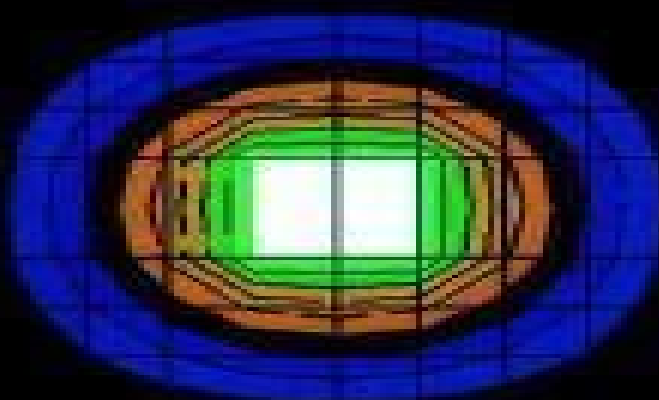




# Post-modern Electromagnetics

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# Post Modern Electromagnetics Using Intelligent Maxwell Solvers

**David B. Davidson**



## **Post Modern Electromagnetics Using Intelligent Maxwell Solvers:**

Post-modern Electromagnetics Christian Hafner, 1999-05-04 Presenting innovative promising and unconventional techniques Post modern Electromagnetics outlines the essential tools for the creation of numerical methods Hafner offers a comparative analysis of the fundamental computational electromagnetics methods and proposes future adaptive strategies Complementary to Max 1 A Visual Electromagnetics Platform this unique text challenges current thinking and provides guidance through the solution of practical problems Features Include Outline of Maxwell theory from simple material properties to complex media and wave equations Discussion of intelligent optimization strategies such as genetic algorithms designed to improve the performance of existing techniques Applications section demonstrating solutions in statics scattering gratings antenna antenna arrays guided waves resonators coupling and waveguide discontinuities Explanation of the background to numerical methods showing how the various approaches to computational electromagnetics can be generalized and combined Students and researchers interested in advanced numerical approaches and design engineers developing new codes for computational electromagnetics will benefit from this exploration of creative electromagnetics solutions

**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 th Marrakesh Morocco during 8 11 May 2002 This was the 9 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 special manner The first of these meetings was held in Espoo Finland 1993 and the following venues were Gomel Belarus 1993 Perigueux 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 re view 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 Said Zouhdi The chairmen of Bianisotropics 2002 conference were Said 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

Generalized Multipole Techniques for Electromagnetic and Light Scattering T. Wriedt, 1999-12-01 This book is an edited volume of nine papers covering the different variants of the generalized multipole techniques GMT The papers were presented at the recent 3rd Workshop on Electromagnetics and Light Scattering Theory and Applications which focused on current GMT methods These include the multiple multipole method MMP the discrete sources method DSM Yasuura s

method method of auxiliary sources and null field method with discrete sources Each paper presents a full theoretical description as well as some applications of the method in electrical engineering and optics It also includes both 2D and 3D methods and other applications developed in the former Soviet Union and Japan *Computational Electromagnetics for RF and Microwave Engineering* David B. Davidson, 2005-02-24 The numerical approximation of Maxwell's equations

Computational Electromagnetics CEM has emerged as a crucial enabling technology for radio frequency microwave and wireless engineering The three most popular full wave methods the Finite Difference Time Domain Method the Method of Moments and the Finite Element Method are introduced in this book by way of one or two dimensional problems Commercial or public domain codes implementing these methods are then applied to complex real world engineering problems and a careful analysis of the reliability of the results obtained is performed along with a discussion of the many pitfalls which can result in inaccurate and misleading solutions The book will empower readers to become discerning users of CEM software with an understanding of the underlying methods and confidence in the results obtained It also introduces readers to the art of code development Aimed at senior undergraduate graduate students taking CEM courses and practising engineers in the industry

