Ulaby Solution Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Fundamentals Of Electromagnetics Ulaby Solution Manual
- 9. Balancing eBooks and Physical Books Fundamentals Of Electromagnetics Ulaby Solution Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Fundamentals Of Electromagnetics Ulaby Solution Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Fundamentals Of Electromagnetics Ulaby Solution Manual
  - Setting Reading Goals Fundamentals Of Electromagnetics Ulaby Solution Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Fundamentals Of Electromagnetics Ulaby Solution Manual
  - Fact-Checking eBook Content of Fundamentals Of Electromagnetics Ulaby Solution Manual
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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web the control circuit is based on a cmos inverter ic1 type 40106 the motor is switched by a darlington with discrete components t1 t2 ic1a inverter operates as an oscillator whose duty cycle the t2 leads so the motor receives energy is determined by r2 c2 d3 gave the inactive signal oscillator when t2 is blocked is determined by r3 p1

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web the diagram below has two components the normally open temperature switch and the magnetic contactor the three normally closed contacts that represent the olr protection are connected in series with the motor coil and so can be treated as a single device in practice a motor starter often only has two external connection points and all internal

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