

Editor **Fouad Giri**

AC Electric Motors Control

Advanced Design Techniques
and Applications



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Ac Electric Motors Control Advanced Design Techniques And Applications

**Alain Glumineau, Jesús de Leon
Morales**



Ac Electric Motors Control Advanced Design Techniques And Applications:

AC Electric Motors Control Fouad Giri, 2013-05-28 The complexity of AC motor control lies in the multivariable and nonlinear nature of AC machine dynamics. Recent advancements in control theory now make it possible to deal with long standing problems in AC motors control. This text expertly draws on these developments to apply a wide range of model based control design methods to a variety of AC motors. Contributions from over thirty top researchers explain how modern control design methods can be used to achieve tight speed regulation, optimal energetic efficiency and operation reliability and safety by considering online state variable estimation in the absence of mechanical sensors, power factor correction, machine flux optimization, fault detection and isolation and fault tolerant control. Describing the complete control approach, both controller and observer designs are demonstrated using advanced nonlinear methods. Stability and performance are analysed using powerful techniques including implementation considerations using digital computing means. Other key features: Covers the main types of AC motors including triphase, multiphase and doubly fed induction motors, wound rotor, permanent magnet and interior PM synchronous motors. Illustrates the usefulness of the advanced control methods via industrial applications including electric vehicles, high speed trains, steel mills and more. Includes special focus on sensorless nonlinear observers, adaptive and robust nonlinear controllers, output feedback controllers, fault detection and isolation algorithms and fault tolerant controllers. This comprehensive volume provides researchers and designers and R D engineers with a single source reference on AC motor system drives in the automotive and transportation industry. It will also appeal to advanced students in automatic control, electrical power systems, mechanical engineering and robotics as well as mechatronic process and applied control system engineers.

Sensorless AC Electric Motor Control Alain Glumineau, Jesús de Leon Morales, 2015-03-16 This monograph shows the reader how to avoid the burdens of sensor cost, reduced internal physical space and system complexity in the control of AC motors. Many applications fields: electric vehicles, wind and wave energy converters and robotics among them will benefit. Sensorless AC Electric Motor Control describes the elimination of physical sensors and their replacement with observers, i.e. software sensors. Robustness is introduced to overcome problems associated with the unavoidable imperfection of knowledge of machine parameters: resistance, inertia and so on encountered in real systems. The details of a large number of speed and/or position sensorless ideas for different types of permanent magnet synchronous motors and induction motors are presented along with several novel observer designs for electrical machines. Control strategies are developed using high order sliding mode and quasi continuous sliding mode techniques and two types of observer controller schemes based on backstepping and sliding mode techniques are described. Experimental results validate the performance of these observer and controller configurations with test trajectories of significance in difficult sensorless AC machine problems. Control engineers working with AC motors in a variety of industrial environments will find the space and cost saving ideas detailed in Sensorless AC Electric Motor Control of much interest. Academic researchers and

graduate students from electrical mechanical and control engineering backgrounds will be able to see how advanced theoretical control can be applied in meaningful real systems

AC Electric Motors Control Fouad Giri, 2013-03-25 The complexity of AC motor control lies in the multivariable and nonlinear nature of AC machine dynamics Recent advancements in control theory now make it possible to deal with long standing problems in AC motors control This text expertly draws on these developments to apply a wide range of model based control design methods to a variety of AC motors Contributions from over thirty top researchers explain how modern control design methods can be used to achieve tight speed regulation optimal energetic efficiency and operation reliability and safety by considering online state variable estimation in the absence of mechanical sensors power factor correction machine flux optimization fault detection and isolation and fault tolerant control Describing the complete control approach both controller and observer designs are demonstrated using advanced nonlinear methods stability and performance are analysed using powerful techniques including implementation considerations using digital computing means Other key features Covers the main types of AC motors including triphase multiphase and doubly fed induction motors wound rotor permanent magnet and interior PM synchronous motors Illustrates the usefulness of the advanced control methods via industrial applications including electric vehicles high speed trains steel mills and more Includes special focus on sensorless nonlinear observers adaptive and robust nonlinear controllers output feedback controllers fault detection and isolation algorithms and fault tolerant controllers This comprehensive volume provides researchers and designers and R D engineers with a single source reference on AC motor system drives in the automotive and transportation industry It will also appeal to advanced students in automatic control electrical power systems mechanical engineering and robotics as well as mechatronic process and applied control system engineers

