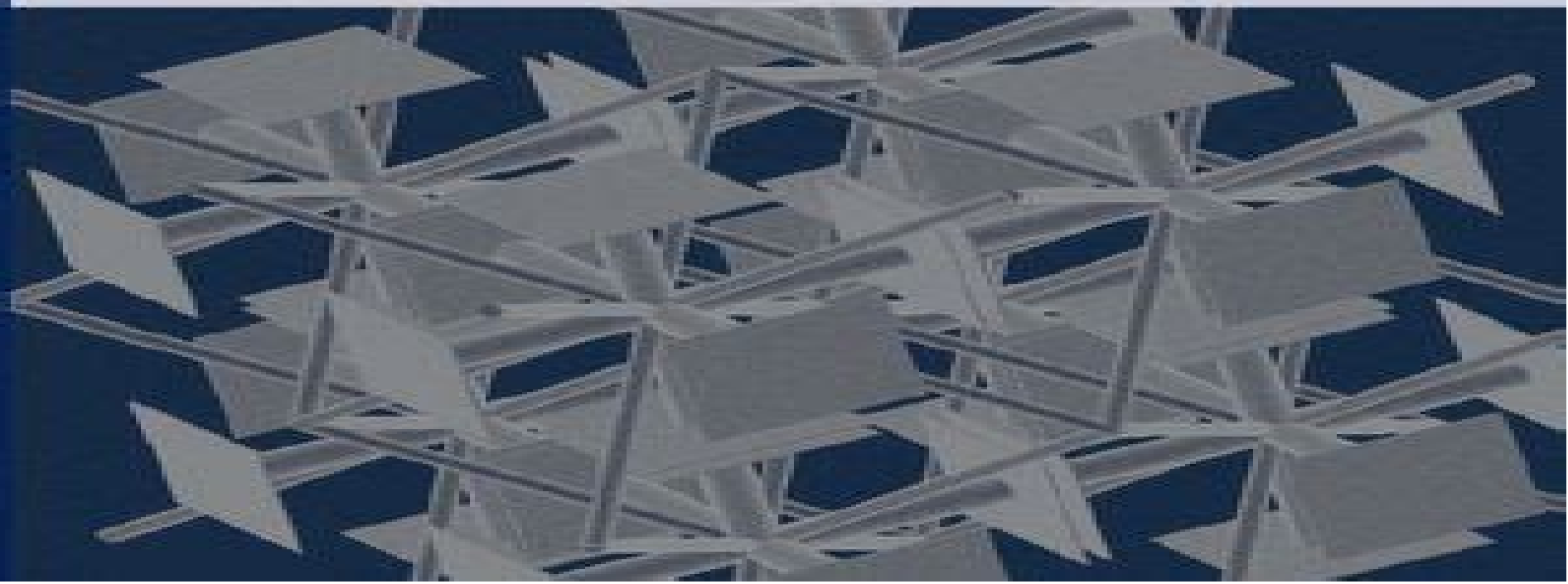


Electromagnetic Metamaterials

*Transmission Line Theory and
Microwave Applications*

Christophe Caloz and Tatsuo Itoh



Electromagnetic Metamaterials Transmission Line Theory And Microwave Applications

Long Li, Yan Shi, Tie Jun Cui



Electromagnetic Metamaterials Transmission Line Theory And Microwave Applications:

Electromagnetic Metamaterials Christophe Caloz, Tatsuo Itoh, 2005-11-22 Electromagnetic metamaterials from fundamental physics to advanced engineering applications This book presents an original generalized transmission line approach associated with non resonant structures that exhibit larger bandwidths lower loss and higher design flexibility It is based on the novel concept of composite right left handed CRLH transmission line metamaterials MMs which has led to the development of novel guided wave radiated wave and refracted wave devices and structures The authors introduced this powerful new concept and are therefore able to offer readers deep insight into the fundamental physics needed to fully grasp the technology Moreover they provide a host of practical engineering applications The book begins with an introductory chapter that places resonant type and transmission line metamaterials in historical perspective The next six chapters give readers a solid foundation in the fundamentals and practical applications Fundamentals of LH MMs describes the fundamental physics and exotic properties of left handed metamaterials TL Theory of MMs establishes the foundations of CRLH structures in three progressive steps ideal transmission line LC network and real distributed structure Two Dimensional MMs develops both a transmission matrix method and a transmission line method to address the problem of finite size 2D metamaterials excited by arbitrary sources Guided Wave Applications and Radiated Wave Applications present a number of groundbreaking applications developed by the authors The Future of MMs sets forth an expert view on future challenges and prospects This engineering approach to metamaterials paves the way for a new generation of microwave and photonic devices and structures It is recommended for electrical engineers as well as physicists and optical engineers with an interest in practical negative refractive index structures and materials Electromagnetic Metamaterials Christophe Caloz, Tatsuo Itoh, 2006

