Anastasis C. Polycarpou

Introduction to the Finite Element Method in Electromagnetics

Introduction To Computational Electromagnetics The Finite

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Introduction To Computational Electromagnetics The Finite:

Introduction to the Finite Element Method in Electromagnetics Anastasis Polycarpou,2007-12-31 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 **Essentials of Computational Electromagnetics** Xin-Qing Sheng,Wei Song,2011-12-21 Essentials of Computational Electromagnetics provides anin depth introduction of the three main full wave numerical methodsin computational electromagnetics CEM namely the method ofmoment MoM the finite element method FEM and thefinite difference time domain FDTD method Numerous monographscan be found addressing one of the above three methods However few give a broad general overview of essentials embodied in thesemethods or were published too early to include

recent advances Furthermore many existing monographs only present the finalnumerical results without specifying practical issues such as howto convert discretized formulations into computer programs and thenumerical characteristics of the computer programs In this book the authors elaborate the above three methods in CEM usingpractical case studies explaining their own research experiencesalong with a review of current literature A full analysis isprovided for typical cases including characteristics of numericalmethods helping beginners to develop a quick and deepunderstanding of the essentials of CEM Outlines practical issues such as how to convert discretizedformulations into computer programs Gives typical computer programs and their numericalcharacteristics along with line by line explanations ofprograms Uses practical examples from the authors own work as well asin the current literature Includes exercise problems to give readers a betterunderstanding of the material Introduces the available commercial software and theirlimitations This book is intended for graduate level students in antennasand propagation microwaves microelectronics andelectromagnetics This text can also be used by researchers inelectrical and electronic engineering and software developersinterested in writing their own code or understanding the detailedworkings of code Companion website for the book ahref http www wiley com go sheng cemwww wiley com go sheng cem a   Computational Electromagnetics Anders Bondeson,Thomas Rylander,Pär Ingelström,2005-08-15 Describes most popular computational methods used to solve problems in electromagnetics Matlab code is included throughout so that the reader can implement the various techniques discussed Exercises included   **Introduction to the Finite-Difference Time-Domain (FDTD) Method for Electromagnetics** Stephen Gedney,2011-01-02 Introduction to the Finite Difference Time Domain FDTD Method for Electromagnetics provides a comprehensive tutorial of the most widely used method for solving Maxwell s equations the Finite Difference Time Domain Method This book is an essential guide for students researchers and professional engineers who want to gain a fundamental knowledge of the FDTD method It can accompany an undergraduate or entry level graduate course or be used for self study The book provides all the background required to either research or apply the FDTD method for the solution of Maxwell s equations to practical problems in engineering and science Introduction to the Finite Difference Time Domain FDTD Method for Electromagnetics guides the reader through the foundational theory of the FDTD method starting with the one dimensional transmission line problem and then progressing to the solution of Maxwell s equations in three dimensions It also provides step by step guides to modeling physical sources lumped circuit components absorbing boundary conditions perfectly matched layer absorbers and sub cell structures Post processing methods such as network parameter extraction and far field transformations are also detailed Efficient implementations of the FDTD method in a high level language are also provided Table of Contents Introduction 1D FDTD Modeling of the Transmission Line Equations Yee Algorithm for Maxwell s Equations Source Excitations Absorbing Boundary Conditions The Perfectly Matched Layer PML Absorbing Medium Subcell Modeling Post Processing   *Introduction to the Finite Element Method in Electromagnetics (Synthesis*

