

**ELECTRICAL**

**MACHINE ANALYSIS**

**USING FINITE ELEMENTS**



**NICOLA BIANCHI**

# Electrical Machine Analysis Using Finite Elements

**Per Berget**



## **Electrical Machine Analysis Using Finite Elements:**

**Electrical Machine Analysis Using Finite Elements** Nicola Bianchi, 2005 From the fan motor in your PC to precision control of aircraft electrical machines of all sizes varieties and levels of complexity permeate our world Some are very simple while others require exacting and application specific design **Electrical Machine Analysis Using Finite Elements** provides the tools necessary for the analysis and design of any type of electrical machine by integrating mathematical numerical techniques with analytical and design methodologies Building successively from simple to complex analyses this book leads you step by step through the procedures and illustrates their implementation with examples of both traditional and innovative machines Although the examples are of specific devices they demonstrate how the procedures apply to any type of electrical machine introducing a preliminary theory followed by various considerations for the unique circumstance The author presents the mathematical background underlying the analysis but emphasizes application of the techniques common strategies and obtained results He also supplies codes for simple algorithms and reveals analytical methodologies that universally apply to any software program With step by step coverage of the fundamentals and common procedures **Electrical Machine Analysis Using Finite Elements** offers a superior analytical framework that allows you to adapt to any electrical machine to any software platform and to any specific requirements that you may encounter **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 **Finite Element Analysis Of Electrical Machines** Sheppard Joel Salon, 2006-10-01 **Electric Machines** Dionysios Aliprantis, Oleg Wasynczuk, 2022-08-11 Demystifies the operation of electric machines by bridging electromagnetic fields electric circuits numerical analysis and computer programming Ideal for graduates and senior undergraduates taking courses on all aspects of electric machine design and control and accompanied by downloadable Python code and instructor solutions **Linear Electric Machines, Drives, and MAGLEVs Handbook** Ion Boldea, 2017-12-19 Based on author Ion Boldea s 40 years of experience and the latest research **Linear Electric Machines Drives and Maglevs Handbook** provides a practical and comprehensive resource on the steady improvement in this field The book presents in depth reviews of basic concepts and detailed explorations of complex subjects including classifications and practical topologies with sample results based on an up to date survey of the field Packed with case studies this state of the art handbook covers topics such as modeling steady state and transients as well as

control design and testing of linear machines and drives It includes discussion of types and applications from small compressors for refrigerators to MAGLEV transportation of linear electric machines Additional topics include low and high speed linear induction or synchronous motors with and without PMs with progressive or oscillatory linear motion from topologies through modeling design dynamics and control With a breadth and depth of coverage not found in currently available references this book includes formulas and methods that make it an authoritative and comprehensive resource for use in R D and testing of innovative solutions to new industrial challenges in linear electric motion energy automatic control

*Essentials of Electrical Machines* Lakshman Kalyan,2025-02-20 *Essentials of Electrical Machines* offers a comprehensive exploration of the principles operation and applications of electrical machines tailored for undergraduate students With a focus on clarity and accessibility this book is an indispensable resource for students delving into electrical engineering We cover fundamental concepts such as electromechanical energy conversion magnetic circuits and transformer theory providing a solid foundation for understanding various electrical machines including DC machines synchronous machines and induction machines Through clear explanations illustrative examples and practical applications students gain a deep understanding of electrical machine behavior in real world scenarios Designed to cater to diverse learning styles the book features engaging exercises thought provoking problems and interactive simulations to reinforce concepts and promote active learning Whether pursuing a degree in electrical engineering or related fields readers will find this book to be an invaluable companion in mastering electrical machines With its emphasis on practical relevance and conceptual clarity *Essentials of Electrical Machines* equips students with the knowledge and skills necessary to tackle challenges in electrical engineering

**Reluctance Electric Machines** Ion Boldea, Lucian Tutelea,2018-07-20 Electric energy is arguably a key agent for our material prosperity With the notable exception of photovoltaic generators electric generators are exclusively used to produce electric energy from mechanical energy More than 60% of all electric energy is used in electric motors for useful mechanical work in various industries This book presents the modeling performance design and control of reluctance synchronous and flux modulation machines developed for higher efficiency and lower cost It covers one and three phase reluctance synchronous motors in line start applications and various reluctance flux modulation motors in pulse width modulation converter fed variable speed drives FEATURES Presents basic and up to date knowledge about the topologies modeling performance design and control of reluctance synchronous machines Includes information on recently introduced reluctance flux modulation electric machines switched flux flux reversal Vernier transverse flux claw pole magnetic geared dual rotor brushless doubly fed etc Features numerous examples and case studies throughout Provides a comprehensive overview of all reluctance electric machines

