

Elements Of Electromagnetics 6th Edition

Field Mathematics for Electromagnetics, Photonics, and Materials Science
Theory and Computation of Electromagnetic Fields
Electromagnetic Fields Electricity, Magnetism and Electromagnetic Theory
Engineering Electromagnetics Explained Microwave Engineering
Fundamentals of Electromagnetics for Electrical and Computer Engineering
Elements of Engineering Electromagnetics Smart Antennas with MATLAB, Second Edition
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Jian-Ming Jin Ahmad Shahid Khan SR Manohara | Shubha A Lakshman Kalyan David M. Pozar
Nannapaneni Narayana Rao Nannapaneni Narayana Rao Frank Gross Stuart M. Wentworth Yun Hae Kim
John D. Kraus Rose Arny Oliver Heaviside Frank Gross McGraw-Hill James R. Claycomb Marian Butler

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the primary objective of this book is to offer a review of vector calculus needed for the physical sciences and engineering this review includes necessary excursions into tensor analysis intended as the reader's first exposure to tensors making aspects of tensors understandable at the undergraduate level

reviews the fundamental concepts behind the theory and computation of electromagnetic fields the book is divided in two parts the first part covers both fundamental theories such as vector analysis maxwell's equations boundary condition and transmission line theory and advanced topics such as wave transformation addition theorems and fields in layered media in order to benefit students at all levels the second part of the book covers the major computational methods for numerical analysis of electromagnetic fields for engineering applications these methods include the three fundamental approaches for numerical analysis of electromagnetic fields the finite difference method the finite difference time domain method in particular the finite element method and the integral equation based moment method the second part also examines fast algorithms for solving integral equations and

hybrid techniques that combine different numerical methods to seek more efficient solutions of complicated electromagnetic problems theory and computation of electromagnetic fields second edition provides the foundation necessary for graduate students to learn and understand more advanced topics discusses electromagnetic analysis in rectangular cylindrical and spherical coordinates covers computational electromagnetics in both frequency and time domains includes new and updated homework problems and examples theory and computation of electromagnetic fields second edition is written for advanced undergraduate and graduate level electrical engineering students this book can also be used as a reference for professional engineers interested in learning about analysis and computation skills

the study of electromagnetic field theory is required for proper understanding of every device wherein electricity is used for operation the proposed textbook on electromagnetic fields covers all the generic and unconventional topics including electrostatic boundary value problems involving two and three dimensional laplacian fields and one and two dimensional poissonion fields magnetostatic boundary value problems eddy currents and electromagnetic compatibility the subject matter is supported by practical applications illustrations to supplement the theory solved numerical problems solutions manual and powerpoint slides including appendices and mathematical relations aimed at undergraduate senior undergraduate students of electrical and electronics engineering it presents fundamental concepts of electromagnetic fields in a simplified manner covers one two and three dimensional electrostatic boundary value problems involving laplacian fields and poissonion fields includes exclusive chapters on eddy currents and electromagnetic compatibility discusses important aspects of magneto static boundary value problems explores all the basic vector algebra and vector calculus along with couple of two and three dimensional problems

electricity magnetism and electromagnetic theory has been designed to meet the needs of bsc physics students as per the ugc choice based credit system this textbook provides a thorough understanding of the fundamental concepts of electricity magnetism and electromagnetic theory having a problem solving approach it covers the entire spectrum of the subject with discussion on topics such as electrostatics magnetostatics electromagnetic induction maxwell s equations and electromagnetic wave propagation the concepts are exhaustively presented with numerous examples and figures diagrams which would help the students in analysing and retaining the concepts in an effective manner

engineering electromagnetics explained is a comprehensive textbook designed to provide students with a solid foundation in the principles and applications of electromagnetics written by leading experts this book covers fundamental concepts theoretical frameworks and practical applications in engineering we start with basic principles of electromagnetism including coulomb s law gauss s law and maxwell s equations then delve into advanced topics such as electromagnetic waves transmission lines waveguides antennas and electromagnetic compatibility emc key features clear and concise explanations of fundamental electromagnetics concepts numerous examples and illustrations to aid understanding practical applications and real world examples demonstrating electromagnetics relevance in engineering comprehensive coverage of topics including transmission lines waveguides antennas and emc end of chapter problems and exercises to reinforce learning this textbook is suitable for undergraduate and graduate students in electrical engineering electronics and communication engineering and related disciplines it serves as an essential resource for courses on electromagnetics electromagnetic field theory and electromagnetic compatibility additionally practicing engineers and researchers will find this book a valuable reference for understanding and applying electromagnetics principles in their work

the 4th edition of this classic text provides a thorough coverage of rf and microwave engineering concepts starting from fundamental principles of electrical engineering with applications to microwave circuits and devices of practical importance coverage includes microwave network analysis impedance matching directional couplers and hybrids microwave filters ferrite devices noise nonlinear effects and the design of microwave oscillators amplifiers and mixers material on microwave and rf systems includes wireless communications radar radiometry and radiation hazards a large number of examples and end of chapter problems test the reader's understanding of the material the 4th edition includes new and updated material on systems noise active devices and circuits power waves transients rf cmos circuits and more

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

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

the most complete current guide to smart antenna design and performance featuring new coverage of reconfigurable antennas vector antennas and direction finding antennas this up to date resource offers a rigorous review of the basic electromagnetic principles that drive smart antenna design and deployment case studies and worked examples using matlab are provided end of chapter assignments reinforce the concepts presented thoroughly revised to reflect recent developments and the latest technologies this is a comprehensive reference for all professionals students and researchers in the field of smart antennas smart antennas with matlab second edition covers fundamentals of electromagnetic fields antenna fundamentals array fundamentals principles of random variables and processes propagation channel characteristics angle of arrival estimation smart antennas direction

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intended as a textbook for electromagnetics or a reference for practicing engineers the book uses the computer software packages quickfield and matlab for visualizing electric and magnetic fields and for calculating their resulting forces charge and current distributions the concepts of electromagnetism come alive as the readers model real world problems and experiment with currents in biological tissue under electrical stimulation for superconducting magnetic shielding monte carlo methods etc the accompanying cd includes a fully functional version of quickfield widely used in industry as well as numerous demonstrations and simulations with matlab

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