



ELECTROMAGNETIC MODELING BY FINITE ELEMENT METHODS

JOÃO PEDRO A. BASTOS
NELSON SADOWSKI

Electromagnetic Modeling By Finite Element Methods Electrical And Computer Engineering

José Roberto Cardoso



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Electromagnetic Modeling by Finite Element Methods João Pedro A. Bastos, Nelson Sadowski, 2003-04-01 Unlike any other source in the field this valuable reference clearly examines key aspects of the finite element method FEM for electromagnetic analysis of low frequency electrical devices The authors examine phenomena such as nonlinearity mechanical force electrical circuit coupling vibration heat and movement for applications in the electrical mechanical nuclear aeronautics and transportation industries Electromagnetic Modeling by Finite Element Methods offers a wide range of examples including torque vibration and iron loss calculation coupling of the FEM with mechanical equations circuits converters and thermal effects material modeling and proven methods for hysteresis implementation into FEM codes Providing experimental results and comparisons from the authors personal research Electromagnetic Modeling by Finite Element Methods supplies techniques to implement FEM for solving Maxwell s equations analyze electrical and magnetic losses determine the behavior of electrical machines evaluate force distribution on a magnetic medium simulate movement in electrical machines and electromagnetic devices fed by external circuits or static converters and analyze the vibrational behavior of electrical machines

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Multigrid Finite Element Methods for Electromagnetic Field Modeling Yu Zhu, Andreas C. Cangellaris, 2006-02-03 This is the first comprehensive monograph that features state of the art multigrid methods for enhancing the modeling versatility numerical robustness and computational efficiency of one of the most popular classes of numerical electromagnetic field modeling methods the method of finite elements The focus of the publication is the development of robust preconditioners for the iterative solution of electromagnetic field boundary value problems BVPs discretized by means of finite methods Specifically the authors set forth their own successful attempts to utilize concepts from multigrid and multilevel methods for the effective preconditioning of matrices resulting from the approximation of

electromagnetic BVPs using finite methods Following the authors careful explanations and step by step instruction readers can duplicate the authors results and take advantage of today s state of the art multigrid multilevel preconditioners for finite element based iterative electromagnetic field solvers Among the highlights of coverage are Application of multigrid multilevel and hybrid multigrid multilevel preconditioners to electromagnetic scattering and radiation problems Broadband robust numerical modeling of passive microwave components and circuits Robust finite element based modal analysis of electromagnetic waveguides and cavities Application of Krylov subspace based methodologies for reduced order macromodeling of electromagnetic devices and systems Finite element modeling of electromagnetic waves in periodic structures The authors provide more than thirty detailed algorithms alongside pseudo codes to assist readers with practical computer implementation In addition each chapter includes an applications section with helpful numerical examples that validate the authors methodologies and demonstrate their computational efficiency and robustness This groundbreaking book with its coverage of an exciting new enabling computer aided design technology is an essential reference for computer programmers designers and engineers as well as graduate students in engineering and applied physics *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 **MATLAB-based Finite Element**

Programming in Electromagnetic Modeling Özlem Özgün,Mustafa Kuzuoğlu,2018-09-03 This book is a self contained programming oriented and learner centered book on finite element method FEM with special emphasis given to developing MATLAB programs for numerical modeling of electromagnetic boundary value problems It provides a deep understanding and intuition of FEM programming by means of step by step MATLAB programs with detailed descriptions and eventually enabling the readers to modify adapt and apply the provided programs and formulations to develop FEM codes for similar problems through various exercises It starts with simple one dimensional static and time harmonic problems and extends the developed theory to more complex two or three dimensional problems It supplies sufficient theoretical background on the topic and it thoroughly covers all phases pre processing main body and post processing in FEM FEM formulations are obtained for boundary value problems governed by a partial differential equation that is expressed in terms of a generic

unknown function and then these formulations are specialized to various electromagnetic applications together with a post processing phase Since the method is mostly described in a general context readers from other disciplines can also use this book and easily adapt the provided codes to their engineering problems After forming a solid background on the fundamentals of FEM by means of canonical problems readers are guided to more advanced applications of FEM in electromagnetics through a survey chapter at the end of the book Offers a self contained and easy to understand introduction to the theory and programming of finite element method Covers various applications in the field of static and time harmonic electromagnetics Includes one two and three dimensional finite element codes in MATLAB Enables readers to develop finite element programming skills through various MATLAB codes and exercises Promotes self directed learning skills and provides an effective instruction tool

