

# INTERNATIONAL JOURNAL OF ELECTRICAL MACHINES & DRIVES

*International Journal of Electrical Machines & Drives is a comprehensive journal that covers all aspects of Electrical Machines & Drives and their integration into recent technologies that are the focus of ongoing research. Journal has a wider scope including all major advancement in the technology and design that are related to Electrical Machines & Drives. All articles presented here are peer-reviewed and are of good quality.*

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- ✓ Electromagnetics and Energy Conversion
- ✓ AC Systems and 3 Phase Circuits
- ✓ Synchronous Machines
- ✓ Adjustable Torque Drives
- ✓ DC and AC electric motor drives
- ✓ Electric Motor Drives
- ✓ Motor controller algorithms
- ✓ Microcontroller or digital signal processor
- ✓ Fault protection and diagnostics
- ✓ Power Electronics and Pulsed Power

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# Seventh International Conference On Electrical Machines And Drives Conference Publication No 41

**Ion Boldea**



### **Seventh International Conference On Electrical Machines And Drives Conference Publication No 41:**

**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

IMDC-IST 2021 Abd-Alhameed Raed, A. Al-Hussaihi Walid, Rana Zubo, 2022-01-26 This book contains the proceedings of the Second International Conference on Integrated Sciences and Technologies IMDC IST 2021 Where held on 7th 9th Sep 2021 in Sakarya Turkey This conference was organized by University of Bradford UK and Southern Technical University Iraq The papers in this conference were collected in a proceedings book entitled Proceedings of the second edition of the International Multi Disciplinary Conference Theme Integrated Sciences and Technologies IMDC IST 2021 The presentation of such a multi discipline conference provides a lot of exciting insights and new understanding on recent issues in terms of Green Energy Digital Health Blended Learning Big Data Meta material Artificial Intelligence powered applications Cognitive Communications Image Processing Health Technologies 5G Communications Referring to the argument this conference would serve as a valuable reference for future relevant research activities The committee acknowledges that the success of this conference are closely intertwined by the contributions from various stakeholders As being such we would like to express our heartfelt appreciation to the keynote speakers invited speakers paper presenters and participants for their enthusiastic support in joining the second edition of the International Multi Disciplinary Conference Theme Integrated Sciences and Technologies IMDC IST 2021 We are convinced that the contents of the study from various papers are not only encouraged productive discussion among presenters and participants but also motivate further research in the relevant subject We appreciate for your enthusiasm to attend our conference and share your knowledge and experience Your input was important in ensuring the success of our conference Finally we hope that this conference serves as a forum for learning in building togetherness and academic networks Therefore we expect to see you all at the next IMDC IST *Vehicular Electric Power Systems* Ali Emadi, Mehrdad Ehsani, John M. Miller, 2003-12-12 Vehicular Electric Power Systems Land Sea Air and Space Vehicles acquaints professionals with trends and challenges in the development of more electric vehicles MEVs using detailed examples and comprehensive discussions of advanced MEV power system architectures characteristics and dynamics The authors focus on real world applications and highlight issues related to system stability as well as challenges

faced during and after implementation Probes innovations in the development of more electric vehicles for improved maintenance support endurance safety and cost efficiency in automotive aerospace and marine vehicle engineering  
Heralding a new wave of advances in power system technology Vehicular Electric Power Systems discusses Different automotive power systems including conventional automobiles more electric cars heavy duty vehicles and electric and hybrid electric vehicles Electric and hybrid electric propulsion systems and control strategies Aerospace power systems including conventional and advanced aircraft spacecraft and the international space station Sea and undersea vehicles The modeling real time state estimation and stability assessment of vehicular power systems Applications of fuel cells in various land sea air and space vehicles Modeling techniques for energy storage devices including batteries fuel cells photovoltaic cells and ultracapacitors Advanced power electronic converters and electric motor drives for vehicular applications Guidelines for the proper design of DC and AC distribution architectures

