


Piergiorgio L. E. Uslenghi
Editor

Nonlinear Electromagnetics

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L. Beilina, Yu. G. Smirnov



Nonlinear Electromagnetics:

Nonlinear Electromagnetics Piergiorgio Uslenghi, 2012-12-02 Nonlinear Electromagnetics is a collection of research papers from different areas of study related to the nonlinear phenomena in electromagnetism. The book, after giving a short introduction to some mathematical techniques for nonlinear problems, covers related topics such as the history of particle physics, a physical description of the spectral transform, solitons in randomly inhomogeneous media and localized wave fields in nonlinear dispersive media. Also covered in this book are topics such as nonlinear plasma wave interaction, Lagrangian methods, electromagnetic problems in composite materials in linear and nonlinear regimes and stationary regimes in passive nonlinear methods. The text is recommended for physicists and engineers interested in the development and applications of nonlinear electromagnetic and the mathematical expressions behind it.

Non-linear Electromagnetic Systems Paolo Di Barba, A. Savini, 2000 This text is a collection of contributions covering a wide range of topics of interdisciplinary character from materials to systems from microdevices to large equipment with special emphasis on emerging subjects and particular attention to advanced computational methods in order to model both devices and systems. The book provides the solution to challenging problems of research on nonlinear electromagnetic systems and is expected to help researchers working in this broad area.

Nonlinear and Inverse Problems in Electromagnetics L. Beilina, Yu. G. Smirnov, 2018-07-19 This volume provides academic discussion on the theory and practice of mathematical analysis of nonlinear and inverse problems in electromagnetics and their applications. From mathematical problem statement to numerical results, the featured articles provide a concise overview of comprehensive approaches to the solution of problems. Articles highlight the most recent research concerning reliable theoretical approaches and numerical techniques and cover a wide range of applications including acoustics, electromagnetics, optics, medical imaging and geophysics. The nonlinear and ill-posed nature of inverse problems and the challenges they present when developing new numerical methods are explained and numerical verification of proposed new methods on simulated and experimental data is provided. Based on the special session of the same name at the 2017 Progress in Electromagnetics Research Symposium, this book offers a platform for interaction between theoretical and practical researchers and between senior and incoming members in the field.

Non-linear Electromagnetic Systems Volkmar Kose, Johannes Sievert, 1998 The contents are dominated by the latest problems of applied electrical engineering, microelectromechanics, biosensor technology and biomagnetism. The book covers the numerical calculation methods for the design and optimization of sensors, actuators and electric machines as well as the treatment of inverse problems in materials testing and in the field of medicine in particular. Other central topics are the material properties and their simulation and much consideration is given to microelectromechanics.

Fundamentals of Electromagnetics David Voltmer, 2022-05-31 This book is the first of two volumes which have been created to provide an understanding of the basic principles and applications of electromagnetic fields for electrical engineering students. **Fundamentals of Electromagnetics Vol 1 Internal**

Behavior of Lumped Elements focuses upon the DC and low frequency behavior of electromagnetic fields within lumped elements. The properties of electromagnetic fields provide the basis for predicting the terminal characteristics of resistors, capacitors and inductors. The properties of magnetic circuits are included as well. For slightly higher frequencies for which the lumped elements are a significant fraction of a wavelength in size, the second volume of this set, Fundamentals of Electromagnetics Vol 2: Quasistatics and Waves, examines how the low frequency models of lumped elements are modified to include parasitic elements. Upon completion of understanding the two volumes of this book, students will have gained the necessary knowledge to progress to advanced studies of electromagnetics.

Applications of Advanced Electromagnetics Guennadi A. Kouzaev, 2012-10-30. This text, directed to the microwave engineers and Master and PhD students, is on the use of electromagnetics to the development and design of advanced integrated components distinguished by their extended field of applications. The results of hundreds of authors, scattered in numerous journals and conference proceedings, are carefully reviewed and classed. Several chapters are to refresh the knowledge of readers in advanced electromagnetics. New techniques are represented by compact electromagnetic quantum equations which can be used in modeling of microwave quantum integrated circuits of future. In addition, a topological method to the boundary value problem analysis is considered with the results and examples. One extended chapter is for the development and design of integrated components for extended bandwidth applications, and the technology and electromagnetic issues of silicon integrated transmission lines, transitions, filters, power dividers, directional couplers, etc. are considered. Novel prospective interconnects based on different physical effects are reviewed as well. The ideas of topology are applicable to the electromagnetic signaling and computing when the vector field maps can carry discrete information, and this area and the results in topological signaling obtained by different authors are analyzed, including the recently designed predicate logic processor operating spatially represented signal units. The book is rich of practical examples, illustrations, and references and useful for the specialists working at the edge of contemporary technology and electromagnetics.

