Computational Electromagnetics
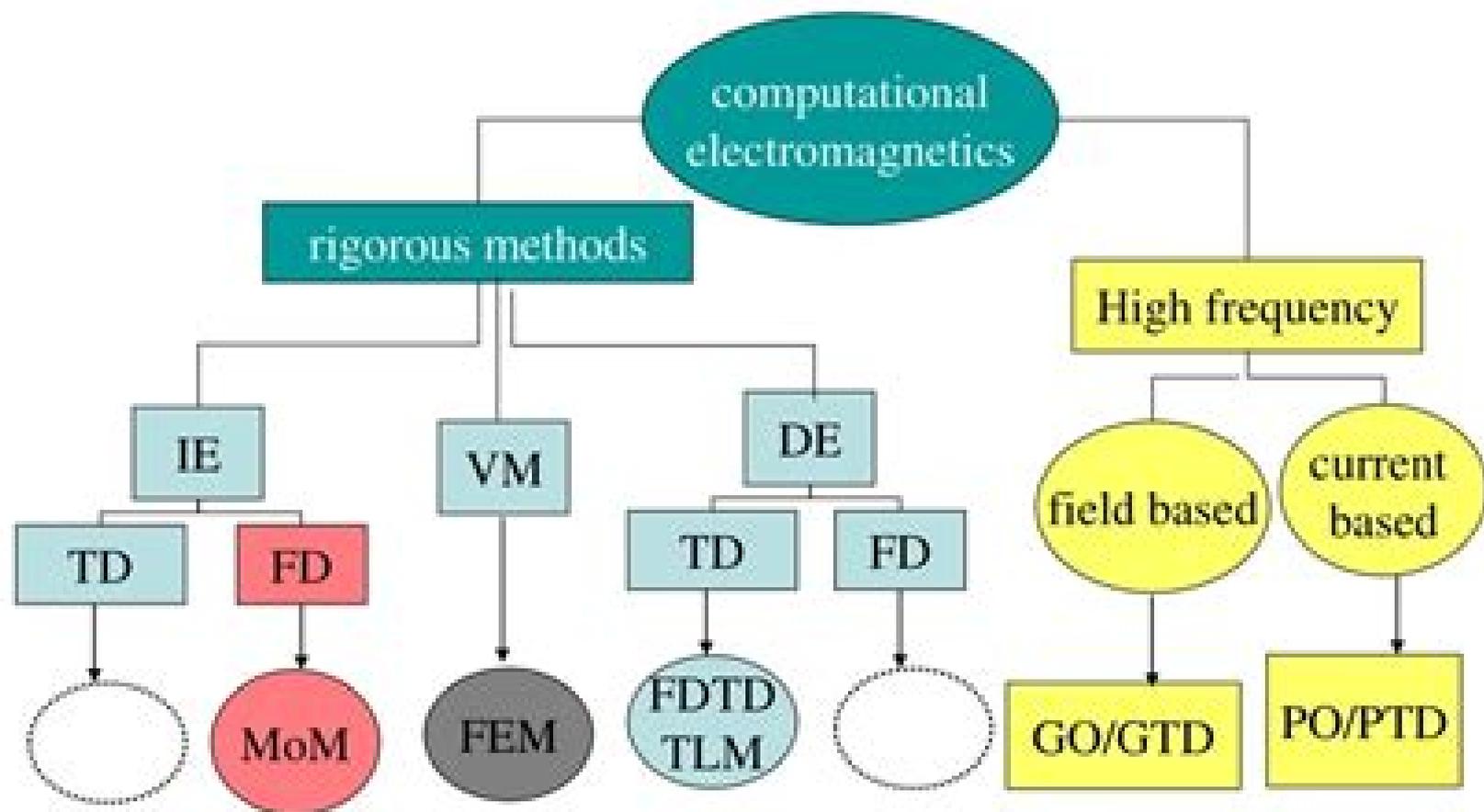
Computational Electromagnetics

Anders Bondeson,Thomas Rylander,Pär Ingelström

Computational Electromagnetics:

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 **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 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 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 moment 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 the 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 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   Advanced Computational Electromagnetic Methods Wenhua Yu,Wenxing Li,Atef Elsherbeni,Yahya Rahmat-Samii,2015-03-01 This new resource covers the latest developments in computational electromagnetic methods with emphasis on cutting edge applications This book is designed to extend existing literature to the latest development in computational electromagnetic methods which are of interest to readers in both academic and industrial areas The topics include advanced techniques in MoM FEM and FDTD spectral domain method GPU and Phi hardware acceleration metamaterials frequency and time domain integral equations and statistics methods in bio electromagnetics   *Applied Computational Electromagnetics* Nikolaos K. Uzunoglu,Konstantina S. Nikita,Dimitra I. Kaklamani,2012-12-06 EOI AEI rEOMETPEI Epigram of the Academy of Plato in Athens Electromagnetism the science of forces arising from Amber HAEKTPON and the stone of Magnesia MArNHLIA has been the fOWldation of major scientific breakthroughs such as Quantum Mechanics and Theory of Relativity as well as most leading edge technologies of the twentieth century The accuracy of electromagnetic fields computations for engineering purposes has been significantly improved during the last decades due to the deVelopment of efficient computational techniques and the availability of high performance computing The present book is based on the contributions and discussions developed during the NATO Advanced Study Institute on Applied Computational Electromagnetics State of the Art and Future Trends which has taken place in Hellas on the island of Samos very close to the birthplace of Electromagnetism The book covers the fundamental concepts recent developments and advanced applications of Integral Equation and Metliod of Moments Techniques Finite Element and BOWldary Element Methods Finite Difference Time Domain and Transmission Line Methods Furthermore topics related to Computational Electromagnetics such as Inverse Scattering Semi Analytical Methods and Parallel Processing Techniques are included The collective presentation of the principal computational electromagnetics techniques developed to handle diverse challenging leading edge technology problems is expected to be useful to researchers and postgraduate students working in various topics of electromagnetic technologies   *Theory and Computation of Electromagnetic Fields* Jian-Ming Jin,2015-08-10 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   Computational Electromagnetics with MATLAB, Fourth Edition Matthew N.O. Sadiku,2018-07-20 This fourth edition of the text reflects the continuing increase in awareness and use of computational electromagnetics and incorporates advances and refinements made in recent years Most notable among these are the improvements made to the standard algorithm for the finite difference time domain FDTD method and treatment of absorbing boundary conditions in FDTD finite element and transmission line matrix methods It teaches the readers how to pose numerically analyze and solve EM problems to give them the ability to expand their problem solving skills using a variety of methods and to prepare them for research in electromagnetism Includes new homework problems in each chapter Each chapter is updated with the current trends in CEM Adds a new appendix on CEM codes which covers commercial and free codes Provides updated MATLAB code   Computational Electromagnetics Carsten Carstensen,Stefan Funken,Wolfgang Hackbusch,Ronald W. Hoppe,Peter Monk,2012-12-06 The dimmed outlines of phenomenal things all into one another unless we put on the merge focusing glass of theory and screw it up some times to one pitch of definition and sometimes to another so as to see down into different depths through the great millstone of the world James Clerk Maxwell 1831 1879 For a long time after the foundation of the modern theory of electromag netism by James Clerk Maxwell in the 19th century the mathematical ap proach to electromagnetic field problems was for a long time dominated by the analytical investigation of Maxwell s equations The rapid development of computing facilities during the last century has then necessitated appropriate numerical methods and algorithmic tools for the simulation of electromagnetic phenomena During the last few decades a new research area Computational Electromagnetics has emerged com prising the mathematical analysis design implementation and application of numerical schemes to simulate all kinds of relevant electromagnetic pro cesses This area is still rapidly evolving with a wide spectrum of challenging issues featuring among others such problems as

the proper choice of spatial discretizations finite differences finite elements finite volumes boundary elements fast solvers for the discretized equations multilevel techniques domain decomposition methods multipole panel clustering and multiscale aspects in microelectronics and micromagnetics *Deterministic and Stochastic Modeling in Computational Electromagnetics* Dragan Poljak,Anna Susnjara,2023-12-07 Deterministic and Stochastic Modeling in Computational Electromagnetics Help protect your network with this important reference work on cyber security Deterministic computational models are those for which all inputs are precisely known whereas stochastic modeling reflects uncertainty or randomness in one or more of the data inputs Many problems in computational engineering therefore require both deterministic and stochastic modeling to be used in parallel allowing for different degrees of confidence and incorporating datasets of different kinds In particular non intrusive stochastic methods can be easily combined with widely used deterministic approaches enabling this more robust form of data analysis to be applied to a range of computational challenges Deterministic and Stochastic Modeling in Computational Electromagnetics provides a rare treatment of parallel deterministic stochastic computational modeling and its beneficial applications Unlike other works of its kind which generally treat deterministic and stochastic modeling in isolation from one another it aims to demonstrate the usefulness of a combined approach and present particular use cases in which such an approach is clearly required It offers a non intrusive stochastic approach which can be incorporated with minimal effort into virtually all existing computational models Readers will also find A range of specific examples demonstrating the efficiency of deterministic stochastic modeling Computational examples of successful applications including ground penetrating radars GPR radiation from 5G systems transcranial magnetic and electric stimulation TMS and TES and more Introduction to fundamental principles in field theory to ground the discussion of computational modeling Deterministic and Stochastic Modeling in Computational Electromagnetics is a valuable reference for researchers including graduate and undergraduate students in computational electromagnetics as well as to multidisciplinary researchers engineers physicists and mathematicians **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 Electromagnetics** Zoltan J. Cendes,1986 Computational

