

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 *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

**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

**Numerische Methoden in der Berechnung elektromagnetischer Felder** Arnulf Kost, 2013-03-07 Die Konstruktion von elektrotechnischen Bauelementen Baugruppen und Anlagen ist ohne die numerische Feldberechnung nicht mehr denkbar Da es keine für alle Problemstellungen gleichermaßen geeignete Methode gibt werden die wichtigsten numerischen Methoden vergleichend behandelt und ihre gemeinsamen Wurzeln sichtbar gemacht Besonders eingegangen wird dabei auf die Methode der Finiten Elemente FEM die Boundary Element Methode BEM und die aus beiden bestehende Kopplungsmethode BEM FEM Anhand praktischer Beispiele aus Energie und Nachrichtentechnik der Mikroelektronik und der elektromagnetischen Verträglichkeit werden gleichzeitig die durch die Methoden bedingten besonderen Erfordernisse z.B. Fehlerschätzung Adaptive Netzgenerierung etc. erläutert

**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

**Low-Frequency Electromagnetic Modeling for Electrical and Biological Systems Using MATLAB** Sergey N. Makarov, Gregory M. Noetscher, Ara Nazarian, 2015-05-12 Provides a detailed and systematic description of the Method of Moments Boundary Element Method for electromagnetic modeling at low frequencies and includes hands on application based MATLAB modules with user friendly and intuitive GUI and a highly visualized interactive output Includes a full body computational human phantom with over 120 triangular surface meshes extracted from the Visible Human Project Female dataset of the National library of Medicine and fully compatible with MATLAB and major commercial FEM BEM electromagnetic software simulators This book covers the basic concepts of computational low frequency electromagnetics in an application based format and hones the knowledge of these concepts with hands on MATLAB modules The book is divided into five parts Part 1 discusses low frequency electromagnetics basic theory of triangular surface mesh generation and computational human phantoms Part 2 covers electrostatics of conductors and dielectrics and direct current flow Linear magnetostatics is analyzed in Part 3 Part 4 examines theory and applications of eddy currents Finally Part 5 evaluates nonlinear electrostatics Application examples included in this book cover all major subjects of low frequency electromagnetic theory In addition this book includes complete or summarized analytical solutions to a large number of quasi static electromagnetic problems Each Chapter concludes with a summary of the corresponding MATLAB modules Combines fundamental electromagnetic theory and application oriented computation algorithms in the form of stand alone MATLAB modules Makes use of the three dimensional Method of Moments MoM for static and

quasistatic electromagnetic problems Contains a detailed full body computational human phantom from the Visible Human Project Female embedded implant models and a collection of homogeneous human shells Low Frequency Electromagnetic Modeling for Electrical and Biological Systems Using MATLAB is a resource for electrical and biomedical engineering students and practicing researchers engineers and medical doctors working on low frequency modeling and bioelectromagnetic applications

### **Theoretische Grundlagen der zerstörungsfreien Materialprüfung mit Ultraschall**

Karl-Jörg Langenberg, René Marklein, Klaus Mayer, 2010-10-01 Dieses Werk bietet eine umfassende Darstellung der mathematisch theoretischen Grundlagen der zerstörungsfreien Materialprüfung mit Ultraschall Ausgehend von den Grundgleichungen der Elastodynamik werden Long und Transwellen sowie Gaußsche Strahlen in isotropen und anisotropen Materialien besprochen Das mathematische Konzept Greenscher Funktionen dient sodann zur Berechnung von Druckkopfschallfeldern und Streufeldern von Ungenutzten Breiter Raum wird abbildenden Ultraschallverfahren gegeben Anschaulichkeit wird durch zahlreiche Wellenfeldsimulationen vermittelt Zu den Autoren Prof Dr rer nat Karl Jörg Langenberg lehrt seit 1983 Theoretische Elektrotechnik an der Universität Kassel Priv Doz Dr Ing Ren Marklein Oberingenieur im Fachgebiet Theorie der Elektrotechnik und Photonik Universität Kassel Berthold Preisträger der DGZfP 1994 Dr Ing Klaus Mayer Akademischer Oberrat Fachgebiet Theorie der Elektronik und der Photonik Universität Kassel Berthold Preisträger der DGZfP 2008 *Numerische Berechnung elektromagnetischer Felder* Christian Hafner, 2013-03-12

*Essentials of Computational Electromagnetics* Xin-Qing Sheng, Wei Song, 2012-03-22 Essentials of Computational Electromagnetics provides an in depth introduction of the three main full wave numerical methods in computational electromagnetics CEM namely the method of moment MoM the finite element method FEM and the finite difference time domain FDTD method Numerous monographs can be found addressing one of the above three methods However few give a broad general overview of essentials embodied in these methods or were published too early to include recent advances Furthermore many existing monographs only present the final numerical results without specifying practical issues such as how to convert discretized formulations into computer programs and the numerical characteristics of the computer programs In this book the authors elaborate the above three methods in CEM using practical case studies explaining their own research experiences along with a review of current literature A full analysis is provided for typical cases including characteristics of numerical methods helping beginners to develop a quick and deep understanding of the essentials of CEM Outlines practical issues such as how to convert discretized formulations into computer programs Gives typical computer programs and their numerical characteristics along with line by line explanations of programs Uses practical examples from the authors own work as well as in the current literature Includes exercise problems to give readers a better understanding of the material Introduces the available commercial software and their limitations This book is intended for graduate level students in antennas and propagation microwaves microelectronics and electromagnetics This text can also be used by

researchers in electrical and electronic engineering and software developers interested in writing their own code or understanding the detailed workings of code Companion website for the book [www.wiley.com/go/shengcem](http://www.wiley.com/go/shengcem)

