Mathematical Foundations for Electromagnetic Theory

Donald G. Dudley

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Zhi Ning Chen,Xianming Qing

Mathematical Foundations For Electromagnetic Theory:

Mathematical Foundations for Electromagnetic Theory Donald G. Dudley,1994-05-18 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 **Mathematical Foundations for Electromagnetic Theory** s bROWN,1999 **Mathematical Foundations of Computational Electromagnetism** Franck Assous,Patrick Ciarlet,Simon Labrunie,2018-06-09 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 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 Mathematical Foundations of Quantum Mechanics George W. Mackey,2013-12-31 This graduate level text introduces fundamentals of classical mechanics surveys basics of quantum mechanics and concludes with a look at group theory and quantum mechanics of the atom 1963 edition Operator Theory for Electromagnetics George W. Hanson,Alexander B. Yakovlev,2013-03-09 The purpose of this book is to describe methods for solving problems in applied electromagnetic theory using basic concepts from functional anal ysis and the theory of operators Although the book focuses on certain mathematical fundamentals it is written from an applications perspective for engineers and applied scientists working in this area Part I is intended to be a somewhat self contained introduction to op erator theory and functional analysis especially those elements necessary for application to problems in electromagnetics The goal of Part I is to ex plain and synthesize these topics in a logical manner Examples principally geared toward electromagnetics are provided With the exception of Chapter 1 which serves as a review of basic electromagnetic theory Part I presents definitions and theorems

along with associated discussion and examples This style was chosen because it allows one to readily identify the main concepts in a particular section A proof is provided for all theorems whose proof is simple and straightforward A proof is also provided for theorems that require a slightly more elaborate proof yet one that is especially enlightening being either constructive or illustrative Generally theorems are stated but not proved in cases where either the proof is too involved or the details of the proof would take one too far afield of the topic at hand such as requiring additional lemmas that are not clearly useful in applications   *Electromagnetic Theory* Julius Adams Stratton,2007-01-22 This book is an electromagnetics classic Originally published in 1941 it has been used by many generations of students teachers and researchers ever since Since it is classic electromagnetics every chapter continues to be referenced to this day This classic reissue contains the entire original edition first published in 1941 Additionally two new forewords by Dr Paul E Gray former MIT President and colleague of Dr Stratton and another by Dr Donald G Dudley Editor of the IEEE Press Series on E M Waves on the significance of the book s contribution to the field of Electromagnetics   **Electromagnetic Theory and Computation** Paul W. Gross,P. Robert Kotiuga,2004-06-14 This book explores the connection between algebraic structures in topology and computational methods for 3 dimensional electric and magnetic field computation The connection between topology and electromagnetism has been known since the 19th century but there has been little exposition of its relevance to computational methods in modern topological language This book is an effort to close that gap It will be of interest to people working in finite element methods for electromagnetic computation and those who have an interest in numerical and industrial applications of algebraic topology   **Multigrid Finite Element Methods for Electromagnetic Field Modeling** Yu Zhu,Andreas C. Cangellaris,2006-02-17 This is the first comprehensive monograph that features state of the art multigrid methods for enhancing the modeling versatility numerical robustness and computational efficiency of one of the most popular classes of numerical electromagnetic field modeling methods the method of finite elements The focus of the publication is the development of robust preconditioners for the iterative solution of electromagnetic field boundary value problems BVPs discretized by means of finite methods Specifically the authors set forth their own successful attempts to utilize concepts from multigrid and multilevel methods for the effective preconditioning of matrices resulting from the approximation of electromagnetic BVPs using finite methods Following the authors careful explanations and step by step instruction readers can duplicate the authors results and take advantage of today s state of the art multigrid multilevel preconditioners for finite element based iterative electromagnetic field solvers Among the highlights of coverage are Application of multigrid multilevel and hybrid multigrid multilevel preconditioners to electromagnetic scattering and radiation problems Broadband robust numerical modeling of passive microwave components and circuits Robust finite element based modal analysis of electromagnetic waveguides and cavities Application of Krylov subspace based methodologies for reduced order macromodeling of electromagnetic devices and systems Finite element modeling of

electromagnetic waves in periodic structures The authors provide more than thirty detailed algorithms alongside pseudo codes to assist readers with practical computer implementation In addition each chapter includes an applications section with helpful numerical examples that validate the authors methodologies and demonstrate their computational efficiency and robustness This groundbreaking book with its coverage of an exciting new enabling computer aided design technology is an essential reference for computer programmers designers and engineers as well as graduate students in engineering and applied physics   *The Physical and Mathematical Foundations of the Theory of Relativity* Antonio Romano,Mario Mango Furnari,2019-09-25 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