### **Electrical Drives for Direct Drive Renewable Energy Systems**

Markus Mueller, Henk Polinder, 2013-03-25 Wind turbine gearboxes present major reliability issues leading to great interest in the current development of gearless direct drive wind energy systems Offering high reliability high efficiency and low maintenance developments in these direct drive systems point the way to the next generation of wind power and Electrical drives for direct drive renewable energy systems is an authoritative guide to their design development and operation Part one outlines electrical drive technology beginning with an overview of electrical generators for direct drive systems Principles of electrical design for permanent magnet generators are discussed followed by electrical thermal and structural generator design and systems integration A review of power electronic converter technology and power electronic converter systems for direct drive renewable energy applications is then conducted Part two then focuses on wind and marine applications beginning with a commercial overview of wind turbine drive systems and an introduction to direct drive wave energy conversion systems The commercial application of these technologies is investigated via case studies on the permanent magnet direct drive generator in the Zephyros wind turbine and the Archimedes Wave Swing AWS direct drive wave energy pilot plant Finally the book concludes by exploring the application of high temperature superconducting machines to direct drive renewable energy systems With its distinguished editors and international team of expert contributors Electrical drives for direct drive renewable energy systems provides a comprehensive review of key technologies for anyone involved with or interested in the design construction operation development and optimisation of direct drive wind and marine energy systems An authoritative guide to the design development and operation of gearless direct drives Discusses the principles of electrical design for permanent magnet generators and electrical thermal and structural generator design and systems integration Investigates the commercial applications of wind turbine drive systems

*Practical Partial Discharge Measurement on Electrical Equipment* Greg C. Stone, Andrea Cavallini, Glenn

Behrmann, Claudio Angelo Serafino, 2023-08-28 Practical Partial Discharge Measurement on Electrical Equipment Accessible

reference dealing with partial discharge PD measurement in all types of high voltage equipment using modern digital PD detectors Practical Partial Discharge Measurement on Electrical Equipment is a timely update in the field of partial discharges PD covering both holistic concepts and specific modern applications in one volume The first half of the book educates the reader on what PD is and the general principles of how it is measured and interpreted The second half of the book is similar to a handbook with a chapter devoted to PD measurements in each type of high voltage HV equipment These chapters contain specific information of the insulation system design causes of PD in that equipment off line and on line measurement methods interpretation methods and relevant standards The work is authored by four well known experts in the field of PD measurement who have published hundreds of technical papers on the subject and performed thousands of PD measurements on all the different types of HV equipment covered in the book The authors have also had relationships with PD detector manufacturers giving them key insights into test instruments and practical measurements Sample topics covered in the work include Physics of PD discharge phenomena contact sparking and vibration sparking and an introduction to PD measurement electrical optical acoustic and chemical Electrical PD detection types of sensors RF PD detection antenna TEV and PD instrumentation and display Off line and on line PD measurements general principles of PD interpretation and laboratory PD testing of lumped test objects PD in different types of HV equipment power cables power transformers air insulated metal clad switchgear rotating machines gas insulated switchgear and more For HV equipment OEMs users of HV equipment or employees of companies that provide PD testing services to clients Practical Partial Discharge Measurement on Electrical Equipment is an essential reference to help understand general concepts about the topic and receive expert guidance during specific practical applications

**International Conference on Power Electronics, Machines and Drives, 16-18 April 2002 : Venue, University of Bath, UK. ,2002** This conference provided a forum for delegates to have the opportunity to discuss debate and learn about recent developments and future trends in the areas of electrical machines drives solid state motion control and power conversion It was also an opportunity for users to identify short comings in existing designs and equipment and make equipment manufacturers and installers more aware of their potential markets The conference was the premier UK technical event for Power Electronic Machines and Drive specialists [Sliding Mode](#)

[Control for Synchronous Electric Drives](#) Sergey E. Ryvkin,Eduardo Palomar Lever,2011-11-21 This volume presents the theory of control systems with sliding mode applied to electrical motors and power converters It demonstrates the methodology of control design and the original algorithms of control and observation Practically all semiconductor devices are used in power converters that feed electrical motors as power switches A switch

**Electrical Energy Efficiency** Andreas Sumper,Angelo Bagгинi,2012-03-15 The improvement of electrical energy efficiency is fast becoming one of the most essential areas of sustainability development backed by political initiatives to control and reduce energy demand Now a major topic in industry and the electrical engineering research community engineers have started to focus on analysis

diagnosis and possible solutions Owing to the complexity and cross disciplinary nature of electrical energy efficiency issues the optimal solution is often multi faceted with a critical solutions evaluation component to ensure cost effectiveness This single source reference brings a practical focus to the subject of electrical energy efficiency providing detailed theory and practical applications to enable engineers to find solutions for electroefficiency problems It presents power supplier as well as electricity user perspectives and promotes routine implementation of good engineering practice Key features include a comprehensive overview of the different technologies involved in electroefficiency outlining monitoring and control concepts and practical design techniques used in industrial applications description of the current standards of electrical motors with illustrative case studies showing how to achieve better design up to date information on standarization technologies economic realities and energy efficiency indicators the main types and international results coverage on the quality and efficiency of distribution systems the impact on distribution systems and loads and the calculation of power losses in distribution lines and in power transformers With invaluable practical advice this book is suited to practicing electrical engineers design engineers installation designers M E designers and economic engineers It equips maintenance and energy managers planners and infrastructure managers with the necessary knowledge to properly evaluate the wealth of electrical energy efficiency solutions for large investments This reference also provides interesting reading material for energy researchers policy makers consultants postgraduate engineering students and final year undergraduate engineering students