Lectures on Computational Electromagnetics). Anastasis C. Polycarpou, *Computational Electromagnetics for RF and Microwave Engineering* David B. Davidson,2010-10-28 This hands on introduction to computational electromagnetics CEM links theoretical coverage of the three key methods the FDTD MoM and FEM to open source MATLAB codes freely available online in 1D 2D and 3D together with many practical hints and tips gleaned from the author s 25 years of experience in the field Updated and extensively revised this second edition includes a new chapter on 1D FEM analysis and extended 3D treatments of the FDTD MoM and FEM with entirely new 3D MATLAB codes Coverage of higher order finite elements in 1D 2D and 3D is also provided with supporting code in addition to a detailed 1D example of the FDTD from a FEM perspective With running examples through the book and end of chapter problems to aid understanding this is ideal for professional engineers and senior undergraduate graduate students who need to master CEM and avoid common pitfalls in writing code and using existing software **Computational Electrodynamics** Allen Taflove,1995 This work represents a university text and professional research reference on the finite difference time domain computational solution method for Maxwell s equations Sections cover numerical stability numerical dispersion and dispersive nonlinear and gain methods of FD TD and antenna analysis Computational Electromagnetics Zoltan J. Cendes,1986 Machine Learning Applications in Electromagnetics and Antenna Array Processing Manel Martínez-Ramón,Arjun Gupta,José Luis Rojo-Álvarez,Christos G. Christodoulou,2021-04-30 This practical resource provides an overview of machine learning ML approaches as applied to electromagnetics and antenna array processing Detailed coverage of the main trends in ML including uniform and random array processing beamforming and detection of angle of arrival antenna optimization wave propagation remote sensing radar and other aspects of electromagnetic design are explored An introduction to machine learning principles and the most common machine learning architectures and algorithms used today in electromagnetics and other applications is presented including basic neural networks gaussian processes support vector machines kernel methods deep learning convolutional neural networks and generative adversarial networks Applications in electromagnetics and antenna array processing that are solved using machine learning are discussed including antennas remote sensing and target classification **Computational Electromagnetics and Supercomputer Architecture** ,1993 *Advanced Computational and Design Techniques in Applied Electromagnetic Systems* S.-Y. Hahn,2013-10-22 This symposium was concerned with advanced computational and design techniques in applied electromagnetic systems including devices and materials The scope of the proceedings cover a wide variety of topics in applied electromagnetic fields optimal design techniques and applications inverse problems advanced numerical techniques mechanism and dynamics of new actuators physics and applications of magnetic levitation electromagnetic propulsion and superconductivity modeling and applications of magnetic fluid plasma and arc discharge high frequency field computations electronic device simulations and magnetic materials Computational Electromagnetics and Its Applications Thomas G. Campbell,Roy A. Nicolaides,Manuel D. Salas,2012-12-06 This volume contains the proceedings of

