

# **Electromagnetics of Bi-anisotropic Materials Theory and Applications**

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**Electrocomponent Science Monographs**

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# Electromagnetics Of Bianisotropic Materials Theory And Applications

**Andrey V. Osipov, Sergei A. Tretyakov**



## **Electromagnetics Of Bianisotropic Materials Theory And Applications:**

*Electromagnetics of Bi-anisotropic Materials* Anatoly Serdyukov,Igor Semchenko,Sergi Tretyakov,2001 This text focuses on fully bi anisotropic materials their microwave applications These are generally found in antennas scattering microwave optical technology solid state electronics plasma physics The book concentrates on recent challenging material from the world of electrical engineering

**Modern Electromagnetic Scattering Theory with Applications** Andrey V. Osipov,Sergei A. Tretyakov,2017-04-17 This self contained book gives fundamental knowledge about scattering and diffraction of electromagnetic waves and fills the gap between general electromagnetic theory courses and collections of engineering formulas The book is a tutorial for advanced students learning the mathematics and physics of electromagnetic scattering and curious to know how engineering concepts and techniques relate to the foundations of electromagnetics

**FDTD Modeling of Metamaterials: Theory and Applications** Yang Hao,Raj Mittra,2008-10-01 Master powerful new modeling tools that let you quantify and represent metamaterial properties with never before accuracy This first of its kind book brings you up to speed on breakthrough finite difference time domain techniques for modeling metamaterial characteristics and behaviors in electromagnetic systems This practical resource comes complete with sample FDTD scripts to help you pave the way to new metamaterial applications and advances in antenna microwave and optics engineering You get in depth coverage of state of the art FDTD modeling techniques and applications for electromagnetic bandgap EBG structures left handed metamaterials LHMs wire medium metamaterials for optics and other practical metamaterials You find steps for computing dispersion diagrams dealing with material dispersion properties and verifying the left handedness Moreover this comprehensive volume offers guidance for handling the unique properties possessed by metamaterials including how to define material parameters characterize the interface of metamaterial slabs and quantify their spatial as well as frequency dispersion characteristics The book also presents conformal and dispersive FDTD modeling of electromagnetic cloaks perfect lens and plasmonic waveguides as well as other novel antenna microwave and optical applications Over 190 illustrations support key topics throughout the book

*Surface Electromagnetics* Fan Yang,Yahya Rahmat-Samii,2019-06-20 Provides systematic coverage of the theory physics functional designs and engineering applications of advanced electromagnetic surfaces

Theory and Phenomena of Metamaterials Filippo Capolino,2017-12-19 Theory and Phenomena of Metamaterials offers an in depth look at the theoretical background and basic properties of electromagnetic artificial materials often called metamaterials A volume in the Metamaterials Handbook this book provides a comprehensive guide to working with metamaterials using topics presented in a concise review format along with numerous references With contributions from leading researchers this text covers all areas where artificial materials have been developed Each chapter in the text features a concluding summary as well as various cross references to address a wide range of disciplines in a single volume

*Analytical Modeling in Applied Electromagnetics* Sergei Tretyakov,2003 Analytical

Modeling in Applied Electromagnets encompasses the most complete treatment on the subject published to date focusing on the nature of models in radio engineering This leading edge resource brings you detailed coverage of the latest topics including metamaterials photonic bandgaps and artificial impedance surfaces and applies these concepts to a wide range of applications The book provides you with working examples that are mainly directed to antenna applications but the modeling methods and results can be used for other practical devices as well      *Computational Electromagnetics* Raj

Mittra,2013-08-20 Emerging Topics in Computational Electromagnetics in Computational Electromagnetics presents advances in Computational Electromagnetics This book is designed to fill the existing gap in current CEM literature that only cover the conventional numerical techniques for solving traditional EM problems The book examines new algorithms and applications of these algorithms for solving problems of current interest that are not readily amenable to efficient treatment by using the existing techniques The authors discuss solution techniques for problems arising in nanotechnology bioEM metamaterials as well as multiscale problems They present techniques that utilize recent advances in computer technology such as parallel architectures and the increasing need to solve large and complex problems in a time efficient manner by using highly scalable algorithms      **The Design of Chiral Metamaterials and Metasurfaces** Yaoliang Song,Igor

