

Finite Element Software for Microwave Engineering

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Finite Element Software For Microwave Engineering

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Finite Element Software For Microwave Engineering:

Finite Element Software for Microwave Engineering Tatsuo Itoh, Giuseppe Pelosi, Peter P. Silvester, 1996-08-23
Finite element methods have become essential design tools for managing the complex structures and devices needed in modern microwave technology. Long the preferred techniques of both researchers and engineers, their migration from research lab to routine industrial use has been accelerated by hardware and software improvements. The last decade has seen the widespread availability of good commercial finite element programs for an extensive range of applications. *Finite Element Software for Microwave Engineering* provides the first comprehensive overview of this burgeoning field. With its unique focus on current and future industrial applications rather than on mathematical methodology, this book is an invaluable complement to the existing literature on finite element methods. Directed to practicing engineers and researchers, the book describes user experience with current software, shows how existing programs can be used to solve problems not foreseen by their designers, and attempts to predict which methods may appear in the commercial products of tomorrow.

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.

Multigrid Finite Element Methods for Electromagnetic Field Modeling Yu Zhu, Andreas C. Cangellaris, 2006-02-03
This is the first comprehensive monograph that features state-of-the-art multigrid methods for enhancing the modeling versatility, numerical robustness, and computational efficiency of one of the most popular classes of numerical electromagnetic field modeling methods, the method of finite elements. The focus of the publication is the development of robust preconditioners for the iterative solution of electromagnetic field boundary value problems (BVPs) discretized by means of finite methods. Specifically, the authors set forth their own successful attempts to utilize concepts from multigrid and multilevel methods for the effective preconditioning of matrices resulting from the approximation of electromagnetic BVPs using finite methods. Following the authors' careful explanations and step-by-step instruction, readers can duplicate the authors' results and take advantage of today's state-of-the-art multigrid multilevel preconditioners for finite element based iterative electromagnetic field solvers. Among the highlights of coverage are

Application of multigrid multilevel and hybrid multigrid multilevel preconditioners to electromagnetic scattering and radiation problems Broadband robust numerical modeling of passive microwave components and circuits Robust finite element based modal analysis of electromagnetic waveguides and cavities Application of Krylov subspace based methodologies for reduced order macromodeling of electromagnetic devices and systems Finite element modeling of electromagnetic waves in periodic structures The authors provide more than thirty detailed algorithms alongside pseudo codes to assist readers with practical computer implementation In addition each chapter includes an applications section with helpful numerical examples that validate the authors methodologies and demonstrate their computational efficiency and robustness This groundbreaking book with its coverage of an exciting new enabling computer aided design technology is an essential reference for computer programmers designers and engineers as well as graduate students in engineering and applied physics

Quick Finite Elements for Electromagnetic Waves Giuseppe Pelosi, Roberto Coccioli, Stefano Selleri, 2009 The classic 1998 Artech House book *Quick Finite Elements for Electromagnetic Waves* has now been revised and expanded to bring you up to date with the latest developments in the Field You find brand new discussions on finite elements in 3D 3D resonant cavities and 3D waveguide devices Moreover the second edition supplies you with MATLAB code making this resource easier to comprehend and use for your projects in the field This practical book and accompanying software enables you to quickly and easily work out challenging microwave engineering and high frequency electromagnetic problems using the finite element method FEM Using clear concise text and dozens of real world application examples the book provides a detailed description of FEM implementation while the software provides the code and tools needed to solve the three major types of EM problems guided propagation scattering and radiation With this unique book and software set in hand you can compute the dispersion diagram of arbitrarily shaped inhomogeneous isotropic lossless or lossy guiding structures analyze E and H plane waveguide discontinuities and devices and understand the reflection from and transmission through simple 2D and 3D inhomogeneous periodic structures CD ROM Included Easy to use finite element software contains ready made MATLAB and FORTRAN source code that you can use immediately to solve a wide range of microwave and EM problems The package is fully compatible with Internet freeware so you can perform advanced engineering functions without having to purchase expensive pre and post processing tools

The Finite Element Method in Electromagnetics Jian-Ming Jin, 2015-02-18 A new edition of the leading textbook on the finite element method incorporating major advancements and further applications in the field of electromagnetics The finite element method FEM is a powerful simulation technique used to solve boundary value problems in a variety of engineering circumstances It has been widely used for analysis of electromagnetic fields in antennas radar scattering RF and microwave engineering high speed high frequency circuits wireless communication electromagnetic compatibility photonics remote sensing biomedical engineering and space exploration The Finite Element Method in Electromagnetics Third Edition explains the method s processes and techniques in

