



# Metamaterials With Negative Parameters Theory Design And Microwave Applications Wiley Series In Microwave And Optical Engineering

**Mohammad Tariqul Islam**



## **Metamaterials With Negative Parameters Theory Design And Microwave Applications Wiley Series In Microwave And Optical Engineering:**

**Metamaterials with Negative Parameters** Ricardo Marqués, Ferran Martín, Mario Sorolla, 2011-09-20 The first general textbook to offer a complete overview of metamaterial theory and its microwave applications Metamaterials with Negative Parameters represents the only unified treatment of metamaterials available in one convenient book Devoted mainly to metamaterials that can be characterized by a negative effective permittivity and or permeability the book includes a wide overview of the most important topics scientific fundamentals and technical applications of metamaterials Chapter coverage includes the electrodynamics of left handed media synthesis of bulk metamaterials synthesis of metamaterials in planar technology microwave applications of metamaterial concepts and advanced and related topics including SRR and CSRR based admittance surfaces magneto and electro inductive waves and sub diffraction imaging devices A list of problems and references is included at the end of each chapter and a bibliography offers a complete up to date representation of the current state of the art in metamaterials Geared toward students and professionals alike Metamaterials with Negative Parameters is an ideal textbook for postgraduate courses and also serves as a valuable introductory reference for scientists and RF microwave engineers

Applications of Electromagnetic Waves Reza K. Amineh, 2021-01-20 Electromagnetic EM waves carry energy through propagation in space This radiation associates with entangled electric and magnetic fields which must exist simultaneously Although all EM waves travel at the speed of light in vacuum they cover a wide range of frequencies called the EM spectrum The various portions of the EM spectrum are referred to by various names based on their different attributes in the emission transmission and absorption of the corresponding waves and also based on their different practical applications There are no certain boundaries separating these various portions and the ranges tend to overlap Overall the EM spectrum from the lowest to the highest frequency longest to shortest wavelength contains the following waves radio frequency RF microwaves millimeter waves terahertz infrared visible light ultraviolet X rays and gamma rays This Special Issue consists of sixteen papers covering a broad range of topics related to the applications of EM waves from the design of filters and antennas for wireless communications to biomedical imaging and sensing and beyond

**Tunable Microwave Metamaterial Structures** Matthias Maasch, 2016-01-23 This book presents original findings on tunable microwave metamaterial structures and describes the theoretical and practical issues involved in the design of metamaterial devices Special emphasis is given to tunable elements and their advantages in terms of feeding network simplification Different biasing schemes and feeding network topologies are presented together with extensive prototype measurements and simulations The book describes a novel unique solution for beam steering and beam forming applications and thus paves the way for the diffusion of new agile communication system components At the same time it provides readers with an outstanding and timely review of wave propagation in periodic structures tunability of metamaterials and the

technological constraints that need to be considered in the design of reconfigurable microwave components

**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

**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

**Metamaterials and Metasurfaces** Josep Canet-Ferrer, 2019-01-03 Metamaterials have provided applications in spectral ranges covering radio frequencies and ultraviolet However most applications have been extrapolated to the visible or near infrared after being developed at the GHz level This is due to technological reasons since fabrication of microwave antennas is not as demanding as THz resonators or plasmonic nanostructures Accordingly this book has been divided into three parts In the first part fundamentals of metamaterials and metadevices are discussed while describing recent advances in the field In the second part the discussion is extended to the different spectral ranges focusing on the strategies for enabling the reconfigurability of metadevices Given the increasing interest in THz applications these can be found in the third part

