Zhong-Xin Li

Numerical simulation algorithm of electromagnetic field for grounding problems in power system substation grounding grids



Numerical Solution Of Field Problems In

C.A. Brebbia, A.H-D Cheng

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Numerical Solution of Field Problems in Continuum Physics Society for Industrial and Applied Mathematics, 1970 Numerical Computation of Electric and Magnetic Fields Charles W. Steele, 2012-12-06 Since the first edition of this book was published in 1987 there have been several important changes in the state of numerical field computation as discussed in the Introduction These changes have motivated the publication of this second edition As with the first edition the objective of this second edition is to give the newcomer to field computation the information needed to perform practical field computations Again clarity of presentation is given greater emphasis than a high degree of sophistication or the state of the art And again the basic concepts of field computation are presented as well as the commonly used algorithms Several persons have provided much valuable information for this second edition I wish to thank Professor Giorgio Molinari of the University of Genoa Italy for advice regarding adaptive mesh generation Dr C R E Emson of Vector Fields Ltd England and Dr John Brauer of McNeal Schwendler Corp for their advice on transient eddy current computation and Dr Zoltan Cendes of Ansoft Corp for information about their adaptive mesh generator Again I would like to acknowledge the support for this second edition by my wife Candace Again I could not have written this book without her support Electromagnetic Fields Pei-bai Zhou, 2012-12-06 Numerical methods for solving boundary value problems have developed rapidly Knowledge of these methods is important both for engineers and scientists There are many books published that deal with various approximate methods such as the finite element method the boundary element method and so on However there is no textbook that includes all of these methods This book is intended to fill this gap The book is designed to be suitable for graduate students in engineering science for senior undergraduate students as well as for scientists and engineers who are interested in electromagnetic fields Objective Numerical calculation is the combination of mathematical methods and field theory A great number of mathematical concepts principles and techniques are discussed and many computational techniques are considered in dealing with practical problems. The purpose of this book is to provide students with a solid background in numerical analysis of the field problems The book emphasizes the basic theories and universal principles of different numerical methods and describes why and how different methods work Readers will then understand any methods which have not been introduced and will be able to develop their own new methods Organization Many of the most important numerical methods are covered in this book All of these are discussed and compared with each other so that the reader has a clear picture of their particular advantage disadvantage and the relation between each of them The book is divided into four parts and twelve chapters The Finite Element Method in Electromagnetics Jian-Ming Jin, 2015-02-18 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 The Finite Element Method Set O. C. Zienkiewicz, R. L. Taylor, 2005-11-25 The sixth editions of these seminal books deliver the most up to date and comprehensive reference yet on the finite element method for all engineers and mathematicians Renowned for their scope range and authority the new editions have been significantly developed in terms of both contents and scope Each book is now complete in its own right and provides self contained reference used together they provide a formidable resource covering the theory and the application of the universally used FEM Written by the leading professors in their fields the three books cover the basis of the method its application to solid mechanics and to fluid dynamics This is THE classic finite element method set by two the subject s leading authors FEM is a constantly developing subject and any professional or student of engineering involved in understanding the computational modelling of physical systems will inevitably use the techniques in these books Fully up to date ideal for teaching and reference Computational Electromagnetics for RF and Microwave Engineering David B. Davidson, 2005-02-24 The numerical approximation of Maxwell's equations Computational Electromagnetics CEM has emerged as a crucial enabling technology for radio frequency microwave and wireless engineering The three most popular full wave methods the Finite Difference Time Domain Method the Method of Moments and the Finite Element Method are introduced in this book by way of one or two dimensional problems Commercial or public domain codes implementing these methods are then applied to complex real world engineering problems and a careful analysis of the reliability of the results obtained is performed along with a discussion of the many pitfalls which can result in inaccurate and misleading solutions The book will empower readers to become discerning users of CEM software with an understanding of the underlying methods and confidence in the results obtained It also introduces readers to the art of code development Aimed at senior undergraduate graduate students taking CEM courses and practising engineers in the industry 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 Analysis and Computation of Electric and Magnetic Field Problems K. J. Binns, P. J. Lawrenson, 2013-10-22 Analysis and Computation of Electric and Magnetic Field Problems Second Edition is a comprehensive treatment of both analytical and numerical methods for the derivation of two dimensional static and quasi static electric and magnetic fields. The essence of each method of solution is emphasized and the scopes of the different methods are described with particular regard to the influence of digital computers This book is comprised of 12 chapters and begins with an introduction to the fundamental theory of electric and magnetic fields The derivation of quantities of physical interest such as force inductance and capacitance from the field solution is explained The next section deals with the methods of images and separation of variables and presents direct solutions of Laplace s equation and of Poisson s equation The basic solutions are developed rigorously from considerations of surface charges and are expressed in complex variable form Subsequent chapters discuss transformation methods as well as line and doublet sources the transformation of regions exterior to finite boundaries and the powerful numerical methods used to enlarge the scope of conformal transformation The last section is devoted to finite difference methods and the Monte Carlo method along with all classes of boundary shape and condition This monograph is intended primarily for engineers physicists and mathematicians as well as degree students towards the end of their courses Boundary Elements and Other Mesh Reduction Methods C.A. Brebbia, A.H-D Cheng, 2018-02-01 Formed of presented papers this volume contains research from the 40th International Conference on Boundary Elements and other Mesh Reduction Methods recognised as THE international forum for the latest advances in these techniques and their applications in science and engineering The ongoing success of this series is a result of the strength of research being carried out all over the world and the coverage has continually evolved in line with the latest developments in the field The books originating from this conference series constitute a record of the development of BEM MRM running from the initial successful development of boundary integral techniques into the boundary element method a

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Table of Contents Numerical Solution Of Field Problems In

- 1. Understanding the eBook Numerical Solution Of Field Problems In
 - The Rise of Digital Reading Numerical Solution Of Field Problems In
 - o Advantages of eBooks Over Traditional Books
- 2. Identifying Numerical Solution Of Field Problems In
 - Exploring Different Genres
 - $\circ\,$ Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Numerical Solution Of Field Problems In
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Numerical Solution Of Field Problems In

- Personalized Recommendations
- Numerical Solution Of Field Problems In User Reviews and Ratings
- Numerical Solution Of Field Problems In and Bestseller Lists
- 5. Accessing Numerical Solution Of Field Problems In Free and Paid eBooks
 - Numerical Solution Of Field Problems In Public Domain eBooks
 - Numerical Solution Of Field Problems In eBook Subscription Services
 - Numerical Solution Of Field Problems In Budget-Friendly Options
- 6. Navigating Numerical Solution Of Field Problems In eBook Formats
 - o ePub, PDF, MOBI, and More
 - Numerical Solution Of Field Problems In Compatibility with Devices
 - Numerical Solution Of Field Problems In Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Numerical Solution Of Field Problems In
 - Highlighting and Note-Taking Numerical Solution Of Field Problems In
 - Interactive Elements Numerical Solution Of Field Problems In
- 8. Staying Engaged with Numerical Solution Of Field Problems In
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Numerical Solution Of Field Problems In
- 9. Balancing eBooks and Physical Books Numerical Solution Of Field Problems In
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Numerical Solution Of Field Problems In
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Numerical Solution Of Field Problems In
 - Setting Reading Goals Numerical Solution Of Field Problems In
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Numerical Solution Of Field Problems In

- Fact-Checking eBook Content of Numerical Solution Of Field Problems In
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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