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This highly technical and thought-provoking book stresses the development of mathematical foundations for the application of the electromagnetic model to problems of research and technology. Features include in-depth coverage of linear spaces, Green's functions, spectral expansions, electromagnetic source representations, and electromagnetic boundary value problems.

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Description. Co-published with Oxford University Press. This highly technical and thought-provoking book stresses the development of mathematical foundations for the application of the electromagnetic model to problems of research and technology. Features include in-depth coverage of linear spaces, Green's functions, spectral expansions, electromagnetic source representations, and electromagnetic boundary value problems.

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Mathematical Foundations for Electromagnetic Theory. Book Abstract: Co-published with Oxford University Press. This highly technical and thought-provoking book stresses the development of mathematical foundations for the application of the electromagnetic model to problems of research and technology. Features include in-depth coverage of linear spaces, Green's functions, spectral expansions, electromagnetic source representations, and electromagnetic boundary value problems.

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Mathematical Foundations for Electromagnetic Theory

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Donald G. Dudley is the author of Mathematical Foundations for Electromagnetic Theory, published by Wiley.

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Mathematical Foundations For Electromagnetic Theory Solutions

Electromagnetism is a branch of physics involving the study of the electromagnetic force, a type of physical interaction that occurs between electrically charged particles. The electromagnetic force is carried by electromagnetic fields composed of electric fields and magnetic fields, and it is responsible for electromagnetic radiation such as light.It is one of the four fundamental ...

Electromagnetism - Wikipedia

Foundations of the Mathematical Theory of Electromagnetic Waves. Authors (view affiliations) Claus Müller; Book. ... Electromagnetic Waves in an Inhomogeneous Medium. Claus Müller ... About this book. Keywords. Elektromagnetische Welle Mathematica Mathematical Theory of Electromagnetic Waves calculus equation function vector calculus ...

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Mathematical Foundations for Electromagnetic Theory, Hardcover by Dudley, Donald G., ISBN 0780310225, ISBN-13 9780780310223, Brand New, Free shipping Co-published with Oxford University Press. This highly technical and thought-provoking book stresses the development of mathematical foundations for the application of the electromagnetic model to problems of research and technology.

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I'll quote the first line from the book's introduction: This book is written for the serious student of electromagnetic theory. And it's true. If you want to learn everything about greens functions (how do you actually compute them for various operators), everything about spectral representation of delta function, solving the problems in 3D (scattering from the cylinder, aperture diffraction ...

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Co-published with Oxford University Press. This highly technical and thought-provoking book stresses the development of mathematical foundations for the application of the electromagnetic model to problems of research and technology. Features include in-depth coverage of linear spaces, Green's functions, spectral expansions, electromagnetic source representations, and electromagnetic boundary value problems. This book will be of interest graduate-level students in engineering, electromagnetics, physics, and applied mathematics as well as to research engineers, physicists, and scientists.

This book is a first-year graduate text on electromagnetic fields and waves. It is the translated and revised edition of the Chinese version with the same title published by the Publishing House of Electronic Industry (PHEI) of China in 1994. The text is based on the graduate course lectures on "Advanced Elec trodynamics" given by the authors at Tsinghua University. More than 300 students from the Department of Electronic Engineering and the Depart ment of Applied Physics have taken this course during the last decade. Their particular fields are microwave and millimeterwave theory and technology, physical electronics, optoelectronics and engineering physics. As the title of the book shows, the texts and examples in the book concentrate mainly on electromagnetic theory related to microwaves and optoelectronics, or light wave technology. However, the book can also be used as an intermediate-level text or reference book on electromagnetic fields and waves for students and scientists engaged in research in neighboring fields.

This book is a first year graduate text on electromagnetic fields and waves. At the same time it serves as a useful reference for researchers and engineers in the areas of microwaves and optoelectronics. Following the presentation of the physical and mathematical foundations of electromagnetic theory, the book discusses the field analysis of electromagnetic waves confined in material boundaries, or so-called guided waves, electromagnetic waves in the dispersive media and anisotropic media, Gaussian beams and scalar diffraction theory. The theories and methods presented in the book are foundations of wireless engineering, microwave and millimeter wave techniques, optoelectronics and optical fiber communication.

