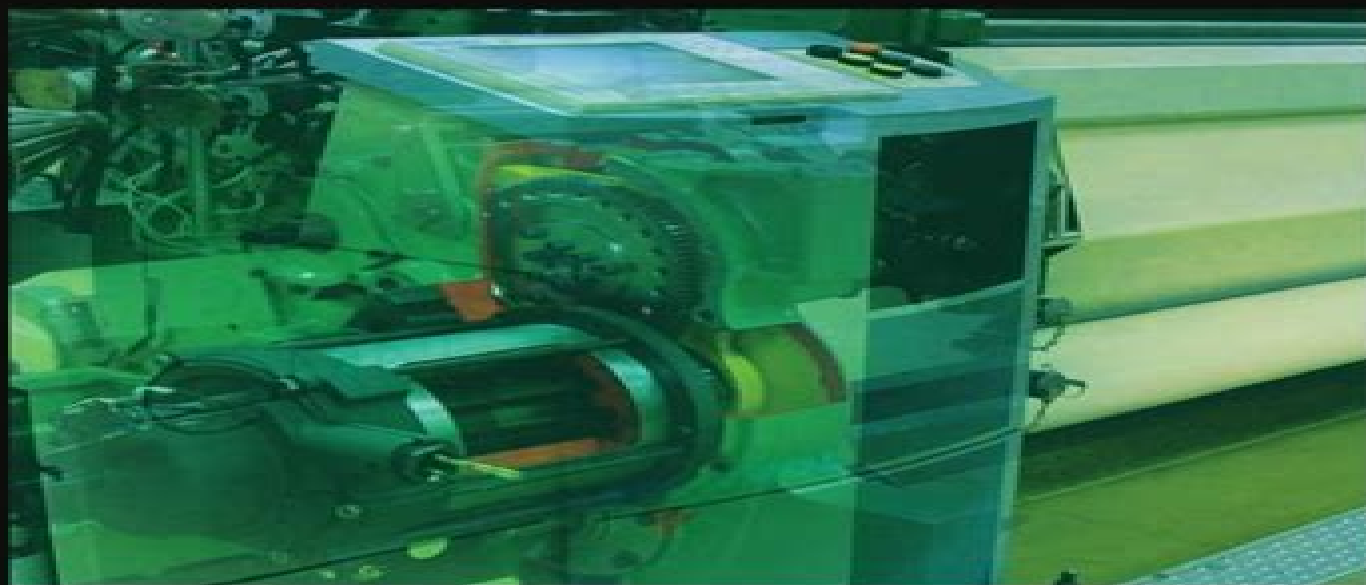


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# Electronic Control of Switched Reluctance Machines



Edited by  
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# Electronic Control Of Switched Reluctance Machines

**Ion Boldea**



## **Electronic Control Of Switched Reluctance Machines:**

**Electronic Control of Switched Reluctance Machines** TJE Miller, 2001-05-18 Switched reluctance motors have steadily increased in commercial importance since their introduction in the early 1980 s while their technology especially of their electronic control has made great progress Their unique characteristics introduce a delicate balance in which the copper and iron are diminished in quantity complexity and cost in favour of a greater reliance on sophistication in the controller Thus mastery of the control is the key challenge in the application of these machines This book is intended for engineer s in industry and in the large research community in electrical machines and drives It introduces the techniques for controlling switched reluctance machines starting from first principles and building up to the most advanced forms of sensorless control It covers the recent advances in electronic control and includes aspects of motion control automation acoustic noise reduction and energy efficiency Covers the recent changes in control technology Includes up to date equipment and methods Contains applications and case studies

**Switched Reluctance Motor** Ahmed Tahour, Abdel Ghani Aissaoui, 2017-06-21 In the last years the switched reluctance machines SRMs have been the subject of significant developments SRMs are gaining much interest because of their simplicity in structures high output power high starting torque wide speed range rugged and robust construction reliability and low manufacturing costs which make these machines viable for many applications SRMs include machines of different structures whose common property is the significant variation in the shape of the air gap during rotation The use of advanced control technologies makes possible the integration of the mechanical and electrical conversion systems in their optimal mode of operation Different strategies of control can be applied to SRMs depending on their mode of functioning and the purpose of their applications The goal of this book is to present recent works on concept control and applications in switched reluctance machines

*Modelling and Control of Switched Reluctance Machines* Rui Araújo, José Camacho, 2020-09-09 Today switched reluctance machines SRMs play an increasingly important role in various sectors due to advantages such as robustness simplicity of construction low cost insensitivity to high temperatures and high fault tolerance They are frequently used in fields such as aeronautics electric and hybrid vehicles and wind power generation This book is a comprehensive resource on the design modeling and control of SRMs with methods that demonstrate their good performance as motors and generators

*Electronic Control of Switched Reluctance Machines* Timothy John Eastham Miller, 2001

