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Axial Flux Permanent Magnet Brushless Machines

2nd Edition



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Frédéric Dubas, Kamel Boughrara



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Axial Flux Permanent Magnet Brushless Machines Jacek F. Gieras, Rong-Jie Wang, Maarten J. Kamper, 2004-09-23 Axial Flux Permanent Magnet AFPM brushless machines are modern electrical machines with a lot of advantageous merits over their conventional counterparts They are increasingly used in power generation domestic appliances industrial drives electric vehicles and marine propulsion drives and many other applications This book deals with the analysis construction design optimisation control and applications of AFPM machines The authors present their own research results as well as significant research contributions made by others This monograph will be of interest to electrical engineers and other engineers involved in the design and application of AFPM brushless machine drives It will be an important resource for researchers and graduate students in the field of electrical machine and drives *Axial Flux Permanent Magnet Brushless Machines* Jacek F. Gieras, Rong-Jie Wang, Maarten J. Kamper, 2004 *Axial Flux Permanent Magnet Brushless Machines* Jacek F. Gieras, Rong-Jie Wang, Maarten J. Kamper, 2008-03-26 Axial Flux Permanent Magnet AFPM brushless machines are modern electrical machines with a lot of advantages over their conventional counterparts This timeless and revised second edition deals with the analysis construction design control and applications of AFPM machines The authors present their own research results as well as significant research contributions made by others *Axial Flux Permanent Magnet Brushless Machines* Jacek F. Gieras, Rong-Jie Wang, Maarten J. Kamper, 2014-11-21 Axial Flux Permanent Magnet AFPM brushless machines are modern electrical machines with a lot of advantages over their conventional counterparts This timeless and revised second edition deals with the analysis construction design control and applications of AFPM machines The authors present their own research results as well as significant research contributions made by others Axial Flux Permanent Magnet Brushless Machines William Jayden, 2017-06-04 Axial Flux Permanent Magnet AFPM brushless machines are modern electrical machines with a lot of advantages over their conventional counterparts This timeless and revised second edition deals with the analysis construction design control and applications of AFPM machines The authors present their own research results as well as significant research contributions made by others *Permanent Magnet Synchronous and Brushless DC Motor Drives* Ramu Krishnan, 2017-12-19 Despite two decades of massive strides in research and development on control strategies and their subsequent implementation most books on permanent magnet motor drives still focus primarily on motor design providing only elementary coverage of control and converters Addressing that gap with information that has largely been disseminated only in journals and at conferences *Permanent Magnet Synchronous and Brushless DC Motor Drives* is a long awaited comprehensive overview of power electronic converters for permanent magnet synchronous machines and control strategies for variable speed operation It introduces machines power devices inverters and control and addresses modeling implementation control strategies and flux weakening operations as well as parameter sensitivity and rotor position sensorless control Suitable for both industrial and academic audiences this book also covers the

simulation low cost inverter topologies and commutation torque ripple of PM brushless DC motor drives Simulation of the motor drives system is illustrated with MATLAB codes in the text This book is divided into three parts fundamentals of PM synchronous and brushless dc machines power devices inverters PM synchronous motor drives and brushless dc motor drives With regard to the power electronics associated with these drive systems the author Explores use of the standard three phase bridge inverter for driving the machine power factor correction and inverter control Introduces space vector modulation step by step and contrasts with PWM Details dead time effects in the inverter and its compensation Discusses new power converter topologies being considered for low cost drive systems in PM brushless DC motor drives This reference is dedicated exclusively to PM ac machines with a timely emphasis on control and standard and low cost converter topologies Widely used for teaching at the doctoral level and for industrial audiences both in the U S and abroad it will be a welcome addition to any engineer s library

Mechanical Design and Manufacturing of Electric Motors Wei Tong,2022-05-19

This Second Edition of Mechanical Design and Manufacturing of Electric Motors provides in depth knowledge of design methods and developments of electric motors in the context of rapid increases in energy consumption and emphasis on environmental protection alongside new technology in 3D printing robots nanotechnology and digital techniques and the challenges these pose to the motor industry From motor classification and design of motor components to model setup and material and bearing selections this comprehensive text covers the fundamentals of practical design and design related issues modeling and simulation engineering analysis manufacturing processes testing procedures and performance characteristics of electric motors today This Second Edition adds three brand new chapters on motor breaks motor sensors and power transmission and gearing systems Using a practical approach with a focus on innovative design and applications the book contains a thorough discussion of major components and subsystems such as rotors shafts stators and frames alongside various cooling techniques including natural and forced air direct and indirect liquid phase change and other newly emerged innovative cooling methods It also analyzes the calculation of motor power losses motor vibration and acoustic noise issues and presents engineering analysis methods and case study results While suitable for motor engineers designers manufacturers and end users the book will also be of interest to maintenance personnel undergraduate and graduate students and academic researchers

