

Anastasis C. Polycarpou

# Introduction to the Finite Element Method in Electromagnetics

# Introduction To Computational Electromagnetics The Finite

**Stephen Gedney**



## **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](http://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 an in depth introduction of the three main full wave numerical methods in computational electromagnetics CEM namely the method of moments 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 their 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 <http://www.wiley.com/go/shengcem> [www.wiley.com/go/shengcem](http://www.wiley.com/go/shengcem) **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** 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

**Computational Electromagnetics and Supercomputer Architecture** ,1993

**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 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 Electromagnetics Research Branch to organize this workshop on Computational Electromagnetics CEM Among our goals were a desire to obtain an overview of the current state of CEM covering both algorithms and applications 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 efficiency 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 presented at the meeting The first paper is an overview of work currently being performed in the Electromagnetic Research Branch at the Langley Research Center

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

**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

**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 the Computer 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 *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 **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

**Physics and Simulation of Optoelectronic Devices ,2007 Partial**

**Differential Equations** Roland Glowinski,Pekka Neittaanmäki,2008-06-26 For more than 250 years partial differential equations have been clearly the most important tool available to mankind in order to understand a large variety of phenomena natural at first and then those originating from man activity and technological development Mechanics physics and their engineering applications were the first to benefit from the impact of partial differential equations on modeling and design but a little less than a century ago the Schrödinger equation was the key opening the door to the application of partial differential equations to quantum chemistry for small atomic and molecular systems at first but then for systems of fast growing complexity The place of partial differential equations in mathematics is a very particular one initially the partial differential equations modeling natural phenomena were derived by combining calculus with physical reasoning in order to express conservation laws and principles in partial differential equation form leading to the wave equation the heat equation the equations of elasticity the Euler and Navier Stokes equations for fluids the Maxwell equations of electromagnetics etc It is in order to solve constructively the heat equation that Fourier developed the series bearing his name in the early 19th century Fourier series and later integrals have played and still play a fundamental role in both pure and applied mathematics including many areas quite remote from partial differential equations On the other hand several areas of mathematics such as differential geometry have benefited from their interactions with partial differential equations

*Applications of Neural Networks in Electromagnetics* Christos Christodoulou,Michael Georgiopoulos,2001 The high speed capabilities and learning abilities of neural networks can be applied to quickly solving numerous complex optimization problems in electromagnetics and this book shows you how Even if you have no background in neural networks this book helps you understand the basics of each

main network architecture in use today including its strengths and limitations Moreover it gives you the knowledge you need to identify situations when the use of neural networks is the best problem solving option [SIAM Journal on Scientific Computing](#) ,2008

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