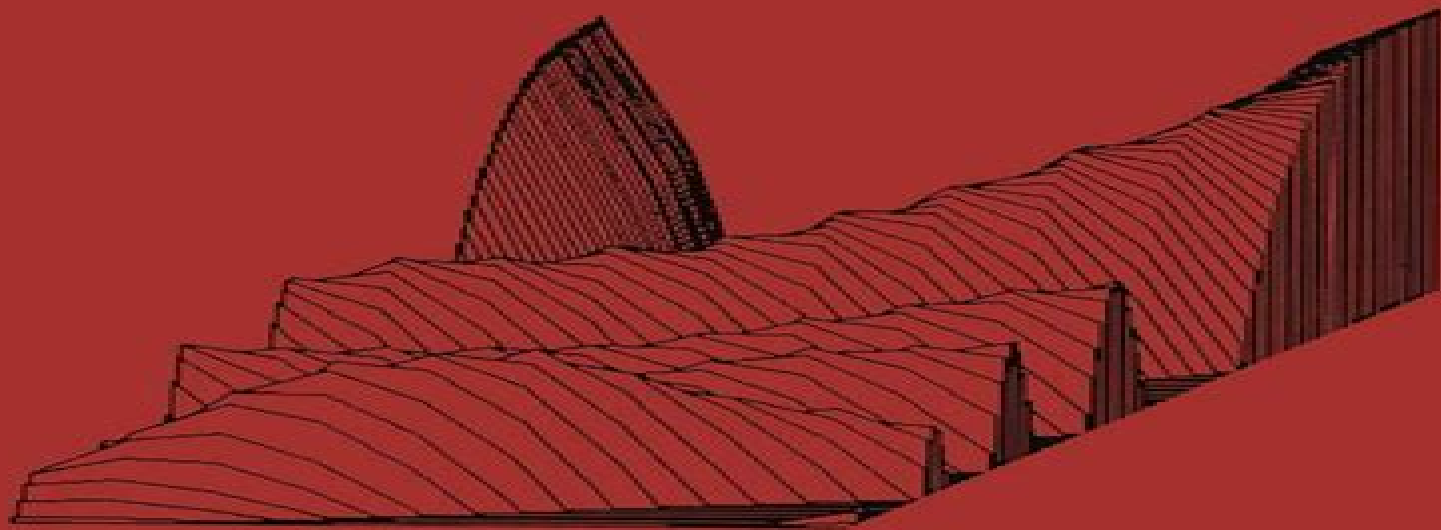


Vlado Ostović

Dynamics of Saturated Electric Machines



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Dynamics Of Saturated Electric Machines

Ion Boldea, Syed A. Nasar



Dynamics Of Saturated Electric Machines:

Dynamics of Saturated Electric Machines Vlado Ostovic, 2012-12-06 This book is a result of the author's work which was initiated about a decade ago and which in the meantime has resulted in his Ph D Thesis and several technical papers. The book deals with accurate modeling of electric machines during transient and steady states, a topic which has been usually avoided in the literature. The modeling techniques herein take into account all machine peculiarities such as the type and connection of its windings, slotting and saturation in the iron core. A special emphasis in the book is given to the exact physical interpretation of all phenomena which influence the machine's transient behavior. Besides the Introduction, the book has five chapters. The second chapter describes basic concepts of the magnetic equivalent circuit theory and has examples of magnetic equivalent circuits of several types of machines with their node potential equations. In the third chapter, the transform matrices w and w of AC windings are derived. These matrices play a very important role in the magnetic equivalent circuit theory because they connect the quantities from the machine's magnetic equivalent circuit branch fluxes and mmfs with the machine's phase currents and fluxes. **Dynamics of Saturated Electric Machines** Vlado

Ostović, 1989-01-01 **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. **Electric Machines** Ion Boldea, Lucian Nicolae Tutelea, 2009-11-24 Ubiquitous in daily life, electric motors/generators are used in a wide variety of applications, from home appliances to internal combustion engines to hybrid electric cars. They produce electric energy in all electric power plants as generators and motion control that is necessary in all industries to increase productivity, save energy, and reduce pollution. With its comprehensive coverage of the state of the art, **Electric Machines: Steady State Transients and Design with MATLAB** addresses the modeling, design, testing, and manufacture of electric machines to generate electricity or in constant or variable speed motors for motion control. Organized into three stand-alone sections: Steady State Transients and FEM Analysis and Optimal Design, the text provides complete treatment of electric machines. It also explores international units. Contains solved and proposed

numerical examples throughout Guides students from simple to more complex math models Offers a wealth of problems with hints The book contains numerous computer simulation programs in MATLAB and Simulink available on an accompanying downloadable resources to help readers make a quantitative assessment of various parameters and performance indices of electric machines Skillfully unifying symbols throughout the book the authors present a great deal of invaluable practical laboratory work that has been classroom tested in progressively modified forms This textbook presents expressions of parameters modeling and characteristics that are directly and readily applicable for industrial R D in fields associated with electric machines industry for modern distributed power systems and industrial motion control via power electronics