*Control of Switched Reluctance Machines* Eoin Patrick Kennedy, 2005

**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

Control Techniques Drives and Controls Handbook Bill Drury, 2001 Annotation A comprehensive guide to the technology underlying drives motors and control units this title contains a wealth of technical information for the practising drives and electrical engineer **Variable Speed Generators** Ion Boldea, 2005-11-09 Surveying the technologies used to satisfy the world's demand for open efficient and clean electricity Variable Speed Generators provides an in depth examination of variable speed generators for both stand alone and grid connected applications Part of The Electric Generators Handbook Two Volume Set this work offers authoritative tightly focused treatment of the topologies steady state and transients modeling performance control design and testing of stand alone and grid connected generators operating at variable speeds Variable Speed Generators thoroughly covers all types of variable speed generators currently in progress in distributed generation and renewable energy applications around the world It delves into the steady state transients control and design of claw pole rotor synchronous induction permanent magnet assisted synchronous and switched reluctance starter alternators for hybrid electric vehicles It also discusses PM synchronous transverse flux PM and flux reversal PM generators for low speed wind and hydro energy conversion as well as linear motion alternators for residential and spacecraft applications Numerous design and control examples illustrate the discussion 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 Variable

Speed Generators supplies the tools necessary to design validate and deploy the right power generation technologies to fulfill tomorrow's complex energy needs *Electric Drives* Ion Boldea, Syed A. Nasar, 2016-09-15 *Electric Drives* provides a practical understanding of the subtleties involved in the operation of modern electric drives The Third Edition of this bestselling textbook has been fully updated and greatly expanded to incorporate the latest technologies used to save energy and increase productivity stability and reliability Every phrase equation number and reference in the text has been revisited with the necessary changes made throughout In addition new references to key research and development activities have been included to accurately reflect the current state of the art Nearly 120 new pages covering recent advances such as those made in the sensorless control of A C motor drives have been added as have two new chapters on advanced scalar control and multiphase electric machine drives All solved numerical examples have been retained and the 10 MATLAB Simulink programs remain online Thus *Electric Drives* Third Edition offers an up to date synthesis of the basic and advanced control of electric drives with ample material for a two semester course at the university level **Modeling and Simulation for**

**Electric Vehicle Applications** Mohamed Amine Fakhfakh, 2016-10-05 The book presents interesting topics from the area of modeling and simulation of electric vehicles application The results presented by the authors of the book chapters are very interesting and inspiring The book will familiarize the readers with the solutions and enable the readers to enlarge them by their own research It will be useful for students of Electrical Engineering it helps them solve practical problems *Electric Generators Handbook - Two Volume Set* Ion Boldea, 2018-10-08 *Electric Generators Handbook* Second Edition Two Volume Set supplies state of the art tools necessary to design validate and deploy the right power generation technologies to fulfill tomorrow's complex energy needs The first volume Synchronous Generators explores 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 the Second Edition adds coverage of high power wind generators with fewer or no PMs PM assisted DC excited salient pole synchronous generators autonomous synchronous generators control line switching parameter identification for isolated grids synthetic back to back load testing with inverter supply and more The second volume Variable Speed Generators provides extensive coverage of variable speed generators in distributed generation and renewable energy applications around the world Numerous design and control examples illustrate the exposition Fully revised and updated to reflect the last decade's worth of progress in the field the Second Edition adds material on doubly fed induction generator control under unbalanced voltage sags and nonlinear loads interior permanent magnet claw pole alternator systems high power factor Vernier PM generators PM assisted reluctance synchronous motors generators for electric hybrid vehicles and more **Handbook of Research on Swarm Intelligence in Engineering** Bhattacharyya, Siddhartha, Dutta,

Paramartha, 2015-04-30 Swarm Intelligence has recently emerged as a next generation methodology belonging to the class of

evolutionary computing As a result scientists have been able to explain and understand real life processes and practices that previously remained unexplored The Handbook of Research on Swarm Intelligence in Engineering presents the latest research being conducted on diverse topics in intelligence technologies such as Swarm Intelligence Machine Intelligence Optical Engineering and Signal Processing with the goal of advancing knowledge and applications in this rapidly evolving field The enriched interdisciplinary contents of this book will be a subject of interest to the widest forum of faculties existing research communities and new research aspirants from a multitude of disciplines and trades

**Design, Power Electronics and Torque Control of Switched Reluctance Machines** Mircea Ruba, 2017 In the last decade increased tendency in the field of automotive industry was focused on the development of highly efficient and low cost electric propulsion systems to replace the existing internal combustion solutions The aim is to reduce the pollution due to carbon dioxide emissions into the air Several electric machine topologies with their power electronics control and supply units are continuously in the development process to reach the desired goal One such machine is the switched reluctance machine SRM reaching increased power density low cost and possibility of continuous operation despite fault occurrence Designing the machine choosing its power electronics and controlling the machine to diminish the negative effect of the torque ripples are key points in reaching the proper propulsion system The main topics presented in detail in this chapter are managing the reader's skills with an analytic design brevity presenting the machine's control strategies for instantaneous torque linearization and finally showing a power converter topology with increased performances in low voltage applications To be more close to such an application the exemplified machine is developed for a light electric vehicle for people with physical disabilities Operational skills of the machine will be validated based on complex simulations