Metamaterials Tie Jun Cui, David Smith, Ruopeng Liu, 2009-10-30 Metamaterials Theory Design and Applications goes beyond left handed materials LHM or negative index materials NIM and focuses on recent research activity Included here is an introduction to optical transformation theory revealing invisible cloaks EM concentrators beam splitters and new type antennas a presentation of general theory on artificial metamaterials composed of periodic structures coverage of a new rapid design method for inhomogeneous metamaterials which makes it easier to design a cloak and new developments including but not limited to experimental verification of invisible cloaks FDTD simulations of invisible cloaks the microwave and RF applications of metamaterials sub wavelength imaging using anisotropic metamaterials dynamical metamaterial systems photonic metamaterials and magnetic plasmon effects of metamaterials **Electromagnetic**

Metamaterials and Metasurfaces: From Theory To Applications Long Li, Yan Shi, Tie Jun Cui, 2024-02-18 The subject of this book is the fast developing area of research known as metamaterials metasurfaces and some of their engineering applications This book comprehensively presents the state of the art of metamaterials metasurfaces from theory to applications The theoretical side includes electrodynamics of left handed medium generalized Snell's law digital coding

metamaterials metasurfaces group theory of metamaterials information metamaterials and metasurfaces etc On the application side a wide range of design examples are discussed including metamaterial antennas electromagnetic interference frequency selective surfaces wireless power transmission and energy harvesting cloaking and radar cross section reduction orbital angular momentum wireless communication imaging etc The book provides researchers engineers and graduate students with a variety of new discoveries results information and knowledge in the field of metamaterials and metasurfaces

Electromagnetic Metamaterials Kazuaki Sakoda, 2019-09-09 This book presents novel and fundamental aspects of metamaterials which have been overlooked in most previous publications including chirality non reciprocity and the Dirac cone formation It also describes the cutting edge achievements of experimental studies in the last several years the development of high regularity metasurfaces in optical frequencies high performance components in the terahertz range and active chiral nonlinear and non reciprocal metamaterials in the microwave range Presented here are unique features such as tunable metamaterials based on the discharge plasma selective thermal emission from plasmonic metasurfaces and the classical analogue of the electromagnetically induced transparency These most advanced research achievements are explained in understandable terms by experts in each topic The descriptions with many practical examples facilitate learning and not only researchers and experts in this field but also graduate students can read the book without difficulty The reader finds how these new concepts and new developments are being utilized for practical applications

Metamaterial for Microwave Applications Mohammad Tariqul Islam, 2023-07-17 Metamaterials are geometrically patterned new materials that are arranged in periodic way on top of dielectric substrates to exhibit properties unobtainable naturally This book discusses artificially engineered structures for the development of metamaterials and meta surfaces in the advancement of microwave sensors in sensing technology non invasive microwave based imaging system antenna performance improvement with miniaturization flexible materials for microwave applications and finally metamaterials in antennas for its use in nanosatellites The book serves as a reference for designing industrial applications of metamaterials in 5G wireless communication system and healthcare technology using metamaterials and meta surfaces This well illustrated book will be a useful resource for students engineers physicists and other researchers for various microwave applications It provides newcomers with fundamental knowledge of metamaterials and their prospective applications The researchers will benefit from thought provoking perspectives that will enhance their knowledge and steer them to modern day innovation

Theory and Applications of Applied Electromagnetics Hamzah Asyrani Sulaiman, Mohd Azlishah Othman, Mohamad Zoinol Abidin Abd. Aziz, Mohd Fareq Abd Malek, 2015-05-13 In this book experts from academia and industry present the latest advances in scientific theory relating to applied electromagnetics and examine current and emerging applications particularly within the fields of electronics communications and computer technology The book is based on presentations delivered at APPEIC 2014 the 1st Applied Electromagnetic International Conference held in Bandung Indonesia in December 2014 The conference

provided an ideal platform for researchers and specialists to deliver both theoretically and practically oriented contributions on a wide range of topics relevant to the theme of nurturing applied electromagnetics for human technology. Many novel aspects were addressed and the contributions selected for this book highlight the relevance of advances in applied electromagnetics to a variety of industrial engineering problems and identify exciting future directions for research.

