

A CLASSIC REISSUE

Field Computation by Moment Methods



Roger F. Harrington

The IEEE Press Series on Electromagnetic Wave Theory
Donald G. Dudley, Series Editor

Field Computation By Moment Methods

Ramesh Garg



Field Computation By Moment Methods:

Field Computation by Moment Methods Roger F. Harrington, 1982 An IEEE reprinting of this classic 1968 edition FIELD COMPUTATION BY MOMENT METHODS is the first book to explore the computation of electromagnetic fields by the most popular method for the numerical solution to electromagnetic field problems It presents a unified approach to moment methods by employing the concepts of linear spaces and functional analysis Written especially for those who have a minimal amount of experience in electromagnetic theory this book illustrates theoretical and mathematical concepts to prepare all readers with the skills they need to apply the method of moments to new engineering related problems Written especially for those who have a minimal amount of experience in electromagnetic theory theoretical and mathematical concepts are illustrated by examples that prepare all readers with the skills they need to apply the method of moments to new engineering related problems

Field Computation by Moment Methods Roger F. Harrington, 1996-01 This classic 1968 edition of Field Computation by Moment Methods is the first book to explore the computation of electromagnetic fields by the method of moments the most popular method for the numerical solution of electromagnetic field problems It presents a unified approach to moment methods by employing the concepts of linear spaces and functional analysis Written especially for those who have a minimal amount of experience in electromagnetic theory theoretical and mathematical are illustrated by examples that prepare all readers with the skills they need to apply the method of moments to new engineering related problems

Electromagnetic Field Computation by Network Methods Leopold B. Felsen, Mauro Mongiardo, Peter Russer, 2009-03-05 In this monograph the authors propose a systematic and rigorous treatment of electromagnetic field representations in complex structures The architecture suggested in this book accommodates use of different numerical methods as well as alternative Green's function representations in each of the subdomains resulting from a partitioning of the overall problem The subdomains are regions of space where electromagnetic energy is stored and are described in terms of equivalent circuit representations based either on lumped element circuits or on transmission lines Connection networks connect the subcircuits representing the subdomains The connection networks are lossless don't store energy and represent the overall problem topology This is similar to what is done in circuit theory and permits a phrasing of the solution of EM field problems in complex structures by Network oriented methods

Microstrip Antenna Design Handbook Ramesh Garg, 2001 Based on Bahl and Bhartia's popular 1980 classic Microstrip Antennas this all new book provides the detail antenna engineers and designers need to design any type of microstrip antenna After addressing essential microchip antenna theory the authors highlight current design and engineering practices emphasizing the most pressing issues in this area including broadbanding circular polarization and active microstrip antennas in particular Special design challenges ranging from dual polarization high bandwidth and surface wave mitigation to choosing the proper substrate and shaping an antenna to achieve desired results are all covered

The Method of Moments in Electromagnetics Walton C. Gibson, 2021-09-06

The Method of Moments in Electromagnetics Third Edition details the numerical solution of electromagnetic integral equations via the Method of Moments MoM Previous editions focused on the solution of radiation and scattering problems involving conducting dielectric and composite objects This new edition adds a significant amount of material on new state of the art compressive techniques Included are new chapters on the Adaptive Cross Approximation ACA and Multi Level Adaptive Cross Approximation MLACA advanced algorithms that permit a direct solution of the MoM linear system via LU decomposition in compressed form Significant attention is paid to parallel software implementation of these methods on traditional central processing units CPUs as well as new high performance graphics processing units GPUs Existing material on the Fast Multipole Method FMM and Multi Level Fast Multipole Algorithm MLFMA is also updated blending in elements of the ACA algorithm to further reduce their memory demands The Method of Moments in Electromagnetics is intended for students researchers and industry experts working in the area of computational electromagnetics CEM and the MoM Providing a bridge between theory and software implementation the book incorporates significant background material while presenting practical nuts and bolts implementation details It first derives a generalized set of surface integral equations used to treat electromagnetic radiation and scattering problems for objects comprising conducting and dielectric regions Subsequent chapters apply these integral equations for progressively more difficult problems such as thin wires bodies of revolution and two and three dimensional bodies Radiation and scattering problems of many different types are considered with numerical results compared against analytical theory as well as measurements

