

Optimal Design of the Electromagnetic Devices using Numerical Methods



Optimal Design Of The Electromagnetic Devices Using Numerical Methods

Christian G. Meyer



Optimal Design Of The Electromagnetic Devices Using Numerical Methods:

Optimal Design of the Electromagnetic Devices Using Numerical Methods Vasile Topa,2000 **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 **Scientific Computing in Electrical Engineering** G.

Ciuprina,D. Ioan,2007-05-30 This book is a collection of selected papers presented at the last Scientific Computing in Electrical Engineering SCEE Conference held in Sinaia Romania in 2006 The series of SCEE conferences aims at addressing mathematical problems which have a relevance to industry with an emphasis on modeling and numerical simulation of electronic circuits electromagnetic fields but also coupled problems and general mathematical and computational methods

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 Practical Design of Magnetostatic Structure Using Numerical Simulation Qiuliang Wang,2013-04-02 Magnets are widely used in industry

medical scientific instruments and electrical equipment They are the basic tools for scientific research and electromagnetic devices Numerical methods for the magnetic field analysis combined with mathematical optimization from practical applications of the magnets have been widely studied in recent years It is necessary for professional researchers engineers and students to study these numerical methods for the complex magnet structure design instead of using traditional trial and error methods Those working in this field will find this book useful as a reference to help reduce costs and obtain good magnetic field quality Presents a clear introduction to magnet technology followed by basic theories numerical analysis and practical applications Emphasizes the latest developments in magnet design including MRI systems Provides comprehensive numerical techniques that provide solutions to practical problems Introduces the latest computation techniques for optimizing and characterizing the magnetostatic structure design Well organized and adaptable by researchers engineers lecturers and students Appendix available on the Wiley Companion Website As a comprehensive treatment of the topic Practical Design of Magnetostatic Structure Using Numerical Simulation is ideal for researchers in the field of magnets and their applications materials scientists structural engineers and graduate students in electrical engineering The book will also better equip mechanical engineers and aerospace engineers

Inverse Problems and Optimal Design in Electricity and Magnetism Pekka Neittaanmäki, M. Rudnicki, A. Savini, 1996-01-11 The impact of optimization methods in electromagnetism has been much less than in mechanical engineering and particularly the solution of inverse problems in structural mechanics This book addresses this omission it will serve as a guide to the theory as well as the computer implementation of solutions It is self contained covering all the mathematical theory necessary

Topology Optimization and AI-based Design of Power Electronic and Electrical Devices Hajime Igarashi, 2024-01-15 Topology Optimization and AI based Design of Power Electronic and Electrical Devices Principles and Methods provides an essential foundation in the emergent design methodology as it moves towards commercial development in such electrical devices as traction motors for electric motors transformers inductors reactors and power electronics circuits Opening with an introduction to electromagnetism and computational electromagnetics for optimal design the work outlines principles and foundations in finite element methods and illustrates numerical techniques useful for finite element analysis It summarizes the foundations of deterministic and stochastic optimization methods including genetic algorithm particle swarm optimization and simulated annealing alongside representative algorithms The work goes on to discuss parameter optimization and topology optimization of electrical devices alongside current implementations including magnetic shields 2D and 3D models of electric motors and wireless power transfer devices The work concludes with a lengthy exposition of AI based design methods including surrogate models for optimization deep neural networks and automatic design methods using Monte Carlo tree searches for electrical devices and circuits Assists researchers and design engineers in applying emergent topology design optimization to power electronics and electrical device design supported by step by step methods heuristic derivation and pseudocodes Proposes unique

