

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 Applied Electromagnetics Solutions Manual

**Nikolaos K. Uzunoglu, Konstantina S.  
Nikita, Dimitra I. Kaklamani**



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

**Fundamentals of Applied Electromagnetics** Umran S. Inan, Aziz S. Inan, 1998 *Applied Electromagnetics* Stuart M. Wentworth, 2025-09-09 A timely and authoritative update to a leading text on the applied electromagnetics of transmission lines In the newly revised second edition of *Applied Electromagnetics Early Transmission Lines Approach* experienced engineer and professor Stuart Wentworth delivers an up to date and authoritative discussion of the electromagnetic foundations of signal transmission The book explains practical applications for wireless systems transmission lines waveguides including optical fiber and antennas Wentworth provides a detailed theoretical grounding of the subject and combines it with hands on MATLAB simulations available on the web that help students understand critical concepts Brand new end of chapter problems at a broad range of difficulty levels Many more drill and example problems Worked solutions provided on the companion website Extensively updated material as well as entirely new material on metamaterials and patch antennas Perfect for undergraduate students of electrical engineering *Applied Electromagnetics Early Transmission Lines Approach* will also benefit researchers and educators in electrical engineering **Fundamental and Applied Nano-Electromagnetics II** Antonio Maffucci, Sergey A. Maksimenko, 2019-06-14 The increasing prevalence of nanotechnologies has led to the birth of nanoelectromagnetics a novel applied science related to the interaction of electromagnetic radiation with quantum mechanical low dimensional systems This book provides an overview of the latest advances in nanoelectromagnetics and presents contributions from an interdisciplinary community of scientists and technologists involved in this research topic The aspects covered here range from the synthesis of nanostructures and nanocomposites to their characterization and from the design of devices and systems to their fabrication The book also focuses on the novel frontier of terahertz technology which has been expanded by the impressive strides made in nanotechnology and presents a comprehensive overview of the synthesis of various nanostructured materials study of their electrical and optical properties use of nano sized elements and nanostructures as building blocks for devices design and fabrication of nanotechnology devices operating in the THz IR and optical range The book introduces the reader to materials like nanocomposites graphene nanoplatelets carbon nanotubes metal nanotubes and silicon nanostructures to devices like photonic crystals microcavities antennas and interconnects and to applications like sensing and imaging with a special emphasis on the THz frequency range **Balanis' Advanced Engineering Electromagnetics** Constantine A. Balanis, 2024-01-31 *Balanis Advanced Engineering Electromagnetics* The latest edition of the foundational guide to advanced electromagnetics Balanis third edition of *Advanced Engineering Electromagnetics* a global best seller for over 30 years covers the advanced knowledge engineers involved in electromagnetics need to know particularly as the topic relates to the fast moving continuously evolving and rapidly expanding field of wireless communications The immense interest in wireless communications and the expected increase in wireless communications systems projects antennas microwaves and wireless

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