

**Numerical Computation
of
Electric and Magnetic Fields**

C. W. Steele



Springer

Numerical Computation Of Electric And Magnetic Fields

M. V. K. Chari,Peter Peet Silvester

Numerical Computation Of Electric And Magnetic Fields:

Numerical Computation of Electric and Magnetic Fields Charles W. Steele,2013-03-09 For well over a decade the numerical approach to field computation has been gaining progressively greater importance Analytical methods offield computation are at best unable to accommodate the very wide variety of configurations in which fields must be computed On the other hand numerical methods can accommodate many practical configurations that analytical methods cannot With the advent of high speed digital computers numerical field computations have finally become practical However in order to implement numerical methods of field computation we need algorithms numerical methods and mathematical tools that are largely quite different from those that have been traditionally used with analytical methods Many of these algorithms have in fact been presented in the large number of papers that have been published on this subject in the last two decades And to some of those who are already experienced in the art of numerical field computations these papers in addition to their own original work are enough to give them the knowledge that they need to perform practical numerical field computations

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

Numerical Analysis of 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

Electric and Magnetic Fields R. Belmans,A. Nicolet,2012-12-06

This book contains the edited versions of the papers presented at the Second International Workshop on Electric and Magnetic Fields held at the Katholieke Universiteit van Leuven Belgium in May 1994 This Workshop deals with numerical solutions of electromagnetic problems in real life applications The topics include coupled problems thermal mechanical electric circuits CAD CAM applications 3D eddy current and high frequency problems optimisation and application oriented numerical problems This workshop was organised jointly by the AIM Association of Engineers graduated from de Montefiore Electrical Institute together with the Departments of Electrical Engineering of the Katholieke Universiteit van Leuven Prof R Belmans the University of Gent Prof J Melkebbek and the University of Liege Prof W Legros These laboratories are working together in the framework of the Pole d Attraction Interuniversitaire Inter University Attractie Pole 51 on electromagnetic systems led by the University of Liege and the research work they perform covers most of the topics of the Workshop One of the principal aims of this Workshop was to provide a bridge between the electromagnetic device designers mainly industrialists and the electromagnetic field computation developers Therefore this book contains a continuous spectrum of papers from application of electromagnetic models in industrial design to presentation of new theoretical developments

Analysis and Computation of Electric and Magnetic Field Problems Kenneth John Binns,P. J. Lawrenson,1963 Index

Computational Magnetics J. Sykulski,2012-12-06 This book fills the gap between theory available computational techniques and engineering practice in the design of electrical and electromechanical machines The theory underlying all currently recommended computational and experimental methods is covered comprehensively including field analysis and synthesis magnetic fields coupled to stress and thermal fields The book is very practically oriented and includes many examples of actual solutions to real devices

Numerical Methods in Electromagnetism Sheppard Salon,M. V.K.

Chari,1999-11-10 Electromagnetics is the foundation of our electric technology It describes the fundamental principles upon which electricity is generated and used This includes electric machines high voltage transmission telecommunication radar and recording and digital computing Numerical Methods in Electromagnetism will serve both as an introductory text for graduate students and as a reference book for professional engineers and researchers This book leads the uninitiated into

the realm of numerical methods for solving electromagnetic field problems by examples and illustrations Detailed descriptions of advanced techniques are also included for the benefit of working engineers and research students Comprehensive descriptions of numerical methods In depth introduction to finite differences finite elements and integral equations Illustrations and applications of linear and nonlinear solutions for multi dimensional analysis Numerical examples to facilitate understanding of the methods Appendices for quick reference of mathematical and numerical methods employed

