

Sergei Tretyakov



ANALYTICAL MODELING IN

**Applied
Electromagnetics**

Analytical Modeling In Applied Electromagnetics

Ramesh Garg



Analytical Modeling In Applied Electromagnetics:

Analytical Modeling in Applied Electromagnetics Sergei Tretyakov, 2003

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

Analytical and Computational Methods in Electromagnetics Ramesh Garg, 2008 This authoritative resource offers you clear and complete explanation of this essential electromagnetics knowledge providing you with the analytical background you need to understand such key approaches as MoM method of moments FDTD Finite Difference Time Domain and FEM Finite Element Method and Green's functions This comprehensive book includes all math necessary to master the material

Electromagnetic Diffraction Modeling and Simulation with MATLAB Gökhan Apaydin, Levent Sevgi, 2021-02-28 This exciting new resource presents a comprehensive introduction to the fundamentals of diffraction of two dimensional canonical structures including wedge strip and triangular cylinder with different boundary conditions Maxwell equations are discussed along with wave equation and scattered diffracted and fringe fields Geometric optics as well as the geometric theory of diffraction are explained With MATLAB scripts included for several well known electromagnetic diffraction problems this book discusses diffraction fundamentals of two dimensional structures with different boundary conditions and analytical numerical methods that are used to show diffraction The book introduces fundamental concepts of electromagnetic problems identities and definitions for diffraction modeling Basic coordinate systems boundary conditions wave equation and Green's function problem are given The scattered fields diffracted fields and fringe fields radar cross section for diffraction modeling are presented Behaviors of electromagnetic waves around the two dimensional canonical wedge and canonical strip are also explored Diffraction of trilateral cylinders and wedges with rounded edges is investigated as well as double tip diffraction using Finite Difference Time Domain and Method of Moments A MATLAB based virtual tool developed with graphical user interface GUI for the visualization of both fringe currents and fringe waves is included using numerical FDTD and MoM algorithm and High Frequency Asymptotics approaches

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

Intelligent Reconfigurable Surfaces (IRS) for Prospective 6G Wireless Networks Muhammad Ali Imran,Lina Mohjazi,Lina Bariah,Sami Muhaidat,Tei Jun Cui,Qammer H. Abbasi,2023-01-19

Intelligent Reconfigurable Surfaces IRS for Prospective 6G Wireless Networks Authoritative resource covering preliminary concepts and advanced concerns in the field of IRS and its role in 6G wireless systems Intelligent Reconfigurable Surfaces IRS for Prospective 6G Wireless Networks provides an in depth treatment of the fundamental physics behind reconfigurable metasurfaces also known as intelligent reflecting surfaces IRS and outlines the research roadmap towards their development as a low complexity and energy efficient solution aimed at turning the wireless environment into a software defined entity The text demonstrates IRS from different angles including the underlying physics hardware architecture operating principles and prototype designs It enables readers to grasp the knowledge of the interplay of IRS and state of the art technologies examining the advantages key principles challenges and potential use cases Practically it equips readers with the fundamental knowledge of the operational principles of reconfigurable metasurfaces resulting in its potential applications in various intelligent autonomous future wireless communication technologies To aid in reader comprehension around 50 figures tables illustrations and photographs to comprehensively present the material are also included Edited by a team of highly qualified professionals in the field sample topics covered are as follows Evolution of antenna arrays design introducing the fundamental principles of antenna theory and reviewing the stages of development of the field Beamforming design for IRS assisted communications discussing optimal IRS configuration in conjunction with overiewing novel beamforming designs Reconfigurable metasurfaces from physics to applications discussing the working principles of tunable reconfigurable metasurfaces and their capabilities and functionalities IRS hardware architectures detailing the general hardware architecture of IRS and features related to the IRS s main operational principle Wireless communication systems assisted by IRS discussing channel characterization system integration and aspects related to the performance analysis and network optimization of state of the art wireless applications For students and engineers in wireless communications microwave engineering and radio hardware and design Intelligent Reconfigurable Surfaces IRS for Prospective 6G Wireless Networks serves as an invaluable resource on the subject and is a useful course accompaniment for general Antenna Theory Microwave Engineering Electromagnetics courses

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 **Computational Methods for Nanoscale Applications** Igor Tsukerman,2020-08-21

Positioning itself at the common boundaries of several disciplines this work provides new perspectives on modern nanoscale problems where fundamental science meets technology and computer modeling In addition to well known computational techniques such as finite difference schemes and Ewald summation the book presents a new finite difference calculus of Flexible Local Approximation Methods FLAME that qualitatively improves the numerical accuracy in a variety of problems