Applications of Metamaterials Filippo Capolino, 2017-12-19 This book uses the first volume's exploration of theory, basic properties and modeling topics to develop readers' understanding of applications and devices that are based on artificial materials. It explores a wide range of applications in fields including electronics, telecommunications, sensing, medical instrumentation and data storage. The text also includes a practical user's guide and explores key areas in which artificial materials have developed. It includes experts' perspectives on current and future applications of metamaterials to present a well-rounded view on state-of-the-art technologies.

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.

Broadband Metamaterials in Electromagnetics Douglas H. Werner, 2017-07-06 The rapid development of technology based on metamaterials coupled with the recent introduction of the transformation optics technique provides an unprecedented ability for device designers to manipulate and control the behavior of electromagnetic wave phenomena. Many of the early metamaterial designs, such as negative index materials and electromagnetic bandgap surfaces, were limited to operation only over a very narrow bandwidth. However, recent groundbreaking work reported by several international research groups on the development of broadband metamaterials has opened up the doors to an exciting frontier in the creation of new devices for applications ranging from radio frequencies to visible wavelengths. This book contains a collection of eight chapters that cover recent cutting-edge contributions to the theoretical, numerical and experimental aspects of

broadband metamaterials **Metamaterials and Wave Control** Eric Lheurette, 2013-12-04 Since the concept was first proposed at the end of the 20th Century metamaterials have been the subject of much research and discussion throughout the wave community More than 10 years later the number of related published articles is increasing significantly On the one hand this success can be attributed to dreams of new physical objects which are the consequences of the singular properties of metamaterials Among them we can consider the examples of perfect lensing and invisibility cloaking On other hand metamaterials also provide new tools for the design of well known wave functions such as antennas for electromagnetic waves The goal of this book is to propose an overview of the concept of metamaterials as a perspective on a new practical tool for wave study and engineering This includes both the electromagnetic spectrum from microwave to optics and the field of acoustic waves Contents 1 Overview of Microwave and Optical Metamaterial Technologies Didier Lippens 2 MetaLines Transmission Line Approach for the Design of Metamaterial Devices Bruno Sauviac 3 Metamaterials for Non Radiative Microwave Functions and Antennas Divitha Seetharamdoo and Bruno Sauviac 4 Toward New Prospects for Electromagnetic Compatibility Divitha Seetharamdoo 5 Dissipative Loss in Resonant Metamaterials Philippe Tassin Thomas Koschny and Costas M Soukoulis 6 Transformation Optics and Antennas Andr de Lustrac Shah Nawaz Burokur and Paul Henri Tichit 7 Metamaterials for Control of Surface Electromagnetic and Liquid Waves S bastien Guenneau Mohamed Farhat Muamer Kadic Stefan Enoch and Romain Quidant 8 Classical Analog of Electromagnetically Induced Transparency Philippe Tassin Thomas Koschny and Costas M Soukoulis *Metamaterials - Progress, Devices and Applications* ,2025-07-23 This book serves as a guide for students researchers and faculty members in the field of metamaterials based devices presenting recent advances and trends in this subject The book comprises a total of five chapters providing in depth knowledge on numerical methods and the various properties and applications of metamaterials The significant applications considered are metamaterial based absorbers and communications devices Each chapter comprises a detailed background on the considered application recent work in the area a possible solution and future aspects **Microstrip Lines and Slotlines, Fourth Edition** Ramesh Garg, Inder J. Bahl, 2024-10-31 Microstrip Lines and Slotlines Fourth Edition is an indispensable resource for practicing engineers This edition is updated to reflect the latest developments in the field providing extensive analysis techniques and CAD design and modeling information This volume covers approximate and full wave analysis techniques accurate circuit model extraction and design information focusing on miniaturization broadband operation and precise design It also incorporates the most recent information from conferences journals books and personal research New topics on Metamaterial Based Transmission Lines and Numerical Simulation and Modeling of transmission lines are introduced aligning with the book's core themes Some of the key updates included in this fourth edition are the integration of significant materials significant revisions reflecting the latest research and the introduction of cutting edge topics enhancing the existing content With these comprehensive updates Microstrip Lines and Slotlines Fourth Edition ensures that readers have

