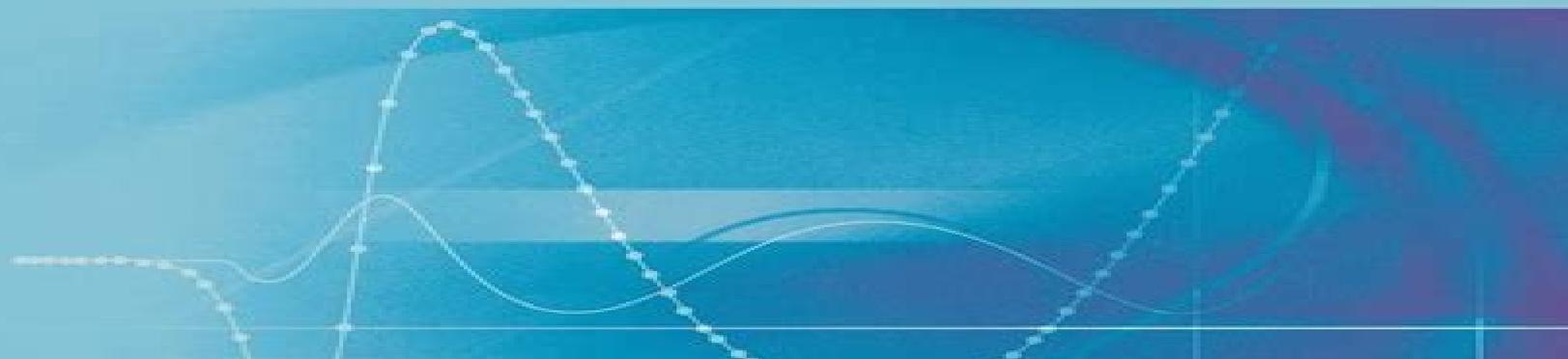


ALLEN TAFLOVE • SUSAN C. HAGNESS



**computational
electrodynamics**

THE FINITE-DIFFERENCE TIME-DOMAIN METHOD

THIRD EDITION

Computational Electrodynamics

David Baud



Computational Electrodynamics:

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

Advances in Computational Electrodynamics Allen Taflove, 1998 Finite Difference Time Domain FD TD modeling is arguably the most popular and powerful means available to perform detailed electromagnetic engineering analyses Edited by the pioneer and foremost authority on the subject here is the first book to assemble in one resource the latest techniques and results of the leading theoreticians and practitioners of FD TD computational electromagnetics modeling *Computational Electrodynamics* Wim Schoenmaker, 2022-09-01 Computational Electrodynamics is a vast research field with a wide variety of tools In physics the principle of gauge invariance plays a pivotal role as a guide towards a sensible formulation of the laws of nature as well as computing the properties of elementary particles using the lattice formulation of gauge theories yet the gauge principle has played a much less pronounced role in performing computation in classical electrodynamics In this work the author will demonstrate that starting from the gauge formulation of electrodynamics using the electromagnetic potentials leads to computational tools that can very well compete with the conventional electromagnetic field based tools Once accepting the formulation based on gauge fields the computational code is very transparent due to the mimetic mapping of the electrodynamic variables on the computational grid Although the illustrations and applications originate from microelectronic engineering the method has a much larger range of applicability Therefore this book is of interest to everyone having interest in computational electrodynamics The volume is organized as follows In part 1 a detailed introduction and overview is presented of the Maxwell equations as well as the derivation of the current and charge densities in different materials Semiconductors are responding to electromagnetic fields in a non linear way and the induced complications are discussed in detail In part 2 the transition of the theory of electrodynamics using the gauge potentials to a formulation that can serve as the gateway to computational code is presented In part 3 the feasibility and success of the methods of part 2 are demonstrated by a collection of microelectronic device designs Part 4 focuses on a set of topical themes that brings the reader to the frontier of research in building the simulation tools using the gauge principle in computational electrodynamics Technical topics discussed in the book include Electromagnetic Field Equations Constitutive Relations Discretization and Numerical Analysis Finite Element and Finite Volume Methods Design of Integrated Passive Components

Computational Electromagnetics Konada Umashankar, Allen Taflove, 1993 A self study tutorial which presents the fundamental principles and rigorous numerical validations of a major contemporary branch in frequency domain computational electromagnetics

Numerical Methods in Computational Electrodynamics Ursula van Rienen, 2012-12-06 treated in more detail They are just specimen of larger classes of schemes Essentially we have to

distinguish between semi analytical methods discretization methods and lumped circuit models The semi analytical methods and the discretization methods start directly from Maxwell s equations Semi analytical methods are concentrated on the analytical level They use a computer only to evaluate expressions and to solve resulting linear algebraic problems The best known semi analytical methods are the mode matching method which is described in subsection 2 1 the method of integral equations and the method of moments In the method of integral equations the given boundary value problem is transformed into an integral equation with the aid of a suitable Greens function In the method of moments which includes the mode matching method as a special case the solution function is represented by a linear combination of appropriately weighted basis functions The treatment of complex geometrical structures is very difficult for these methods or only possible after geometric simplifications In the method of integral equations the Greens function has to satisfy the boundary conditions In the mode matching method it must be possible to decompose the domain into subdomains in which the problem can be solved analytically thus allowing to find the basis functions Nevertheless there are some applications for which the semi analytic methods are the best suited solution methods For example an application from accelerator physics used the mode matching technique see subsection 5 4

Computational Electromagnetics and Its Applications Thomas G.