Theory and Computation of Electromagnetic Fields Jian-Ming Jin, 2015-08-26 Reviews the fundamental concepts behind the theory and computation of electromagnetic fields The book is divided in two parts The first part covers both fundamental theories such as vector analysis Maxwell's equations boundary condition and transmission line theory and advanced topics such as wave transformation addition theorems and fields in layered media in order to benefit students at all levels The second part of the book covers the major computational methods for numerical analysis of electromagnetic fields for engineering applications These methods include the three fundamental approaches for numerical analysis of electromagnetic fields the finite difference method the finite difference time domain method in particular the finite element method and the integral equation based moment method The second part also examines fast algorithms for solving integral equations and hybrid techniques that combine different numerical methods to seek more efficient solutions of complicated electromagnetic problems

Theory and Computation of Electromagnetic Fields Second Edition Provides the foundation necessary for graduate students to learn and understand more advanced topics Discusses electromagnetic analysis in rectangular cylindrical and spherical coordinates Covers computational electromagnetics in both frequency and time domains Includes new and updated homework problems and examples

Theory and Computation of Electromagnetic Fields Second Edition is written for advanced undergraduate and graduate level electrical engineering students This book can also be used as a reference for professional

engineers interested in learning about analysis and computation skills *Electromagnetic Computation Methods for Lightning Surge Protection Studies* Yoshihiro Baba, Vladimir A. Rakov, 2016-02-02 Presents current research into electromagnetic computation theories with particular emphasis on Finite Difference Time Domain Method This book is the first to consolidate current research and to examine the theories of electromagnetic computation methods in relation to lightning surge protection The authors introduce and compare existing electromagnetic computation methods such as the method of moments MOM the partial element equivalent circuit PEEC the finite element method FEM the transmission line modeling TLM method and the finite difference time domain FDTD method The application of FDTD method to lightning protection studies is a topic that has matured through many practical applications in the past decade and the authors explain the derivation of Maxwell's equations required by the FDTD and modeling of various electrical components needed in computing lightning electromagnetic fields and surges with the FDTD method The book describes the application of FDTD method to current and emerging problems of lightning surge protection of continuously more complex installations particularly in critical infrastructures of energy and information such as overhead power lines air insulated sub stations wind turbine generator towers and telecommunication towers Both authors are internationally recognized experts in the area of lightning study and this is the first book to present current research in lightning surge protection Examines in detail why lightning surges occur and what can be done to protect against them Includes theories of electromagnetic computation methods and many examples of their application Accompanied by a sample printed program based on the finite difference time domain FDTD method written in C program *The Method of Moments in Electromagnetics, Second Edition* Walton C. Gibson, 2014-07-10 Now Covers Dielectric Materials in Practical Electromagnetic Devices The Method of Moments in Electromagnetics Second Edition explains the solution of electromagnetic integral equations via the method of moments MOM While the first edition exclusively focused on integral equations for conducting problems this edition extends the integral equation framework to treat objects having conducting as well as dielectric parts New to the Second Edition Expanded treatment of coupled surface integral equations for conducting and composite conducting dielectric objects including objects having multiple dielectric regions with interfaces and junctions Updated topics to reflect current technology More material on the calculation of near fields Reformatted equations and improved figures Providing a bridge between theory and software implementation the book incorporates sufficient background material and offers nuts and bolts implementation details It first derives a generalized set of surface integral equations that can be used to treat problems with conducting and dielectric regions Subsequent chapters solve these integral equations for progressively more difficult problems involving thin wires bodies of revolution and two and three dimensional bodies After reading this book students and researchers will be well equipped to understand more advanced MOM topics **Theory and Computation of Electromagnetic Fields in Layered Media** Vladimir Okhmatovski, Shucheng Zheng, 2024-04-23 Explore the algorithms and

