

**Fundamentals Of Applied Electromagnetics Solutions**

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Solution:  $x^3 + y^3 + z^3 = 3xyz$  if and only if  $x, y, z$  are equal in magnitude, with  $x, y, z$  pointing along  $45^\circ$  above the  $x$  axis and  $x, y, z$  pointing along  $45^\circ$  below the  $x$  axis. The  $y$  components cancel. Hence,  $x^3 + y^3 + z^3 = 3xyz$  is along  $+x$ . Fawwaz T. Ulaby and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2019 Prentice Hall

**Fundamentals of Applied Electromagnetics**

Write the four fundamental forces of nature and their relative strengths. (1) The nuclear force, which is the strongest but only relevant on subatomic scales. (2) The electromagnetic force, which occurs between charged particles on microscopic scales. It is times as strong as the nuclear force.

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Solution: (a)  $100e^{-10} = 100e^{-5z} = 10e^{-10z}$   $0.5 = \ln 0.1 = -2z$   $z = 4 \ln 2$  m: (b)  $100e^{-5z} = 10e^{-10z}$   $0.5 = \ln 0.1 = -2z$   $z = 4 \ln 2$  m: (c)  $100e^{-5z} = 10e^{-10z}$   $0.5 = \ln 0.1 = -2z$   $z = 4 \ln 2$  m: Fawwaz T. Ulaby and Umberto Ravaioli, Fundamentals of Applied Electromagnetics c 2015 Prentice Hall. Exercise 1.7 Express the following complex functions in polar form:  $z$ .

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Solution: (a) We start by converting the given expression into a cosine function of the form given by (1.17):  $y(x,t) = 2 \cos(4\pi t - 10\pi x)$  p 2 (cm): Since the coefficients of  $t$  and  $x$  both have the same sign, the wave is traveling in the negative  $x$ -direction. (b) From the cosine expression,  $f = 0.5$  p 2.

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Solution: (a) The green wave has an amplitude of 5 V and a period of 8 s. Its peak occurs earlier than that of the red wave; hence, its constant phase angle is positive relative to that of the red wave. A full cycle of 8 s corresponds to  $2\pi$  in phase. The green wave crosses the time axis 1 s sooner than the red wave.

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Covering both statics and dynamics, this book uses many tools to facilitate understanding of EM concepts and to demonstrate their relevance to modern technology. It also provides overviews of fundamental and sophisticated technologies. It is useful for courses in Electromagnetics offered in Electrical Engineering departments and Applied Physics.

Modern technology is rapidly developing and for this reason future engineers need to acquire advanced knowledge in science and technology, including electromagnetic phenomena. This book is a contemporary text of a one-semester course for junior electrical engineering students. It covers a broad spectrum of electromagnetic phenomena such as, surface waves, plasmas, photonic crystals, negative refraction as well as related materials including superconductors. In addition, the text brings together electromagnetism and optics as the majority of texts discuss electromagnetism disconnected from optics. In contrast, in this book both are discussed. Seven labs have been developed to accompany the material of the book.

STUDENT COMPANION SITE Every new copy of Stuart Wentworth's Applied Electromagnetics comes with a registration code which allows access to the Student's Book Companion Site. On the BCS the student will find: \* Detailed Solutions to Odd-Numbered Problems in the text \* Detailed Solutions to all Drill Problems from the text \* MATLAB code for all the MATLAB examples in the text \* Additional MATLAB demonstrations with code. This includes a Transmission Lines simulator created by the author. \* Weblinks to a vast array of resources for the engineering student. Go to [www.wiley.com/college/wentworth](http://www.wiley.com/college/wentworth) to link to Applied Electromagnetics and the Student Companion Site. ABOUT THE PHOTO PASSIVE RFID SYSTEMS, consisting of readers and tags, are expected to replace bar codes as the primary means of identification, inventory and billing of everyday items. The tags typically consist of an RFID chip placed on a flexible film containing a planar antenna. The antenna captures radiation from the reader's signal to power the tag electronics, which then responds to the reader's query. The PENI Tag (Product Emitting Numbering Identification Tag) shown, developed by the University of Pittsburgh in a team led by Professor Marlin H. Mickle, integrates the antenna with the rest of the tag electronics. RFID systems involve many electromagnetics concepts, including antennas, radiation, transmission lines, and microwave circuit components. (Photo courtesy of Marlin H. Mickle.)

This book provides students with a thorough theoretical understanding of electromagnetic field equations and it also treats a large number of applications. The text is a comprehensive two-semester textbook. The work treats most topics in two steps -- a short, introductory chapter followed by a second chapter with in-depth extensive treatment: between 10 to 30 applications per topic; examples and exercises throughout the book; experiments, problems and summaries. The new edition includes: modifications to about 30-40% of the end of chapter problems; a new introduction to electromagnetics based on behavior of charges; a new section on units; MATLAB tools for solution of problems and demonstration of subjects; most chapters include a summary. The book is an undergraduate textbook at the Junior level, intended for required classes in electromagnetics. It is written in simple terms with all details of derivations included and all steps in solutions listed. It requires little beyond basic calculus and can be used for self-study. The wealth of examples and alternative explanations makes it very approachable by students. More than 400 examples and exercises, exercising every topic in the book Includes 600 end-of-chapter problems, many of them applications or simplified applications Discusses the finite element, finite difference and method of moments in a dedicated chapter

With the rapid growth of wireless technologies, more and more people are trying to gain a better understanding of electromagnetics. After all, electromagnetic fields have a direct impact on reception in all wireless applications. This text explores electromagnetics, presenting practical applications for wireless systems, transmission lines, waveguides, antennas, electromagnetic interference, and microwave engineering. It is designed for use in a one- or two-semester electromagnetics sequence for electrical engineering students at the junior and senior level. The first book on the subject to tackle the impact of electromagnetics on wireless applications: Includes numerous worked-out example problems that provide you with hands-on experience in solving electromagnetic problems. Describes a number of practical applications that show how electromagnetic theory is put into practice. Offers a concise summary at the end of each chapter that reinforces the key points. Detailed MATLAB examples are integrated throughout the book to enhance the material.

Applied Electromagnetics and Electromagnetic Compatibility deals with Radio Frequency Interference (RFI), which is the reception of undesired radio signals originating from digital electronics and electronic equipment. With today's rapid development of radio communication, these undesired signals as well as signals due to natural phenomena such as lightning, sparking, and others are becoming increasingly important in the general area of Electro Magnetic Compatibility (EMC). EMC can be defined as the capability of some electronic equipment or system to be operated at desired levels of performance in a given electromagnetic environment without generating EM emissions unacceptable to other systems operating in the vicinity.

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