**Index of Conference Proceedings** British Library. Document Supply Centre,2000      **Switched Reluctance Motor Drives** Berker Bilgin,James Weisheng Jiang,Ali Emadi,2019-04-29 Electric motors are the largest consumer of electric energy and they play a critical role in the growing market for electrification Due to their simple construction switched reluctance motors SRMs are exceptionally attractive for the industry to respond to the increasing demand for high efficiency high performance and low cost electric motors with a more secure supply chain Switched Reluctance Motor Drives Fundamentals to Applications is a comprehensive textbook covering the major aspects of switched reluctance motor drives It provides an overview of the use of electric motors in the industrial residential commercial and transportation sectors It explains the theory behind the operation of switched reluctance motors and provides models to analyze them The book extensively concentrates on the fundamentals and applications of SRM design and covers various design details such as materials mechanical construction and controls Acoustic noise and vibration is the most well known issue in switched reluctance motors but this can be reduced significantly through a multidisciplinary approach These methodologies are explained in two chapters of the book The first covers the fundamentals of acoustic noise and vibration so readers have the necessary tools to analyze the problems and explains the surface waves spring mass models forcing harmonics and mode shapes that are utilized in modeling and analyzing acoustic noise and vibration The second applies these fundamentals to switched reluctance motors and provides examples for determining the sources of any acoustic noise in switched reluctance motors In

the final chapter two SRM designs are presented and proposed as replacements for permanent magnet machines in a residential HVAC application and a hybrid electric propulsion application It also shows a high power and compact converter design for SRM drives Features Comprehensive coverage of switched reluctance motor drives from fundamental principles to design operation and applications A specific chapter on electric motor usage in industrial residential commercial and transportation applications to address the benefits of switched reluctance machines Two chapters address acoustic noise and vibration in detail Numerous illustrations and practical examples on the design modeling and analysis of switched reluctance motor drives Examples of switched reluctance motor and drive design

**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

*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 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

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 *Electrical Machines Diagnosis* Jean-Claude Trigeassou, 2013-02-07 Monitoring and diagnosis of electrical machine faults is a scientific and economic issue which is motivated by objectives for reliability and serviceability in electrical drives This book provides a survey of the techniques



used to detect the faults occurring in electrical drives electrical thermal and mechanical faults of the electrical machine faults of the static converter and faults of the energy storage unit Diagnosis of faults occurring in electrical drives is an essential part of a global monitoring system used to improve reliability and serviceability This diagnosis is performed with a large variety of techniques parameter estimation state observation Kalman filtering spectral analysis neural networks fuzzy logic artificial intelligence etc Particular emphasis in this book is put on the modeling of the electrical machine in faulty situations Electrical Machines Diagnosis presents original results obtained mainly by French researchers in different domains It will be useful as a guideline for the conception of more robust electrical machines and indeed for engineers who have to monitor and maintain electrical drives As the monitoring and diagnosis of electrical machines is still an open domain this book will also be very useful to researchers

**Advanced Linear Machines and Drive Systems** Wei Xu,Md. Rabiul Islam,Marcello Pucci,2019-09-07 This book collects the latest theoretical and technological concepts in the design and control of various linear machines and drive systems Discussing advances in the new linear machine topologies integrated modeling multi objective optimization techniques and high performance control strategies it focuses on emerging applications of linear machines in transportation and energy systems The book presents both theoretical and practical experimental results providing a consistent compilation of fundamental theories a compendium of current research and development activities as well as new directions to overcome critical limitations

**Advanced Controls for Wind Driven Doubly Fed Induction Generators** Mahmoud K. Abdelhamid,Mahmoud A. Mossa,Ahmed A. Hassan,2023-12-22 Advanced Controls for Wind Driven Doubly Fed Induction Generators discusses the most advanced control algorithms used for enhancing the dynamics of a doubly fed induction generator DFIG operating at fixed and variable speeds and which are used for different utilization purposes standalone and grid connection Extensive generator performance analysis has been introduced using various control topologies Features Presents modeling of wind energy conversion systems WECS including a wind turbine as a prime mover a DFIG as a generation unit for electrical energy and a three phase induction motor as an isolated load Explores a detailed description for the presented control algorithms in order to visualize the base principle of each method Introduces a comprehensive performance analysis for the DFIG using the formulated predictive voltage control scheme and other control techniques under different operating conditions Examines the formulation of new control approaches which overcome the shortages present in previous DFIG control schemes Presents a detailed comparison between different control topologies for the DFIG to outline the most effective procedure in terms of dynamic response structure simplicity ripples total harmonic distortion and computational burdens The book is written for researchers and academics working on advanced control systems and those interested in areas such as machine drives renewable energy systems adaptive control modeling of WECS and optimization theory