Theory and Computation of Electromagnetic Fields Jian-Ming Jin,2011-03-16 This book is intended to serve as a textbook for an entry level graduate course on electromagnetics first seven chapters and for an advanced level graduate course on computational electromagnetics last five chapters Whereas there are several textbooks available for the graduate electromagnetics course no textbook is available for the advanced course on computational electromagnetics This book is intended to fill this void and present electromagnetic theory in a systematic manner so that students can advance from the first course to the second without much difficulty Even though the first part of the book covers the standard basic electromagnetic theory the coverage is different from that in existing textbooks This is mainly the result of the undergraduate curriculum reform that occurred during the past two decades Many universities reduced the number of required courses in order to give students more freedom to design their own portfolio As a result only one electromagnetics course is required for undergraduate students in most electrical engineering departments in the country New graduate students come to take the graduate electromagnetics course with a significant difference in their knowledge of basic electromagnetic theory To meet the challenge to benefit all students of backgrounds this book covers both fundamental theories such as vector analysis Maxwell's equations and boundary conditions and transmission line theory and advanced topics such as wave transformation addition theorems and scattering by a layered sphere

Finite Elements in Electrical and Magnetic Field Problems M. V. K. Chari,Peter Peet Silvester,1980 Finite elements the basic concepts and an application to 3 D magnetostatic problems The fundamental equations of electric and magnetic fields Shape functions Software engineering aspects of finite elements Finite element solution of magnetic and electric field problems in electrical machines and devices Numerical analysis of Eddy Current problems The high order polynomial finite element method in electromagnetic field computation Transient solution of the diffusion equation by discrete Fourier transformation Mutually constrained partial differential and integral equation field formulations Applications of integral equation methods to the numerical solution of magnetostatic and Eddy Current problems

Numerical Analysis DESCLOUX,MARTI,2013-11-21

UHV Transmission Technology China Electric Power Research Institute,2017-10-18 UHV Transmission Technology enables power system employees and the vast majority of those caring for UHV transmission technology to understand and master key technologies of UHV transmission This book can be used as a technical reference and guide for future UHV projects UHV transmission has many advantages for new power networks due to its capacity long distance potential high

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Features input from a world leading UHV team *Biological Effects of Electromagnetic Fields* Peter Stavroulakis,2013-03-09 Any book under this title which creates both anticipation and anxiety must be the work of a lot of people present any new findings with objectivity and cover the subject as exhaustively as possible As such it must cover the possible reproducible mechanisms of action reaction EMF Biological Organism the appropriate models that allow

quantitative measurements the basic biological reproducible effects and possible therapeutic effects along with their prevalent metrics and international exposure criteria This is exactly the main objective of this book It is also believed that it provides some new results and conclusions which complement clarify and verify the existing results in the literature included in the references 1 and 2 Electromagnetic Radiation is a form of energy which is transmitted in the form of waves which correspond to spatial and time variations of the electric and magnetic field Electromagnetic fields appear in a vast set of frequencies spectra that are divided in frequency zones according to the manner they are produced or used Areas greater than 300 gigacycles GHz which include the solar spectrum as well as x and gamma rays have been studied sufficiently under a different angle in relation to possible biological effects People are well aware of the harmful effects of sun radiation when they are exposed to the sunlight for extended periods of time and of the catastrophic effects of nuclear bombs and nuclear reactor leaks *Field Models in Electricity and Magnetism* Paolo Di Barba,Antonio Savini,Slawomir Wiak,2008-02-20

Covering the development of field computation in the past forty years this book is a concise comprehensive and up to date introduction to methods for the analysis and synthesis of electric and magnetic fields A broad view of the subject of field models in electricity and magnetism ranging from basic theory to numerical applications is offered The approach throughout is to solve field problems directly from partial differential equations in terms of vector quantities *Energy Research Abstracts* ,1984 *Plasma Physics Index* ,1978 *The Cumulative Book Index* ,1989 A world list of books in the English language *Electromagnetic Fields in Electrical Engineering* Shunnian Ding,1989 **Electromagnetic Fields, Waves, and Numerical Methods** Zijad Haznadar,Željko Štih,2000 *ICEMS'2001* Fengxiang Wang,Renyuan Tang,2001 *An Introductory Guide to EC Competition Law and Practice* Valentine Korah,1994

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