Soft Magnetic Composites in Novel Designs of Electrical Traction Machines

Zhang, Bo,2017-07-19 Nowadays the manufacturing of electrical machines based on electrical steel laminations has been well established worldwide Compared with the electrical steel the soft magnetic composites SMC shows magnetic isotropy and lower eddy current losses Thus it becomes an important impulse promoting the development of new topologies of electrical machine The application of SMC in the electrical traction machine for hybrid electrical vehicle or electrical vehicle has been researched in the work

Advances in Engineering Research and Application Duy Cuong Nguyen,Ngoc Pi Vu,Banh Tien Long,Horst Puta,Kai-Uwe Sattler,2022-12-01 The International Conference on Engineering Research and Applications

ICERA 2022 held on December 1 2 2022 at Thai Nguyen University of Technology in Thai Nguyen Vietnam provided an international forum to disseminate information on latest theories and practices in engineering research and applications The conference focused on original research work in areas including mechanical engineering materials and mechanics of materials mechatronics and micro mechatronics automotive engineering electrical and electronics engineering information and communication technology By disseminating the latest advances in the field the Proceedings of ICERA 2022 Advances in Engineering Research and Application assists academics and professionals alike to reshape their thinking on sustainable development

Operation, Construction, and Functionality of Direct Current Machines Amin, Muhammad, Rehmani, Mubashir Husain, 2015-04-30 Direct current machines are a quickly evolving domain whose applications affect many aspects of modern life from computers and printers to toys electric vehicles and traction applications As their many uses continue to grow it has become apparent that understanding these machines is the key to understanding our future Operation Construction and Functionality of Direct Current Machines brings together many concepts from the most basic working principles and construction of DC machines to more advanced topics such as electro magnetism armature reaction parallel operations and many more Highlighting theoretical concepts and numerical problems this book is an essential reference source for students educators and anyone interested in the field of electric machines

Mechanical Design of Electric Motors Wei Tong, 2014-04-28 Rapid increases in energy consumption and emphasis on environmental protection have posed challenges for the motor industry as has the design and manufacture of highly efficient reliable cost effective energy saving quiet precisely controlled and long lasting electric motors Suitable for motor designers engineers and manufacturers as well

Modern Permanent Magnet Electric Machines Jacek F. Gieras, Jian-Xin Shen, 2022-12-05 The late 1980s saw the beginning of the PM brushless machine era with the invention of high energy density permanent magnets PM and the development of power electronics Although induction motors are now the most popular electric motors the impact of PM brushless machines on electromechanical drives is significant Today PM machines come second to induction machines Replacement of electromagnetic field excitation systems by PMs brings the following benefits No electrical energy is absorbed by the field excitation system and thus there are no excitation losses causing substantial increase in efficiency Higher power density kW kg and or torque density Nm kg than electromagnetic excitation Better dynamic performance than motors with electromagnetic excitation higher magnetic flux density in the air gap Simplification of construction and maintenance Less expensive for some types of machines Modern Permanent Magnet Electric Machines Theory and Control serves as a textbook for undergraduate power engineering students who want to supplement and expand their knowledge in the fundamentals of magnetism soft magnetic materials permanent magnets PMs calculation of magnetic circuits with PMs modern PM brushed DC machines and their controls modern PM brushless DC motors and drive control and modern PM generators The book can help students learn more about electrical machines and can serve as a prescribed text for teaching

elective undergraduate courses such as modern permanent magnet electrical machines Since the book is written in a simple scientific language and without redundant mathematics it can also be used by practicing engineers and managers employed in electrical machinery or electromagnetic device industries *Intelligent Manufacturing Systems in Industry 4.0* B. B. V. L. Deepak, M. V. A. Raju Bahubalendruni, D. R. K. Parhi, B. B. Biswal, 2023-06-30 This book presents the select proceedings of the 4th International Conference on Innovative Product Design and Intelligent Manufacturing System IPDIMS 2022 It covers the latest trends in the areas of design and manufacturing The main topics covered include Industry 4.0 smart manufacturing advanced robotics and CAD CAM CIM The contents of this book are useful for researchers and professionals working in the disciplines of mechatronics mechanical manufacturing production and industrial engineering Applications in Electronics Pervading Industry, Environment and Society— Industrial Electronics and Cyber Physical Systems Sergio Saponara, Alessandro De Gloria, Riccardo Berta, 2021-09-02 This book features the manuscripts accepted for the Special Issue Applications in Electronics Pervading Industry Environment and Society Sensing Systems and Pervasive Intelligence of the MDPI journal Sensors Most of the papers come from a selection of the best papers of the 2019 edition of the Applications in Electronics Pervading Industry Environment and Society APPLEPIES Conference which was held in November 2019 All these papers have been significantly enhanced with novel experimental results The papers give an overview of the trends in research and development activities concerning the pervasive application of electronics in industry the environment and society The focus of these papers is on cyber physical systems CPS with research proposals for new sensor acquisition and ADC analog to digital converter methods high speed communication systems cybersecurity big data management and data processing including emerging machine learning techniques Physical implementation aspects are discussed as well as the trade off found between functional performance and hardware system costs **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 Interdisciplinary Electromagnetic, Mechanic and Biomedical Problems, 2007 The International Symposium on Applied Electromagnetics and Mechanics ISEM is an interdisciplinary international forum This title concerns 12th event and was organized by following three institutions Vienna Magnetics Group TU BioMed Society for Biomedical Engineering Bioelectricity and the Vienna University of Technology *Decarbonisation and Digitization of the Energy System* Ashwani Kumar, S. N. Singh, Pradeep Kumar, 2024-01-11 The book contains select proceedings of the International Conference on Smart Grid Energy Systems and