careful meticulous prose and covers not only essential finite element method theory but also its latest developments and applications giving engineers a methodical way to quickly master this very powerful numerical technique for solving practical often complicated electromagnetic problems Featuring over thirty percent new material the third edition of this essential and comprehensive text now includes A wider range of applications including antennas phased arrays electric machines high frequency circuits and crystal photonics The finite element analysis of wave propagation scattering and radiation in periodic structures The time domain finite element method for analysis of wideband antennas and transient electromagnetic phenomena Novel domain decomposition techniques for parallel computation and efficient simulation of large scale problems such as phased array antennas and photonic crystals Along with a great many examples The Finite Element Method in Electromagnetics is an ideal book for engineering students as well as for professionals in the field High Order Finite Elements for Microsystems Simulation Muhammad Razi Abdul Rahman,2008 **Finite Element Analysis of Antennas and Arrays** Jian-Ming Jin,Douglas J. Riley,2009-02-23 The Most Complete Up to Date Coverage of the Finite Element Analysis and Modeling of Antennas and Arrays Aimed at researchers as well as practical engineers and packed with over 200 illustrations including twenty two color plates Finite Element Analysis of Antennas and Arrays presents Time and frequency domain formulations and mesh truncation techniques Antenna source modeling and parameter calculation Modeling of complex materials and fine geometrical details Analysis and modeling of narrowband and broadband antennas Analysis and modeling of infinite and finite phased array antennas Analysis and modeling of antenna and platform interactions Recognizing the strengths of other numerical methods this book goes beyond the finite element method and covers hybrid techniques that combine the finite element method with the finite difference time domain method the method of moments and the high frequency asymptotic methods to efficiently deal with a variety of complex antenna problems Complemented with numerous examples this cutting edge resource fully demonstrates the power and capabilities of the finite element analysis and its many practical applications Microwave and RF Product Applications Mike Golio,2003-06-27 The field of microwave engineering has undergone a radical transformation in recent years as commercial wireless endeavors overtook defense and government work The modern microwave and RF engineer must be knowledgeable about customer expectations market trends manufacturing technologies and factory models to a degree that is unprecedented Unfortunately most of the available literature does not reflect this fact but remains focused on high performance low volume applications Microwave and RF Product Applications helps resolve that deficiency Editor Mike Golio culled its chapters from his bestselling RF and Microwave Handbook incorporated critical updates contributed by the original authors and organized the chapters into a practical tightly focused reference A complete table of contents at the front of the text makes finding specific answers quick and easy and detailed lists of references in each chapter provide convenient access to the relevant expert literature For engineers in industry government or academia Microwave and RF Product Applications provides insight and information that

may be outside their area of expertise For managers marketers and technical support personnel it builds a better understanding of the fields that drive and are affected by their decisions

The Nystrom Method in Electromagnetics Mei Song Tong,Weng Cho Chew,2020-06-29 A comprehensive step by step reference to the Nystr m Method for solving Electromagnetic problems using integral equations Computational electromagnetics studies the numerical methods or techniques that solve electromagnetic problems by computer programming Currently there are mainly three numerical methods for electromagnetic problems the finite difference time domain FDTD finite element method FEM and integral equation methods IEMs In the IEMs the method of moments MoM is the most widely used method but much attention is being paid to the Nystr m method as another IEM because it possesses some unique merits which the MoM lacks This book focuses on that method providing information on everything that students and professionals working in the field need to know Written by the top researchers in electromagnetics this complete reference book is a consolidation of advances made in the use of the Nystr m method for solving electromagnetic integral equations It begins by introducing the fundamentals of the electromagnetic theory and computational electromagnetics before proceeding to illustrate the advantages unique to the Nystr m method through rigorous worked out examples and equations Key topics include quadrature rules singularity treatment techniques applications to conducting and penetrable media multiphysics electromagnetic problems time domain integral equations inverse scattering problems and incorporation with multilevel fast multiple algorithm Systematically introduces the fundamental principles equations and advantages of the Nystr m method for solving electromagnetic problems Features the unique benefits of using the Nystr m method through numerical comparisons with other numerical and analytical methods Covers a broad range of application examples that will point the way for future research The Nystrom Method in Electromagnetics is ideal for graduate students senior undergraduates and researchers studying engineering electromagnetics computational methods and applied mathematics Practicing engineers and other industry professionals working in engineering electromagnetics and engineering mathematics will also find it to be incredibly helpful

The RF and Microwave Handbook Mike Golio,2000-12-20 The recent shift in focus from defense and government work to commercial wireless efforts has caused the job of the typical microwave engineer to change dramatically The modern microwave and RF engineer is expected to know customer expectations market trends manufacturing technologies and factory models to a degree that is unprecedented in the