formulations of AI based design for electrical devices using Monte Carlo tree search and other machine learning methods Is richly accompanied by detailed numerical examples and repletes with computational support materials in algorithms and explanatory formulae Includes access to pedagogical videos on topics including the evolutionary process of topology optimization the distribution of genetic algorithms and CMA ES *Nonlinear Electromagnetic Systems* A. J. Moses,A. Basak,1996 The book covers classical and practical approaches to electromagnetic field solutions in magnetic devices The following topics are addressed Advanced computational techniques Intelligent computer aided design Magnetic materials Inverse problems Magnetic sensors and transducers Performance and optimisation of devices Applications to electronic systems Modelling of non linear systems and other related topics This volume presents 200 of the best articles presented at the International Symposium on Non Linear Electromagnetic Systems ISEM in Cardiff Wales The previous ISEM papers were published in the successful volume Advanced Computational and Design Techniques in Applied Electromagnetic Systems by Elsevier Main chapters in this book are Electromagnetic Devices Non linearities at contacts and interfaces in semiconductor structures by R H Williams as key note Optimisation Inverse and Biological Studies Power loss testing intelligent computation of optimization of metal cutting grid methods for CFD and CEM Magnetic Materials Materials for circuit semilator applications rotational magnetostriction Computational Techniques and Modelling Electromagnetic device design soft magnetic materials engineering application of artificial intelligence Sensors and Non destructive Testing Eddy current nondestructive evaluation nonlinear magnetoresistance micro magnetic sensor Electronic and Electrical Applications Non linear transistor parameters superconducting magnets *Optimal Control of Complex Structures* K.-H. Hoffmann,Irena Lasiecka,G. Leugering,J. Sprekels,Fredi Tröltzsch,2012-12-06 Interest in the area of control of systems defined by partial differential Equations has increased strongly in recent years A major reason has been the requirement of these systems for sensible continuum mechanical modelling and optimization or control techniques which account for typical physical phenomena Particular examples of problems on which substantial progress has been made are the control and stabilization of mechatronic structures the control of growth of thin films and crystals the control of Laser and semi conductor devices and shape optimization problems for turbomachine blades shells smart materials and microdiffractive optics This volume contains original articles by world reknowned experts in the fields of optimal control of partial differential equations shape optimization numerical methods for partial differential equations and fluid dynamics all of whom have contributed to the analysis and solution of many of the problems discussed The collection provides a state of the art overview of the most challenging and exciting recent developments in the field It is geared towards postgraduate students and researchers dealing with the theoretical and practical aspects of a wide variety of high technology problems in applied mathematics fluid control optimal design and computer modelling 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

Multiobjective Shape Design in Electricity and Magnetism Paolo Di Barba, 2009-12-03 Multiobjective Shape Design in Electricity and Magnetism is entirely focused on electric and magnetic field synthesis with special emphasis on the optimal shape design of devices when conflicting objectives are to be fulfilled Direct problems are solved by means of finite element analysis while evolutionary computing is used to solve multiobjective inverse problems This approach which is original is coherently developed throughout the whole manuscript The use of game theory dynamic optimisation and Bayesian imaging strengthens the originality of the book Covering the development of multiobjective optimisation in the past ten years Multiobjective Shape Design in Electricity and Magnetism is a concise comprehensive and up to date introduction to this research field which is growing in the community of electricity and magnetism Theoretical issues are illustrated by practical examples In particular a test problem is solved by different methods so that by comparison of results advantages and limitations of the various methods are made clear

Design Sensitivity Analysis and Optimization of Electromagnetic Systems II Han Park, 2018-08-27 This book presents a comprehensive introduction to design sensitivity analysis theory as applied to electromagnetic systems It treats the subject in a unified manner providing numerical methods and design examples The specific focus is on continuum design sensitivity analysis which offers significant advantages over discrete design sensitivity methods Continuum design sensitivity formulas are derived from the material derivative in continuum mechanics and the variational form of the governing equation Continuum sensitivity analysis is applied to Maxwell equations of electrostatic magnetostatic and eddy current systems and then the sensitivity formulas for each system are derived in a closed form an integration along the design interface The book also introduces the recent breakthrough of the topology optimization method which is accomplished by coupling the level set method and continuum design sensitivity This topology optimization method enhances the possibility of the global minimum with minimised computational time and in addition the evolving shapes

during the iterative design process are easily captured in the level set equation Moreover since the optimization algorithm is transformed into a well known transient analysis algorithm for differential equations its numerical implementation becomes very simple and convenient Despite the complex derivation processes and mathematical expressions the obtained sensitivity formulas are very straightforward for numerical implementation This book provides detailed explanation of the background theory and the derivation process which will help readers understand the design method and will set the foundation for advanced research in the future *Advanced Mechatronics* Dan Neculescu,2009 This unique book extends mechatronics to spatially distributed systems Issues regarding remote measurements and indirect monitoring and control of distributed systems is presented in the general framework of the recently developed ill posed inverse problems The book starts with an overview of the main results in the inverse problem theory and continues with the presentation of basic results in discrete inverse theory The second part presents various forward and inverse problems resulting from modeling monitoring and controlling mechanical acoustic fluid and thermal systems Finally indirect and remote monitoring and control issues are analyzed as cases of ill posed inverse problems Numerous numerical examples illustrate current approaches used for solving practical inverse problems