This unique textbook offers a mathematically rigorous presentation of the theory of relativity, emphasizing the need for a critical analysis of the foundations of general relativity in order to best study the theory and its implications. The transitions from classical mechanics to special relativity and then to general relativity are explored in detail as well, helping readers to gain a more profound and nuanced understanding of the theory as a whole. After reviewing the fundamentals of differential geometry and classical mechanics, the text introduces special relativity, first using the physical approach proposed by Einstein and then via Minkowski's mathematical model. The authors then address the relativistic thermodynamics of continua and electromagnetic fields in matter – topics which are normally covered only very briefly in other treatments – in the next two chapters. The text then turns to a discussion of general relativity by means of the authors' unique critical approach, underlining the difficulty of recognizing the physical meaning of some statements, such as the physical meaning of coordinates and the derivation of physical quantities from those of space-time. Chapters in this section cover the model of space-time proposed by Schwarzschild; black holes; the Friedman equations and the different cosmological models they describe; and the Fermi-Walker derivative. Well-suited for graduate students in physics and mathematics who have a strong foundation in real analysis, classical mechanics, and general physics, this textbook is appropriate for a variety of graduate-level courses that cover topics in relativity. Additionally, it will interest physicists and other researchers who wish to further study the subtleties of these theories and understand the contemporary scholarly discussions surrounding them.

Electrical Engineering/Electromagnetics Singular Electromagnetic Fields and Sources A volume in the IEEE Series on Electromagnetic Wave Theory Donald D. Dudley, Series Editor 'I will cherish my copy of this gem.'--James R. Wait This is a companion volume to the many available graduate textbooks on electromagnetic theory. It is devoted to a study of the infinities in electromagnetic fields and in their sources. Three types of singularities are investigated: (1) Those associated with strongly concentrated sources of charge and current, the relevant densities are expressed in terms of delta-functions and derivatives. (2) Those associated with the fields resulting from strongly concentrated sources. (3) Those which occur at sharp edges and

vertices of cones and sectors. The approach is both theoretical and numerical. The information presented, far from being purely formal, is of importance for practical work. It can be used, for example, to accelerate significantly the convergence of a numerical algorithm. The book is written for electrical engineers and applied physicists who have an interest in the general topic of 'Maxwell's equations' and more particularly for those who are engaged in the actual solution of electromagnetic problems. The mathematical level of the text is that of the 'applied' mathematician. An introductory chapter on 'Distribution Theory' has been written in that spirit. Also in the series. Mathematical Foundations for Electromagnetic Theory Donald D. Dudley, University of Arizona, Tucson 1994 Hardcover 256 pp Methods for Electromagnetic Field Analysis Ismo V. Lindell, Helsinki University of Technology 1992 Hardcover 320 pp The Transmission Line Modeling Method: TLM Christos Christopoulos, University of Nottingham 1995 Hardcover 232 pp

A mathematical study is made on the problem of the electromagnetic theory to determine the diffracted electromagnetic wave which is produced when a prescribed wave, propagating in a homogeneous isotropic dielectric medium, strikes a prescribed metallic obstacle. The foundations for a mathematical theory of this problem are developed together with theorems which demonstrate the existence and uniqueness of the solution and theorems which describe its functional properties. (Author).

Co-published with Oxford University Press. A volume in the IEEE Press/OUP Electromagnetic Wave Series. Gain a thorough understanding of one of the most important simulation tools in computational electromagnetics with this comprehensive introduction to the TLM method. Written by one of the foremost researchers in the TLM method, this book covers the entire area of electromagnetics from the basic principles to advanced formulations and applications and including microwaves, antennas, RCS, electromagnetic compatibility, and electromagnetic heating, while providing a clear explanation of modeling principles from lumped components through 1, 2 and 3 dimensional complex systems.

This book aims to disseminate geometric algebra as a straightforward mathematical tool set for working with and understanding classical electromagnetic theory. Its target readership is anyone who has some knowledge of electromagnetic theory, predominantly ordinary scientists and engineers who use it in the course of their work, or postgraduate students and senior undergraduates who are seeking to broaden their knowledge and increase their understanding of the subject. It is assumed that the reader is not a mathematical specialist and is neither familiar with geometric algebra or its application to electromagnetic theory. The modern approach, geometric algebra, is the mathematical tool set we should all have started out with and once the reader has a grasp of the subject, he or she cannot fail to realize that traditional vector analysis is really awkward and even misleading by comparison. Professors can request a solutions manual by email: pressbooks@ieee.org

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