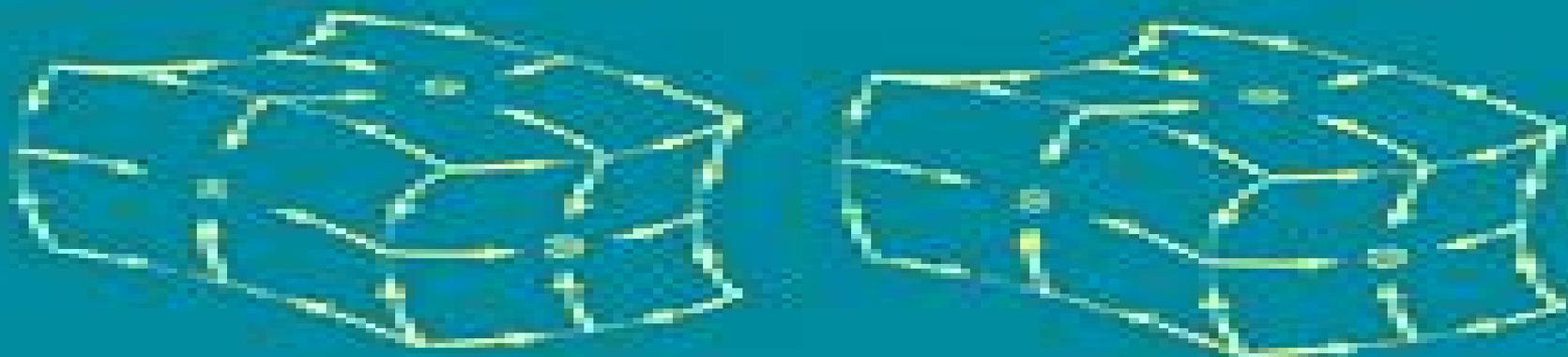


Finite elements for electrical engineers

THIRD EDITION



PETER P. SILVESTER and
RONALD L. FERRARI

Finite Elements For Electrical Engineering

**Peter Peet Silvester, Ronald L.
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Finite Elements for Electrical Engineers P. P. Silvester, Ronald Leslie Ferrari, 1990-03-01 This third edition of the principal text on the finite element method for electrical engineers and electronics specialists presents the method in a mathematically undemanding style accessible to undergraduates who may be encountering it for the first time Like the earlier editions it begins by deriving finite elements for the simplest familiar potential fields and then formulates finite elements for a wide range of applied electromagnetics problems These include wave propagation diffusion and static fields open boundary problems and nonlinear materials axisymmetric planar and fully three dimensional geometries and scalar and vector fields A wide selection of demonstration programs allows the reader to follow the practical use of the methods Besides providing all that is needed for the beginning undergraduate student this textbook is also a valuable reference text for professional engineers and research students

Finite Element Methods in Electrical Power Engineering A. B. J. Reece, T. W. Preston, 2000 This book is designed to give the theoretical foundation needed by the new user of finite elements in electrical power engineering and shows how the equipment designer can benefit from finite element analysis It is divided into three parts theory modelling and application of the finite element method The first part outlines relevant electromagnetics including treatment of boundaries saturation and permanent magnets It also shows how the finite element equations can be formulated The presentation throughout is aimed at giving the reader a physical understanding of the process The second part deals with special aspects of finite element modelling of engineering problems including problem formulation data generation and post processing and emphasises the importance of engineering judgement The final part is an assembly of real magnetic and electric field problems solved by finite elements including application to turbine generators permanent magnet machines switched reluctance drives induction motors transformers and bushings

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

Finite Elements in Electrical Engineering Peter Peet Silvester, Ronald L. Ferrari, Institute of Electrical and Electronics Engineers, 1982

Finite Element Analysis of Electrical Machines Sheppard J. Salon, 2012-12-06 In Finite Element Analysis of Electrical Machines the author covers two dimensional analysis emphasizing the use of finite elements to perform the most common calculations required of machine designers and analysts The book explains what is inside a finite element program and how the finite element method can be used to determine the behavior of electrical machines The material is tutorial and includes several completely worked out examples The main illustrative examples are synchronous and induction machines The methods described have been used successfully in the design and analysis of most types of rotating and linear machines Audience A valuable reference source for academic researchers practitioners and designers of electrical machinery The Elements of Electrical Engineering William Suddards Franklin, 1905 **Theoretical Elements of Electrical Engineering** Charles Proteus Steinmetz, 1909 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 *International Journal of Electrical Engineering Education*, 1990 **Scientific Computing in Electrical Engineering** Angelo Marcello Anile, Giuseppe Alì, G. Mascali, 2007-01-10 This book is a collection of papers presented at the last Scientific Computing in Electrical Engineering SCEE Conference held in Sicily in 2004 The series of SCEE conferences aims at addressing mathematical problems which have a relevancy to industry The areas covered at SCEE 2004 were Electromagnetism Circuit Simulation Coupled Problems and General mathematical and computational methods 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

