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 the six editions of Elements of Engineering Electromagnetics have served engi-neering students well, clarifying the principles and applications of electromag-netic theory. This edition is unique, for it is addressed to the students and faculty of India, the birth nation of its author, N. Narayana Rao. For four decades, Professor Rao

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Elements of Engineering Electromagnetics, 5/e. Nannapaneni Narayana Rao, University of Illinois at Urbana-Champaign. Copyright 2000. 788 pp. Cloth format ISBN 0-13-013201-2. Summary. For one/two-semester, junior/senior-level courses in Electromagnetics, Transmission Lines and Waveguides, and Electromagnetic Fields and Waves, in the departments of Electrical and Computer Engineering.

Elements of Engineering Electromagnetics

Description For one/two-semester, junior/senior-level courses in Electromagnetics, Transmission Lines and Waveguides, and Electromagnetic Fields and Waves, in the departments of Electrical and Computer Engineering. First course in introductory electromagnetics required for electrical engineering and computer engineering students.

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Elements of Engineering Electromagnetics Hb: Rao ...

Electromagnetics is a key field of study in many kinds of engineering like electrical engineering and also plays a role in almost every other kind of engineering ranging from mechanical to chemical engineering. One will encounter everything from electricity and magnetism to the photoelectric effect in this field of study. The book is divided into two parts and covers almost every relevant topic in Electromagnetics.

This book, with its versatile approach, includes thorough coverage of statics with an emphasis on the dynamics of engineering electromagnetics. It integrates practical applications, numerical details, and completely covers all relevant principles. Topics include vectors and fields, Maxwell's Equations, fields and waves, electromagnetic potentials, devices, circuits, and systems, and transmission-line essentials for digital electronics. The second part of the book covers communications, guided wave principles, electronics and photonics, and radiation and antennae. A valuable resource for computer engineering and electrical engineering professionals.

This text examines applications and covers statics with an emphasis on the dynamics of engineering electromagnetics. This edition features a new chapter on electromagnetic principles for photonics, and sections on cylindrical metallic waveguides and losses in waveguides and resonators.

Fundamentals of Electromagnetics for Electrical and Computer Engineering, First Edition is appropriate for all beginning courses in electromagnetics, in both electrical engineering and computer engineering programs. This is ideal for anyone interested in learning more about electromagnetics. Dr. N. Narayana Rao has designed this compact, one-semester textbook in electromagnetics to fully reflect the evolution of technologies in both electrical and computer engineering. This book's unique approach begins with Maxwell's equations for time-varying fields (first in integral and then in differential form), and also introduces waves at the outset. Building on these core concepts, Dr. Rao treats each category of fields as solutions to Maxwell's equations, highlighting the frequency behavior of physical structures. Next, he systematically introduces the topics of transmission lines, waveguides, and antennas. To keep the subject's geometry as simple as possible, while ensuring that students master the physical concepts and mathematical tools they will need, Rao makes extensive use of the Cartesian coordinate system. Topics covered in this book include: uniform plane wave propagation; material media and their interaction with uniform plane wave fields; essentials of transmission-line analysis (both frequency- and time-domain); metallic waveguides; and Hertzian dipole field solutions. Material on cylindrical and spherical coordinate systems is presented in appendices, where it can be studied whenever relevant or convenient. Worked examples are presented throughout to illuminate (and in some cases extend) key concepts; each chapter also contains a summary and review questions. (Note: this book provides a one-semester alternative to Dr. Rao's classic textbook for two-semester courses, Elements of Engineering Electromagnetics, now in its Sixth Edition.)

A clearly written introduction to the key physical and engineering principles of electromagnetics, first published in 2000.

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

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