**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  $\phi$  pattern in the first quadrant

Author **Elektromagnetische Wellen** Otfried Georg, 2013-03-11 Der Autor wendet sich mit diesem Lehrbuch vor allem an Studenten der Elektrotechnik und der Technischen Informatik in der praxisorientierten Ausbildung Besonderer Wert wird auf die einf hrende und anschauliche jedoch knappe Darstellung und auf die Lernhilfen gelegt Etwa ein Viertel des Buches besteht aus bungsaufgaben mit ausf hrlichen L sungen Zielsetzung ist die Vermittlung von m glichst viel physikalischem und daraus resultierendem technischen Wissen unter Verwendung von m glichst wenig Mathematik Eine mathematische und eine physikalische Formelsammlung sowie eine Liste von Konstanten und Materialgr en dienen zum Nachschlagen und erleichtern das Arbeiten mit dem Buch

**Numerical Methods for Energy Applications** Naser Mahdavi Tabatabaei, Nicu Bizon, 2021-03-22 This book provides a thorough guide to the use of numerical methods in energy systems and applications It presents methods for analysing engineering applications for energy systems discussing finite difference finite element and other advanced numerical methods Solutions to technical problems relating the application of these methods to energy systems are also thoroughly explored Readers will discover diverse perspectives of the contributing authors and extensive discussions of issues including a wide variety of numerical methods concepts and related energy systems applications systems equations and optimization partial differential equations and finite difference method methods for solving nonlinear equations special methods and their mathematical implementation in multi energy sources numerical investigations of electrochemical fields and devices and issues related to numerical approaches and optimal integration of energy consumption This is a highly informative and carefully presented book providing scientific and academic insight for readers with an interest in numerical methods and energy systems

**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.

**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.

*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.

**Antenna Theory and Design** Warren L. Stutzman, Gary A. Thiele, 2012-05-22. Stutzman's 3rd edition of *Antenna Theory and Design* provides a more pedagogical approach with a greater emphasis on computational methods. New features include additional modern material to make the text more exciting and relevant to practicing engineers, new chapters on systems, low profile



elements and base station antennas organizational changes to improve understanding more details to selected important topics such as microstrip antennas and arrays and expanded measurements topic *Antennas* Yi Huang, 2021-09-02

**Antennas From Theory to Practice** Comprehensive coverage of the fundamentals and latest developments in antennas and antenna design In the newly revised Second Edition of *Antennas From Theory to Practice* renowned researcher engineer and author Professor Yi Huang delivers comprehensive and timely coverage of issues in modern antenna design and theory Practical and accessible the book is written for engineers researchers and students who work with radio frequency microwave engineering radar and radio communications The book details the basics of transmission lines radiowaves and propagation antenna theory antenna analysis and design using industrial standard design software tools and the theory of characteristic modes antenna measurement equipment facilities and techniques It also covers the latest developments in special topics like small and mobile antennas wide and multi band antennas automotive antennas RFID UWB metamaterials reconfigurable and MIMO antennas and more The new edition includes up to date information on a wide variety of newly relevant topics and trends like adaptive impedance matching the theory of characteristic modes antenna materials and fabrication processes and over the air OTA antenna system measurements Many questions and examples are provided which enhances the learning experience The book covers An introduction to circuit concepts and transmission lines including lumped and distributed element systems transmission line theory and the Smith Chart An exploration of field concepts and radiowaves including wave equations and solutions and radiowave propagation mechanisms characteristics and models Discussions of antenna basics and popular antennas including wire type antennas aperture type antennas and antenna arrays Information about antenna manufacturing and measurements including antenna measurement facilities and methods The use of industrial standard simulation tools for antenna design and analysis Perfect for engineers and researchers who work in RF engineering or radar and radio communications *Antennas From Theory to Practice* Second Edition will also earn a place on the bookshelves of university students seeking a concise and practical introduction to the basics of antennas and antenna design

**Angewandte Feldtheorie** Frank Gustrau, 2018-09-10 Ein praxisnaher Einstieg in die elektromagnetische Feldsimulation Die elektromagnetische Feldtheorie geht zu den notwendigen fachlichen Grundlagen der Ingenieur Studiengänge Elektrotechnik Kommunikationstechnik Informationstechnik und Fahrzeugelektronik Im Bereich der elektromagnetischen Verträglichkeit der Energietechnik und der Hochfrequenztechnik gibt es viele praktische Anwendungsfälle der Feldtheorie Dieses Buch behandelt gleichberechtigt die elektromagnetische Feldtheorie und die Anwendung von Simulationswerkzeugen und Modellierungsstrategien Der Einstieg in die elektromagnetische Simulation gelingt durch die Erarbeitung eines Simulationsworkflows der auch die Modellvalidierung anhand der Theorie beinhaltet Der Workflow behandelt allgemeine und geordnete Aspekte der drei wichtigsten Simulationsmethoden Finite Differenzen im Zeitbereich Finite Elemente und Momentenmethode Aus dem Inhalt Physikalische Grundlagen der Elektromagnetischen

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