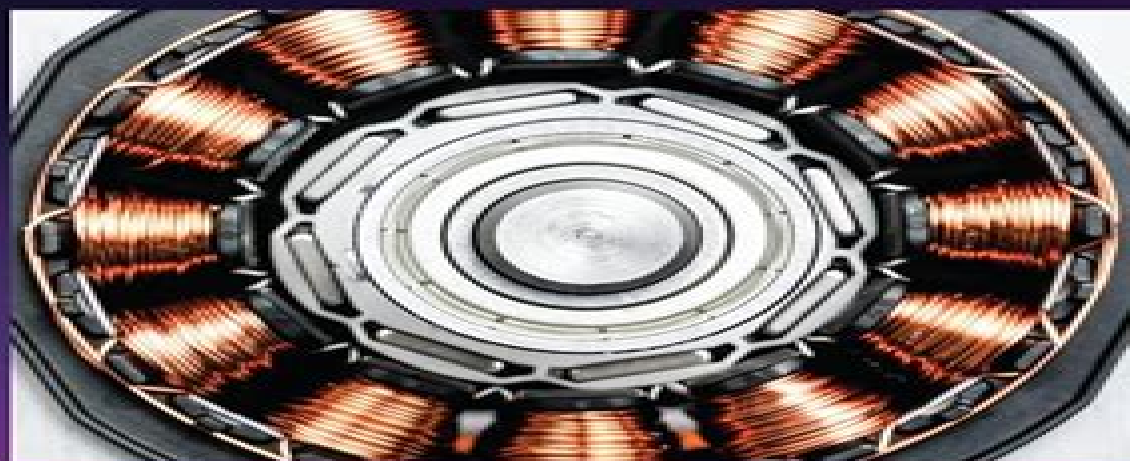


Zi Qiang Zhu, Kan Liu, Dawei Liang

Parameter Estimation of Permanent Magnet Synchronous Machines



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Synchronous Machines Charles Concordia,1980

Control of Electrical Drives Werner Leonhard,2001-08-10

Electrical drives play an important role as electromechanical energy convert ers in transportation material handling and most production processes The ease of controlling electrical drives is an important aspect for meeting the in creasing demands by the user with respect to flexibility and precision caused by technological progress in industry as well as the need for energy conser vation At the same time the control of electrical drives has provided strong incentives to control engineering in general leading to the development of new control structures and their introduction to other areas of control This is due to the stringent operating conditions and widely varying specifications a drive may alternately require control of torque acceleration speed or position and the fact that most electric drives have in contrast to chem ical or thermal processes well defined structures and consistent dynamic characteristics During the last years the field of controlled electrical drives has undergone rapid expansion due mainly to the advances of semiconductors in the form of power electronics as well as analogue and digital signal electronics eventu ally culminating in microelectronics and microprocessors The introduction of electronically switched solid state power converters has renewed the search for adjustable speed AC motor drives not subject to the limitations of the mechanical commutator of DC drives which dominated the field for a century

Synchronous Generators Ion Boldea,2005-11-09 Surveying the technologies used to satisfy the world s demand for open efficient and clean electricity Synchronous Generators provides an in depth examination of synchronous generators for both stand alone and grid connected applications Part of The Electric Generators Handbook Two Volume Set this book offers authoritative tightly focused tr

Advanced Theory of Fractional-Slot Concentrated-Wound Permanent Magnet Synchronous Machines Mohammad Farshadnia,2018-03-27 This book focuses on the analytical modeling of fractional slot concentrated wound FSCW interior permanent magnet IPM machines and establishes a basis for their magnetic and electrical analysis Aiming at the precise modeling of FSCW IPM machines magnetic and electrical characteristics it presents a comprehensive mathematical treatment of the stator magneto motive force MMF the IPM rotor non homogeneous magnetic saturation and its airgap flux density The FSCW stator spatial MMF harmonics are analytically formulated providing a basis on which a novel heuristic algorithm is then proposed for the design of optimal winding layouts for multiphase FSCW stators with different slot pole combinations In turn the proposed mathematical models for the FSCW stator and the IPM rotor are combined to derive detailed mathematical expressions of its operational inductances electromagnetic torque torque ripple and their respective subcomponents as a function of the machine geometry and design parameters Lastly the proposed theories and analytical models are validated using finite element analysis and experimental tests on a prototype FSCW IPM machine

