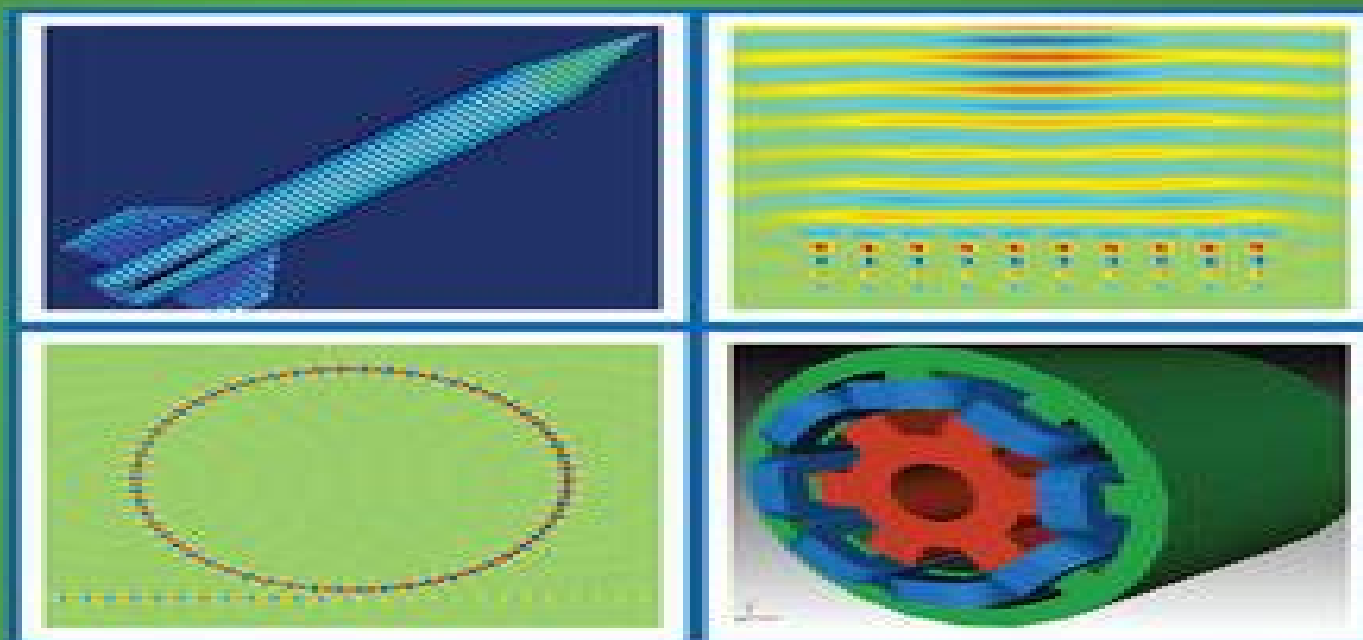


The Finite Element Method in Electromagnetics

THIRD EDITION



JIAN-MING JIN

The Finite Element Method In Electromagnetics

Jian-Ming Jin



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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

Introduction to the Finite Element Method in Electromagnetics Anastasis C. Polycarpou, 2022-05-31 This series lecture is an introduction to the finite element method with applications in electromagnetics The finite element method is a numerical method that is used to solve boundary value problems characterized by a partial differential equation and a set of boundary conditions The geometrical domain of a boundary value problem is discretized using sub domain elements called the finite elements and the differential equation is applied to a single element after it is brought to a weak integro differential form A set of shape functions is used to represent the primary unknown variable in the element domain A set of linear equations is obtained for each element in the discretized domain A global matrix system is formed after the assembly of all elements This lecture is divided into two chapters Chapter 1 describes one dimensional boundary value problems with applications to electrostatic problems described by the Poisson s equation The accuracy of the finite element method is evaluated for linear and higher order elements by computing the numerical error based on two different definitions Chapter 2 describes two dimensional boundary value problems in the areas of electrostatics and electrodynamics time harmonic problems For the second category an absorbing boundary condition was imposed at the exterior boundary to simulate undisturbed wave propagation toward infinity Computations of the numerical error were performed in order to evaluate the accuracy and effectiveness of the method in solving

electromagnetic problems Both chapters are accompanied by a number of Matlab codes which can be used by the reader to solve one and two dimensional boundary value problems These codes can be downloaded from the publisher s URL www.morganclaypool.com/page/polycarpou This lecture is written primarily for the nonexpert engineer or the undergraduate or graduate student who wants to learn for the first time the finite element method with applications to electromagnetics It is also targeted for research engineers who have knowledge of other numerical techniques and want to familiarize themselves with the finite element method The lecture begins with the basics of the method including formulating a boundary value problem using a weighted residual method and the Galerkin approach and continues with imposing all three types of boundary conditions including absorbing boundary conditions Another important topic of emphasis is the development of shape functions including those of higher order In simple words this series lecture provides the reader with all information necessary for someone to apply successfully the finite element method to one and two dimensional boundary value problems in electromagnetics It is suitable for newcomers in the field of finite elements in electromagnetics