access to the most relevant and cutting edge information in the field of printed transmission lines This book is a must have for professionals and researchers dedicated to advancing their knowledge and expertise in this dynamic area *Modern Electromagnetic Scattering Theory with Applications* Andrey V. Osipov, Sergei A. Tretyakov, 2017-01-20 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 *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 *Metamaterials and Plasmonics: Fundamentals, Modelling, Applications* Said Zouhdi, Ari Sihvola, Alexey P. Vinogradov, 2008-12-16 Metamaterials and plasmonics are cross disciplinary fields that are emerging into the mainstream of many scientific areas Examples of scientific and technical fields which are concerned are electrical engineering micro and nanotechnology microwave engineering optics optoelectronics and semiconductor technologies In plasmonics the interplay between propagating electromagnetic waves and free electron oscillations in materials are exploited to create new components and applications On the other hand metamaterials refer to artificial composites in which small artificial elements through their collective interaction creates a desired and unexpected macroscopic response function that is not present in the constituent materials This book charts the state of the art of these fields In May 2008 world leading experts in metamaterials and plasmonics gathered into a NATO Advanced Research Workshop in Marrakech Morocco The present book contains extended versions of 22 of the presentations held in the workshop covering the general aspects of the field as well as design and modelling questions of plasmonics and metamaterials fabrication issues and applications like absorbers and antennas **Advanced Millimeter-wave Technologies** Duixian Liu, Ulrich Pfeiffer, Janusz Grzyb, Brian Gaucher, 2009-03-03 This book explains one of the hottest topics in wireless and electronic devices community namely the wireless communication at mmWave frequencies especially at the 60 GHz ISM band It provides the reader with knowledge and techniques for mmWave antenna design evaluation antenna and chip packaging Addresses practical engineering issues such as RF material evaluation and selection antenna and packaging requirements manufacturing tolerances antenna and system interconnections and antenna One of the first books to discuss the emerging research and application areas particularly chip packages with integrated antennas wafer

scale mmWave phased arrays and imaging Contains a good number of case studies to aid understanding Provides the antenna and packaging technologies for the latest and emerging applications with the emphases on antenna integrations for practical applications such as wireless USB wireless video phase array automobile collision avoidance radar and imaging

Tutorials in Metamaterials Mikhail A. Noginov, Viktor A. Podolskiy, 2016-04-19 From science fiction to science laboratories Discover the State of the Art in Photonic Metamaterials Metamaterials composite media with unusual optical properties have revolutionized the landscape of optical science and engineering over the past decades Metamaterials have transformed science fiction like concepts of superresolution imaging and optic

Modern Small Antennas Kyohei Fujimoto, Hisashi Morishita, 2014-01-09 If you are involved in designing and developing small antennas this complete cutting edge guide covers everything you need to know From fundamentals and basic theory to design optimization evaluation measurements and simulation techniques all the essential information is included You will also get many practical examples from a range of wireless systems whilst a glossary is provided to bring you up to speed on the latest terminology A wide variety of small antennas is covered and design and practice steps are described for each type electrically small functionally small physically constrained small and physically small Whether you are a professional in industry a researcher or a graduate student this is your essential guide to small antennas

Quality, Reliability, Security and Robustness in Heterogeneous Networks Karan Singh, Amit K. Awasthi, 2013-07-04 This book constitutes the thoroughly refereed post conference proceedings of the 9th International Conference on Heterogeneous Networking for Quality Reliability Security and Robustness QShine 2013 which was held in National Capital Region NCR of India during January 2013 The 87 revised full papers were carefully selected from 169 submissions and present the recent technological developments in broadband high speed networks peer to peer networks and wireless and mobile networks

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