**Induction Machines Handbook** Ion Boldea,2020-05-26 Induction Machines Handbook Steady State Modeling and Performance offers a thorough treatment of

steady state induction machines IM the most used electric motor generator in rather constant or variable speed drives forever lower energy consumption and higher productivity in basically all industries from home appliances through robotics to e transport and wind energy conversion Chapter 1 offers a detailed introduction from fundamental principles to topological classifications and most important applications and power ranges from tens of W to tens of MW Then individual Chapters 2 and 4 deal in detail with specific issues such as Magnetic electric and insulation materials Electric windings and their mmf Magnetization curve and inductance Leakage inductances and resistances Steady state equivalent circuit and performance Starting and speed control methods Skin and on load saturation effects Field harmonics parasitic torques radial forces noise Losses Thermal modeling Single phase induction machine basics Single phase induction motors steady state modeling and performance Fully revised and updated to reflect the last decade's progress in the field this third edition adds new sections such as Multiphase and multilayer tooth wound coil windings The brushless doubly fed induction machine BDFIM Equivalent circuits for BDFIM Control principles for doubly fed IM Magnetic saturation effects on current and torque versus slip curves Rotor leakage reactance saturation Closed slot IM saturation The origin of electromagnetic vibration by practical experience PM assisted split phase cage rotor IM's steady state The promise of renewable hydro and wind energy via cage rotor and doubly fed variable speed generators e transport propulsion and i home appliances makes this third edition a state of the art tool conceived with numerous case studies and timely for both academia and industry **HVDC**

**Grids** Dirk Van Hertem, Oriol Gomis-Bellmunt, Jun Liang, 2016-02-09 This book discusses HVDC grids based on multi terminal voltage source converters VSC which is suitable for the connection of offshore wind farms and a possible solution for a continent wide overlay grid HVDC Grids For Offshore and Supergrid of the Future begins by introducing and analyzing the motivations and energy policy drives for developing offshore grids and the European Supergrid HVDC transmission technology and offshore equipment are described in the second part of the book The third part of the book discusses how HVDC grids can be developed and integrated in the existing power system The fourth part of the book focuses on HVDC grid integration in studies for different time domains of electric power systems The book concludes by discussing developments of advanced control methods and control devices for enabling DC grids Presents the technology of the future offshore and HVDC grid Explains how offshore and HVDC grids can be integrated in the existing power system Provides the required models to analyse the different time domains of power system studies from steady state to electromagnetic transients This book is intended for power system engineers and academics with an interest in HVDC or power systems and policy makers The book also provides a solid background for researchers working with VSC HVDC technologies power electronic devices offshore wind farm integration and DC grid protection **Electromagnetic Analysis and Condition Monitoring of**

**Synchronous Generators** Hossein Ehya, Jawad Faiz, 2022-12-06 Electromagnetic Analysis and Condition Monitoring of Synchronous Generators Discover an insightful and complete overview of electromagnetic analysis and fault diagnosis in

large synchronous generators In *Electromagnetic Analysis and Condition Monitoring of Synchronous Generators* a team of distinguished engineers delivers a comprehensive review of the electromagnetic analysis and fault diagnosis of synchronous generators Beginning with an introduction to several types of synchronous machine structures the authors move on to the most common faults found in synchronous generators and their impacts on performance The book includes coverage of different modeling tools including the finite element method winding function and magnetic equivalent circuit as well as various types of health monitoring systems focusing on the magnetic field voltage current shaft flux and vibration Finally *Electromagnetic Analysis and Condition Monitoring of Synchronous Generators* covers signal processing tools that can help identify hidden patterns caused by faults and machine learning tools enabling automated condition monitoring The book also includes A thorough introduction to condition monitoring in electric machines and its importance to synchronous generators Comprehensive explorations of the classification of synchronous generators including armature arrangement machine construction and applications Practical discussions of different types of electrical and mechanical faults in synchronous generators including short circuit faults eccentricity faults misalignment core related faults and broken damper bar faults In depth examinations of the modeling of healthy and faulty synchronous generators including analytical and numerical methods Perfect for engineers working in electrical machine analysis maintenance and fault detection *Electromagnetic Analysis and Condition Monitoring of Synchronous Generators* is also an indispensable resource for professors and students in electrical power engineering

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