Metamaterials-by-Design Andrea Alù,Nader Engheta,Andrea Massa,Giacomo Oliveri,2024-04-04 Metamaterials by Design Theory Technologies and Vision is devoted to a comprehensive review of the latest advancements and current trends in the field of system level oriented metamaterial design methods technologies and future perspectives Starting from the theoretical and methodological motivations of this research to macro scale performance driven design of volumetric and planar metamaterials the book introduces advanced task oriented modeling approaches including specific reference to their multi scale multi physics customization in recent metamaterial science and engineering In the introduction of these concepts particular attention is paid to the illustration of the physical mechanisms and phenomena at the basis of the field manipulation capabilities enabled by metamaterials Contributions from industry and academic perspectives on active and passive metamaterial enhanced devices for communications and sensing are included The final part of the volume is aimed at providing a perspective regarding the current trends future research and application tracks in system performance driven metamaterial design methodologies and technologies included potential applications in future reconfigurable and cognitive materials Includes comprehensive review of the research developments methodologies and opportunities in the field of metamaterials by design Discusses new and emerging applications of metamaterials in microwave and terahertz spectrum photonics and optics scenarios Reviews performance driven metamaterial design methodologies and technologies in communications and sensing *All-Dielectric Nanophotonics* Alexander S. Shalin,Adrià Canós Valero,Andrey

Miroshnichenko,2023-11-09 All Dielectric Nanophotonics aims to review the underlying principles advances and future directions of research in the field The book reviews progress in all dielectric metasurfaces and nanoantennas new types of excitations such as magnetic and toroidal modes and associated anapole states Ultrahigh Q resonant modes such as bound states in the continuum are covered and the promise of replacing conventional bulky optical elements with nanometer scale structures with enhanced functionality is discussed This book is suitable for new entrants to the field as an overview of this research area Experienced researchers and professionals in the field may also find this book suitable as a reference Provides an overview of the fundamental principles theories and calculation techniques underpinning all dielectric nanophotonics

research Reviews current progress in the field such as all dielectric metasurfaces and nanoantennas new types of excitations associated anapole states and more Discusses emerging applications such as active nanophotonics with in depth analysis

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

Electromagnetic Metasurfaces Karim Achouri,Christophe Caloz,2021-05-11 Discover a comprehensive exploration of recent developments and fundamental concepts in the applications of metasurfaces In Electromagnetic Metasurfaces Theory and Applications distinguished researchers and authors Karim Achouri and Christophe Caloz deliver an introduction to the fundamentals and applications of metasurfaces and an insightful analysis of recent and future developments in the field The book describes the precursors and history of metasurfaces before continuing on to an exploration of the physical insights that can be gleaned from the material parameters of the metasurface You ll learn how to compute the fields scattered by a metasurface with known material parameters being illuminated by an arbitrary incident field as well as how to realize a practical metasurface and relate its material parameters to its physical structures The authors provide examples to illustrate all the concepts discussed in the book to improve and simplify reader understanding Electromagnetic Metasurfaces concludes with an incisive discussion of the likely future directions and research opportunities in the field Readers will also benefit from the inclusion of A thorough introduction to metamaterials the concept of metasurfaces and metasurface precursors An exploration of electromagnetic modeling and theory including metasurfaces as zero thickness sheets and bianisotropic susceptibility tensors A practical discussion of susceptibility synthesis including four parameters synthesis more than four parameters synthesis and the addition of susceptibility components A concise treatment of scattered field analysis including approximate analytical methods and finite difference frequency domain techniques Perfect for researchers in metamaterial sciences and engineers working with microwave THz and optical technologies Electromagnetic Metasurfaces Theory and Applications will also earn a place in the libraries of graduate and undergraduate students in physics and electrical engineering

Fields, Networks, Computational Methods, and Systems in Modern Electrodynamics Peter Russer,Mauro Mongiardo,2013-04-17 On June 1st 2004 the Faculty of Electrical Engineering and Information Technology of the Technische Universitat Miinchen bestowed the degree of the doctor honoris causa to Leopold B Felsen for extraordinary achievements in the theory of electromag netic fields On this occasion on June 1st and 2nd 2004 at the Technische Universitat Miinchen a symposium on Fields Networks Computational Methods and Systems A Modern View of Engineering

Electrodynamics in honor of Leopold B Felsen was organized The symposium topic focused on an important area of Leopold Felsen research interests and as the title emphasizes on a modern view of applied Electro dynamics While the fundamental physical laws of electrodynamics are well known research in this field is experiencing a steady continuous growth The problem solving approaches of say twenty years ago may seem now fairly obsolete since considerable progress has been made in the meantime In this monograph we collect samples of present day state of the art in dealing with electromagnetic fields their network theory representation their computation and finally on system applications The network formulation of field problems can improve the problem formulation and also contribute to the solution methodology Network theory systematic approaches for circuit analysis are based on the separation of the circuit into the connection circuit and the circuit elements Many applications in science and technology rely on computations of the electromagnetic field in either man made or natural complex structures