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

The Proceedings of the 19th Annual Conference of China Electrotechnical Society Qingxin Yang,Zhaohong Bie,Xu Yang,2025-04-18 This book compiles exceptional papers presented at the 19th Annual Conference of the China Electrotechnical Society CES held in Xi an China from September 20 to 22 2024 It encompasses a wide range of topics

including electrical technology power systems electromagnetic emission technology and electrical equipment The book highlights innovative solutions that integrate concepts from various disciplines making it a valuable resource for researchers engineers practitioners research students and interested readers **Metaheuristics for Robotics** Hamouche

Oulhadj,Boubaker Daachi,Riad Menasri,2020-02-19 This book is dedicated to the application of metaheuristic optimization in trajectory generation and control issues in robotics In this area as in other fields of application the algorithmic tools addressed do not require a comprehensive list of eligible solutions to effectively solve an optimization problem This book investigates how by reformulating the problems to be solved it is possible to obtain results by means of metaheuristics Through concrete examples and case studies particularly related to robotics this book outlines the essentials of what is needed to reformulate control laws into concrete optimization data The resolution approaches implemented as well as the results obtained are described in detail in order to give as much as possible an idea of metaheuristics and their performance within the context of their application to robotics **Proceedings of the Tenth International Symposium on Applied**

Electromagnetic and Mechanics T. Takagi,2003 This publication covers topics in the area of applied electromagnetics and mechanics Since starting in Japan in 1988 the ISEM has become a well known international forum on applied

electromagnetics *Modern Electrical Drives* H. Bülent Ertan,M. Yildirim Üçtug,Ron Colyer,Alfio Consoli,2013-06-29 Electrical drives lie at the heart of most industrial processes and make a major contribution to the comfort and high quality products we all take for granted They provide the controller power needed at all levels from megawatts in cement production to milliwatts in wrist watches Other examples are legion from the domestic kitchen to public utilities The modern electrical drive is a complex item comprising a controller a static converter and an electrical motor Some can be programmed by the user Some can communicate with other drives Semiconductor switches have improved intelligent power modules have been introduced all of which means that control techniques can be used now that were unimaginable a decade ago Nor has the motor side stood still high energy permanent magnets semiconductor switched reluctance motors silicon micromotor technology and soft magnetic materials produced by powder technology are all revolutionising the industry But the electric drive is an enabling technology so the revolution is rippling throughout the whole of industry Finite Elements-based

Optimization S. Ratnajeewan H. Hoole,Yovahn Yesuraiyan R. Hoole,2019-07-24 This book is intended to be a cookbook for students and researchers to understand the finite element method and optimization methods and couple them to effect shape optimization The optimization part of the book will survey optimization methods and focus on the genetic algorithm and Powell s method for implementation in the codes It will contain pseudo code for the relevant algorithms and homework problems to reinforce the theory to compile finite element programs capable of shape optimization Features Enables readers to understand the finite element method and optimization methods and couple them to effect shape optimization Presents simple approach with algorithms for synthesis Focuses on automated computer aided design CAD of electromagnetic devices

Provides a unitary framework involving optimization and numerical modelling Discusses how to integrate open source mesh generators into your code Indicates how parallelization of algorithms especially matrix solution and optimization may be approached cheaply using the graphics processing unit GPU that is available on most PCs today Includes coupled problem optimization using hyperthermia as an example *Heat Transfer* L.C. Wrobel,C.A. Brebbia,2016-11-21 No detailed description available for Heat Transfer

Unveiling the Magic of Words: A Report on "**Optimal Design Of The Electromagnetic Devices Using Numerical Methods**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Optimal Design Of The Electromagnetic Devices Using Numerical Methods**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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