Physics of Multiantenna Systems and Broadband Processing T. K. Sarkar,Magdalena Salazar-Palma,Eric L. Mokole,2008-07-10 An analysis of the physics of multiantenna systems Multiple Input Multiple Output MIMO technology is one of the current hot topics in emerging wireless technologies This book fills the important need for an authoritative reference on the merits of MIMO systems based on physics and provides a sound theoretical basis for its practical implementation The book also addresses the important issues related to broadband adaptive processing Written by three internationally known researchers Physics of Multiantenna Systems and

Broadband Processing Provides a thorough discussion of the physical and mathematical principles involved in MIMO and adaptive systems Examines the electromagnetic framework of wireless communications systems Uses Maxwell's theory to provide a system based framework for the abstract concept of channel capacity Performs various numerical simulations to observe how a typical system will behave in practice Provides a mathematical formulation for broadband adaptive processing and direction of arrival estimation using real antenna arrays Integrates signal processing and electromagnetics to address the performance of realistic multiantenna systems With Physics of Multiantenna Systems and Broadband Processing communication systems engineers graduate students researchers and developers will gain a thorough scientific understanding of this important new technology

Fiber-Optic Communication Systems Govind P. Agrawal, 2012-02-23 This book provides a comprehensive account of fiber optic communication systems The 3rd edition of this book is used worldwide as a textbook in many universities This 4th edition incorporates recent advances that have occurred in particular two new chapters One deals with the advanced modulation formats such as DPSK QPSK and QAM that are increasingly being used for improving spectral efficiency of WDM lightwave systems The second chapter focuses on new techniques such as all optical regeneration that are under development and likely to be used in future communication systems All other chapters are updated as well

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

Fundamentals of Optical Fiber Sensors Zujie Fang, Ken Chin, Ronghui Qu, Haiwen Cai, 2012-08-10 This book describes the latest development in optical fiber devices and their applications to sensor technology Optical fiber sensors an important application of the optical fiber have experienced fast development and attracted wide attentions in basic science as well as in practical applications Sensing is often likened to human sense organs Optical fiber can not only transport information acquired by sensors at high speed and large volume but also can play the roles of sensing element itself

Compared with electric and other types of sensors fiber sensor technology has unique merits It has advantages over conventional bulky optic sensors such as combination of sensing and signal transportation smaller size and possibility of building distributed systems Fiber sensor technology has been used in various areas of industry transportation communication security and defense as well as daily life Its importance has been growing with the advancement of the technology and the expansion of the scope of its application a growth this book fully describes

Inverse Synthetic Aperture Radar Imaging With MATLAB Algorithms Caner Ozdemir,2012-03-13 This book provides a full representation of Inverse Synthetic Aperture Radar ISAR imagery which is a popular and important radar signal processing tool The book covers all possible aspects of ISAR imaging The book offers a fair amount of signal processing techniques and radar basics before introducing the inverse problem of ISAR and the forward problem of Synthetic Aperture Radar SAR Important concepts of SAR such as resolution pulse compression and image formation are given together with associated MATLAB codes After providing the fundamentals for ISAR imaging the book gives the detailed imaging procedures for ISAR imaging with associated MATLAB functions and codes To enhance the image quality in ISAR imaging several imaging tricks and fine tuning procedures such as zero padding and windowing are also presented Finally various real applications of ISAR imagery like imaging the antenna platform scattering are given in a separate chapter For all these algorithms MATLAB codes and figures are included The final chapter considers advanced concepts and trends in ISAR imaging

Compact Multifunctional Antennas for Wireless Systems Eng Hock Lim,Kwok Wa Leung,2012-05-22 Offers an up to date description of modern multifunctional antenna systems and microwave components Compact multifunctional antennas are of great interest in the field of antennas and wireless communication systems but there are few if any books available that fully explore the multifunctional concept Divided into six chapters Compact Multifunctional Antennas for Wireless Systems encompasses both the active and passive multifunctional antennas and components for microwave systems It provides a systematic valuable reference for antenna microwave researchers and designers Beginning with such novel passive components as antenna filters antenna packaging covers and balun filters the book discusses various miniaturization techniques for the multifunctional antenna systems In addition to amplifying and oscillating antennas the book also covers design considerations for frequency and pattern reconfigurable antennas The last chapter is dedicated to the field of solar cell integrated antennas Inside readers will find comprehensive chapters on Compact Multifunctional Antennas in Microwave Wireless Systems Multifunctional Passive Integrated Antennas and Components Reconfigurable Antennas Receiving Amplifying Antennas Oscillating Antennas Solar cell integrated Antennas Aimed at professional engineers and researchers designing compact antennas for wireless applications Compact Multifunctional Antennas for Wireless Systems will prove to be an invaluable tool

