

Control of Non-conventional Synchronous Motors



Edited by Jean-Paul Louis

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Control Of Non Conventional Synchronous Motors

Jinyue Yan



Control Of Non Conventional Synchronous Motors:

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.

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Control of Synchronous Motors Jean-Paul Louis, 2013-02-07 Synchronous motors are indubitably the most effective device to drive industrial production systems and robots with precision and rapidity. Their control law is thus critical for combining at the same time high productivity to reduced energy consumption. As far as possible, the control algorithms must exploit the properties of these actuators. Therefore, this work draws on well-adapted models resulting from the Park's transformation for both the most traditional machines with sinusoidal field distribution and for machines with non-sinusoidal field distribution which are more and more used in industry. Both conventional control strategies like vector control, either in the synchronous reference frame or in the rotor frame, and advanced control theories like direct control and predictive control are thoroughly presented. In this context, a significant place is reserved to sensorless control, which is an important and critical issue in tomorrow's motors.

Advanced Control of AC / DC Power Networks Abdelkrim Benchaib, 2015-08-26 The power engineering domain is facing huge challenges with an increasing interest in intermittent renewable energies which are imposing major technical limitations. Operating ever closer to their limits, the industry standard AC power grids are subject to instabilities. This book presents an insight into DC grid systems, offering interesting issues to well-controlled power grids in contrast to current AC systems which provide the simplest and most economic connection method for short distances.

Analysis and Design of

Multicell DC/DC Converters Using Vectorized Models Thierry Meynard, 2015-02-23 Shows how the concepts of vectorization and design masks can be used to help the designer in comparing different designs and making the right choices The book addresses series and parallel multicell conversion directly and the concepts can be generalized to describe other topologies

Power Electronics and Motor Drives Bogdan M. Wilamowski, J. David Irwin, 2018-10-03 The Industrial Electronics Handbook Second Edition combines traditional and newer more specialized knowledge that will help industrial electronics engineers develop practical solutions for the design and implementation of high power applications Embracing the broad technological scope of the field this collection explores fundamental areas including analog and digital circuits electronics electromagnetic machines signal processing and industrial control and communications systems It also facilitates the use of intelligent systems such as neural networks fuzzy systems and evolutionary methods in terms of a hierarchical structure that makes factory control and supervision more efficient by addressing the needs of all production components Enhancing its value this fully updated collection presents research and global trends as published in the IEEE Transactions on Industrial Electronics Journal one of the largest and most respected publications in the field Power Electronics and Motor Drives facilitates a necessary shift from low power electronics to the high power varieties used to control electromechanical systems and other industrial applications This volume of the handbook Focuses on special high power semiconductor devices Describes various electrical machines and motors their principles of operation and their limitations Covers power conversion and the high efficiency devices that perform the necessary switchover between AC and DC Explores very specialized electronic circuits for the efficient control of electric motors Details other applications of power electronics aside from electric motors including lighting renewable energy conversion and automotive electronics Addresses power electronics used in very high power electrical systems to transmit energy Other volumes in the set Fundamentals of Industrial Electronics Control and Mechatronics Industrial Communication Systems Intelligent Systems The Industrial Electronics Handbook - Five Volume Set Bogdan M. Wilamowski, J. David Irwin, 2011-03-04 Industrial electronics systems govern so many different functions that vary in complexity from the operation of relatively simple applications such as electric motors to that of more complicated machines and systems including robots and entire fabrication processes The Industrial Electronics Handbook Second Edition combines traditional and new **Controller Design for Industrial Applications** Arindam Mondal, Souvik Ganguli, 2025-05-28 Controller Design for Industrial Applications is essential for anyone looking to master the advanced techniques of intelligent controller design enabling you to effectively tackle the complexities of modern industrial processes and optimize performance in an ever evolving landscape Industrial processes are often complex and dynamic making it challenging to design controllers that can maintain stable and optimal operation Traditional controllers such as PID controllers have been widely used in industrial applications but have limitations in handling non linear and uncertain systems Intelligent controllers offer an alternative solution that can adapt to changing system dynamics and disturbances The use of

intelligent controllers in industrial applications has gained increasing attention in recent years with numerous successful implementations in various fields such as process control robotics control HVAC control power systems control and autonomous vehicle control However the design and implementation of intelligent controllers require careful consideration of hardware and software requirements as well as simulation and testing procedures to ensure reliable and safe operation In the rapidly evolving industrial landscape it is essential to develop advanced control techniques to enhance productivity minimize costs and ensure safety Traditional control methods often struggle to handle complex systems and unpredictable environments However with the emergence of intelligent control techniques there is a great opportunity to improve industrial automation and control systems

Controller Design for Industrial Applications aims to provide a comprehensive understanding of intelligent controller design for industrial applications from theoretical concepts to practical implementation It will cover the fundamental concepts of intelligent control theory and techniques their application in various industrial fields and practical implementation and design considerations