Proceedings of the 10th International Conference on Rotor Dynamics - IFToMM Katia Lucchesi Cavalca, Hans Ingo Weber, 2018-08-20 IFToMM conferences have a history of success due to the various advances achieved in the field of rotor dynamics over the past three decades These meetings have since become a leading global event bringing together specialists from industry and academia to promote the exchange of knowledge ideas and information on the latest developments in the dynamics of rotating machinery The scope of the conference is broad including e g active components and vibration control balancing bearings condition monitoring dynamic analysis and stability wind turbines and generators electromechanical interactions in rotor dynamics and turbochargers The proceedings are divided into four volumes This fourth volume covers the following main topics aero engines turbochargers eolian wind generators automotive rotating systems and hydro power plants

Mathematical Models for the Design of Electrical Machines Frédéric Dubas, Kamel Boughrara, 2021-03-15 This book is a comprehensive set of articles reflecting the latest advances and developments in mathematical modeling and the design of electrical machines for different applications The main models discussed are based on the i Maxwell Fourier method i e the formal resolution of Maxwell s equations by using the separation of variables method and the Fourier s series in 2 D or 3 D with a quasi Cartesian or polar coordinate system ii electrical thermal and magnetic equivalent circuit iii hybrid model In these different papers the numerical method and the experimental tests have been used as comparisons or validations

Electric Machines Hamid A. Toliyat, Subhasis Nandi, Seungdeog Choi, Hodayoun Meshgin-Kelk, 2017-12-19 With countless electric motors being used in daily life in everything from transportation and medical treatment to military operation and communication unexpected failures can lead to the loss of valuable human life or a costly standstill in industry To prevent this it is important to precisely detect or continuously monitor the working condition of a motor Electric Machines Modeling Condition Monitoring and Fault Diagnosis reviews diagnosis technologies and provides an application guide for readers who want to research develop and implement a more effective fault diagnosis and condition monitoring scheme thus improving safety and reliability in electric motor operation It also supplies a solid foundation in the fundamentals of fault cause and effect Combines Theoretical Analysis and Practical Application Written by experts in electrical engineering the book approaches the fault diagnosis of electrical motors through the process of

theoretical analysis and practical application It begins by explaining how to analyze the fundamentals of machine failure using the winding functions method the magnetic equivalent circuit method and finite element analysis It then examines how to implement fault diagnosis using techniques such as the motor current signature analysis MCSA method frequency domain method model based techniques and a pattern recognition scheme Emphasizing the MCSA implementation method the authors discuss robust signal processing techniques and the implementation of reference frame theory based fault diagnosis for hybrid vehicles Fault Modeling Diagnosis and Implementation in One Volume Based on years of research and development at the Electrical Machines Power Electronics EMPE Laboratory at Texas A M University this book describes practical analysis and implementation strategies that readers can use in their work It brings together in one volume the fundamentals of motor fault conditions advanced fault modeling theory fault diagnosis techniques and low cost DSP based fault diagnosis implementation strategies

Control and Nonlinear Dynamics on Energy Conversion Systems Herbert Ho-Ching Iu, Abdelali El Aroudi, 2019-07-01 The ever increasing need for higher efficiency smaller size and lower cost make the analysis understanding and design of energy conversion systems extremely important interesting and even imperative One of the most neglected features in the study of such systems is the effect of the inherent nonlinearities on the stability of the system Due to these nonlinearities these devices may exhibit undesirable and complex dynamics which are the focus of many researchers Even though a lot of research has taken place in this area during the last 20 years it is still an active research topic for mainstream power engineers This research has demonstrated that these systems can become unstable with a direct result in increased losses extra subharmonics and even uncontrollability unobservability The detailed study of these systems can help in the design of smaller lighter and less expensive converters that are particularly important in emerging areas of research like electric vehicles smart grids renewable energy sources and others The aim of this Special Issue is to cover control and nonlinear aspects of instabilities in different energy conversion systems theoretical analysis modelling and practical solutions for such emerging applications In this Special Issue we present novel research works in different areas of the control and nonlinear dynamics of energy conversion systems