Electromagnetism Alain Bossavit,1998-02-04 Computational Electromagnetism refers to the modern concept of computer aided analysis and design of virtually all electric devices such as motors machines transformers etc as well as of the equipment inthe currently booming field of telecommunications such as antennas radars etc The present book is uniquely written to enable the reader be it a student a scientist or a practitioner to successfully perform important simulation techniques and to design efficient computer software for electromagnetic device analysis Numerous illustrations solved exercises original ideas and an extensive and up to date bibliography make it a valuable reference for both experts and beginners in the field A researcher and practitioner will find in it information rarely available in other sources such as on symmetry bilateral error bounds by complimentarity edge and face elements treatment of infinite domains etc At the same time the book is a useful teaching tool for courses in computational techniques in certain fields of physics and electrical engineering As a self contained text it presents an extensive coverage of the most important concepts from Maxwells equations to computer solvable algebraic systems for both static quasi static and harmonic high frequency problems BenefitsTo the EngineerA sound background necessary not only to understand the principles behind variational methods and finite elements but also to design pertinent and well structured software To the Specialist in Numerical ModelingThe book offers new perspectives of practical importance on classical issues the underlying symmetry of Maxwell equations their interaction with other fields of physics in real life modeling the benefits of edge and face elements approaches to error analysis and complementarity To the TeacherAn expository strategy that will allow you to guide the student along a safe and easy route through otherwise difficult concepts weak formulations and their relation to fundamental conservation principles of physics functional spaces Hilbert spaces approximation principles finite elements and algorithms for solving linear systems At a higher level the book provides a concise and self contained introduction to edge elements and their application to mathematical modeling of the basic electromagnetic phenomena and static problems such as eddy current problems and microwaves in cavities To the StudentSolved exercises with hint and full solution sections will both test and enhance the understanding of the material Numerous illustrations will help in grasping difficult mathematical concepts

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 **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 **Computational Electromagnetics and Its Applications** Thomas G. Campbell,Roy A. Nicolaides,Manuel D. Salas,1997-09-30 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 **Computational Electromagnetics and Supercomputer Architecture** ,1993 **Time Domain Techniques in**

Computational Electromagnetics Dragan Poljak,2004 A state of the art review from invited contributors Subjects covered include time domain analysis of electromagnetic wave fields by boundary integral equation method and transient analysis of thin wires and related time domain energy measures   Perfectly Matched Layer (PML) for Computational Electromagnetics Jean-Pierre Bérenger,2025-01-30 This book presents the perfectly matched layer PML absorbing boundary condition ABC used to simulate the surrounding free space when solving the Maxwell equations with such finite methods as the finite difference time domain FDTD method or the finite element method The frequency domain and the time domain equations are derived for the different forms of PML media namely the split PML the CPML the NPML and the uniaxial PML in the cases of PMLs matched to isotropic anisotropic and dispersive media The implementation of the PML ABC in the FDTD method is described with details Propagation and reflection of waves in the discretized FDTD space are derived and discussed with a special emphasize on the problem of evanescent waves The optimization of the PML ABC is described for two typical applications of the FDTD method firstly wave structure interaction problems secondly waveguide problems A review of the literature on the application of the PML ABC to other numerical techniques of electromagnetics and to other partial differential equations of physics is provided Finally the design of PMLs suited to actual applications is revisited in the context of computers of the 2020 s that are by far more powerful than the computers of the 1990 s when the PML ABC was introduced A simple and general purpose method is described to design the PML in this current context   **Computational Electromagnetics** Jin-Fa Lee,2017 Developed for Computational Physicists Researchers and Software Developers at the Practical LevelIntegrating in depth mathematical analysis with real world engineering practice Computational Electromagnetics Domain Decomposition Methods and Practical Applications focuses on domain decomposition methods DDMs that adequately deal with the vector wave equation Dedicated specifically to solving time harmonic Maxwell equations it covers challenges that are typically hard to address using conventional numerical methods This book adopts the philosophy throughout that every residual will either equal identically to zero through restrictions on the trial functions or be tested by test functions by ways of dual pairing Explore the Use of DDM to Solve Large Scale ProblemsThe material focuses on a multi trace combined field integral equation formulation with multiple traces derived and analyzed for EM scattering from a single homogeneous scatter and contains numerical examples demonstrating the benefits accuracy and scalability of DDM It provides examples for analyzing and addressing scattering problems that include an electromagnetic wave scattering from a large complex large scale composite mockup aircraft and an electromagnetic wave scattering from an electrically large inlet structure Presenting numerous facets of the nonoverlapping domain decomposition methods and their applications it reveals how these methods can help solve multi scale time harmonic electromagnetic problems This book covers Large finite antenna arrays metamaterials antenna systems conformally mounted on large platforms signal integrity analyses of complex integrated circuits and packaging and radar echo area computation of complex composite targets applicationsAn alternative

approach to formulate the corresponding boundary value problem by incorporating an additional vector variable defined only on the surfaceThe multi solver domain decomposition method MS DDM which is included in theory and practical engineering applicationsComputational Electromagnetics Domain Decomposition Methods and Practical Applications covers the applied aspects of domain decomposition methods for computational electromagnetics and helps to bridge the gap between multi scale and multi physics and the hands on application of practical engineering Provided by publisher

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