Control SGESC 2023 The proceedings are divided into 02 volumes and this volume focuses on the Decarbonisation and Digitization of the Energy System The book covers the important topics on the smart grid microgrids and control aspects optimal energy scheduling distributed generation wind energy for remote electrification forecasting of loads and daily energy demand reactive power management Volt Var control reactive power procurement and ancillary services the role of FACTS devices for reactive power management and control feasibility study of PV Wind hybrid systems electricity markets stability of the power system network energy storage systems and electrical vehicles This book is a unique collection of 27 chapters from different areas with a common theme and will be immensely useful to academic researchers and practitioners in the industry

Electric Vehicles Seref Soylu, 2011-09-12 In this book modeling and simulation of electric vehicles and their components have been emphasized chapter by chapter with valuable contribution of many researchers who work on both technical and regulatory sides of the field Mathematical models for electrical vehicles and their components were introduced and merged together to make this book a guide for industry academia and policy makers

New Trends in Electrical Vehicle Powertrains Luis Romeral Martinez, Miguel Delgado Prieto, 2019-01-30 The electric vehicle and plug in hybrid electric vehicle play a fundamental role in the forthcoming new paradigms of mobility and energy models The electrification of the transport sector would lead to advantages in terms of energy efficiency and reduction of greenhouse gas emissions but would also be a great opportunity for the introduction of renewable sources in the electricity sector The chapters in this book show a diversity of current and new developments in the electrification of the transport sector seen from the electric vehicle point of view first the related technologies with design control and supervision second the powertrain electric motor efficiency and reliability and third the deployment issues regarding renewable sources integration and charging facilities This is precisely the purpose of this book that is to contribute to the literature about current research and development activities related to new trends in electric vehicle power trains

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

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Table of Contents Axial Flux Permanent Magnet Brushless Machines

1. Understanding the eBook Axial Flux Permanent Magnet Brushless Machines
 - The Rise of Digital Reading Axial Flux Permanent Magnet Brushless Machines
 - Advantages of eBooks Over Traditional Books
2. Identifying Axial Flux Permanent Magnet Brushless Machines
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Axial Flux Permanent Magnet Brushless Machines
 - User-Friendly Interface
4. Exploring eBook Recommendations from Axial Flux Permanent Magnet Brushless Machines
 - Personalized Recommendations
 - Axial Flux Permanent Magnet Brushless Machines User Reviews and Ratings
 - Axial Flux Permanent Magnet Brushless Machines and Bestseller Lists
5. Accessing Axial Flux Permanent Magnet Brushless Machines Free and Paid eBooks
 - Axial Flux Permanent Magnet Brushless Machines Public Domain eBooks
 - Axial Flux Permanent Magnet Brushless Machines eBook Subscription Services
 - Axial Flux Permanent Magnet Brushless Machines Budget-Friendly Options

6. Navigating Axial Flux Permanent Magnet Brushless Machines eBook Formats
 - ePub, PDF, MOBI, and More
 - Axial Flux Permanent Magnet Brushless Machines Compatibility with Devices
 - Axial Flux Permanent Magnet Brushless Machines Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Axial Flux Permanent Magnet Brushless Machines
 - Highlighting and Note-Taking Axial Flux Permanent Magnet Brushless Machines
 - Interactive Elements Axial Flux Permanent Magnet Brushless Machines
8. Staying Engaged with Axial Flux Permanent Magnet Brushless Machines
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Axial Flux Permanent Magnet Brushless Machines
9. Balancing eBooks and Physical Books Axial Flux Permanent Magnet Brushless Machines
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Axial Flux Permanent Magnet Brushless Machines
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Axial Flux Permanent Magnet Brushless Machines
 - Setting Reading Goals Axial Flux Permanent Magnet Brushless Machines
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Axial Flux Permanent Magnet Brushless Machines
 - Fact-Checking eBook Content of Axial Flux Permanent Magnet Brushless Machines
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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