Finite Element Method Electromagnetics John L. Volakis, Arindam Chatterjee, Leo C. Kempel, 1998-06-15 Employed in a large number of commercial electromagnetic simulation packages the finite element method is one of the most popular and well established numerical techniques in engineering This book covers the theory development implementation and application of the finite element method and its hybrid versions to electromagnetics FINITE ELEMENT METHOD FOR ELECTROMAGNETICS begins with a step by step textbook presentation of the finite method and its variations then goes on to provide up to date coverage of three dimensional formulations and modern applications to open and closed domain problems Worked out examples are included to aid the reader with the fine features of the method and the implementation of its hybridization with other techniques for a robust simulation of large scale radiation and scattering The crucial treatment of local boundary conditions is carefully worked out in several stages in the book Sponsored by IEEE Antennas and Propagation Society

Frequency Domain Hybrid Finite Element Methods in Electromagnetics John. L Volakis, Kubilay Sertel, Brian C Usner, 2022-06-01 This book provides a brief overview of the popular Finite Element Method FEM and its hybrid versions for electromagnetics with applications to radar scattering antennas and arrays guided structures microwave components frequency selective surfaces periodic media and RF materials characterizations and related topics It starts by presenting concepts based on Hilbert and Sobolev spaces as well as Curl and Divergence spaces for generating matrices useful in all engineering simulation methods It then proceeds to present applications of the finite element and finite element boundary integral methods for scattering and radiation Applications to periodic media metamaterials and bandgap structures are also included The hybrid volume integral equation method for high contrast dielectrics and is presented for the first time Another unique feature of the book is the inclusion of design optimization techniques and their integration within commercial numerical analysis packages for shape and material design To aid the reader with the method s utility an entire chapter is devoted to

two dimensional problems The book can be considered as an update on the latest developments since the publication of our earlier book *Finite Element Method for Electromagnetics* IEEE Press 1998 The latter is certainly complementary companion to this one *The Finite Element Method in Electromagnetics* Jian-Ming Jin, 2002-05-27 A systematic treatment of the finite element method Anyone interested in the state of the art in finite element formulations will find this book an interesting read In particular I would strongly recommend it to those members of the electromagnetic community who are involved in high frequency applications Measurement Science and Technology The finite element method is one of the preeminent simulation techniques for obtaining solutions to boundary value problems in mathematical physics It has applications in a variety of engineering and scientific studies such as antennas radar microwave engineering high speed high frequency circuits wireless communication electro optical engineering remote sensing bioelectromagnetics and geoelectromagnetics This Second Edition of an essential text teaches the finite element method for electromagnetic analysis It offers engineers a methodical way to quickly master this very powerful technique for solving practical often complicated engineering problems This book provides the first systematic treatment of this numerical analysis technique for electromagnetics including a brief overview of the two classic methods the Ritz variational method and Galerkin's method which form the foundation of the finite element function Employing an example to introduce the concept of the finite element method and describe the essential steps of the technique the author lays the groundwork for a broad based understanding of the finite element method's usefulness He completes his coverage by describing the finite element analysis of one two and three dimensional problems developing for each problem a rigorous finite element solution in general form from which solutions to specific problems can be deduced Carefully updated to include the most recent developments the Second Edition now includes new coverage of Absorbing boundary conditions A hybrid technique for pen region scattering and radiation problems Eigenfunction expansions on elliptical boundaries Time domain analysis of transient electromagnetic problems The method of moments and its fast solvers

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

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Electromagnetics Through the Finite Element Method Jos?e Roberto Cardoso,2017

The Finite Element Method for Electromagnetic Modeling Gérard Meunier,2010-01-05 The Finite Element Method for Electromagnetic Modeling Written by specialists in the modeling of electromagnetism this book provides a comprehensive review of the finite element method for low frequency applications Fundamentals of the method as well as new advances in the field are described in detail Static magnetodynamic and fixed formulations are first covered before the discussion moves on to different macroscopic behavior laws of materials and their implementation in a finite element context and to more specific formulations the modeling of thin regions when finite elements become ill fitting the coupling of 2D and 3D formulations with circuit equations taking into account the presence of eddy currents and the treatment of geometric symmetries when the sources are not symmetric Coupled problems are then outlined before the book concludes with coverage of different meshing methods in the context of electromagnetism and optimization techniques

Iterative and Self-adaptive Finite-elements in Electromagnetic Modeling Magdalena Salazar-Palma,1998 Ensure the accuracy of your results when applying the Finite Element Method FEM to electromagnetic and antenna problems with this self contained reference It provides you with a solid understanding of the method describes its key elements and numerical techniques and identifies various approaches to using the FEM in solving real world microwave field problems

Finite Element Methods for Maxwell's Equations Peter Monk,2003-04-17 Since the middle of the last century computing power has increased sufficiently that the direct numerical approximation of Maxwell s equations is now an increasingly important tool in science and engineering Parallel to the increasing use of numerical methods in computational electromagnetism there has also been considerable progress in the mathematical understanding of the properties of Maxwell s equations relevant to numerical analysis The aim of this book is to provide an up to date and sound theoretical foundation for finite element methods in computational electromagnetism The emphasis is on finite element methods for scattering problems that involve the solution of Maxwell s equations on infinite domains Suitable variational formulations are developed and justified mathematically An error analysis of edge finite element methods that are particularly well suited to Maxwell s equations is the main focus of the book The methods are justified for Lipschitz polyhedral domains that can cause strong singularities in the solution The book finishes with a short introduction to inverse problems in electromagnetism

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