The Finite Difference Time Domain Method for Electromagnetics Karl S. Kunz, Raymond J. Luebbers, 2018-05-04. The Finite Difference Time domain (FDTD) method allows you to compute electromagnetic interaction for complex problem geometries with ease. The simplicity of the approach coupled with its far reaching usefulness create the powerful popular method presented in The Finite Difference Time Domain Method for Electromagnetics. This volume offers timeless applications and formulations you can use to treat virtually any material type and geometry. The Finite Difference Time Domain Method for Electromagnetics explores the mathematical foundations of FDTD, including stability, outer radiation boundary conditions, and different coordinate systems. It covers derivations of FDTD for use with PEC, metal, lossy dielectrics, gyrotropic materials, and anisotropic materials. A number of applications are completely worked out with numerous figures to illustrate the results. It also includes a printed FORTRAN 77 version of the code that implements the technique in three dimensions for lossy dielectric materials. There are many

methods for analyzing electromagnetic interactions for problem geometries With The Finite Difference Time Domain Method for Electromagnetics you will learn the simplest most useful of these methods from the basics through to the practical applications Modern Analytical Electromagnetic Homogenization Tom G Mackay,Akhlesh Lakhtakia,2015-07-01

Electromagnetic homogenization is the process of estimating the effective electromagnetic properties of composite materials in the long wavelength regime wherein the length scales of nonhomogeneities are much smaller than the wavelengths involved This is a bird s eye view of currently available homogenization formalisms for particulate composite materials It presents analytical methods only with focus on the general settings of anisotropy and bianisotropy The authors largely concentrate on effective materials as opposed to equivalent materials and emphasize the fundamental but sometimes overlooked differences between these two categories of homogenized composite materials The properties of an effective material represents those of its composite material regardless of the geometry and dimensions of the bulk materials and regardless of the orientations and polarization states of the illuminating electromagnetic fields In contrast the properties of equivalent materials only represent those of their corresponding composite materials under certain restrictive circumstances

Computational Electromagnetics and Its Applications Thomas G. Campbell,Roy A. Nicolaides,Manuel D. Salas,2012-12-06 This volume contains the proceedings of the first ICASE LaRC Work shop on Computational Electromagnetics and Its Applications conducted by the Institute for Computer Applications in Science and Engineering and NASA Langley Research Center We had several goals in mind when we decided jointly with the Elec tromagnetics Research Branch to organize this workshop on Computa tional Electromagnetics CEM Among our goals were a desire to obtain an overview of the current state of CEM covering both algorithms and ap plications and their effect on NASA s activities in this area In addition we wanted to provide an attractive setting for computational scientists with expertise in other fields especially computational fluid dynamics CFD to observe the algorithms and tools of CEM at work Our expectation was that scientists from both fields would discover mutually beneficial inter connections and relationships Another goal was to learn of progress in solution algorithms for electromagnetic optimization and design problems such problems make extensive use of field solvers and computational effi ciency is at a premium To achieve these goals we assembled the renowned group of speakers from academia and industry whose talks are contained in this volume The papers are printed in the same order in which the talks were pre sented at the meeting The first paper is an overview of work currently being performed in the Electromagnetic Research Branch at the Langley Research Center **Electrodynamics of Continua I** A. Cemal Eringen,Gerard A.

Maugin,2012-12-06 The electrodynamics of continua is a branch ofthe physical sciences concerned with the interaction of electromagnetic fields with deformable bodies De formable bodies are considered to be continua endowed with continuous distributions of mass and charge The theory of electromagnetic continua is concerned with the determination of deformations motions stress and elec tromagnetic fields developed in bodies upon the applications of external loads External loads may be

of mechanical origin e.g. forces, couples, constraints placed on the surface of the body and initial and boundary conditions arising from thermal and other changes and/or electromagnetic origin e.g. electric, magnetic and current fields. Because bodies of different constitutions respond to external stimuli in a different way, it is imperative to characterize properly the response functions relevant to a given class of continua. This is done by means of the constitutive theory. For example, an elastic dielectric responds to electromagnetic fields in a totally different way than a magnetic fluid. The present book is intended to present a unified approach to the subject matter based on the principles of contemporary continuum physics.

Electrodynamics of Continua II A. Cemal Eringen, Gerard A. Maugin, 2012-12-06 This is the second volume of a two-volume set presenting a unified approach to the electrodynamics of continua based on the principles of contemporary continuum of physics. The first volume was devoted mainly to the development of the theory and applications to deformable solid media. This volume extends the developments of the first volume to richer and newer grounds. It contains discussions on fluid media, magnetohydrodynamics, electrodynamics and media with more complicated structures. With the discussion in the last two chapters of memory-dependent materials and non-local E-M theory, the authors account for the nonlocal effects arising from motions and fields of material points at past times and at spatially distant points. This discussion is included here to stimulate further research in these important fields which are presently in development stages. The second volume is self-contained and can be studied without the help of volume I. A section summarizing the constitutive equations and the underlying physical ideas which were presented in more detail in the first volume is included. This volume may be used as a basis for several graduate courses in engineering schools, applied mathematics and physics departments. It also contains fresh ideas and will stimulate further research in the directions the authors outline. *Interdisciplinary Electromagnetic, Mechanic and Biomedical Problems*, 2007. The International Symposium on Applied Electromagnetics and Mechanics (ISEM) is an interdisciplinary international forum. This title concerns the 12th event and was organized by following three institutions: Vienna Magnetics Group, TU BioMed Society for Biomedical Engineering, Bioelectricity and the Vienna University of Technology.