Silica Optical Fiber Technology for Devices and Components Kyunghwan Oh,Un-Chul Paek,2012-11-07 From basic physics to new products Silica Optical Fiber Technology for Device and Components examines

all aspects of specialty optical fibers Moreover the inclusion of the latest international standards governing optical fibers enables you to move from research to fabrication to commercialization Reviews all the latest specialty optical fiber technologies including those developed for high capacity WDM applications broadband fiber amplifiers fiber filleters based on periodic coupling fiber branching devices and fiber terminations Discusses key differences among single mode fibers multimode fibers for high speed Ethernet LAN and dispersion compensating fibers for long haul applications Compares the most recently developed conventional optical fibers with the latest photonic crystal fibers still in development A self contained menu driven software program is included for optical fiber design simulating waveguide structures for most of the fibers discussed in the book

Parallel Solution of Integral Equation-Based EM Problems in the Frequency Domain
Y. Zhang,T. K. Sarkar,2009-06-29 A step by step guide to parallelizing cem codes The future of computational electromagnetics is changing drastically as the new generation of computer chips evolves from single core to multi core The burden now falls on software programmers to revamp existing codes and add new functionality to enable computational codes to run efficiently on this new generation of multi core CPUs In this book you ll learn everything you need to know to deal with multi core advances in chip design by employing highly efficient parallel electromagnetic code Focusing only on the Method of Moments MoM the book covers In Core and Out of Core LU Factorization for Solving a Matrix Equation A Parallel MoM Code Using RWG Basis Functions and ScaLAPACK Based In Core and Out of Core Solvers A Parallel MoM Code Using Higher Order Basis Functions and ScaLAPACK Based In Core and Out of Core Solvers Turning the Performance of a Parallel Integral Equation Solver Refinement of the Solution Using the Conjugate Gradient Method A Parallel MoM Code Using Higher Order Basis Functions and Plapack Based In Core and Out of Core Solvers Applications of the Parallel Frequency Domain Integral Equation Solver Appendices are provided with detailed information on the various computer platforms used for computation a demo shows you how to compile ScaLAPACK and PLAPACK on the Windows operating system and a demo parallel source code is available to solve the 2D electromagnetic scattering problems Parallel Solution of Integral Equation Based EM Problems in the Frequency Domain is indispensable reading for computational code designers computational electromagnetics researchers graduate students and anyone working with CEM software

Photonic Sensing Gaozhi Xiao,Wojtek J. Bock,2012-09-12 PHOTONIC SENSING A cutting edge look at safety and security applications of photonic sensors With its many superior qualities photonic sensing technology is increasingly used in early detection and early warning systems for biological hazards structural flaws and security threats Photonic Sensing provides for the first time a comprehensive review of this exciting and rapidly evolving field focusing on the development of cutting edge applications in diverse areas of safety and security from biodetection to biometrics The book brings together contributions from leading experts in the field fostering effective solutions for the development of specialized materials novel optical devices and networking algorithms and platforms A number of specific areas of safety and security monitoring are covered including

background information operation principles analytical techniques and applications Topics include Document security and structural integrity monitoring as well as the detection of food pathogens and bacteria Surface plasmon sensors micro based cytometry optofluidic techniques and optical coherence tomography Optic fiber sensors for explosive detection and photonic liquid crystal fiber sensors for security monitoring Photonics assisted frequency measurement with promising electronic warfare applications An invaluable multidisciplinary resource for researchers and professionals in photonic sensing as well as safety and security monitoring this book will help readers jump start their own research and development in areas of physics chemistry biology medicine mechanics electronics and defense

Electromagnetic Simulation Techniques Based on the FDTD Method W. Yu, 2009-09-15 Bridges the gap between FDTD theory and the implementation of practical simulation techniques This is the first publication that guides readers step by step through the implementation of electromagnetic simulation techniques based on FDTD methods These simulation techniques serve as an essential bridge between FDTD methods and their applications Moreover the book helps readers better understand the underlying logic of FDTD methods so that they can design FDTD projects using either commercial electromagnetic software packages or their own codes in order to solve practical engineering problems The book begins with two chapters that introduce the basic concepts of the 3 D Cartesian FDTD method followed by discussions of advanced FDTD methods such as conformal techniques dispersive media circuit elements and near to far field transformation Next the book Presents basic concepts of parallel processing techniques and systems including parallel FDTD techniques and systems Explores simulation techniques based on FDTD methods Illustrates practical simulation techniques using engineering applications Introduces advanced simulation techniques Each chapter concludes with references to help readers investigate particular topics in greater depth Each chapter also includes problem sets that challenge readers to put their new FDTD and simulation skills into practice By bridging the gap between FDTD theory and practical simulation techniques this publication is an invaluable guide for students and engineers who need to solve a wide range of design problems in RF antenna and microwave engineering

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Finite Element Software For Microwave Engineering Introduction

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