Campbell,Roy A. Nicolaidis,Manuel D. Salas,2012-12-06 This volume contains the proceedings of the first ICASE LaRC Workshop 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

Advances in FDTD Computational Electrodynamics Allen Taflove,Ardavan Oskooi,Steven G. Johnson,2013 Advances in photonics and nanotechnology have the potential to revolutionize humanity s ability to communicate and compute This book helps readers understand the developments in computational modeling of nanoscale optical microscopy and microchip lithography as well as nanoscale plasmonics and biophotonics

Computational Electromagnetics for RF and Microwave Engineering David B.

Davidson,2005-02-24 Publisher Description Computational Electromagnetics Thomas Rylander,Pär Ingelström,Anders Bondeson,2012-11-06 Computational Electromagnetics is a young and growing discipline expanding as a result of the steadily increasing demand for software for the design and analysis of electrical devices This book introduces three of the most popular numerical methods for simulating electromagnetic fields the finite difference method the finite element method and the method of moments In particular it focuses on how these methods are used to obtain valid approximations to the solutions of Maxwell s equations using for example staggered grids and edge elements The main goal of the book is to make the reader aware of different sources of errors in numerical computations and also to provide the tools for assessing the accuracy of numerical methods and their solutions To reach this goal convergence analysis extrapolation von Neumann stability analysis and dispersion analysis are introduced and used frequently throughout the book Another major goal of the book is to provide students with enough practical understanding of the methods so they are able to write simple programs on their own To achieve this the book contains several MATLAB programs and detailed description of practical issues such as assembly of finite element matrices and handling of unstructured meshes Finally the book aims at making the students well aware of the strengths and weaknesses of the different methods so they can decide which method is best for each problem In this second edition extensive computer projects are added as well as new material throughout Reviews of previous edition The well written monograph is devoted to students at the undergraduate level but is also useful for practising engineers Zentralblatt MATH 2007 **Computational Electrodynamics** Allen Taflove,Susan C. Hagness,2005 This extensively revised and expanded third edition of the Artech House bestseller Computational Electrodynamics The Finite Difference Time Domain Method offers you the most up to date and definitive resource on this critical method for solving Maxwell s equations There has been considerable advancement in FDTD computational technology over the past few years and this new edition brings you the very latest details with four new invited chapters on advanced techniques for PSTD unconditional stability provably stable FDTD FETD hybrids and hardware acceleration Moreover you find many completely new sections throughout the book including major updates on convolutional PML ABCs dispersive nonlinear classical gain and quantum gain materials and micro nano and bio photonics 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 the Rational Design of Dielectric Heterostructures* Christian Brosseau,2003 *Computational Electromagnetics and Supercomputer Architecture* ,1993 The Generalized Multipole Technique for Computational Electromagnetics Christian Hafner,1990 Beginning with a detailed comparison of traditional methods of EM field analysis this text leads up to a step by step explication of the Generalized Multiple Technique GMT *High-order Runge-Kutta Discontinuous Galerkin Methods for Computational Electromagnetics* Min-Hung Chen,2005 *Time Domain*

Methods in Electrodynamics Peter Russer,Uwe Siart,2008-09-26 This book consists of contributions given in honor of Wolfgang J R Hoefer Space and time discretizing time domain methods for electromagnetic full wave simulation have emerged as key numerical methods in computational electromagnetics Time domain methods are versatile and can be applied to the solution of a wide range of electromagnetic field problems Computing the response of an electromagnetic structure to an impulsive excitation localized in space and time provides a comprehensive characterization of the electromagnetic properties of the structure in a wide frequency range The most important methods are the Finite Difference Time Domain FDTD and the Transmission Line Matrix TLM methods The contributions represent the state of the art in dealing with time domain methods in modern engineering electrodynamics for electromagnetic modeling in general the Transmission Line Matrix TLM method the application of network concepts to electromagnetic field modeling circuit and system applications and finally with broadband devices systems and measurement techniques *Computational Methods for Electromagnetics* Andrew F. Peterson,Scott L. Ray,Raj Mittra,1998 *Computational Methods for Electromagnetics* is an indispensable resource for making efficient and accurate formulations for electromagnetics applications and their numerical treatment Employing a unified coherent approach that is unmatched in the field the authors detail both integral and differential equations using the method of moments and finite element procedures In addition readers will gain a thorough understanding of numerical solution procedures Detail is provided to enable the reader to implement concepts in software and in addition a collection of related computer programs are available via the Internet *Computational Methods for Electromagnetics* is designed for graduate level classroom use or self study and every chapter includes problems It will also be of particular interest to engineers working in the aerospace defense telecommunications wireless electromagnetic compatibility and electronic packaging industries Amazon com **Energy Research and Power Engineering 2014** W.Y. Fan,G.P. Wang,H.D. Liu,Z.J. Xie,Y.P. Chen,Z.F. Yang,H.C. Wang,2014-07-18 Selected peer reviewed papers from the 2014 International Conference on Energy Research and Power Engineering ERPE 14 May 17 18 2014 Dalian China The Linear Bicharacteristic Scheme for Electromagnetics John H. Beggs,2001 *FPGA ...* ,2002

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