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the six editions of Elements of Engineering Electromagnetics have served engineering students well, clarifying the principles and applications of electromagnetic 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

Elements of Engineering Electromagnetics

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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.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. 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.)

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.

Balanis' second edition of *Advanced Engineering Electromagnetics* – a global best-seller for over 20 years – covers the advanced knowledge engineers involved in electromagnetic need to know, particularly as the topic relates to the fast-moving, continually evolving, and rapidly expanding field of wireless communications. The immense interest in wireless communications and the expected increase in wireless communications systems projects (antenna, microwave and wireless communication) points to an increase in the number of engineers needed to specialize in this field. In addition, the Instructor Book Companion Site contains a rich collection of multimedia resources for use with this text. Resources include: Ready-made lecture notes in Power Point format for all the chapters. Forty-nine MATLAB® programs to compute, plot and animate some of the wave phenomena. Nearly 600 end-of-chapter problems, that's an average of 40 problems per chapter (200 new problems; 50% more than in the first edition). A thoroughly updated Solutions Manual. 2500 slides for Instructors are included.

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