Electric Drives, Second Edition Ion Boldea, Syed A. Nasar, 2005-08-22 Electric drives are everywhere and with the looming promise of electric vehicles and renewable energy they will become more complex and the demands on their capabilities will continue to increase To keep up with these trends students require hands on knowledge and a keen understanding of the subtleties involved in the operation of modern electric drives The best selling first edition of Electric Drives provided such an understanding and this Second Edition offers the same approach with up to date coverage of all major types of electric drives both constant and variable speed This book provides a self contained treatment of low medium and large power drives illustrated by numerous application examples problems digital simulation results and test results for both steady state and dynamic operation This edition features updated material in every chapter including references new material on AC brush series motors capacitor split inductor motors single phase PMSMs and switched reluctance motors and tooth wound PMSMs all with numerical examples new case studies on AC synchronous and induction motors and a new chapter on control of electric generators The companion CD ROM features the full text class slides for instructors and MATLAB simulations of 10 closed loop drives two of which are new to this edition With a practical hands on approach Electric Drives Second Edition is the ideal textbook to help students design simulate build and test modern electric drives from simple to complex

From Smart Grids to Smart Cities Massimo La Scala, Sergio Bruno, Carlo Alberto Nucci, S. Lamonaca, Ugo Stecchi, 2021-04-27 This book addresses different algorithms and applications based on the theory of multiobjective goal attainment optimization In detail the authors show as the optimal asset of the energy hubs network which i meets the loads ii minimizes the energy costs and iii assures a robust and reliable operation of the multicarrier energy network can be formalized by a nonlinear constrained multiobjective optimization problem Since these design objectives conflict with each other the solution of such the optimal energy flow problem hasn t got a unique solution and a suitable trade off between the objectives should be identified A further

contribution of the book consists in presenting real world applications and results of the proposed methodologies developed by the authors in three research projects recently completed and characterized by actual implementation under an overall budget of about 23 million

The Proceedings of the 17th Annual Conference of China Electrotechnical Society Jian Li, Kaigui Xie, Jianlin Hu, Qingxin Yang, 2023-03-31 This book gathers outstanding papers presented at the 17th Annual Conference of China Electrotechnical Society organized by China Electrotechnical Society CES held in Beijing China from September 17 to 18 2022 It covers topics such as electrical technology power systems electromagnetic emission technology and electrical equipment It introduces the innovative solutions that combine ideas from multiple disciplines The book is very much helpful and useful for the researchers engineers practitioners research students and interested readers

Handbook of Clean Energy Systems, 6 Volume Set Jinyue Yan, 2015-06-22 The Handbook of Clean Energy Systems brings together an international team of experts to present a comprehensive overview of the latest research developments and practical applications throughout all areas of clean energy systems Consolidating information which is currently scattered across a wide variety of literature sources the handbook covers a broad range of topics in this interdisciplinary research field including both fossil and renewable energy systems The development of intelligent energy systems for efficient energy processes and mitigation technologies for the reduction of environmental pollutants is explored in depth and environmental social and economic impacts are also addressed Topics covered include Volume 1 Renewable Energy Biomass resources and biofuel production Bioenergy Utilization Solar Energy Wind Energy Geothermal Energy Tidal Energy Volume 2 Clean Energy Conversion Technologies Steam Vapor Power Generation Gas Turbines Power Generation Reciprocating Engines Fuel Cells Cogeneration and Polygeneration Volume 3 Mitigation Technologies Carbon Capture Negative Emissions System Carbon Transportation Carbon Storage Emission Mitigation Technologies Efficiency Improvements and Waste Management Waste to Energy Volume 4 Intelligent Energy Systems Future Electricity Markets Diagnostic and Control of Energy Systems New Electric Transmission Systems Smart Grid and Modern Electrical Systems Energy Efficiency of Municipal Energy Systems Energy Efficiency of Industrial Energy Systems Consumer Behaviors Load Control and Management Electric Car and Hybrid Car Energy Efficiency Improvement Volume 5 Energy Storage Thermal Energy Storage Chemical Storage Mechanical Storage Electrochemical Storage Integrated Storage Systems Volume 6 Sustainability of Energy Systems Sustainability Indicators Evaluation Criteria and Reporting Regulation and Policy Finance and Investment Emission Trading Modeling and Analysis of Energy Systems Energy vs Development Low Carbon Economy Energy Efficiencies and Emission Reduction Key features Comprising over 3 500 pages in 6 volumes HCES presents a comprehensive overview of the latest research developments and practical applications throughout all areas of clean energy systems consolidating a wealth of information which is currently scattered across a wide variety of literature sources In addition to renewable energy systems HCES also covers processes for the efficient and clean conversion of traditional fuels such as coal oil and gas energy storage systems