Electromechanical Energy Conversion With Dynamics Of Machines R.D. Begamudre,2007 Advances During The Past Two Decades In Use Of High Powered And Fast Acting Solid State Devices Has Advanced The State Of The Art Of Motor

Control And Excitation Systems For Alternators These Require The Explanation Of Harmonic Torques In Motors As Well As The Stability Of Machines This Book Covers The Necessary Material At The Undergraduate Level And Could Serve As A Terminal Course In Electrical Machinery Syllabus The Book Commences With Magnetic Circuit Calculations For Devices And Machines Field Plotting Methods And Principles Of Electro Mechanical Energy Conversion For Which The Magnetic Fields Serve As Reservoirs Of Energy The Conversion Processes Are Based On The Application Of ampere's Law Of Force And Faraday's Law Of E M Induction Using D'Alembert's Principle Of Virtual Work A Great Emphasis Is Placed On The Application Of Lagrange's Equation Including Motional E M F And The Rayleigh Dissipation Function The Author Has Experienced That A Firm Grasp Of Lagrange's Method Is Most Beneficial For Handling Complex E M C Problems Chapters 3 Through 10 Cover The Basic Principles Of Operation And Performance Of Transformers Dc Machines Induction Motors Synchronous Machines Leading To Discussion Of Dynamics Of Machines In The Steady State And Transient State The Chapter On Synchronous Machines Is Strengthened By Showing The Very Basic And Important Aspect Of Calculation Of Synchronous Machine Constants Which Is Considered Novel In Such A Book The Student Is Given The Idea That The Flux Distribution In The Machine Is Basic To Its Operation In All Its States Of Operation The Final Chapter Is An Introduction To Computer Aided Design Of Machines Which Is Gaining In Importance In Practice Every Chapter Has Many Worked Examples To Guide The Student Not Only In Problem Solving But To Illustrate Engineering Aspects Of This Very Important Topic Review Questions Problems For Self Testing And Objective Type Questions With All Answers Are Provided

Power Quality in Power Systems, Electrical Machines, and Power-Electronic Drives Ewald F. Fuchs, Mohammad A. S. Masoum, 2023-02-13
Power Quality in Power Systems Electrical Machines and Power Electronic Drives uses current research and engineering practices guidelines standards and regulations for engineering professionals and students interested in solving power quality problems in a cost effective reliable and safe manner within the context of renewable energy systems The book contains chapters that address power quality across diverse facets of electric energy engineering including AC and DC transmission and distribution lines end user applications such as electric machines transformers inductors capacitors wind power and photovoltaic power plants and variable speed variable torque power electronic drives The book covers nonsinusoidal waveshapes voltage disturbances harmonic losses aging and lifetime reductions single time events such as voltage dips and the effects of variable speed drives controlled by PWM converters The book also reviews a corpus of techniques to mitigate power quality problems such as the optimal design of renewable energy storage devices including lithium ion batteries and fuel cells for automobiles serving as energy storage and the optimal design of nonlinear loads for simultaneous efficiency and power quality Provides theoretical and practical insights into power quality problems related to future smart grid renewable hybrid electric power systems electric machines and variable speed variable torque power electronic drives Contains a highly varied corpus of practical applications drawn from current international practice Designed as a self study tool with end of

chapter problems and solutions designed to build understanding Includes very highly referenced chapters that enable readers to save time and money in the research discovery process for critical research articles regulatory standards and guidelines

The Electrical Engineering Handbook - Six Volume Set Richard C. Dorf, 2018-12-14 In two editions spanning more than a decade The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field of electrical engineering Our knowledge continues to grow and so does the Handbook For the third edition it has grown into a set of six books carefully focused on specialized areas or fields of study Each one represents a concise yet definitive collection of key concepts models and equations in its respective domain thoughtfully gathered for convenient access Combined they constitute the most comprehensive authoritative resource available

Circuits Signals and Speech and Image Processing presents all of the basic information related to electric circuits and components analysis of circuits the use of the Laplace transform as well as signal speech and image processing using filters and algorithms It also examines emerging areas such as text to speech synthesis real time processing and embedded signal processing

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Broadcasting and Optical Communication Technology explores communications information theory and devices covering all of the basic information needed for a thorough understanding of these areas It also examines the emerging areas of adaptive estimation and optical communication