The Induction Machine Handbook Ion Boldea, Syed A. Nasar, 2010-12-12 Often called the workhorse of industry the advent of power electronics and advances in digital control are transforming the induction motor into the racehorse of industrial motion control Now the classic texts on induction machines are nearly three decades old while more recent books on electric motors lack the necessary depth and detail on ind

Synchronous Generators Ion Boldea, 2015-09-03 Synchronous Generators the first of two volumes in the Electric Generators Handbook offers a thorough introduction to electrical energy and electricity generation including the basic principles of electric generators The book devotes a chapter to the most representative prime mover models for transients used in active control of various generators Then individual chapters explore large and medium power synchronous generator topologies steady state modeling transients control design and testing Numerous case studies worked

out examples sample results and illustrations highlight the concepts Fully revised and updated to reflect the last decade s worth of progress in the field this Second Edition adds new sections that Discuss high power wind generators with fewer or no permanent magnets PMs Cover PM assisted DC excited salient pole synchronous generators Present multiphase synchronous machine inductances via the winding function method Consider the control of autonomous synchronous generators Examine additional optimization design issues Illustrate the optimal design of a large wind generator by the Hooke Jeeves method Detail the magnetic equivalent circuit population based optimal design of synchronous generators Address online identification of synchronous generator parameters Explain the small signal injection online technique Explore line switching on or off parameter identification for isolated grids Describe synthetic back to back load testing with inverter supply The promise of renewable sustainable energy rests on our ability to design innovative power systems that are able to harness energy from a variety of sources Synchronous Generators Second Edition supplies state of the art tools necessary to design validate and deploy the right power generation technologies to fulfill tomorrow s complex energy needs

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

Informatics in Control, Automation and Robotics Dehuai Yang, 2012-01-26 Session 2 includes 110 papers selected from 2011 3rd International Asia Conference on Informatics in Control Automation and Robotics CAR 2011 held on December 24 25 2011 Shenzhen China As we all know the ever growing technology in robotics and automation will help build a better human society This session will provide a unique opportunity for the academic and industrial communities to address new challenges share solutions and discuss research directions for the future Robotics research emphasizes intelligence and adaptability to cope with unstructured environments Automation research emphasizes efficiency productivity quality and reliability focusing on systems that operate autonomously The main focus of this session is on the autonomous acquisition of semantic information in intelligent robots and systems as well as the use of semantic knowledge to guide

further acquisition of information *Advanced Computational and Design Techniques in Applied Electromagnetic Systems* S.-Y. Hahn, 2013-10-22 This symposium was concerned with advanced computational and design techniques in applied electromagnetic systems including devices and materials The scope of the proceedings cover a wide variety of topics in applied electromagnetic fields optimal design techniques and applications inverse problems advanced numerical techniques mechanism and dynamics of new actuators physics and applications of magnetic levitation electromagnetic propulsion and superconductivity modeling and applications of magnetic fluid plasma and arc discharge high frequency field computations electronic device simulations and magnetic materials *Electric Machines and Drives* Miroslav Chomat, 2011-02-28 The

subject of this book is an important and diverse field of electric machines and drives The twelve chapters of the book written by renowned authors both academics and practitioners cover a large part of the field of electric machines and drives Various types of electric machines including three phase and single phase induction machines or doubly fed machines are addressed Most of the chapters focus on modern control methods of induction machine drives such as vector and direct torque control Among others the book addresses sensorless control techniques modulation strategies parameter identification artificial intelligence operation under harsh or failure conditions and modelling of electric or magnetic quantities in electric machines Several chapters give an insight into the problem of minimizing losses in electric machines and increasing the overall energy efficiency of electric drives **Distributed Generation** Loi Lei Lai, Tze Fun Chan, 2008-03-11 Distributed power generation

is a technology that could help to enable efficient renewable energy production both in the developed and developing world It includes all use of small electric power generators whether located on the utility system at the site of a utility customer or at an isolated site not connected to the power grid Induction generator IG is the most commonly used and cheapest technology compatible with renewable energy resources Permanent magnet PM generators have traditionally been avoided due to high fabrication costs however compared with IGs they are more reliable and productive Distributed Generation thoroughly examines the principles possibilities and limitations of creating energy with both IGs and PM generators It takes an electrical engineering approach in the analysis and testing of these generators and includes diagrams and extensive case study examples to better demonstrate how the integration of energy sources can be accomplished The book also provides the practical tools needed to model and implement new techniques for generating energy through isolated or grid connected systems Besides a chapter introducing the technical economic and environmental impacts of distributed generation this book includes an examination of various phase balancing schemes for a three phase IG operating on a single phase power system a coupled circuit 2 D finite element analysis of a grid connected IG with Steinmetz connection a study of self excited induction generator SEIG schemes for autonomous power systems and the voltage and frequency control of SEIG with a slip ring machine SESRIG a report on a PM synchronous generator with inset rotor for achieving a reduced voltage regulation when supplying an autonomous power system and an analysis of its performance using a two axis model and finite element method