Semchenko,Sergei Khakhomov,Lei Wang,2025-01-27 The Design of Chiral Metamaterials and Metasurfaces covers the theoretical and experimental study of the properties of chiral metamaterials composite media that can be engineered to exhibit unique electromagnetic properties metasurfaces and helix structured systems This book also focuses on the practical applications of the physical properties and the phenomena that are characteristic of chiral metamaterials including electromagnetic signal polarization conversion selection and electromagnetic wave absorption Given that chiral materials and metasurfaces offer solutions for manipulating electromagnetic waves by incorporating an additional degree of freedom namely the ability to control the polarization of the wave this book provides a welcome update for researchers and engineers working in the fields of optics radio physics biophysics and condensed matter physics Covers recent research work on the design of new metamaterials and metasurfaces Introduces chiral metamaterials and their manufacturing methods Discusses the optical rotation mechanism of chiral materials based on the chiral characteristics of natural DNA double helix structural fragments Presents a theory for the design of new metamaterials and metasurfaces and their applications Provides the simulation and experimentation of artificial spiral structures planar asymmetric SRR nested multilayer stacking and interconnection structural metamaterials and metasurfaces      **Multiforms, Dyadics, and Electromagnetic Media** Ismo

V. Lindell,2015-02-20 This book applies the four dimensional formalism with an extended toolbox of operation rules allowing readers to define more general classes of electromagnetic media and to analyze EM waves that can exist in them End of chapter exercises Formalism allows readers to find novel classes of media Covers various properties of electromagnetic media in terms of which they can be set in different classes      *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.

**Advances in Electromagnetics of Complex Media and Metamaterials** Saïd Zouhdi, Ari Sihvola, Mohamed Arsalane, 2012-12-06 The NATO Advanced Research Workshop Bianisotropics 2002 was held in Marrakesh, Morocco, during 8-11 May 2002. This was the 9th International Conference on Electromagnetics of Complex Media, belonging to a series of meetings where the focus is on electromagnetics of chiral, bianisotropic, and other materials that may respond to electric and magnetic field excitations in a special manner. The first of these meetings was held in Espoo, Finland, 1993, and the following venues were Gomel, Belarus, 1993; Périgueux, France, 1994; State College, Pennsylvania, USA, 1995; the rivers and channels between St. Petersburg and Moscow in Russia, 1996; Glasgow, Scotland, 1997; Brunswick, Germany, 1998; and Lisbon, Portugal, 2000. The present book contains full articles of several of the presentations that were given in the Marrakesh conference. In Bianisotropics 2002, 8 review lectures, 14 invited lectures, and 68 contributed talks and posters were presented. Of these presentations, after a double review process, 28 contributions have achieved their final form on the pages to follow. From the contributions of the meeting, also another publication is being planned: a Special Issue of the journal *Electromagnetics* will be devoted to complex materials. Guest editors for this issue are Keith W. Whites and Saïd Zouhdi. The chairmen of Bianisotropics 2002 conference were Saïd Zouhdi, Pierre et Marie Curie University, Paris, and Mohamed Arsalane, Cadi Ayyad University, Marrakesh, who were assisted by scientists from Moroccan universities and the International Bianisotropics Conference Committee.

World Scientific Handbook Of Metamaterials And Plasmonics (In 4 Volumes) Stefan A. Maier, 2017-10-12 Metamaterials represent a new, emerging, innovative field of research which has shown rapid acceleration over the last couple of years. In this handbook, we present the richness of the field of metamaterials in its widest sense, describing artificial media with sub-wavelength structure for control over wave propagation in four volumes. Volume 1 focuses on the fundamentals of electromagnetic metamaterials in all their richness, including metasurfaces and hyperbolic metamaterials.

