

Control of Electric Machine Drive Systems

SEUNG-KI SUL







Control Of Electric Machine Drive Systems

Ned Mohan

Control Of Electric Machine Drive Systems:

Control of Electric Machine Drive Systems Seung-Ki Sul, 2011-04-20 A unique approach to sensorless control and regulator design of electric drives Based on the author's vast industry experience and collaborative works with other industries Control of Electric Machine Drive Systems is packed with tested implemented and verified ideas that engineers can apply to everyday problems in the field Originally published in Korean as a textbook this highly practical updated version features the latest information on the control of electric machines and apparatus as well as a new chapter on sensorless control of AC machines a topic not covered in any other publication. The book begins by explaining the features of the electric drive system and trends of development in related technologies as well as the basic structure and operation principles of the electric machine It also addresses steady state characteristics and control of the machines and the transformation of physical variables of AC machines using reference frame theory in order to provide a proper foundation for the material The heart of the book reviews several control algorithms of electric machines and power converters explaining active damping and how to regulate current speed and position in a feedback manner Seung Ki Sul introduces tricks to enhance the control performance of the electric machines and the algorithm to detect the phase angle of an AC source and to control DC link voltages of power converters Topics also covered are Vector control Control algorithms for position speed sensorless drive of AC machines Methods for identifying the parameters of electric machines and power converters. The matrix algebra to model a three phase AC machine in d q n axes Every chapter features exercise problems drawn from actual industry experience The book also includes more than 300 figures and offers access to an FTP site which provides MATLAB programs for selected problems The book s practicality and realworld relatability make it an invaluable resource for professionals and engineers involved in the research and development of electric machine drive business industrial drive designers and senior undergraduate and graduate students To obtain instructor materials please send an email to pressbooks ieee org To visit this book s FTP site to download MATLAB codes please click on this link ftp ftp wiley com public sci tech med electric machine MATLAB codes are also downloadable from Wiley Booksupport Site at http booksupport wiley com **Electrical Machine Drives Control** Juha Pyrhonen, Valeria Hrabovcova, R. Scott Semken, 2016-10-10 This comprehensive text examines existing and emerging electrical drive technologies. The authors clearly define the most basic electrical drive concepts and go on to explain the most important details while maintaining a solid connection to the theory and design of the associated electrical machines Also including links to a number of industrial applications the authors take their investigation of electrical drives beyond theory to examine a number of practical aspects of electrical drive control and application Key features Provides a comprehensive summary of all aspects of controlled speed electrical drive technology including control and operation Handling of electrical drives is solidly linked to the theory and design of the associated electrical machines Added insight into problems and functions are illustrated with clearly understandable figures Offers an understanding of the main phenomena associated with

electrical machine drives Considers the problem of bearing currents and voltage stresses of an electrical drive Includes up to date theory and design guidelines taking into account the most recent advances This book s rigorous coverage of theoretical principles and techniques makes for an excellent introduction to controlled speed electrical drive technologies for Electrical Engineering MSc or PhD students studying electrical drives It also serves as an excellent reference for practicing electrical engineers looking to carry out design analyses and development of controlled speed electrical drives Machinery and Drive Systems Paul C. Krause, Oleg Wasynczuk, Scott D. Sudhoff, 2002-03-05 This title deals with the design aspect of machinery It provides a cookbook of application rules needed to ensure the successful applications of electric machinery The subjects cover electromagnetic devices which are used in present day drive and control systems of Electric Machine Drive Systems Zachary R. Gordon, 2015-08-27 This updated and expanded second edition of the Control of Electric Machine Drive Systems IEEE Press Series on Power Engineerin provides a user friendly introduction to the subject Taking a clear structural framework it guides the reader through the subject s core elements A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts This succinct and enlightening overview is a required reading for all those interested in the subject We hope you find this book useful in shaping your future career Business **Control of Electrical Drives** Werner Leonhard, 2012-12-06 Electrical drives play an important part as electromechanical energy converters in transportation materials handling and most production processes This book presents a unified treatment of complete electrical drive systems including the mechanical parts electrical machines and power converters and control Since it was first published in 1985 the book has found its way onto many desks in industry and universities all over the world For the second edition the text has been thoroughly revised and updated with the aim of offering the reader a general view of the field of controlled electrial drives which are maintaining and extending their importance as the most flexible source of controlled mechanical Analysis and Control of Electric Drives Ned Mohan, Siddharth Raju, 2020-08-27 A guide to drives essential to energy electric vehicles wind turbines and other motor driven systems Analysis and Control of Electric Drives is a practical and comprehensive text that offers a clear understanding of electric drives and their industrial applications in the real world including electric vehicles and wind turbines The authors noted experts on the topic review the basic knowledge needed to understand electric drives and include the pertinent material that examines DC and AC machines in steady state using a unique physics based approach The book also analyzes electric machine operation under dynamic conditions assisted by Space Vectors The book is filled with illustrative examples and includes information on electric machines with Interior Permanent Magnets To enhance learning the book contains end of chapter problems and all topics covered use computer simulations with MATLAB Simulink and Sciamble Workbench software that is available free online for educational purposes This important book Explores additional topics such as electric machines with Interior Permanent Magnets Includes multiple