Metasurface-driven Electronic Warfare Rafael Goncalves Licursi de Mello, 2024-12-24 Understand the metasurface revolution in electronic warfare Electronic warfare EW ensures to one s forces the safe usage of the electromagnetic spectrum while denying it to adversaries Modern warfare is an extraordinarily fluid and dynamic activity with numerous involved systems reconfigurable at the front or back ends Metasurfaces however are artificially engineered surfaces that promise to take this dynamism to unprecedented levels by making platforms aircraft vessels etc and the environment itself reconfigurable a revolution that even major EW authorities have yet to fully comprehend Metasurface driven Electronic Warfare outlines the parameters of this revolution and its transformative potential in the EW space Beginning with a historical overview of the EW dynamism it then provides the electromagnetics basics to understand metasurfaces their operation mechanisms and capacity for shaping electromagnetic waves Thereafter a series of detailed studies of metasurface applications in EW makes this an indispensable guide to an increasingly dynamic battlefield Readers will also find Clear cost benefit analyses of metasurface substitutions in modern EW scenarios Detailed discussion of metasurface applications including stealth electronic support electronic attack electronic protection their use in drone swarms smart environments and more Simulations of EW scenarios with accompanying MATLAB codes and exercises Metasurface driven Electronic Warfare is ideal for EW analysts specialists and operators as well as signals intelligence and electrical engineering researchers and students Because it covers the essentials in both areas the book is also appropriate to support graduate courses on metasurfaces or EW

Microwave Devices and Circuits for Advanced Wireless Communication Dilip Kumar Choudhary, Naveen Mishra, Indrasen Singh, Naser Ojaroudi Parchin, Ghanshyam Singh, 2024-08-27 This book offers a comprehensive overview of design and analysis of microwave devices and circuits for 5G and beyond wireless communication systems It focuses on modern microwave antennas filters metamaterials and MIMO systems It includes a design approach based on Artificial Intelligence and the practical use of microwave devices and circuits in commercial medical and military applications Microwave Devices and Circuits for Advanced Wireless Communications

Design and Analysis explores the performance of microwave devices and circuits by highlighting the difficulties encountered by researchers and designers such as latency interoperability wireless coexistence data streaming safety security and privacy The book explores the most important aspects of antenna design including radiation pattern control impedance matching with bandwidth improvement and gain enhancement It also examines different categories of metasurfaces including frequency selective surfaces FSS and electromagnetic bandgap EBG structures and their distinct roles in antenna design Additionally the book examines concepts such as ultra wideband UWB radar for 5G millimeter wave applications and advanced techniques such as synthetic aperture radar SAR beam forming compressed sensing and diffraction tomography for enabling high resolution imaging across wider application areas The authors also present an overview on applying machine learning ML techniques to advanced wireless communication for signal processing tasks such as signal denoising equalization and modulation recognition They then discuss the potential significance of UAV communication systems in achieving seamless connection quality of service QoS as well as the difficulties and potential remedies involved in building dependable networks using UAVs Throughout the book the authors offer a critical assessment of the strengths and limitations of each topic and approach presented thus providing valuable guidance for future research in this exciting field This book will be helpful for graduate students researchers and engineers working in the area of design and reliability of circuits for microwave and communication systems

Metamaterials Pankaj K. Choudhury, 2021-11-04 Metamaterials have been in research limelight for the last few years owing to the exotic electromagnetic features these exhibit With certain combinational forms of the design these can be of prudent applications in developing antennas filters absorbers sensors energy harvesters and many others As such the role of engineered mediums remains greatly important as the frequency region of operation determines the structure of the medium s to be developed the fact that is exploited in the on demand kind of tailoring the electromagnetic response of metamaterials The relevant R D investigators show keen interest in the fabrication of varieties of novel miniaturized devices that can be of great potentials in many micro as well as nanotechnology oriented applications With this view point in mind the Book provides the glimpse of phenomenal growth of research in this direction through covering the topics pivoted to fundamental descriptions and theoretical and experimental results reported by pioneering scientists It is expected that the book will be of benefit to novice researchers such as graduate students and expert scientists in universities and research laboratories Some of the contents in the book are centered on industrial applications of metamaterials thereby making the volume useful to the R D scientists in certain industries In summary the book Provides a glimpse of the recent developments in metamaterial research Introduces new metamaterial designs to be used in the microwave and optical regimes Discusses the usefulness of new designs in developing absorbers and or sensors Explores the platforms for future technology of embedded systems