numerical methods used to compute electromagnetic fields in multi layered media In Theory and Computation of Electromagnetic Fields in Layered Media two distinguished electrical engineering researchers deliver a detailed and up to date overview of the theory and numerical methods used to determine electromagnetic fields in layered media The book begins with an introduction to Maxwell s equations the fundamentals of electromagnetic theory and concepts and definitions relating to Green s function It then moves on to solve canonical problems in vertical and horizontal dipole radiation describe Method of Moments schemes discuss integral equations governing electromagnetic fields and explains the Michalski Zheng theory of mixed potential Green s function representation in multi layered media Chapters on the evaluation of Sommerfeld integrals procedures for far field evaluation and the theory and application of hierarchical matrices are also included along with A thorough introduction to free space Green s functions including the delta function model for point charge and dipole current Comprehensive explorations of the traditional form of layered medium Green s function in three dimensions Practical discussions of electro quasi static and magneto quasi static fields in layered media including electrostatic fields in two and three dimensions In depth examinations of the rational function fitting method including direct spectra fitting with VECTFIT algorithms Perfect for scholars and students of electromagnetic analysis in layered media Theory and Computation of Electromagnetic Fields in Layered Media will also earn a place in the libraries of CAD industry engineers and software developers working in the area of computational electromagnetics

Computational Methods for Electromagnetic Phenomena Wei Cai,2013-01-03 A unique and comprehensive graduate text and reference on numerical methods for electromagnetic phenomena from atomistic to continuum scales in biology optical to micro waves photonics nanoelectronics and plasmas The state of the art numerical methods described include Statistical fluctuation formulae for the dielectric constant Particle Mesh Ewald Fast Multipole Method and image based reaction field method for long range interactions High order singular hypersingular Nystr m collocation Galerkin boundary and volume integral methods in layered media for Poisson Boltzmann electrostatics electromagnetic wave scattering and electron density waves in quantum dots Absorbing and UPML boundary conditions High order hierarchical N d lec edge elements High order discontinuous Galerkin DG and Yee finite difference time domain methods Finite element and plane wave frequency domain methods for periodic structures Generalized DG beam propagation method for optical waveguides NEGF Non equilibrium Green s function and Wigner kinetic methods for quantum transport High order WENO and Godunov and central schemes for hydrodynamic transport Vlasov Fokker Planck and PIC and constrained MHD transport in plasmas

Bioengineering and Biophysical Aspects of Electromagnetic Fields Ben Greenebaum, Frank S. Barnes,2018-10-03 Bioengineering and Biophysical Aspects of Electromagnetic Fields primarily contains discussions on the physics engineering and chemical aspects of electromagnetic EM fields at both the molecular level and larger scales and investigates their interactions with biological systems The first volume of the bestselling and newly updated Handbook of Biological Effects of Electromagnetic Fields Third Edition this book

adds material describing recent theoretical developments as well as new data on material properties and interactions with weak and strong static magnetic fields Newly separated and expanded chapters describe the external and internal electromagnetic environments of organisms and recent developments in the use of RF fields for imaging Bioengineering and Biophysical Aspects of Electromagnetic Fields provides an accessible overview of the current understanding on the scientific underpinnings of these interactions as well as a partial introduction to experiments on the interactions themselves

Computational Methods for Antenna Pattern Synthesis Joseph R. Mautz, 1973 Some general numerical methods for antenna pattern synthesis with and without constraints are developed in this report Particular cases considered are 1 field pattern specified in amplitude and phase 2 field pattern specified in amplitude only 3 these two cases with a constraint on the source quality factor Both the source and the field are discretized at the beginning and the methods of finite dimensional vector spaces are used for the computations The theory is general but is applied only to point sources arbitrarily distributed in a plane and to pattern synthesis in this plane Some numerical examples are given for ten sources approximately equispaced on one half of an ellipse with the desired field pattern chosen to be the cosecant ϕ pattern in the first quadrant