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Motor Drive Systems is designed to aid electrical engineers researchers and students to analyze and address common problems in state of the art power electronics technologies Author Stefanos Manias supplies a detailed discussion of the theory of power electronics circuits and electronic power conversion technology systems with common problems and methods of analysis to critically evaluate results These theories are reinforced by simulation examples using well known and widely available software programs including SPICE PSIM and MATLAB SIMULINK Manias expertly analyzes power electronic circuits with basic power semiconductor devices as well as the new power electronic converters He also clearly and comprehensively provides an analysis of modulation and output voltage current control techniques passive and active filtering and the characteristics and gating circuits of different power semiconductor switches such as BJTs IGBTs MOSFETs IGCTs MCTs and GTOs Includes step by step analysis of power electronic systems Reinforced by simulation examples using SPICE PSIM and MATLAB SIMULINK Provides 110 common problems and solutions in power electronics technologies

Advanced Electrical Drives Rik W. De Doncker, Duco W.J. Pulle, André Veltman, 2020-08-21 This book provides a unique approach to derive model based torque controllers for all types of Lorentz force machines i e DC synchronous and induction machines The rotating transformer model forms the basis for the generalized modeling approach of rotating field machines which leads to the development of universal field oriented control algorithms Contrary to this direct torque control algorithms using observer based methods are developed for switched reluctance machines Tutorials are included at the end of each chapter and the reader is encouraged to execute these tutorials in order to gain familiarity with the dynamic behavior of drive systems This updated edition uses PLECS simulation and vector processing tools that were specifically adopted for the purpose of these hands on tutorials Hence Advanced Electrical Drives encourages learning by doing and the experienced drive specialist may find the simulation tools useful to design high performance torque controllers Although it is a powerful reference in its own right when used in conjunction with the companion texts Fundamentals of Electrical Drives and Applied Control of Electrical Drives this book provides a uniquely comprehensive reference set that takes readers all the way from understanding the basics of how electrical drives work to deep familiarity with advanced features and models to a mastery of applying the concepts to actual hardware in practice Teaches readers to perform insightful analysis of AC electrical machines and drives Introduces new modeling methods and modern control techniques for switched reluctance drives Updated to use PLECS simulation tools for modeling electrical drives including new and more experimental results Numerous tutorials at end of each chapter to learn by doing step by step Includes extra material featuring build and play lab modules for lectures and self study 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 **Electric Machines and Drives** Shaahin Filizadeh, 2017-03-29 Electric machines have a ubiquitous presence in our modern daily lives from the generators that supply electricity to motors of all sizes that power countless applications Providing a balanced treatment of the subject Electric Machines and Drives Principles Control Modeling and Simulation takes a ground up approach that emphasizes fundamental principles The author carefully deploys physical insight mathematical rigor and computer simulation to clearly and effectively present electric machines and drive systems Detailing the fundamental principles that govern electric machines and drives systems this book Describes the laws of induction and interaction and demonstrates their fundamental roles with numerous examples Explores dc machines and their principles of operation Discusses a simple dynamic model used to develop speed and torque control strategies Presents modeling steady state based drives and high performance drives for induction machines highlighting the underlying physics of the machine Includes coverage of modeling and high performance control of permanent magnet synchronous machines Highlights the elements of power electronics used in electric drive systems Examines simulation based optimal design and numerical simulation of dynamical systems Suitable for a one semester class at the senior undergraduate or a graduate level the text supplies simulation cases that can be used as a base and can be supplemented through simulation assignments and small projects It includes end of chapter problems designed to pick up on the points presented in chapters and develop them further or introduce additional aspects The book provides an understanding of the fundamental laws of physics upon which electric machines operate allowing students to master the mathematical skills that their modeling and analysis requires