Computers Software Engineering and Digital Devices examines digital and logical devices displays testing software and computers presenting the fundamental concepts needed to ensure a thorough understanding of each field It treats the emerging fields of programmable logic hardware description languages and parallel computing in detail

Systems Controls Embedded Systems Energy and Machines explores in detail the fields of energy devices machines and systems as well as control systems It provides all of the fundamental concepts needed for thorough in depth understanding of each area and devotes special attention to the emerging area of embedded systems Encompassing the work of the world's foremost experts in their respective specialties The Electrical Engineering Handbook Third Edition remains the most convenient reliable source of information available This edition features the latest developments the broadest scope of coverage and new material on nanotechnologies fuel cells embedded systems and biometrics The engineering community has relied on the Handbook for more than twelve years and it will continue to be a platform to launch the next wave of advancements The Handbook's latest incarnation features a

protective slipcase which helps you stay organized without overwhelming your bookshelf It is an attractive addition to any collection and will help keep each volume of the Handbook as fresh as your latest research

Power Quality in Power Systems and Electrical Machines Ewald F. Fuchs, Mohammad A. S. Masoum, 2015-07-14 The second edition of this must have reference covers power quality issues in four parts including new discussions related to renewable energy systems The first part of the book provides background on causes effects standards and measurements of power quality and harmonics Once the basics are established the authors move on to harmonic modeling of power systems including components and apparatus electric machines The final part of the book is devoted to power quality mitigation approaches and devices and the fourth part extends the analysis to power quality solutions for renewable energy systems Throughout the book worked examples and exercises provide practical applications and tables charts and graphs offer useful data for the modeling and analysis of power quality issues Provides theoretical and practical insight into power quality problems of electric machines and systems 134 practical application example problems with solutions 125 problems at the end of chapters dealing with practical applications 924 references mostly journal articles and conference papers as well as national and international standards and guidelines

Large A.C. Machines Iliya Boguslawsky, Nikolay Korovkin, Masashi Hayakawa, 2016-11-30 In this monograph the authors solve the modern scientific problems connected with A C motors and generators based first on the detailed consideration of their physical phenomena The authors describe the theory and investigative methods they developed and applied in practice which are considered to be of essential interest for specialists in the field of the electrical engineering industry in European countries the USA Argentina and Brazil as well as in such countries as India China and Iran This book will be of interest to engineers specialized in the field of the manufacture operation and repair of A C machines motors and generators as well as electric drives to professors lecturers and post graduate students of technical universities who are specializing in the field of electric machine engineering and electric drives and to students who are engaged in the field of high current techniques electric drives and electric machine engineering

Next-Generation Artificial Intelligence Driven Smart and Renewable Energy Provas Kumar Roy, Sunanda Hazra, Chandan Paul, 2025-07-07 To provide for a sustainable future the potential synergies at the dynamic intersection of renewable energy RE incorporated with smart energy and artificial intelligence AI must be exploited RE is crucial to preserve the environment Energy involving various systems must be optimized and assessed to provide better performance However the design and development of RE systems remains a challenge Advanced optimization techniques AI and machine learning ML plays a crucial role in implementing the latest innovative research in the field of renewable energy integrated electrical systems This book also describes the practical challenges encountered and the solutions and future scope to be adopted Applications of a variety of advanced optimization and AI techniques in the design and development of RE integrated systems are discussed to provide new solutions in the RE domain Key features Discusses modern modeling control approaches for improving renewable energy

integrating artificial intelligence driven power systems Describes the principles and methods of renewable energy generation technologies and an analysis of their implementation management and optimization and related economic advantages Presents critical information on the technological design and policy issues that must be taken into considered while implementing a smart grid Explains of the metaheuristic optimization algorithm for complex electrical systems and the whale optimization algorithm based multi objective hydrothermal scheduling Covers the electric vehicle charging station in the distribution network and transient stability constraint optimal power flow problem using chaotic quasi oppositional chemical reaction optimization The topics covered including microgrids wind power solar photo voltaic PV optimal power flow OPF grid connected inverter electric vehicle combined heat and power economic dispatch FACTS tools for smart energy harmonic impedance of a salient pole synchronous generator HI maximum power point tracking MPPT and advanced optimization techniques Next Generation Artificial Intelligence Driven Smart and Renewable Energy is ideal for academicians practitioners teachers engineers industry professionals researchers and students in diverse fields including electrical engineering electronics and communications engineering energy and environmental engineering

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