Author **Applied Computational Electromagnetics** Nikolaos K. Uzunoglu, Konstantina S. Nikita, Dimitra I. Kaklamani, 2012-12-06 EOI AEI rEOMETPEI Epigram of the Academy of Plato in Athens Electromagnetism the science of forces arising from Amber HAEKTPON and the stone of Magnesia MARNHLIA has been the fOWldation of major scientific breakthroughs such as Quantum Mechanics and Theory of Relativity as well as most leading edge technologies of the twentieth century The accuracy of electromagnetic fields computations for engineering purposes has been significantly improved during the last decades due to the deVelopment of efficient computational techniques and the availability of high performance computing The present book is based on the contributions and discussions developed during the NATO Advanced Study Institute on Applied Computational Electromagnetics State of the Art and Future Trends which has taken place in Hellas on the island of Samos very close to the birthplace of Electromagnetism The book covers the fundamental concepts recent developments and advanced applications of Integral Equation and Method of Moments Techniques Finite Element and Boundary Element Methods Finite Difference Time Domain and Transmission Line Methods Furthermore topics related to Computational Electromagnetics such as Inverse Scattering Semi Analytical Methods and Parallel Processing Techniques are included The collective presentation of the principal computational electromagnetics techniques developed to handle diverse challenging leading edge technology problems is expected to be useful to researchers and postgraduate students working in various topics of electromagnetic technologies **Physics and Technology of Hyperthermia** S.B. Field, Cafiero Franconi, 2012-12-06 In the 1960s a firm rationale was developed for using raised temperatures to treat malignant disease and there has been a continuous expansion of the field ever since However a major limitation exists in our ability to heat human tumours especially those sited deep in the body with a reasonable degree of temperature uniformity

This problem has resulted in engineers and physicists collaborating closely with biologists and clinicians towards the common goal of developing and testing the clinical potential of this exciting treatment modality. The aim of the physicist and engineer is to develop acceptable methods of heating tumor masses in as many sites as possible to therapeutic temperatures avoiding excessive heating of normal structures and at the same time obtaining the temperature distribution throughout the heated volume. The problem is magnified by both the theoretical and technical limitations of heating methods and devices. Moreover, the modelling of external deposition of energy in tissue and knowledge of tissue perfusion are ill defined. To this must be added the conceptual difficulty of defining a thermal dose. The NATO course was designed to provide a basis for the integration of physics and technology relevant to the development of hyperthermia. There were 48 lectures covering the theoretical and practical aspects of system design and assessment including as far as possible all the techniques of current interest and importance in the field. Computational Electromagnetics Raj Mittra, 2013-08-20 Emerging Topics in

Computational Electromagnetics in Computational Electromagnetics presents advances in Computational Electromagnetics. This book is designed to fill the existing gap in current CEM literature that only cover the conventional numerical techniques for solving traditional EM problems. The book examines new algorithms and applications of these algorithms for solving problems of current interest that are not readily amenable to efficient treatment by using the existing techniques. The authors discuss solution techniques for problems arising in nanotechnology, bioEM, metamaterials as well as multiscale problems. They present techniques that utilize recent advances in computer technology such as parallel architectures and the increasing need to solve large and complex problems in a time efficient manner by using highly scalable algorithms. **Numerical**

Techniques in Electromagnetics with MATLAB Matthew N.O. Sadiku, 2018-10-08 Despite the dramatic growth in the availability of powerful computer resources, the EM community lacks a comprehensive text on the computational techniques used to solve EM problems. The first edition of Numerical Techniques in Electromagnetics filled that gap and became the reference of choice for thousands of engineers, researchers and students. This third edition of the bestselling text reflects the continuing increase in awareness and use of numerical techniques and incorporates advances and refinements made in recent years. Most notable among these are the improvements made to the standard algorithm for the finite difference time domain (FDTD) method and treatment of absorbing boundary conditions in FDTD, finite element and transmission line matrix methods. The author also has added a chapter on the method of lines. Numerical Techniques in Electromagnetics with MATLAB Third Edition continues to teach readers how to pose, numerically analyze and solve EM problems to give them the ability to expand their problem solving skills using a variety of methods and to prepare them for research in electromagnetism. Now the Third Edition goes even further toward providing a comprehensive resource that addresses all of the most useful computation methods for EM problems and includes MATLAB code instead of FORTRAN. *Antenna Theory* Constantine A. Balanis, 2012-12-03 The discipline of antenna theory has experienced vast technological changes. In response