   Radiation and Scattering of Waves Leopold B. Felsen,Nathan Marcuvitz,1994-01-15 As relevant today as it was when it was first published 20 years ago this book is a classic in the field Nowhere else can you find more complete coverage of radiation and scattering of waves The chapter Asympotic Evaluation of Integrals is considered the definitive source for asympotic techniques This book is essential reading for engineers physicists and others involved in the fields of electromagnetics and acoustics It is also an indispensable reference for advanced engineering courses   **Waves and Fields in Inhomogenous Media** Weng Cho Chew,1999-02-02 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 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   *Fundamentals of Electromagnetics with MATLAB* Karl Erik Lonngren,Sava Vasilev Savov,Randy J. Jost,2007 Accompanying CD ROM contains a MATLAB tutorial   *From ER to E.T.* Rajeev Bansal,2017-01-04 This book covers the study of electromagnetic wave theory and describes how electromagnetic technologies affect our daily lives From ER to ET How Electromagnetic Technologies Are Changing Our Lives explores electromagnetic wave theory including its founders scientific underpinnings ethical issues and applications through history Utilizing a format of short essays this book explains in a balanced and direct style how electromagnetic technologies are changing the world we live in and the future they may create for us Quizzes at the end of each chapter provide the reader with a deeper understanding of the material This book is a valuable resource for microwave engineers of varying levels of experience and for instructors to motivate their students and add depth to their assignments In addition this book Presents topics that investigate all aspects of electromagnetic technology throughout history Explores societal and global issues that relate to the field of electrical engineering emphasized in current ABET accreditation criteria Includes quizzes relevant to every essay and answers which explain technical perspectives Rajeev Bansal PhD is a professor of Electrical and Computer Engineering at the University of Connecticut He is a member of IEEE and the Connecticut Academy of Science and Engineering He is a Fellow of the

Electromagnetics Academy His editing credits include Fundamentals of Engineering Electromagnetics and Engineering Electromagnetics Applications Dr Bansal contributes regular columns to IEEE Antennas and Propagation Magazine and IEEE Microwave Magazine **Substrate-Integrated Millimeter-Wave Antennas for Next-Generation Communication and Radar Systems** Zhi Ning Chen,Xianming Qing,2021-04-08 Substrate Integrated Millimeter Wave Antennas for Next Generation Communication and Radar Systems The first and only comprehensive text on substrate integrated mmW antenna technology state of the art antenna design and emerging wireless applications Substrate Integrated Millimeter Wave Antennas for Next Generation Communication and Radar Systems elaborates the most important topics related to revolutionary millimeter wave mmW technology Following a clear description of fundamental concepts including substrate integrated waveguides and loss analysis the text treats key design methods prototyping techniques and experimental setup and testing The authors also highlight applications of mmW antennas in 5G wireless communication and next generation radar systems Readers are prepared to put techniques into practice through practical discussions of how to set up testing for impedance matching radiation patterns gain from 24GHz up to 325 GHz and more This book will bring readers state of the art designs and recent progress in substrate integrated mmW antennas for emerging wireless applications Substrate Integrated Millimeter Wave Antennas for Next Generation Communication and Radar Systems is the first comprehensive text on the topic allowing readers to quickly master mmW technology This book Introduces basic concepts such as metamaterials Huygens s surface zero index structures and pattern synthesis Describes prototyping in the form of fabrication based on printed circuit board low temperature co fired ceramic and micromachining Explores applications for next generation radar and imaging systems such as 24 GHz and 77 GHz vehicular radar systems Elaborates design methods including waveguide based feeding network three dimensional feeding structure dielectric loaded aperture antenna element and low sidelobe synthesis The mmW is one of today s most important emerging technologies This book provides graduate students researchers and engineers with the knowledge they need to deploy mmW systems and develop new antenna designs with low cost low loss and low complexity **Foundations of Geophysical Electromagnetic Theory and Methods** Michael S. Zhdanov,2017-10-26 Foundations of Geophysical Electromagnetic Theory and Methods Second Edition builds on the strength of the first edition to offer a systematic exposition of geophysical electromagnetic theory and methods This new edition highlights progress made over the last decade with a special focus on recent advances in marine and airborne electromagnetic methods Also included are recent case histories on practical applications in tectonic studies mineral exploration environmental studies and off shore hydrocarbon exploration The book is ideal for geoscientists working in all areas of geophysics including exploration geophysics and applied physics as well as graduate students and researchers working in the field of electromagnetic theory and methods Presents theoretical and methodological foundations of geophysical field theory Synthesizes fundamental theory and the most recent achievements of electromagnetic EM