*Enabling Technologies for High Spectral-efficiency Coherent Optical Communication Networks* Xiang Zhou, Chongjin Xie, 2016-04-29 Enabling Technologies for High Spectral efficiency Coherent Optical Communication Networks Presents the technological advancements that enable high spectral efficiency and high capacity fiber optic communication systems and networks This book examines key technology advances in high spectral efficiency fiber optic communication systems and networks enabled by the use of coherent detection and digital signal processing DSP The first of this book's 16 chapters is a detailed introduction Chapter 2 reviews the modulation formats while Chapter 3 focuses on detection and error correction technologies for coherent optical communication systems Chapters 4 and 5 are devoted to Nyquist WDM and orthogonal frequency division multiplexing OFDM In chapter 6 polarization and nonlinear impairments in coherent optical communication systems are discussed The fiber nonlinear effects in a non dispersion managed system are covered in chapter 7 Chapter 8 describes linear impairment equalization and Chapter 9 discusses various nonlinear mitigation techniques Signal synchronization is covered in Chapters 10 and 11 Chapter 12 describes the main constraints put on the DSP algorithms by the hardware structure Chapter 13 addresses the fundamental concepts and recent progress of photonic integration Optical performance monitoring and elastic optical network technology are the subjects of Chapters 14

and 15 Finally Chapter 16 discusses spatial division multiplexing and MIMO processing technology a potential solution to solve the capacity limit of single mode fibers Contains basic theories and up to date technology advancements in each chapter Describes how capacity approaching coding schemes based on low density parity check LDPC and spatially coupled LDPC codes can be constructed by combining iterative demodulation and decoding Demonstrates that fiber nonlinearities can be accurately described by some analytical models such as GN EGN model Presents impairment equalization and mitigation techniques Enabling Technologies for High Spectral efficiency Coherent Optical Communication Networks is a reference for researchers engineers and graduate students

**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

**Multiscale Modelling of Advanced Materials** Runa Kumari, Balamati Choudhury, 2020-02-08 This volume covers the recent advances and research on the modeling and simulation of materials The primary aim is to take the reader through the mathematical analysis to the theories of electricity and magnetism using multiscale modelling covering a variety of numerical methods such as finite difference time domain FDTD finite element method FEM and method of moments The book also introduces the multiscale Green's function GF method for static and dynamic modelling and simulation results of modern advanced nanomaterials particularly the two dimensional 2D materials This book will be of interest to researchers and industry professionals working on advanced materials

**Fundamentals of Photonics** Bahaa E. A. Saleh, Malvin Carl Teich, 2020-03-04 Fundamentals of Photonics A complete thoroughly updated full color third edition Fundamentals of Photonics Third Edition is a self contained and up to date introductory level textbook that thoroughly surveys this rapidly expanding area of engineering and applied physics Featuring a blend of theory and applications coverage includes detailed accounts of the primary theories of light including ray optics wave optics electromagnetic optics and photon optics as well as the interaction of light and matter Presented at increasing levels of complexity preliminary sections build toward more advanced topics such as Fourier optics and holography photonic crystal optics guided wave and fiber optics LEDs and lasers acousto optic and electro optic devices

nonlinear optical devices ultrafast optics optical interconnects and switches and optical fiber communications The third edition features an entirely new chapter on the optics of metals and plasmonic devices Each chapter contains highlighted equations exercises problems summaries and selected reading lists Examples of real systems are included to emphasize the concepts governing applications of current interest Each of the twenty four chapters of the second edition has been thoroughly updated

**Intersection of Artificial Intelligence, Data Science, and Cutting-Edge Technologies: From Concepts to Applications in Smart Environment** Yousef Farhaoui,Tutut Herawan,Agbotiname Lucky Imoize,Ahmad El Allaoui,2025-05-02 This book explores the integration of AI data science and emerging technologies to create innovative practical solutions for smart environments This book offers a comprehensive framework that combines theoretical concepts with real world applications focusing on how these technologies intersect to transform various domains such as healthcare urban planning and sustainable development The book s novel approach emphasizes interdisciplinary methods and problem solving in dynamic data driven environments with case studies illustrating practical impacts and advancements in smart city infrastructure IoT and predictive analytics It is designed for researchers practitioners and advanced students interested in AI and data science applications within smart systems as well as professionals seeking actionable insights to apply these technologies in complex environments