Constantine Balanis has updated his classic text *Antenna Theory* offering the most recent look at all the necessary topics. New material includes smart antennas and fractal antennas along with the latest applications in wireless communications. Multimedia material on an accompanying CD presents PowerPoint viewgraphs of lecture notes, interactive review questions, Java animations and applets, and MATLAB features. Like the previous editions, *Antenna Theory Third Edition* meets the needs of electrical engineering and physics students at the senior undergraduate and beginning graduate levels and those of practicing engineers as well. It is a benchmark text for mastering the latest theory in the subject and for better understanding the technological applications. An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department.

Practical Microstrip and Printed Antenna Design Anil Pandey, 2019-03-31

This comprehensive resource presents antenna fundamentals balanced with the design of printed antennas. Over 70 antenna projects along with design dimensions, design flows, and antenna performance results are discussed, including antennas for wireless communication, 5G antennas, and beamforming. Examples of smartphone antennas, MIMO antennas, aerospace and satellite remote sensing array antennas, automotive antennas, and radar systems and many more printed antennas for various applications are also included. These projects include design dimensions and parameters that incorporate the various techniques used by industries and academia. This book is intended to serve as a practical microstrip and printed antenna design guide to cover various real world applications. All Antenna projects discussed in this book are designed, analyzed, and simulated using full wave electromagnetic solvers. Based on several years of the author's research in antenna design and development for RF and microwave applications, this book offers an in-depth coverage of practical printed antenna design methodology for modern applications.

Ultra Wideband Antennas Giselle M. Galvan-Tejada, 2017-12-19

Ultra Wideband Antennas Design Methodologies and Performance presents the current state of the art of ultra wideband (UWB) antennas from theory specific for these radiators to guidelines for the design of omnidirectional and directional UWB antennas. Offering a comprehensive overview of the latest UWB antenna research and development, this book discusses the developed theory for UWB antennas in frequency and time domains. Delivers a brief exposition of numerical methods for electromagnetics oriented to antennas. Describes solid planar equivalence which allows flat structures to be implemented instead of volumetric antennas. Examines the impedance matching, phase linearity, and radiation patterns as design objectives for omnidirectional and directional antennas. Addresses the time domain signal analysis for UWB antennas from which the distortion phenomenon can be modeled. Includes illustrative examples, design equations, CST MICROWAVE STUDIO simulations, and MATLAB plot generations. Compares the performance of different UWB antennas, supplying useful insight into particular tendencies and unresolved problems. *Ultra Wideband Antennas Design Methodologies and Performance* provides a valuable reference for the scientific community as UWB antennas have a variety of applications in body area networks, radar imaging, spectrum monitoring, electronic warfare, wireless sensor networks, and more.

Computational

Electromagnetic-Aerodynamics Joseph J. S. Shang, 2016-04-11 Presents numerical algorithms procedures and techniques required to solve engineering problems relating to the interactions between electromagnetic fields and fluid flow and interdisciplinary technology for aerodynamics electromagnetics chemical physic kinetics and plasmadynamics Integrates interlinking computational model and simulation techniques of aerodynamics and electromagnetics Combines classic plasma drift diffusion theory and electron impact ionization modeling for electromagnetic aerodynamic interactions Describes models of internal degrees of freedom for vibration relaxation and electron excitations

Field Computation By Moment Methods Book Review: Unveiling the Power of Words

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