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Modular Multilevel Converters with Interleaved Half-Bridge Submodules Aleksandr Viatkin, 2023-03-29 This book reports on a comprehensive study on a novel high power converter i e a Modular Multilevel Converter with Interleaved Half bridge Submodules ISM MMC It describes in depth its average model the operating principles as well as a new control method and a hybrid modulation strategy that help to exploit the benefits of the interleaving scheme The new power converter is particularly advantageous for high current applications that require superb quality of input output waveforms Moreover this book reports on a systematic study of the current balancing problem between parallel connected units that commute in non simultaneous fashion This is a typical issue in interleaved converters however here it is analyzed for the first time in relation to MMC based structures Two control strategies are proposed to cope with this matter By using a sensorless regulation scheme the number of required current transducers has been minimized reducing complexity cost and footprint of the hardware while providing converter with a fast and accurate current balancing This book also offers a comprehensive comparison between several practical designs of ISM MMC and classical MMC for an ultra fast electrical vehicle charger All in all it provides graduate students and researchers as well as field engineers and professionals with extensive information and essential practical details on the state of the art MMC and ISM MMC design *Solved Papers (2023-24 RRB ALP ITI Electrical Trade)* YCT Expert Team , 2023 24 RRB ALP ITI Electrical Trade Solved Papers **Advanced Smartgrids for Distribution System Operators, Volume 1** Marc Boillot, 2014-12-03 The dynamic of the Energy Transition is engaged in many region of the World This is a real challenge for electric systems and a paradigm shift for existing distribution networks With the help of advanced smart technologies the Distribution System Operators will have a central role to integrate massively renewable generation electric vehicle and demand response programs Many projects are on going to develop and assess advanced smart grids solutions with already some lessons learnt In the end the Smart Grid is a mean for Distribution System Operators to ensure the quality and the security of power supply Several books have been written to provide a definition of Smart grids explore the different technical evolution needed and explain analyse what would be the benefits All those books are conducted on theoretical basis by academics and strategy consultants This new book will propose a complementary and singular approach based on a practical experience from DSO s Smart Grid Opportunities and Challenges in Integrating Renewable Energies Muhammad Faizan Tahir, Salah Kamel, Jose Luis Domínguez-García, Khalid Mehmood Cheema, Kashif Mehmood, 2023-06-27 *Power Semiconductor Drives* S. Sivanagaraju, 2009-12 The book is

primarily intended for B E B Tech students of Electrical Engineering Electrical and Electronics Engineering having courses in Electric Drives Power Semiconductor Drives It will also be highly useful for M E M Tech students of these disciplines specializing in Power Electronics Industrial Drives Electric Drives The text is divided into eight chapters The first two chapters cover the control of dc motors by using various kinds of converters The third chapter focuses on dual converters and various braking techniques Chopper control fed dc motors are discussed in the fourth chapter The next three chapters are devoted to control methods for induction motors The eighth chapter deals with the control of synchronous motor drives fed from VSI converters and cycloconverters

Computational Intelligence Methods for Green Technology and Sustainable Development Yo-Ping Huang, Wen-June Wang, Hieu-Giang Le, An-Quoc Hoang, 2024-12-23 This book is presented in two volumes featuring peer reviewed research papers from the 7th International Conference on Green Technology and Sustainable Development GTSD held in Ho Chi Minh City Vietnam from July 25 to 26 2024 It highlights original research by experts from both academia and industry centered on the theme of Green Technology and Sustainable Development in the Industrial Revolution 4 0 The book underscores the critical importance of sustainability in education technology and economic development while also showcasing the vital role of technological innovation in creating a greener future The papers documented in this book cover a broad range of topics including renewable energy systems smart grids artificial intelligence robotics and intelligent systems and computational intelligence all with a focus on sustainable development climate change mitigation and environmental policy These studies showcase cutting edge technologies and innovative ideas related to green technology offering actionable insights for advancing sustainable development across various sectors The authors present research based on both experimental and numerical methods offering solutions to current problems and optimizing existing methods The insights and findings provided are valuable for industry experts research institutions universities and anyone interested in advancing global sustainable development

Analysis Of Thyristor Power-Conditioned Motors S.K. Pillai, This book presents systematically the basic methods of analysis of analysis of both DC and AC motors fed from elementary configurations of commonly used power converters The methods of determining both steady state and transient performance have been discussed

ELECTRICAL MACHINES M. RAMAMOORTHY, O. CHANDRA SEKHAR, 2017-11-01 This book covers a brief history of electricity fundamentals of electrostatic and electromagnetic fields torque generation magnetic circuits and detailed performance analysis of transformers and rotating machines It also discusses the concept of generalised machine which can emulate the dynamic and steady state performance of DC and AC machines To serve the specific applications of drive systems in industries many new types of motors are developed in the last few decades A separate chapter on Special Machines is included in this book so that the students should be made aware of these new developments The book covers the syllabi of many universities in India for a course in Electrical Machines Therefore this book would serve the needs of the undergraduate students of Electrical Engineering

Compressors Royce N. Brown, 1997 This practical reference provides in depth information required to understand and properly estimate compressor capabilities and to select the proper designs The many examples clearly illustrate key aspects to help readers understand the real world of compressor technology *Compressors Selection and Sizing* Third Edition is completely updated with new API standards The latest technology is presented in the areas of efficiency 3 D geometry electronics and CAD The critical chapter on negotiating the purchase of a compressor now reflects current industry practices for preparing detailed specifications bid evaluations engineering reviews and installation Book jacket

Whispering the Techniques of Language: An Mental Journey through **Control Of Non Conventional Synchronous Motors**

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