Volume 2 widens the picture to include elastic acoustic and seismic systems whereas Volume 3 presents nonlinear and active photonic metamaterials Finally Volume 4 includes recent progress in the field of nanoplasmonics used extensively for the tailoring of the unit cell response of photonic metamaterials In its totality we hope that this handbook will be useful for a wide spectrum of readers from students to active researchers in industry as well as teachers of advanced courses on wave propagation

**Wave Propagation** Andrey Petrin, 2011-03-16 The book collects original and innovative research studies of the experienced and actively working scientists in the field of wave propagation which produced new methods in this area of research and obtained new and important results Every chapter of this book is the result of the authors achieved in the particular field of research The themes of the studies vary from investigation on modern applications such as metamaterials photonic crystals and nanofocusing of light to the traditional engineering applications of electrodynamics such as antennas waveguides and radar investigations

*An Introduction to Metamaterials and Nanophotonics* Constantin Simovski, Sergei Tretyakov, 2020-11-26 This book offers a unified presentation of metamaterials building from fundamental nanophotonic principles

*Finite Difference Methods, Theory and Applications* Ivan Dimov, István Faragó, Lubin Vulkov, 2015-06-16 This book constitutes the thoroughly refereed post conference proceedings of the 6th International Conference on Finite Difference Methods FDM 2014 held in Lozenetz Bulgaria in June 2014 The 36 revised full papers were carefully reviewed and selected from 62 submissions These papers together with 12 invited papers cover topics such as finite difference and combined finite difference methods as well as finite element methods and their various applications in physics chemistry biology and finance

*Advanced Electromagnetism: Foundations: Theory And Applications* Terence William Barrett, Dale M Grimes, 1995-11-16 *Advanced Electromagnetism Foundations Theory and Applications* treats what is conventionally called electromagnetism or Maxwell's theory within the context of gauge theory or Yang Mills theory A major theme of this book is that fields are not stand alone entities but are defined by their boundary conditions The book has practical relevance to efficient antenna design the understanding of forces and stresses in high energy pulses ring laser gyros high speed computer logic elements efficient transfer of power parametric conversion and many other devices and systems Conventional electromagnetism is shown to be an underdeveloped rather than a completely developed field of endeavor with major challenges in development still to be met

*Metamaterial Multiverse* Igor I Smolyaninov, 2018-11-29 Many physical properties of our universe such as the relative strength of the fundamental interactions the value of the cosmological constant etc appear to be fine tuned for existence of human life One possible explanation of this fine tuning assumes existence of a multiverse which consists of a very large number of individual universes having different physical properties Intelligent observers populate only a small subset of these universes which are fine tuned for life In this book we will review several interesting metamaterial systems which capture many features of important cosmological models and offer insights into the physics of many other non trivial spacetime geometries such as microscopic black holes closed time like curves CTCs

and the Alcubierre warp drive      Engineering for Sustainable Future Annamária R. Várkonyi-Kóczy, 2020-01-13 This book presents selected papers from the 18th International Conference on Global Research and Education Inter Academia 2019 held in Budapest and Balatonf red on September 4 7 2019 The main goal of the conference was to provide an international forum for reviewing and assessing recent trends in both fundamental and applied research In addition to sparking interest in recent research findings the conference aimed to strengthen cooperation among the partners of the Inter Academia community in the pursuit of new theoretical and practical research advances The book contains a selection of papers based on lectures presented at the Inter Academia 2019 conference and covering hot and challenging topics in the fields of machine intelligence and computer science modeling and simulation measurement monitoring and identification electronics and nanoelectronics bio and environmental engineering chemical processes and material science together with related educational aspects Accordingly it offers a valuable resource for the global scientific community      **Composite Media with Weak Spatial Dispersion** Constantin Simovski, 2018-11-08 This book presents a modern theory of so called weak spatial dispersion WSD in composite media of optically small inclusions without natural magnetism and optical nonlinearity WSD manifests in two important phenomena called bianisotropy and artificial magnetism whose microscopic origin is thoroughly studied in this book The theory of this book is applicable to the natural media with WSD such as chiral materials However emphasis is given to artificial media too with the idea to engineer needed electromagnetic properties The text describes a homogenization model of effectively continuous media with multipole electromagnetic response taking into account the interface effects Another model is developed for so called metamaterials in which artificial magnetism can be a resonant phenomenon and may result in the violation of Maxwell s boundary conditions and other challenges The book will hopefully improve the understanding of WSD and help readers to correctly describe and characterize metamaterials      *Finite Elements and Symmetry* Rachid Touzani, 2020-07-01 This Special Issue of the journal Symmetry contains a collection of papers devoted to the use of symmetry in finite element approximation of partial differential equations More specifically applications ranging from mechanical engineering to electromagnetics and fluid dynamics are considered Both theoretical and computational aspects are considered The contributions were selected to ensure the widest variety of themes In particular we wanted to include both theoretical papers well posedness stability and numerical computations

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