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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

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

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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

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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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Mathematical foundations for electromagnetic theory. [Donald G Dudley] Home. WorldCat Home About WorldCat Help. Search. Search for Library Items Search for Lists Search for Contacts Search for a Library. Create ... # Electromagnetic theory--Mathematics>\n \u00A0\u00A0\u00A0\n schema: ...

Mathematical foundations for electromagnetic theory (Book ...

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 actualy 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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[DOC] Mathematical Foundations For Electromagnetic Theory... Electromagnetism is a branch of physics involving the study of the electromagnetic force, a type of physical interaction that occurs between electrically charged particles.

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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

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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 Electrodynamics" given by the authors at Tsinghua University. More than 300 students from the Department of Electronic Engineering and the Department 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.

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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

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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

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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).

This book presents an in-depth treatment of various mathematical aspects of electromagnetism and Maxwell's equations: from modeling issues to well-posedness results and the coupled models of plasma physics (Vlasov-Maxwell and Vlasov-Poisson systems) and magnetohydrodynamics (MHD). These equations and boundary conditions are discussed, including a brief review of absorbing boundary conditions. The focus then moves to well-posedness results. The relevant function

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spaces are introduced, with an emphasis on boundary and topological conditions. General variational frameworks are defined for static and quasi-static problems, time-harmonic problems (including fixed frequency or Helmholtz-like problems and unknown frequency or eigenvalue problems), and time-dependent problems, with or without constraints. They are then applied to prove the well-posedness of Maxwell's equations and their simplified models, in the various settings described above. The book is completed with a discussion of dimensionally reduced models in prismatic and axisymmetric geometries, and a survey of existence and uniqueness results for the Vlasov-Poisson, Vlasov-Maxwell and MHD equations. The book addresses mainly researchers in applied mathematics who work on Maxwell's equations. However, it can be used for master or doctorate-level courses on mathematical electromagnetism as it requires only a bachelor-level knowledge of analysis.

Co-published with Oxford University Press. This new edition takes account of the most recent analytical progress that has been made in the field of electromagnetic wave propagation and the impact of the wider availability of powerful computers. The aim of this book is to develop a suitable framework of theory and numerical analysis with applications to various aspects of the propagation of electromagnetic waves. The conjugate gradient method and CGFFT are given extensive treatment. The coverage of finite methods has been expanded and conforming finite elements particularly appropriate to electromagnetic applications are described. New topics

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have been added to this edition including Sobolev spaces, vector optimization, absorbing boundary conditions, and surface radiation conditions.

Electrical Engineering/Electromagnetics Waves and Fields in Inhomogeneous Media A Volume in the IEEE Press Series on Electromagnetic Waves Donald G. Dudley, Series Editor ".it is one of the best wave propagation treatments to appear in many years." Gerardo G. Tango, CPG, Consulting Seismologist-Acoustician, Covington, LA This comprehensive text thoroughly covers fundamental wave propagation behaviors and computational techniques for waves in inhomogeneous media. The author describes powerful and sophisticated analytic and numerical methods to solve electromagnetic problems for complex media and geometry as well. Problems are presented as realistic models of actual situations which arise in the areas of optics, radio wave propagation, geophysical prospecting, nondestructive testing, biological sensing, and remote sensing. Key topics covered include: *

- * Analytical methods for planarly, cylindrically and spherically layered media *
- * Transient waves, including the Cagniard-de Hoop method *
- * Variational methods for the scalar wave equation and the electromagnetic wave equation *
- * Mode-matching techniques for inhomogeneous media *
- * The Dyadic Green's function and its role in simplifying problem-solving in inhomogeneous media *
- * Integral equation formulations and inverse problems *
- * Time domain techniques for inhomogeneous media

This book will be of interest to electromagnetics and remote sensing engineers, physicists, scientists, and geophysicists. This IEEE Press reprinting of

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the 1990 version published by Van Nostrand Reinhold incorporates corrections and minor updating. Also in the series. Mathematical Foundations for Electromagnetic Theory by Donald G. Dudley, University of Arizona at Tucson This volume in the series lays the mathematical foundations for the study of advanced topics in electromagnetic theory. Important subjects covered include linear spaces, Green's functions, spectral expansions, electromagnetic source representations, and electromagnetic boundary value problems. 1994 Hardcover 264 pp ISBN 0-7803-1022-5 IEEE Order No. PC3715 About the Series The IEEE Press Series on Electromagnetic Waves consists of new titles as well as reprints and revisions of recognized classics that maintain long-term archival significance in electromagnetic waves and applications. Designed specifically for graduate students, practicing engineers, and researchers, this series provides affordable volumes that explore electromagnetic waves and applications beyond the undergraduate level.

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