**Computational Methods In Large Scale Simulation** Heow-pueh Lee, Khin-yong Lam, 2005-10-26 This volume documents the research carried out by visiting scientists attached to the Institute for Mathematical Sciences IMS at the National University of Singapore and the Institute of High Performance Computing IHPC under the program Advances and Mathematical Issues in Large Scale Simulation From 2002 to 2003 researchers from various countries gathered to initiate interesting and innovative work on various themes related to multiscale simulation and fast algorithms Today modeling and simulation are used extensively to solve complex problems and to reduce the use of experimentation during the design and analysis stage It is important to know the various issues that have to be considered in the successful development of computational methodologies for such work This volume is a compilation of the research by various visiting scientists in the area of modeling and multiscale simulation Each article covers a major project and documents how computational methodology mathematical modeling high performance computing and simulation are combined in a multiscale scheme to solve a variety of complex problems Some of these include the design synthesis processing characterization and manufacture of nanomaterials and nanostructures new algorithms for computational work and grid computing Through the included examples readers can realize the vast potential of computational modeling and large scale simulation for the solution of problems in a variety of disciplines and applications

**Electromagnetic Theory and Applications for Photonic Crystals** Kiyotoshi Yasumoto, 2018-10-03 Photonic technology promises much faster computing massive parallel processing and an evolutionary step in the digital age The search continues for devices that will enable this paradigm and these devices will be based on photonic crystals Modeling is a key process in developing crystals with the desired characteristics and performance and *Electromagnetic Theory and Applications for Photonic Crystals* provides the electromagnetic theoretical

models that can be effectively applied to modeling photonic crystals and related optical devices The book supplies eight self contained chapters that detail various analytical numerical and computational approaches to the modeling of scattering and guiding problems For each model the chapter begins with a brief introduction detailed formulations of periodic structures and photonic crystals and practical applications to photonic crystal devices Expert contributors discuss the scattering matrix method multipole theory of scattering and propagation model of layered periodic arrays for photonic crystals the multiple multipole program the mode matching method for periodic metallic structures the method of lines the finite difference frequency domain technique and the finite difference time domain technique Based on original research and application efforts Electromagnetic Theory and Applications for Photonic Crystals supplies a broad array of practical tools for analyzing and designing devices that will form the basis for a new age in computing

**The Generalized Multipole Technique for Light Scattering** Thomas Wriedt, Yuri Eremin, 2018-03-09 This book presents the Generalized Multipole Technique as a fast and powerful theoretical and computation tool to simulate light scattering by nonspherical particles It also demonstrates the considerable potential of the method In recent years the concept has been applied in new fields such as simulation of electron energy loss spectroscopy and has been used to extend other methods like the null field method making it more widely applicable The authors discuss particular implementations of the GMT methods such as the Discrete Sources Method DSM Multiple Multipole Program MMP the Method of Auxiliary Sources MAS the Filamentary Current Method FCM the Method of Fictitious Sources MFS and the Null Field Method with Discrete Sources NFM DS The Generalized Multipole Technique is a surface based method to find the solution of a boundary value problem for a given differential equation by expanding the fields in terms of fundamental or other singular solutions of this equation The amplitudes of these fundamental solutions are determined from the boundary condition at the particle surface Electromagnetic and light scattering by particles or systems of particles has been the subject of intense research in various scientific and engineering fields including astronomy optics meteorology remote sensing optical particle sizing and electromagnetics which has led to the development of a large number of modelling methods based on the Generalized Multipole Technique for quantitative evaluation of electromagnetic scattering by particles of various shapes and compositions The book describes these methods in detail

**Computational Methods for Nanoscale Applications** Igor Tsukerman, 2007-12-24 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