*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

*Physics of Multiantenna Systems and Broadband Processing* T. K. Sarkar,Magdalena Salazar-Palma,Eric L. Mokole,2008-07-10 An analysis of the physics of multiantenna systems Multiple Input Multiple Output MIMO technology is one of the current hot topics in emerging wireless technologies This book fills the important need for an authoritative reference on the merits of MIMO systems based on physics and provides a sound theoretical basis for its practical implementation The book also addresses the important issues related to broadband adaptive processing Written by three internationally known researchers Physics of Multiantenna Systems and Broadband Processing Provides a thorough discussion of the physical and mathematical principles involved in MIMO and adaptive systems Examines the electromagnetic framework of wireless communications systems Uses Maxwell s theory to provide a system based framework for the abstract concept of channel capacity Performs various numerical simulations to observe how a typical system will behave in practice Provides a mathematical formulation for broadband adaptive processing and direction of arrival estimation using real antenna arrays Integrates signal processing and electromagnetics to address the performance of realistic multiantenna systems With Physics of Multiantenna Systems and

Broadband Processing communication systems engineers graduate students researchers and developers will gain a thorough scientific understanding of this important new technology **EM Detection of Concealed Targets** David J.

Daniels,2009-11-25 THE LATEST EM TECHNIQUES FOR DETECTING CONCEALED TARGETS WHETHER EXPLOSIVES WEAPONS OR PEOPLE Extensively illustrated from basic principles to system design the fundamental concepts of RF microwave millimeter wave and terahertz detection systems and techniques to find concealed targets are explained in this publication These concealed targets may be explosive devices or weapons which can be buried in the ground concealed in building structures hidden under clothing or inside luggage Concealed targets may also be people who are stowaways or victims of an avalanche or earthquake Although much information is available in conference proceedings and professional society publications this book brings all the relevant information in a single expertly written and organized volume Readers gain an understanding of the physics underlying electromagnetic EM detection methods as well as the factors that affect the performance of EM detection equipment helping them choose the right type of equipment and techniques to meet the demands of particular tasks Among the topics covered are Ultra wideband radar and ground penetrating radar Millimeter sub millimeter and terahertz systems Radar systems including Doppler harmonic impulse FMCW and holographic Radiometric systems Nuclear quadrupole resonance systems Author David Daniels has many years of experience designing and deploying EM systems to detect concealed targets As a result this publication is essential for scientists and engineers who are developing or using EM equipment and techniques for a diverse range of purposes including homeland security crime prevention or the detection of persons **Electromagnetic Simulation Techniques Based on the FDTD Method**

W. Yu,2009-09-15 Bridges the gap between FDTD theory and the implementation of practical simulation techniques This is the first publication that guides readers step by step through the implementation of electromagnetic simulation techniques based on FDTD methods These simulation techniques serve as an essential bridge between FDTD methods and their applications Moreover the book helps readers better understand the underlying logic of FDTD methods so that they can design FDTD projects using either commercial electromagnetic software packages or their own codes in order to solve practical engineering problems The book begins with two chapters that introduce the basic concepts of the 3 D Cartesian FDTD method followed by discussions of advanced FDTD methods such as conformal techniques dispersive media circuit elements and near to far field transformation Next the book Presents basic concepts of parallel processing techniques and systems including parallel FDTD techniques and systems Explores simulation techniques based on FDTD methods Illustrates practical simulation techniques using engineering applications Introduces advanced simulation techniques Each chapter concludes with references to help readers investigate particular topics in greater depth Each chapter also includes problem sets that challenge readers to put their new FDTD and simulation skills into practice By bridging the gap between FDTD theory and practical simulation techniques this publication is an invaluable guide for students and engineers who need to