geophysical methods in the framework of a unified systematic exposition Offers a unique breadth and completeness in providing a general picture of the current state of the art in EM geophysical technology Discusses practical aspects of EM exploration for mineral and energy resources **Introduction to Radio Engineering** Nathan Blaunstein,Christos Christodoulou,Mikhail Sergeev,2016-10-14 The book introduces the basic foundations of high mathematics and vector algebra Then it explains the basic aspects of classical electrodynamics and electromagnetism Based on such knowledge readers investigate various radio propagation problems related to guiding structures connecting electronic devices with antenna terminals placed at the different radar systems It explains the role of antennas in process of transmission of radio signals between the terminals Finally it shows the relation between the main operational charactistics of each kind of radar and the corresponding knowledge obtained from the previous chapters **Electromagnetic Theory for Microwaves and Optoelectronics** Kequian Zhang,Dejie Li,2013-06-29 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

Electromagnetics Edward J. Rothwell,Michael J. Cloud,2018-10-03 Providing an ideal transition from introductory to advanced concepts Electromagnetics Second Edition builds a foundation that allows electrical engineers to confidently proceed with the development of advanced EM studies research and applications This second edition of a popular text continues to offer coverage that spans the entire field from electrostatics to the integral solutions of Maxwell s equations The book provides a firm grounding in the fundamental concepts of electromagnetics and bolsters understanding through the use of classic examples in shielding transmission lines waveguides propagation through various media radiation antennas and scattering Mathematical appendices present helpful background information in the areas of Fourier transforms dyadics and boundary value problems The second edition adds a new and extensive chapter on integral equation methods with applications to guided waves antennas and scattering Utilizing the engaging style that made the first edition so appealing this second edition continues to emphasize the most enduring and research critical electromagnetic principles **Radio Wave Propagation and Parabolic Equation Modeling** Gokhan Apaydin,Levent Sevgi,2017-08-31 An important contribution to the literature that introduces powerful new methods for modeling and simulating radio wave propagation A

thorough understanding of electromagnetic wave propagation is fundamental to the development of sophisticated communication and detection technologies The powerful numerical methods described in this book represent a major step forward in our ability to accurately model electromagnetic wave propagation in order to establish and maintain reliable communication links to detect targets in radar systems and to maintain robust mobile phone and broadcasting networks The first new book on guided wave propagation modeling and simulation to appear in nearly two decades Radio Wave Propagation and Parabolic Equation Modeling addresses the fundamentals of electromagnetic wave propagation generally with a specific focus on radio wave propagation through various media The authors explore an array of new applications and detail various virtual electromagnetic tools for solving several frequent electromagnetic propagation problems All of the methods described are presented within the context of real world scenarios typifying the differing effects of various environments on radio wave propagation This valuable text Addresses groundwave and surface wave propagation Explains radar applications in terms of parabolic equation modeling and simulation approaches Introduces several simple and sophisticated MATLAB scripts Teaches applications that work with a wide range of electromagnetic acoustic and optical wave propagation modeling Presents the material in a quick reference format ideal for busy researchers and engineers Radio Wave Propagation and Parabolic Equation Modeling is a critical resource forelectrical electronics communication and computer engineers working on industrial and military applications that rely on the directed propagation of radio waves It is also a useful reference for advanced engineering students and academic researchers **Mathematical Foundations of Statistical Mechanics** A. Ya. Khinchin,2013-01-17 Phase space ergodic problems central limit theorem dispersion and distribution of sum functions Chapters include Geometry and Kinematics of the Phase Space Reduction to the Problem of the Theory of Probability and more

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