Steel Heat Treatment Handbook - 2 Volume Set George E. Totten,2006-11-14 This reference presents the classical perspectives that form the basis of heat treatment processes while incorporating descriptions of the latest advances to impact this enduring technology The second edition of the bestselling Steel Heat Treatment Handbook now offers abundantly updated and extended coverage in two self contained volumes

The Finite Element Method in Engineering Singiresu S. Rao,S. S. Rao,2005 With the revolution in readily available computing power the finite element method has become one of the most important tools for the modern engineer This book offers a comprehensive introduction to the principles involved

Periodica Polytechnica: Electrical Engineering. Elektrotechnik ,1998 *Electrical Engineering* ,1913 Vols for 1887 1946 include the preprint pages of the institute s Transactions

Computer-aided Analysis and Design of Electromagnetic Devices S. Ratnajeevan H. Hoole,1989

Introduction to the Finite Element Method in Electromagnetics Anastasis C. Polycarpou,2022-05-31 This series lecture is an introduction to the finite element method with applications in electromagnetics The finite element method is a numerical method that is used to solve boundary value problems characterized by a partial differential equation and a set of boundary conditions The geometrical domain of a boundary value problem is discretized using sub domain elements called the finite elements and the differential equation is applied to a single element after it is brought to a weak integro differential form A set of shape functions is used to represent the primary unknown variable in the element domain A set of linear equations is obtained for each element in the discretized domain A global matrix system is formed after the assembly of all elements This lecture is divided into two chapters Chapter 1 describes one dimensional boundary value problems with applications to electrostatic problems described by the Poisson s equation The accuracy of the finite element method is evaluated for linear and higher order elements by computing the

numerical error based on two different definitions Chapter 2 describes two dimensional boundary value problems in the areas of electrostatics and electrodynamics time harmonic problems For the second category an absorbing boundary condition was imposed at the exterior boundary to simulate undisturbed wave propagation toward infinity Computations of the numerical error were performed in order to evaluate the accuracy and effectiveness of the method in solving electromagnetic problems Both chapters are accompanied by a number of Matlab codes which can be used by the reader to solve one and two dimensional boundary value problems These codes can be downloaded from the publisher s URL www.morganclaypool.com page polycarpou This lecture is written primarily for the nonexpert engineer or the undergraduate or graduate student who wants to learn for the first time the finite element method with applications to electromagnetics It is also targeted for research engineers who have knowledge of other numerical techniques and want to familiarize themselves with the finite element method The lecture begins with the basics of the method including formulating a boundary value problem using a weighted residual method and the Galerkin approach and continues with imposing all three types of boundary conditions including absorbing boundary conditions Another important topic of emphasis is the development of shape functions including those of higher order In simple words this series lecture provides the reader with all information necessary for someone to apply successfully the finite element method to one and two dimensional boundary value problems in electromagnetics It is suitable for newcomers in the field of finite elements in electromagnetics

[Electromagnetics and Calculation of Fields](#) Nathan Ida,Joao P.A. Bastos,2012-12-06 The present text is intended as an introduction to electromagnetics and computation of electromagnetic fields While many texts on electromagnetics exist the subject of computation of electromagnetic fields is normally not treated or is treated in a number of idealized examples with the main emphasis on development of theoretical relations Why another book on Electromagnetics This is perhaps the first question the reader may ask when opening this book It is a valid question because among the many books on Electromagnetics some are excellent We have two answers to this question answers that have motivated the writing of this book The first concerns the method of presentation of Electromagnetism Generally in classical books the material is presented in the following sequence electrostatics magnetostatics magnetodynamics and wave propagation using integral forms of the field equations As a primary effect of this presentation the reader is led to think that the knowledge of this science is synonymous to memorizing dozens of formulas Additionally an impression that there is no firm connection between these equations lingers in the reader s mind since at each step new postulates are added seemingly unrelated to previous material Our opinion is and we shall try to convey this to the reader that the Electromagnetic formalism is extremely simple and based on very few equations They are the four Maxwell equations which include practically all the existent relationships between the electromagnetic quantities The only additional relationships that need be considered is the Lorentz force and the material constitutive relations

Finite Elements, Electromagnetics and Design S.R.H. Hoole,1995-05-19 Advanced topics of

research in field computation are explored in this publication Contributions have been sourced from international experts ensuring a comprehensive specialist perspective A unity of style has been achieved by the editor who has specifically inserted appropriate cross references throughout the volume plus a single collected set of references at the end The book provides a multi faceted overview of the power and effectiveness of computation techniques in engineering electromagnetics In addition to examining recent and current developments it is hoped that it will stimulate further research in the field

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