experimental work on various IG and SEIG schemes This book is a must read for engineers consultants regulators and environmentalists involved in energy production and delivery helping them to evaluate renewable energy sources and to integrate these into an efficient energy delivery system It is also a superior reference for undergraduates and postgraduates Designers operators and planners will appreciate its unique contribution to the literature in this field **Electrical**

Machine Fundamentals with Numerical Simulation using MATLAB / SIMULINK Atif Iqbal, Shaikh

Moinoddin, Bhimireddy Prathap Reddy, 2021-04-12 A comprehensive text combining all important concepts and topics of Electrical Machines and featuring exhaustive simulation models based on MATLAB Simulink Electrical Machine Fundamentals with Numerical Simulation using MATLAB Simulink provides readers with a basic understanding of all key concepts related to electrical machines including working principles equivalent circuit and analysis It elaborates the fundamentals and offers numerical problems for students to work through Uniquely this text includes simulation models of every type of machine described in the book enabling students to design and analyse machines on their own Unlike other books on the subject this book meets all the needs of students in electrical machine courses It balances analytical treatment physical explanation and hands on examples and models with a range of difficulty levels The authors present complex ideas in simple easy to understand language allowing students in all engineering disciplines to build a solid foundation in the principles of electrical machines This book Includes clear elaboration of fundamental concepts in the area of electrical machines using simple language for optimal and enhanced learning Provides wide coverage of topics aligning with the electrical machines syllabi of most international universities Contains extensive numerical problems and offers MATLAB Simulink simulation models for the covered machine types Describes MATLAB Simulink modelling procedure and introduces the modelling environment to novices Covers magnetic circuits transformers rotating machines DC machines electric vehicle motors multiphase machine concept winding design and details finite element analysis and more Electrical Machine Fundamentals with Numerical Simulation using MATLAB Simulink is a well balanced textbook perfect for undergraduate students in all engineering majors Additionally its comprehensive treatment of electrical machines makes it suitable as a reference for researchers in the field *A Nonlinear Model of an Auxiliary Commutated Variable Reluctance Machine Utilizing Magnetic Circuits* Jeffrey M. Brozek, 1993

12th International Conference on Vibrations in Rotating Machinery Institute of Mechanical Engineers, 2020-10-22 Since 1976 the Vibrations in Rotating Machinery conferences have successfully brought industry and academia together to advance state of the art research in dynamics of rotating machinery 12th International Conference on Vibrations in Rotating Machinery contains contributions presented at the 12th edition of the conference from industrial and academic experts from different countries The book discusses the challenges in rotor dynamics rub whirl instability and more The topics addressed include Active smart vibration control Rotor balancing dynamics and smart rotors Bearings and seals Noise vibration and harshness Active and passive damping Applications wind

turbines steam turbines gas turbines compressors Joints and couplings Challenging performance boundaries of rotating machines High power density machines Electrical machines for aerospace Management of extreme events Active machines Electric supercharging Blades and bladed assemblies forced response flutter mistuning Fault detection and condition monitoring Rub whirl and instability Torsional vibration Providing the latest research and useful guidance 12th International Conference on Vibrations in Rotating Machinery aims at those from industry or academia that are involved in transport power process medical engineering manufacturing or construction

The Electric Generators Handbook - 2 Volume Set Ion Boldea, 2005-11-16 The modern world hungers for electricity Traditionally this hunger was sated with predominantly constant speed regulated synchronous generators However new demands require the stable quick and efficient delivery and control offered by variable speed generators Surveying all of the technologies used to satisfy the world's demand for o

Handbook of Small Electric Motors William H. Yeadon, Alan Yeadon, 2001-05-14 A complete definitive source for the design manufacture application and testing of small electric motors less than ten horsepower Gives motor design engineers test technicians and engineers top to bottom coverage of materials used in motor manufacturing as well as how to advice on selecting the right design and assembly method Includes a full section on motor applications

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