Basic Electrical and Electronics Engineering Dr. Ravi Mohan, Prof. Siddheswar Kar, Dr. P. Jeyaprakash, Dr. Gyan Prabhakar,2026-01-31 *Basic Electrical and Electronics Engineering* introduces the core principles of electrical circuits and electronic systems essential for engineering studies The subject covers

fundamental laws such as Ohm's Law and Kirchhoff's Laws network theorems AC and DC circuit analysis and basic electrical machines It also includes semiconductor fundamentals diodes transistors rectifiers amplifiers and introductory digital electronics Emphasis is placed on circuit analysis measurement techniques safety practices and practical laboratory applications The course builds a strong foundation for higher level subjects in electrical electronics and communication engineering

Integration of Finite Element Analysis in Electric Machines and Drives Teaching Studio Nidhishri Tapadia,2009 Electrical Machine Theory Through Finite Element Analysis A. Monti,F. Ponci,M. Riva,2007 **Analysis of Electrical Machines** Valeria Hrabovcova,Pavol Rafajdus,Pavol Makyš,2020-05-20 This book is devoted to students PhD students postgraduates of electrical engineering researchers and scientists dealing with the analysis design and optimization of electrical machine properties The purpose is to present methods used for the analysis of transients and steady state conditions In three chapters the following methods are presented 1 a method in which the parameters resistances and inductances are calculated on the basis of geometrical dimensions and material properties made in the design process 2 a method of general theory of electrical machines in which the transients are investigated in two perpendicular axes and 3 FEM which is a mathematical method applied to electrical machines to investigate many of their properties

**International Conference on Electrical Machines and Drives** ,1997 **IEEE International Electric Machines and Drives Conference Record** ,1997 The Finite Element Method Applied to Rotating Electrical Machines Per Berget,1978 Linear Drives for Industry Applications IX Yun Yue Ye,Zi Qiang Zhu,Shao Bo Zhong,2013-09-10 Selected peer reviewed papers from the 9th International Symposium on Linear Drives for Industry Applications LDIA 2013 July 7 10 2013 Hangzhou China Integral Methods in Low-Frequency Electromagnetics Ivo Dolezel,Pavel Karban,Pavel

Solin,2009-07-27 A modern presentation of integral methods in low frequency electromagnetics This book provides state of the art knowledge on integral methods in low frequency electromagnetics Blending theory with numerous examples it introduces key aspects of the integral methods used in engineering as a powerful alternative to PDE based models Readers will get complete coverage of The electromagnetic field and its basic characteristics An overview of solution methods Solutions of electromagnetic fields by integral expressions Integral and integrodifferential methods Marks' Standard Handbook for Mechanical Engineers Eugene A. Avallone,Theodore Baumeister,Ali M. Sadegh,2006-12-07 Solve any mechanical engineering problem quickly and easily with the world's leading engineering handbook Nearly 1800 pages of mechanical engineering facts figures standards and practices 2000 illustrations and 900 tables clarifying important mathematical and engineering principle and the collective wisdom of 160 experts help you answer any analytical design and application question you will ever have **Eighth International Conference on Electrical Machines and Drives** ,1997

3D Modelling of Movements in Electric Machines Using Edge Finite Elements Anirudh Chauhan,2021 An electrical machine is divided into two areas the stator S fixed part and the rotor R moving part separated by a thin air gap This air gap

also takes into account the transfer of flux between the two regions. The application of motion leads to non-conforming sliding meshes around the interface. Thus ensuring the continuity of the components of the tangential and normal magnetic field  $H$  and magnetic flux density  $B$  is essential at the interface slip region. In the Altair Flux™ software formulations based on the magnetic scalar potential have been developed with the nodal finite element method and have been used successfully for many years to model 3D rotating electrical machines. A major drawback of this method is the need to deal with the multiplied connectivity problems induced by the magnetic scalar potential. One solution is to introduce artificial cuts in the mesh which is difficult to implement by the user. In order to avoid introducing artificial cuts in the studied field formulations of magnetic vector potential are used. The technical and scientific challenges of this thesis are to develop and compare the mortar method and the interpolation of edges to take into account the movement.

Keywords: Edge finite element method, Edge FEM, Electric machine, Interpolation of are, Mortar method, Rotational movement.

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 3D 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.

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