the first ICASE LaRC Work shop on Computational Electromagnetics and Its Applications conducted by the Institute for Computer Applications in Science and Engineering and NASA Langley Research Center We had several goals in mind when we decided jointly with the Elec tromagnetics Research Branch to organize this workshop on Computa tional Electromagnetics CEM Among our goals were a desire to obtain an overview of the current state of CEM covering both algorithms and ap plications and their effect on NASA s activities in this area In addition we wanted to provide an attractive setting for computational scientists with expertise in other fields especially computational fluid dynamics CFD to observe the algorithms and tools of CEM at work Our expectation was that scientists from both fields would discover mutually beneficial inter connections and relationships Another goal was to learn of progress in solution algorithms for electromagnetic optimization and design problems such problems make extensive use of field solvers and computational effi ciency is at a premium To achieve these goals we assembled the renowned group of speakers from academia and industry whose talks are contained in this volume The papers are printed in the same order in which the talks were pre sented at the meeting The first paper is an overview of work currently being performed in the Electromagnetic Research Branch at the Langley Research Center **Handbook of Electromagnetic Compatibility** Reinaldo Perez,1995 This text offers readers an understanding of the fundamentals of EMC from basic mathematical and physical concepts through present computer age methods used in analysis design and tests Fortified with information on how to solve potential electromagnetic interference EMI problems that may arise in electronic design practitioners should be better able to grasp the latest techniques trends and applications of this increasingly important engineering discipline 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 **Computing Handbook, Third Edition** Teofilo Gonzalez,Jorge Diaz-Herrera,Allen Tucker,2014-05-07 Computing Handbook Third Edition Computer Science and Software Engineering mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery ACM and the IEEE Computer Society IEEE CS Written by established leading experts and influential young researchers the first volume of this popular handbook examines the elements involved in designing and implementing software new areas in which computers are being used and ways to solve computing problems The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals Like the second volume this first volume describes what occurs in research laboratories educational institutions and public and private organizations to advance the effective development and use of computers and computing in today s world Research level survey articles provide deep insights into the computing discipline enabling readers to understand the principles and practices that drive computing education research and development in the twenty first century **Computational Science – ICCS 2023** Jiří Mikyška,Clélia de Mulatier,Maciej Paszynski,Valeria V. Krzhizhanovskaya,Jack J. Dongarra,Peter M.A. Sloot,2023-06-30 The five volume set LNCS 14073 14077 constitutes the proceedings of the 23rd International Conference on Computational Science ICCS 2023 held in Prague Czech Republic during July 3 5 2023 The total of 188 full papers and 94 short papers presented in this book set were carefully reviewed and selected from 530 submissions 54 full and 37 short papers were accepted to the main track 134 full and 57 short papers were accepted to the workshops thematic tracks The theme for 2023 Computation at the Cutting Edge of Science highlights the role of Computational Science in assisting multidisciplinary research This conference was a unique event focusing on recent developments in scalable scientific algorithms advanced software tools computational grids advanced numerical methods and novel application areas These innovative novel models algorithms and tools drive new science through efficient application in physical systems computational and systems biology environmental systems finance and others *Numerical Methods for Engineering* Karl F. Warnick,2020-09-26 The revised and updated second edition of this textbook teaches students to create computer codes used to engineer antennas microwave circuits and other critical technologies for wireless communications and other applications of electromagnetic fields and waves Worked code examples are provided for MATLAB technical computing software Computing Handbook Allen Tucker,Teofilo Gonzalez,Heikki Topi,Jorge Diaz-Herrera,2022-05-29 This two volume set of the Computing Handbook Third Edition previously theComputer Science Handbook provides up to date information on a wide range of topics in computer science information systems IS information technology IT and software engineering The third edition of this popular handbook addresses not only the dramatic growth of computing as a discipline but also the relatively new delineation of computing as a family of separate disciplines as described by the Association for

Computing Machinery ACM the IEEE Computer Society IEEE CS and the Association for Information Systems AIS Both volumes in the set describe what occurs in research laboratories educational institutions and public and private organizations to advance the effective development and use of computers and computing in today s world Research level survey articles provide deep insights into the computing discipline enabling readers to understand the principles and practices that drive computing education research and development in the twenty first century Chapters are organized with minimal interdependence so that they can be read in any order and each volume contains a table of contents and subject index offering easy access to specific topics The first volume of this popular handbook mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery ACM and the IEEE Computer Society IEEE CS Written by established leading experts and influential young researchers it examines the elements involved in designing and implementing software new areas in which computers are being used and ways to solve computing problems The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals The second volume of this popular handbook demonstrates the richness and breadth of the IS and IT disciplines The book explores their close links to the practice of using managing and developing IT based solutions to advance the goals of modern organizational environments Established leading experts and influential young researchers present introductions to the current status and future directions of research and give in depth perspectives on the contributions of academic research to the practice of IS and IT development use and management

SIAM Journal on Scientific Computing ,2008 Modern Discrete Mathematics and Analysis Nicholas J. Daras,Themistocles M. Rassias,2018-07-05 A variety of modern research in analysis and discrete mathematics is provided in this book along with applications in cryptographic methods and information security in order to explore new techniques methods and problems for further investigation Distinguished researchers and scientists in analysis and discrete mathematics present their research Graduate students scientists and engineers interested in a broad spectrum of current theories methods and applications in interdisciplinary fields will find this book invaluable

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