

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 Applied Electromagnetics Ulaby Solutions Manual

**Terry C. Jones**



## **Fundamentals Of Applied Electromagnetics Ulaby Solutions Manual:**

The Enigmatic Realm of **Fundamentals Of Applied Electromagnetics Ulaby Solutions Manual**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Fundamentals Of Applied Electromagnetics Ulaby Solutions Manual** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

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