

Sergei Tretyakov



ANALYTICAL MODELING IN
Applied
Electromagnetics

Analytical Modeling In Applied Electromagnetics

**Andrea Alù, Nader Engheta, Andrea
Massa, Giacomo Oliveri**



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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 overviewing 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

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

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

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

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