Vibrator and Slot Antenna Arrays for Modern Applications Mikhail V. Nesterenko, Victor A. Katrich, Sergey L. Berdnik, Oleksandr M. Dumin, Anatoliy I. Luchaninov, Dmitriy

V. Gretsikh, 2024-11-22 This book provides solutions to a complex of internal and external problems of electromagnetics associated with the development of theory construction of mathematical models and the development of rigorous methods for calculating the electrodynamic characteristics of radiating structures and antenna arrays with impedance vibrator and slot elements The issues related to the impedance synthesis of antenna arrays and analysis of large aperture rectenna arrays are considered Solutions to the problems of determining the electrodynamic characteristics of impedance vibrators slot and multi element radiators with arbitrary geometric and electrophysical parameters are obtained within the framework of a unified methodological approach to constructing asymptotic solutions of integral equations for currents This approach made it possible to study a number of new vibrator slotted and combined vibrator slotted structures and their multi element systems The original research results reveal the possibilities of using such structures as basic elements for creating modern antenna waveguide devices operating in the range from meter to millimeter wavelengths which have new technical characteristics and functionalities This book is intended for senior and postgraduate students and researchers working in the fields of radiophysics radio engineering and antenna feeder design The book covers the following topics Excitation of Electromagnetic Fields in Electrodynamic Volumes with Coordinate Boundaries General Aspects of the Theory of Thin Impedance Vibrators and Narrow Slots in a Quasi One Dimensional Approximation Impedance Vibrators Antenna Arrays Slotted Waveguide Antenna Arrays Combined Vibrator Slot Antenna Arrays Impedance Synthesis for Vibrator Antenna Arrays Impedance Synthesis for Slot Antenna Arrays Large Aperture Rectenna Arrays of Wireless Power Transmission Systems Ultrawideband Combined Vibrator Slot Antenna Arrays Metamaterial Xun-Ya Jiang, 2012-05-16 In depth analysis of the theory properties and description of the most potential technological applications of metamaterials for the realization of novel devices such as subwavelength lenses invisibility cloaks dipole and reflector antennas high frequency telecommunications new designs of bandpass filters absorbers and concentrators of EM waves etc In order to create a new devices it is necessary to know the main electrodynamic characteristics of metamaterial structures on the basis of which the device is supposed to be created The electromagnetic wave scattering surfaces built with metamaterials are primarily based on the ability of metamaterials to control the surrounded electromagnetic fields by varying their permeability and permittivity characteristics The book covers some solutions for microwave wavelength scales as well as exploitation of nanoscale EM wavelength such as visible specter using recent advances of nanotechnology for instance in the field of nanowires nanopolymers carbon nanotubes and graphene Metamaterial is suitable for scholars from extremely large scientific domain and therefore given to engineers scientists graduates and other interested professionals from photonics to nanoscience and from material science to antenna engineering as a comprehensive reference on this artificial materials of tomorrow *Electromagnetic Materials - Proceedings Of The Symposium* R Hock Lim, Serguei Matitsine, Yeow Beng Gan, 2005-06-24 This volume comprises the main ideas and the latest results in the study of electromagnetic materials as presented at the Symposium on Electromagnetic

Materials ICMAT 2005 The high quality contributions reflect the principle aims of the conference to provide an international forum for scientists and engineers to report their most recent research findings to exchange ideas and information and to nurture and establish research ties Electromagnetic materials have both civilian and defence applications such as novel antenna designs protection against high power transients in densely packed printed circuits and special frequency response or polarization response to meet component or system specifications An in depth understanding of the responses of materials to electromagnetic waves may even enable us to design and fabricate materials with properties not found in nature *High Performance Soft Magnetic Materials* Arcady Zhukov, 2017-01-24 This book provides comprehensive coverage of the current state of the art in soft magnetic materials and related applications with particular focus on amorphous and nanocrystalline magnetic wires and ribbons and sensor applications Expert chapters cover preparation processing tuning of magnetic properties modeling and applications Cost effective soft magnetic materials are required in a range of industrial sectors such as magnetic sensors and actuators microelectronics cell phones security automobiles medicine health monitoring aerospace informatics and electrical engineering This book presents both fundamentals and applications to enable academic and industry researchers to pursue further developments of these key materials This highly interdisciplinary volume represents essential reading for researchers in materials science magnetism electrodynamics and modeling who are interested in working with soft magnets

The Enigmatic Realm of **Analytical Modeling In Applied Electromagnetics**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Analytical Modeling In Applied Electromagnetics** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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