Plasmonics and Plasmonic Metamaterials G. Shvets, Igor Tsukerman, 2012 Manipulation of plasmonics from nano to micro scale 1 Introduction 2 Form Birefringent metal and its plasmonic anisotropy 3 Plasmonic photonic crystal 4 Fourier plasmonics 5 Nanoscale optical field

localization 6 Conclusions and outlook 11 Dielectric loaded plasmonic waveguide components 1 Introduction 2 Design of waveguide dimensions 3 Sample preparation and near field characterization 4 Excitation and propagation of guided modes 5 Waveguide bends and splitters 6 Coupling between waveguides 7 Waveguide ring resonators 8 Bragg gratings 9 Discussion 12 Manipulating nanoparticles and enhancing spectroscopy with surface plasmons 1 Introduction 2 Propulsion of gold nanoparticles with surface plasmon polaritons 3 Double resonance substrates for surface enhanced raman spectroscopy 4 Conclusions and outlook 13 Analysis of light scattering by nanoobjects on a plane surface via discrete sources method 1 Introduction 2 Light scattering by a nanorod 3 Light scattering by a nanoshell 4 Summary 14 Computational techniques for plasmonic antennas and waveguides 1 Introduction 2 Time domain solvers 3 Frequency domain solvers 4 Plasmonic antennas 5 Plasmonic waveguides 6 Advanced structures 7 Conclusions

**Nature Inspired Cooperative Strategies for Optimization (NICSO 2007)** Natalio Krasnogor, Vincenzo Nicosia, Mario Pavone, David Alejandro Pelta, 2008-05-14

Biological and natural processes have been a continuous source of inspiration for the sciences and engineering For instance the work of Wiener in cybernetics was influenced by feedback control processes observable in biological systems McCulloch and Pitts description of the artificial neuron was instigated by biological observations of neural mechanisms the idea of survival of the fittest inspired the field of evolutionary algorithms and similarly artificial immune systems ant colony optimisation automated self assembling programming membrane computing etc also have their roots in natural phenomena The second International Workshop on Nature Inspired Cooperative Strategies for Optimization NICSO was held in Acireale Italy during November 8 10 2007 The aim for NICSO 2007 was to provide a forum where the latest ideas and state of the art research related to cooperative strategies for problem solving arising from Nature could be discussed The contributions collected in this book were strictly peer reviewed by at least three members of the international programme committee to whom we are indebted for their support and assistance The topics covered by the contributions include several well established nature inspired techniques like Genetic Algorithms Ant Colonies Artificial Immune Systems Evolutionary Robotics Evolvable Systems Membrane Computing Quantum Computing Software Self Assembly Swarm Intelligence etc

**Light Scattering by Systems of Particles** Adrian Doicu, Thomas Wriedt, Yuri A. Eremin, 2006-10-19 This book develops the theory of the null field method also called T matrix method covering almost all aspects and current applications This book also incorporates FORTRAN programs and simulation results Worked examples of the application of the FORTRAN programs show readers how to adapt or modify the programs for their specific application

*Theoretical and Computational Acoustics 2001* Er-Chang Shang, Qihu Li, T. F. Gao, 2002 This book contains 67 papers presented at ICTCA2001 It includes three keynote addresses surveying the frontier developments in computational and theoretical acoustics The papers cover aero seismo and ocean acoustics as well as ultrasonics Computational methods numerical simulation theoretical analysis and experimental results are emphasized by different papers

**Theoretical And Computational Acoustics 2001** T F

Gao,Qihu Li,Er-chang Shang,2002-07-25 This book contains 67 papers presented at ICTCA2001 It includes three keynote addresses surveying the frontier developments in computational and theoretical acoustics The papers cover aero seismo and ocean acoustics as well as ultrasonics Computational methods numerical simulation theoretical analysis and experimental results are emphasized by different papers The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings

**Nanoplasmonics** Vasily Klimov,2014-09-22 Nanoplasmonics is one of the most important growth areas of this century It is part of nano optics and nanophotonics and deals with oscillations of electrons in metallic nanoparticles and nanostructures Also it is a multidisciplinary subject covering atomic molecular and solid state physics as well as much of chemistry Nanoplasmonics makes i *Gold Nanoparticles in Biomedical Applications*