Parameter Estimation of Nonlinear Random Medium by Scattered Electromagnetic Fields Manisha Khulbe, Harish Parthasarathy, 2023-10-16 This book is on the nonlinear random medium analysis that includes subtopics of terahertz imaging, inverse scattering, plasmonics, quantum optics, communication, laser modes and terahertz photonic antennas. Here, in this book, a mathematical framework is developed to analyze the impact of dimensions and chemical potential on nano antenna channels.

Three-dimensional Electromagnetics Michael L. Oristaglio, Brian R. Spies, 1999 This book covers major techniques used to compute, analyze, visualize and understand 3D electromagnetic fields in every major application of electrical geophysics. The 44 papers written especially for this volume are divided between techniques of 3D modeling and inversion (21 papers) and applications (23 papers). The latter include exploration for minerals and hydrocarbons, regional crustal studies and environmental surveys. These contributions represent the work of 95 authors from

56 institutions in 13 countries Isem 03 A. Bossavit,D. Lesselier,A. Razek,2004 This publication contains a selection of 124 papers among the 165 full length contributions which were submitted on site at ISEM 2003 The objective of the symposia series is to vigorously promote the research in the field of electro mechanical systems The reader will we hope appreciate the variety of topics that were addressed This is what makes ISEM so stimulating for whoever is interested in the applications of electromagnetics and its opening toward many technical fields Yet this publication does not intend to be a mosaic of sub disciplines but aims at their integration and synergy This will be demonstrated by the present selection *Mathematical Analysis of Deterministic and Stochastic Problems in Complex Media Electromagnetics* G. F. Roach,I. G. Stratis,A. N. Yannacopoulos,2012-03-04 Electromagnetic complex media are artificial materials that affect the propagation of electromagnetic waves in surprising ways not usually seen in nature Because of their wide range of important applications these materials have been intensely studied over the past twenty five years mainly from the perspectives of physics and engineering But a body of rigorous mathematical theory has also gradually developed and this is the first book to present that theory Designed for researchers and advanced graduate students in applied mathematics electrical engineering and physics this book introduces the electromagnetics of complex media through a systematic state of the art account of their mathematical theory The book combines the study of well posedness homogenization and controllability of Maxwell equations complemented with constitutive relations describing complex media The book treats deterministic and stochastic problems both in the frequency and time domains It also covers computational aspects and scattering problems among other important topics Detailed appendices make the book self contained in terms of mathematical prerequisites and accessible to engineers and physicists as well as mathematicians Harmonic Balance Finite Element Method Junwei Lu,Xiaojun Zhao,Sotoshi Yamada,2016-10-03 The first book applying HBFEM to practical electronic nonlinear field and circuit problems Examines and solves wide aspects of practical electrical and electronic nonlinear field and circuit problems presented by HBFEM Combines the latest research work with essential background knowledge providing an all encompassing reference for researchers power engineers and students of applied electromagnetics analysis There are very few books dealing with the solution of nonlinear electric power related problems The contents are based on the authors many years research and industry experience they approach the subject in a well designed and logical way It is expected that HBFEM will become a more useful and practical technique over the next 5 years due to the HVDC power system renewable energy system and Smart Grid HF magnetic used in DC DC converter and Multi pulse transformer for HVDC power supply HBFEM can provide effective and economic solutions to R D product development Includes Matlab exercises **Proceedings of the Tenth International Symposium on Applied Electromagnetic and Mechanics** T. Takagi,2003 This publication covers topics in the area of applied electromagnetics and mechanics Since starting in Japan in 1988 the ISEM has become a well known international forum on applied electromagnetics **Ultra-Wideband, Short-Pulse Electromagnetics 6** Eric L.

Mokole, Mark Kragalott, Karl R. Gerlach, 2003-12-31 Ultra Wideband Short Pulse Electromagnetics 6 was held at the American Electromagnetics 2002 conference June 3-7 2002 at the U S Naval Academy in Annapolis Maryland Topics include UWB Radar Systems UWB Antennas Scattering Pulsed Power Short Pulse Measurement Techniques Time Domain Computation Techniques Time Domain Signal Processing UWB Polarimetry UWB Sensing of Terrain Wavelets Target Detection Propagation Underground Electromagnetic Theory New Canonical Problems Benchmark Solutions Signal Processing

Introduction to Complex Mediums for Optics and Electromagnetics Werner S. Weiglhofer, Akhlesh Lakhtakia, 2003
Complex mediums electromagnetics CME describes the study of electromagnetic fields in materials with complicated response properties This truly multidisciplinary field commands the attentions of scientists from physics and optics to electrical and electronic engineering from chemistry to materials science to applied mathematics biophysics and nanotechnology This book is a collection of essays to explain complex mediums for optical and electromagnetic applications All contributors were requested to write with two aims first to educate second to provide a state of the art review of a particular subtopic The vast scope of CME exemplified by the actual materials covered in the essays should provide a plethora of opportunities to the novice and the initiated alike

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