

ELECTROMAGNETIC THEORY

ATTAY KOVETZ



Willy Dörfler, Armin Lechleiter, Michael Plum, Guido Schneider, Christian Wieners

Electromagnetic Theory A. Kovetz, 2000-03-02 This textbook is intended for undergraduate and graduate students taking an intermediate or advanced course in electromagnetism It methodically develops the theory of electromagnetism paying special attention to its links with mechanics and thermodynamics and contains 50 example problems together with fully solved 225 exercises on all aspects of electromagnetism and its various applications An Expedition to Continuum Theory Wolfgang H. Müller, 2014-01-18 This book introduces field theory as required in solid and fluid mechanics as well as in electromagnetism It includes the necessary applied mathematical framework of tensor algebra and tensor calculus using an inductive approach particularly suited to beginners It is geared toward undergraduate classes in continuum theory for engineers in general and more specifically to courses in continuum mechanics Students will gain a sound basic understanding of the subject as well as the ability to solve engineering problems by applying the general laws of nature in terms of the balances for mass momentum and energy in combination with material specific relations in terms of constitutive equations thus learning how to use the theory in practice for themselves This is facilitated by numerous examples and problems provided throughout the text Geometric Methods in PDE's Giovanna Citti, Maria Manfredini, Daniele Morbidelli, Sergio Polidoro, Francesco Uguzzoni, 2015-10-31 The analysis of PDEs is a prominent discipline in mathematics research both in terms of its theoretical aspects and its relevance in applications. In recent years the geometric properties of linear and nonlinear second order PDEs of elliptic and parabolic type have been extensively studied by many outstanding researchers This book collects contributions from a selected group of leading experts who took part in the INdAM meeting Geometric methods in PDEs on the occasion of the 70th birthday of Ermanno Lanconelli They describe a number of new achievements and or the state of the art in their discipline of research providing readers an overview of recent progress and future research trends in PDEs In particular the volume collects significant results for sub elliptic equations potential theory and diffusion equations with an emphasis on comparing different methodologies and on their implications for theory and Photonic Crystals: Mathematical Analysis and Numerical Approximation Willy Dörfler, Armin applications Lechleiter, Michael Plum, Guido Schneider, Christian Wieners, 2011-05-18 This book concentrates on the mathematics of photonic crystals which form an important class of physical structures investigated in nanotechnology Photonic crystals are materials which are composed of two or more different dielectrics or metals and which exhibit a spatially periodic structure typically at the length scale of hundred nanometers In the mathematical analysis and the numerical simulation of the partial differential equations describing nanostructures several mathematical difficulties arise e q the appropriate treatment of nonlinearities simultaneous occurrence of continuous and discrete spectrum multiple scales in space and time and the ill posedness of these problems This volume collects a series of lectures which introduce into the mathematical background needed for the modeling and simulation of light in particular in periodic media and for its applications in optical devices

Computational Electromagnetism Houssem Haddar, Ralf Hiptmair, Peter Monk, Rodolfo Rodríguez, 2015-07-20 Presenting topics that have not previously been contained in a single volume this book offers an up to date review of computational methods in electromagnetism with a focus on recent results in the numerical simulation of real life electromagnetic problems and on theoretical results that are useful in devising and analyzing approximation algorithms Based on four courses delivered in Cetraro in June 2014 the material covered includes the spatial discretization of Maxwell's equations in a bounded domain the numerical approximation of the eddy current model in harmonic regime the time domain integral equation method with an emphasis on the electric field integral equation and an overview of qualitative methods for inverse electromagnetic scattering problems Assuming some knowledge of the variational formulation of PDEs and of finite element boundary element methods the book is suitable for PhD students and researchers interested in numerical approximation of partial differential equations and scientific computing Maxwell's Equations Ulrich Langer, Dirk Pauly, Sergey Repin, 2019-07-08 This volume collects longer articles on the analysis and numerics of Maxwell's equations The topics include functional analytic and Hilbert space methods compact embeddings solution theories and asymptotics electromagnetostatics time harmonic Maxwell's equations time dependent Maxwell's equations eddy current approximations scattering and radiation problems inverse problems finite element methods boundary element methods and isogeometric analysis **Computational Physics (PiCP): Volume 1** Matthias Ehrhardt, 2010 Progress in Computational Physics is a new e book series devoted to recent research trends in computational physics It contains chapters contributed by outstanding experts of modeling of physical problems The series focuses on interdisciplinary computat Transionospheric Synthetic Aperture *Imaging* Mikhail Gilman, Erick Smith, Semyon Tsynkov, 2017-04-13 This landmark monograph presents the most recent mathematical developments in the analysis of ionospheric distortions of SAR images and offers innovative new strategies for their mitigation As a prerequisite to addressing these topics the book also discusses the radar ambiguity theory as it applies to synthetic aperture imaging and the propagation of radio waves through the ionospheric plasma including the anisotropic and turbulent cases In addition it covers a host of related subjects such as the mathematical modeling of extended radar targets as opposed to point wise targets and the scattering of radio waves off those targets as well as the theoretical analysis of the start stop approximation which is used routinely in SAR signal processing but often without proper justification The mathematics in this volume is clean and rigorous no assumptions are hidden or ambiguously stated. The resulting work is truly interdisciplinary providing both a comprehensive and thorough exposition of the field as well as an accurate account of a range of relevant physical processes and phenomena The book is intended for applied mathematicians interested in the area of radar imaging or more generally remote sensing as well as physicists and electrical electronic engineers who develop operate spaceborne SAR sensors and perform the data processing The methods in the book are also useful for researchers and practitioners working on other types of imaging Moreover the book is accessible to graduate students in applied

mathematics physics engineering and related disciplines Praise for Transionospheric Synthetic Aperture Imaging I perceive that this text will mark a turning point in the field of synthetic aperture radar research and practice I believe this text will instigate a new era of more rigorous image formation relieving the research development and practitioner communities of inconsistent physical assumptions and numerical approaches Richard Albanese Senior Scientist Albanese Defense and **Energy Development LLC** Applied Mechanics Reviews ,2001 **Advances in Inverse Problems for Partial Differential Equations** Dinh-Liem Nguyen, Loc Hoang Nguyen, Thi-Phong Nguyen, 2023-04-12 This volume contains the proceedings of two AMS Special Sessions Recent Developments on Analysis and Computation for Inverse Problems for PDEs virtually held on March 13 14 2021 and Recent Advances in Inverse Problems for Partial Differential Equations virtually held on October 23 24 2021 The papers in this volume focus on new results on numerical methods for various inverse problems arising in electrical impedance tomography inverse scattering in radar and optics problems reconstruction of initial conditions control of acoustic fields and stock price forecasting The authors studied iterative and non iterative approaches such as optimization based globally convergent sampling and machine learning based methods The volume provides an interesting source on advances in computational inverse problems for partial differential equations **Forthcoming Books** The British National Bibliography Arthur James Wells, 2003 Mathematical Reviews ,2002 Rose Arny, 1996-10 American Book Publishing Record ,2004 The Athenaeum ,1891 The Bookseller ,1903 The London, Edinburgh and Dublin Philosophical Magazine and Journal of Science ,1913 Books in Print Supplement, 1994

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