Lev Dykman,Nikolai Khlebtsov,2017-12-12 This book discusses fabrication of functionalized gold nanoparticles GNPs and multifunctional nanocomposites their optical properties and applications in biological studies This is the very first book of its kind to comprehensively discuss published data on in vitro and in vivo biodistribution toxicity and uptake of GNP by mammalian cells providing a systematization of data over the GNP types and parameters their surface functionalization animal and cell models As distinct from other related books *Gold Nanoparticles in Biomedical Applications* discusses the immunological properties of GNPs and summarizes their applications as an antigen carrier and adjuvant in immunization for the preparation of antibodies in vivo Although the potential of GNPs in nanobiotechnology has been recognized for the past decade new insights into the unique properties of multifunctional nanostructures have recently emerged With these developments in mind this book unites ground breaking experimental data with a discussion of hybrid nanoparticle systems that combine different nanomaterials to create multifunctional structures These novel hybrids constitute the material basis of theranostics bringing together the advanced properties of functionalized GNPs and composites into a single multifunctional nanostructure with simultaneous diagnostic and therapeutic functions Such nanohybrids can be physically and chemically tailored for a particular organ disease and patient thus making personalized medicine available

*Optical Antennas* Mario Agio,Andrea Alù,2013-01-03 This consistent and systematic review of recent advances in optical antenna theory and practice brings together leading experts in the fields of electrical engineering nano optics and nano photonics physical chemistry and nanofabrication Fundamental concepts and functionalities relevant to optical antennas are explained together with key principles for optical antenna modelling design and characterisation Recognising the tremendous potential of this technology practical applications are also outlined Presenting a clear translation of the concepts of radio antenna design near field optics and field enhanced spectroscopy into optical antennas this interdisciplinary book is an indispensable resource for researchers and graduate students in engineering optics and photonics physics and chemistry

Acoustic and Electromagnetic Scattering Analysis Using Discrete Sources Adrian Doicu,Yuri A. Eremin,Thomas Wriedt,2000-07-06 The discrete sources method is an efficient and powerful tool for solving a large class of boundary value problems in scattering

theory A variety of numerical methods for discrete sources now exist In this book the authors unify these formulations in the context of the so called discrete sources method Comprehensive presentation of the discrete sources method Original theory an extension of the conventional null field method using discrete sources Practical examples that demonstrate the efficiency and flexibility of elaborated methods scattering by particles with high aspect ratio rough particles nonaxisymmetric particles multiple scattering List of discrete sources programmes available via the Internet

*Review of Progress in Quantitative Nondestructive Evaluation* Donald O. Thompson, Dale E. Chimenti, 2003-04-04 The papers in this proceedings volume were peer reviewed before acceptance The Review of Progress in Quantitative NDE has established itself as the world's leading forum for the presentation of research and early engineering demonstrations in quantitative nondestructive evaluation It is international in scope and broadly interdisciplinary in content covering recent developments in measuring techniques ultrasonics electromagnetics x rays thermal acoustic emission etc and their applications to materials characterization and structural integrity

**Integral Equation Techniques in Transient Electromagnetics** Dragan Poljak, C. Y. Tham, 2003 Transient electromagnetic phenomena can be treated in two ways either using direct time domain modeling or frequency domain analysis applying the inverse Fourier transform Both approaches are important since each has distinct advantages depending on the situation or the application

*Review of Progress in Quantitative Nondestructive Evaluation - Volume 20A/B* Donald O. Thompson, Dale E. Chimenti, 2001-05-11 The Review of Progress in Quantitative NDE is the world's leading conference in reporting annually new research and development results in quantitative NDE The conference reports on both fundamental and applied advances in NDE and promotes communication between the research and engineering communities and emphasize current reporting of work in progress Attendees include representatives of academia including students industry and government with approximately one half coming from the United States and the other half from overseas This volume represents the best report of ongoing work that is available anywhere Connections and overlap with the medical diagnostic community are highlighted



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