Electrical Machines and Drive Systems Alexandru Fransua, Răzvan Măgureanu, 1984 Electric Machines and Drives Ned Mohan, 2012-04-13 This book is part of a three book series Ned Mohan has been a leader in EES education and research for decades as author of the best selling text reference Power Electronics This book emphasizes applications of electric machines and drives that are essential for wind turbines and electric and hybrid electric vehicles The approach taken is unique in the following respects A systems approach where Electric Machines are covered in the context of the overall drives with applications that students can appreciate and get enthusiastic about A fundamental and physics based approach that not only teaches the analysis of electric machines and drives but also prepares students for learning how to control them in a graduate level course Use of the space vector theory that is made easy to understand They are introduced in this book in such a way that students can appreciate their physical basis A unique way to describe induction machines that clearly shows how they go from the motoring mode to the generating mode for example in wind and electric vehicle applications and how they ought to be controlled for the most efficient operation Electric Motor Drives Ramu Krishnan, 2015 Chaos in Electric Drive Systems K. T. Chau, Zheng Wang, 2011-03-31 In Chaos in Electric Drive Systems Analysis Control and

Application authors Chau and Wang systematically introduce an emerging technology of electrical engineering that bridges abstract chaos theory and practical electric drives The authors consolidate all important information in this interdisciplinary technology including the fundamental concepts mathematical modeling theoretical analysis computer simulation and hardware implementation The book provides comprehensive coverage of chaos in electric drive systems with three main parts analysis control and application Corresponding drive systems range from the simplest to the latest types DC induction synchronous reluctance switched reluctance and permanent magnet brushless drives The first book to comprehensively treat chaos in electric drive systems Reviews chaos in various electrical engineering technologies and drive systems Presents innovative approaches to stabilize and stimulate chaos in typical drives Discusses practical application of chaos stabilization chaotic modulation and chaotic motion Authored by well known scientists in the field Lecture materials available from the book s companion website This book is ideal for researchers and graduate students who specialize in electric drives mechatronics and electric machinery as well as those enrolled in classes covering advanced topics in electric drives and control Engineers and product designers in industrial electronics consumer electronics electric appliances and electric vehicles will also find this book helpful in applying these emerging techniques Lecture materials for instructors available at www wiley com go chau chaos Electric Drives and Electromechanical Systems Richard Crowder, 2006-02-02 The focus of this book on the selection and application of electrical drives and control systems for electromechanical and mechatronics applications makes it uniquely useful for engineers in industry working with machines and drives It also serves as a student text for courses on motors and drives and engineering design courses especially within mechanical engineering and mechatronics degree programs The criteria for motor drive selection are explained and the main types of drives available to drive machine tools and robots introduced The author also provides a review of control systems and their application including PLCs and network technologies The coverage of machine tools and high performance drives in smaller applications makes this a highly practical book focused on the needs of students and engineers working with electromechanical systems An invaluable survey of electric drives and control systems for electromechanical and mechatronics applications Essential reading for electrical and mechanical engineers using motors and drives An ideal electric motors and drives text for university courses including mechatronics Electrical Machines, Drives, and Power Systems Théodore Wildi, 2002 This best selling text takes on a theoretical practical and multidisciplinary approach to provide readers with a thorough understanding of modern electric power The extensive coverage of a wide range of topics the liberal use of excellent illustrations and photographs the real world orientation to practical issues and the clear reader friendly writing style are only a few of the outstanding features that contribute to the book s success and popularity New to this edition is a chapter on programmable logic controllers It covers the basic principles of PLCs and shows by way of example how they are used in running the activities of a large service enterprise Trend setting computer based activities involving controls and automation

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