**Control of Non-conventional Synchronous Motors** Jean-Paul Louis, 2013-02-04 Classical synchronous motors are the most effective device to drive industrial production systems and robots with precision and rapidity However numerous applications require efficient controls in non conventional situations Firstly this is the case with synchronous motors supplied by thyristor line commutated inverters or with synchronous motors with faults on one or several phases Secondly many drive systems use non conventional motors such as polyphase more than three phases synchronous motors synchronous motors with double excitation permanent magnet linear synchronous motors synchronous and switched reluctance motors stepping motors and piezoelectric motors This book presents efficient controls to improve the use of these non conventional motors

**Proceedings of Sixth International Congress on Information and Communication Technology** Xin-She Yang, Simon Sherratt, Nilanjan Dey, Amit Joshi, 2021-10-26 This book gathers selected high quality research papers presented at the Sixth International Congress on Information and Communication Technology held at Brunel University London on February 25-26 2021 It discusses emerging topics pertaining to information and communication technology ICT for managerial applications e governance e agriculture e education and computing technologies the Internet of Things IoT and e mining Written by respected experts and researchers

working on ICT the book offers a valuable asset for young researchers involved in advanced studies The book is presented in four volumes

**Advanced Technologies in Electric Vehicles** Vijayakumar Gali, Luciane Neves Canha, Mariana Resener, Bibiana Ferraz, Madisa V.G. Varaprasad, 2024-02-26 Advanced Technologies in Electric Vehicles Challenges and Future Research Developments discusses fundamental and advanced concepts challenges and future perspectives surrounding EVs Sections cover advances and long term challenges such as battery life span efficiency and power management systems In addition the book covers all aspects of the EV field including vehicle performance configuration control strategy design methodology modeling and simulation for different conventional and modern vehicles based on mathematical equations By tackling the fundamentals theory and design of conventional electric vehicles EVs hybrid electric vehicles HEVs and fuel cell vehicles FCVs this book presents a comprehensive reference Investment in hybrid and electric vehicle EV technology research has been increasing steadily in recent years both from governments and within companies The role of the combustion engine in causing climate change has put the automobile industry on a path of rapid evolution towards electric vehicles bringing experts with a range of backgrounds into the field Provides the latest advances in battery management systems to address power quality issues Explains step by step methodologies for the testing of EV battery systems Explores the technological options for charging systems and charging infrastructure

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

**Innovations in Electrical and Electronics Engineering** H. S. Saini, T. Srinivas, D. M. Vinod Kumar, K. S. Chandragupta Mauryan, 2020-03-23 This book is a collection of selected research papers presented at the International Conference on Innovations in Electrical and Electronics Engineering ICIEEE 2019 which was organized by the Guru Nanak Institutions Ibrahimpatnam Hyderabad Telangana India on July 26 27 2019 The book highlights the latest developments in electrical and electronics engineering especially in the areas of power systems power electronics control systems electrical machinery and renewable energy The solutions discussed here will encourage and inspire researchers industry professionals and policymakers to put these methods into practice

**Renewable Energy** Thomas Hammons, 2009-12-01 Renewable Energy is energy generated from natural resources such as sunlight wind rain tides and geothermal heat which are naturally replenished In 2008 about 18% of global final energy consumption came from

renewables with 13% coming from traditional biomass such as wood burning Hydroelectricity was the next largest renewable source providing 3% 15% of global electricity generation followed by solar hot water heating which contributed with 1 3% Modern technologies such as geothermal energy wind power solar power and ocean energy together provided some 0 8% of final energy consumption The book provides a forum for dissemination and exchange of up to date scientific information on theoretical generic and applied areas of knowledge The topics deal with new devices and circuits for energy systems photovoltaic and solar thermal wind energy systems tidal and wave energy fuel cell systems bio energy and geo energy sustainable energy resources and systems energy storage systems energy market management and economics off grid isolated energy systems energy in transportation systems energy resources for portable electronics intelligent energy power transmission distribution and inter connectors energy efficient utilization environmental issues energy harvesting nanotechnology in energy policy issues on renewable energy building design power electronics in energy conversion new materials for energy resources and RF and magnetic field energy devices Power Electronics Handbook Muhammad H. Rashid, 2011-01-13 Power electronics which is a rapidly growing area in terms of research and applications uses modern electronics technology to convert electric power from one form to another such as ac dc dc dc dc ac and ac ac with a variable output magnitude and frequency It has many applications in our every day life such as air conditioners electric cars sub way trains motor drives renewable energy sources and power supplies for computers This book covers all aspects of switching devices converter circuit topologies control techniques analytical methods and some examples of their applications Designed to appeal to a new generation of engineering professionals Power Electronics Handbook 3rd Edition features four new chapters covering renewable energy energy transmission energy storage as well as an introduction to Distributed and Cogeneration DCG technology including gas turbines gensets microturbines wind turbines variable speed generators photovoltaics and fuel cells has been gaining momentum for quite some time now smart grid technology With this book readers should be able to provide technical design leadership on assigned power electronics design projects and lead the design from the concept to production involving significant scope and complexity Contains 45 chapters covering all aspects of power electronics and its applications Three new chapters now including coverage Energy Sources Energy Storage and Electric Power Transmission Contributions from more than fifty leading experts spanning twelve different countries



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