Modeling and Application of Electromagnetic and Thermal Field in Electrical Engineering Zhiguang Cheng, Norio Takahashi, Behzad Forghani, 2019-12-03 Co authored by an international research group with a long standing cooperation this book focuses on engineering oriented electromagnetic and thermal field modeling and application It presents important contributions including advanced and efficient finite element analysis used in the solution of electromagnetic and thermal field problems for large and multi scale engineering applications involving application script development magnetic measurement of both magnetic materials and components under various even extreme conditions based on well established standard and non standard experimental systems and multi level validation based on both industrial test systems and extended TEAM P21 benchmarking platform Although these are challenging topics they are useful for readers from both academia and industry

[The Finite Element Method in Electromagnetics](#) Jian-Ming Jin, 2014-03-31 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 *EMI/EMC Computational Modeling Handbook* Bruce R. Archambeault, Omar M. Ramahi, Colin Brench, 2013-04-17 The application of computational electromagnetics to practical EMI EMC engineering is an emerging technology Because of the increased complexity in EMI EMC issues resulting from advancements in electronics and telecommunications it is no longer possible to rely exclusively on traditional techniques and tools to solve the growing list of electronic engineering design problems EMI EMC Computational Modeling Handbook introduces modeling and simulation of electromagnetics to real world EMI EMC engineering It combines the essentials of electromagnetics computational techniques and actual EMI EMC applications Included are such popular full wave computational modeling techniques as the Method of Moments Finite Difference Time Domain Technique Finite Element Method and several others The authors have included a myriad of applications for computers telecommunications consumer electronics medical electronics and military uses EMI EMC Computational Modeling Handbook is an invaluable reference work for practicing EMI EMC engineers electronic design engineers and any engineer involved in computational electromagnetics *Scientific and Technical Aerospace Reports*, 1989-07 Computer Engineering in Applied Electromagnetism Slawomir Wiak, A. Krawczyk, M. Trlep, 2006-06-07 Computer Engineering in Applied Electromagnetism contains papers which were presented at the International Symposium on Electromagnetic Fields in Electrical Engineering held in Maribor Slovenia 18 20 September 2003 It consists of three parts Computational Techniques Electromagnetic Engineering and Special Applications The contributions selected for the book cover a wide spectrum of theory and practice being simultaneously of high theoretical level and deeply rooted in engineering problems Thus this volume touches on what is of key importance in electromagnetism **Electrical Performance of Electronic Packaging**, 2004 **Proceedings**, 2004 *Advanced Modeling in Computational Electromagnetic Compatibility* Dragan Poljak, 2007-03-16 This book will enable readers to handle various EMC problems to develop their own EMC computational models in applications in research and industry and to better understand numerical methods developed and used by other researchers and engineers not only in EMC but in other areas of engineering **Symposium Record**, 2002 **Computer Techniques for Electromagnetics** Raj Mittra, 1973 *Electromagnetic Modeling of High-speed High-frequency Interconnects* Jong-Gwan Yook, 1996

Computational Methods in Large Scale Simulation Khin Yong Lam, Heow Pueh Lee, 2005 Methods of multiscale modeling in mechanics W A Curtin Efficient and accurate boundary methods for computational optics Christian Hafner and J Smajic Finite element modeling of periodic structures Zheng Lou and Jian Ming Jin Factorization of potential and field distributions without utilizing the addition theorem Ali Reza Baghai Wadji and Erping Li Virtualization aware application framework for hierarchical multiscale simulations on a grid Aiichiro Nakano und weitere Molecular dynamics simulation and local quantities Tamio Ikeshoji Recent advances in modeling and simulation of high speed interconnects Michel Nakhla and

Ram Achat Multiscale modeling of degradation and failure of interconnect lines driven by electromigration and stress gradients Robert Atkinson and Alberto Cuiti o **Electromagnetics through the Finite Element Method** José Roberto Cardoso, 2016-10-03 Shelving Guide Electrical Engineering Since the 1980s more than 100 books on the finite element method have been published making this numerical method the most popular The features of the finite element method gained worldwide popularity due to its flexibility for simulating not only any kind of physical phenomenon described by a set of differential equations but also for the possibility of simulating non linearity and time dependent studies Although a number of high quality books cover all subjects in engineering problems none of them seem to make this method simpler and easier to understand This book was written with the goal of simplifying the mathematics of the finite element method for electromagnetic students and professionals relying on the finite element method for solving design problems Filling a gap in existing literature that often uses complex mathematical formulas *Electromagnetics through the Finite Element Method* presents a new mathematical approach based on only direct integration of Maxwell s equation This book makes an original scholarly contribution to our current understanding of this important numerical method 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 *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

Whispering the Strategies of Language: An Mental Journey through **Electromagnetic Modeling By Finite Element Methods Electrical And Computer Engineering**

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