solve a wide range of design problems in RF antenna and microwave engineering      **Electromagnetic Shielding** Salvatore Celozzi, Rodolfo Araneo, Giampiero Lovat, 2008-05-16 The definitive reference on electromagnetic shielding materials configurations approaches and analyses This reference provides a comprehensive survey of options for the reduction of the electromagnetic field levels in prescribed areas After an introduction and an overview of available materials it discusses figures of merit for shielding configurations the shielding effectiveness of stratified media numerical methods for shielding analyses apertures in planar metal screens enclosures and cable shielding Up to date and comprehensive Electromagnetic Shielding Explores new and innovative techniques in electromagnetic shielding Presents a critical approach to electromagnetic shielding that highlights the limits of formulations based on plane wave sources Analyzes aspects not normally considered in electromagnetic shielding such as the effects of the content of the shielding enclosures Includes references at the end of each chapter to facilitate further study The last three chapters discuss frequency selective shielding shielding design procedures and uncommon ways of shielding areas ripe for further research This is an authoritative hands on resource for practicing telecommunications and electrical engineers as well as researchers in industry and academia who are involved in the design and analysis of electromagnetic shielding structures      Fundamentals of Wavelets Jaideva C. Goswami, Andrew K. Chan, 2011-03-08 Most existing books on wavelets are either too mathematical or they focus on too narrow a specialty This book provides a thorough treatment of the subject from an engineering point of view It is a one stop source of theory algorithms applications and computer codes related to wavelets This second edition has been updated by the addition of a section on Other Wavelets that describes curvelets ridgelets lifting wavelets etc a section on lifting algorithms Sections on Edge Detection and Geophysical Applications Section on Multiresolution Time Domain Method MRTD and on Inverse problems      *Solar Cells and Their Applications* Lewis M. Fraas, Larry D. Partain, 2010-10-29 A major update of solar cell technology and the solar marketplace Since the first publication of this important volume over a decade ago dramatic changes have taken place with the solar market growing almost 100 fold and the U S moving from first to fourth place in the world market as analyzed in this Second Edition Three bold new opportunities are identified for any countries wanting to improve market position The first is combining pin solar cells with 3X concentration to achieve economic competitiveness near term The second is charging battery powered cars with solar cell generated electricity from arrays in surrounding areas including the car owners homes while simultaneously reducing their home electricity bills by over ninety percent The third is formation of economic unions of sufficient combined economic size to be major competitors In this updated edition feed in tariffs are identified as the most effective approach for public policy Reasons are provided to explain why pin solar cells outperform more traditional pn solar cells Field test data are reported for nineteen percent pin solar cells and for 500X concentrating systems with bare cell efficiencies approaching forty percent Paths to bare cell efficiencies over fifty percent are described and key missing program elements are identified Since government support is needed for new technology



prototype integration and qualification testing before manufacturing scale up the key economic measure is identified in this volume as the electricity cost in cents per kilowatt hour at the complete installed system level rather than just the up front solar cell modules costs in dollars per watt This Second Edition will benefit technologists in the fields of solar cells and systems solar cell researchers power systems designers academics studying microelectronics semiconductors and solar cells business students and investors with a technical focus and government and political officials developing public policy

**Radio-Frequency Integrated-Circuit Engineering** Cam Nguyen, 2015-03-16 Radio Frequency Integrated Circuit Engineering addresses the theory analysis and design of passive and active RFICs using Si based CMOS and Bi CMOS technologies and other non silicon based technologies The materials covered are self contained and presented in such detail that allows readers with only undergraduate electrical engineering knowledge in EM RF and circuits to understand and design RFICs Organized into sixteen chapters blending analog and microwave engineering Radio Frequency Integrated Circuit Engineering emphasizes the microwave engineering approach for RFICs Provides essential knowledge in EM and microwave engineering passive and active RFICs RFIC analysis and design techniques and RF systems vital for RFIC students and engineers Blends analog and microwave engineering approaches for RFIC design at high frequencies Includes problems at the end of each chapter RF and Microwave Transmitter Design Andrei Grebennikov, 2011-07-12 RF and Microwave Transmitter Design is unique in its coverage of both historical transmitter design and cutting edge technologies This text explores the results of well known and new theoretical analyses while informing readers of modern radio transmitters practical designs and their components Jam packed with information this book broadcasts and streamlines the author's considerable experience in RF and microwave design and development

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