Induction Motors - Recent Advances, New Perspectives and Applications Adel El-Shahat, 2023-09-13 The induction motor is one of the most significant innovations in contemporary history and it officially kicked off the Second Industrial Revolution by significantly enhancing energy generation efficiency Induction motors are utilized in a wide variety of applications in the modern industrial world Motivated by the importance of recent advances new perspectives and applications of induction motors this book presents research from distinguished experts in the field It addresses recent advances in induction motors optimal solutions in field oriented control the association of converters to induction motors dynamic analysis optimized design of synergetic control fault tolerant control mathematical modeling an adaptive system scheme for a sensorless drive modeling and simulation of a system with inter turn faults sensorless speed observer for industrial drives and induction motor applications in electric vehicles This book is useful for undergraduates graduate students researchers professors and field engineers due to its combination of both theoretical coverage and real world application concepts

Backstepping Control of Nonlinear Dynamical Systems Sundarapandian Vaidyanathan, Ahmad Taher Azar, 2020-08-15 Backstepping Control of Nonlinear Dynamical Systems addresses both the fundamentals of backstepping control and advances in the field

The latest techniques explored include active backstepping control adaptive backstepping control fuzzy backstepping control and adaptive fuzzy backstepping control The reference book provides numerous simulations using MATLAB and circuit design These illustrate the main results of theory and applications of backstepping control of nonlinear control systems Backstepping control encompasses varied aspects of mechanical engineering and has many different applications within the field For example the book covers aspects related to robot manipulators aircraft flight control systems power systems mechanical systems biological systems and chaotic systems This multifaceted view of subject areas means that this useful reference resource will be ideal for a large cross section of the mechanical engineering community Details the real world applications of backstepping control Gives an up to date insight into the theory uses and application of backstepping control Bridges the gaps for different fields of engineering including mechanical engineering aeronautical engineering electrical engineering communications engineering robotics and biomedical instrumentation

Renewable Energy Systems Ahmad Taher Azar, Nashwa Ahmad Kamal, 2021-09-09 Renewable Energy Systems Modelling Optimization and Control aims to cross pollinate recent advances in the study of renewable energy control systems by bringing together diverse scientific breakthroughs on the modeling control and optimization of renewable energy systems by leading researchers The book brings together the most comprehensive collection of modeling control theorems and optimization techniques to help solve many scientific issues for researchers in renewable energy and control engineering Many multidisciplinary applications are discussed including new fundamentals modeling analysis design realization and experimental results The book also covers new circuits and systems to help researchers solve many nonlinear problems This book fills the gaps between different interdisciplinary applications ranging from mathematical concepts modeling and analysis up to the realization and experimental work Covers modeling control theorems and optimization techniques which will solve many scientific issues for researchers in renewable energy Discusses many multidisciplinary applications with new fundamentals modeling analysis design realization and experimental results Includes new circuits and systems helping researchers solve many nonlinear problems

Innovations in Smart Cities Applications Edition 2 Mohamed Ben Ahmed, Anouar Abdelhakim Boudhir, Ali Younes, 2019-02-06 This book highlights cutting edge research presented at the third installment of the International Conference on Smart City Applications SCA2018 held in T touan Morocco on October 10 11 2018 It presents original research results new ideas and practical lessons learned that touch on all aspects of smart city applications The respective papers share new and highly original results by leading experts on IoT Big Data and Cloud technologies and address a broad range of key challenges in smart cities including Smart Education and Intelligent Learning Systems Smart Healthcare Smart Building and Home Automation Smart Environment and Smart Agriculture Smart Economy and Digital Business and Information Technologies and Computer Science among others In addition various novel proposals regarding smart cities are discussed Gathering peer reviewed chapters written by prominent researchers from around the globe the book offers an

invaluable instructional and research tool for courses on computer and urban sciences students and practitioners in computer science information science technology studies and urban management studies will find it particularly useful Further the book is an excellent reference guide for professionals and researchers working in mobility education governance energy the environment and computer sciences

Advances in Condition Monitoring of Machinery in Non-Stationary Operations Fakher Chaari,Radoslaw Zimroz,Walter Bartelmus,Mohamed Haddar,2015-07-16 The book provides readers with a snapshot of recent research and technological trends in the field of condition monitoring of machinery working under a broad range of operating conditions Each chapter accepted after a rigorous peer review process reports on an original piece of work presented and discussed at the 4th International Conference on Condition Monitoring of Machinery in Non stationary Operations CMMNO 2014 held on December 15 16 2014 in Lyon France The contributions have been grouped into three different sections according to the main subfield signal processing data mining or condition monitoring techniques they are related to The book includes both theoretical developments as well as a number of industrial case studies in different areas including but not limited to noise and vibration vibro acoustic diagnosis signal processing techniques diagnostic data analysis instantaneous speed identification monitoring and diagnostic systems and dynamic and fault modeling This book not only provides a valuable resource for both academics and professionals in the field of condition monitoring it also aims at facilitating communication and collaboration between the two groups

Interactive Collaborative Robotics Andrey Ronzhin,Aminagha Sadigov,Roman Meshcheryakov,2023-09-04 This book constitutes the refereed proceedings of the 8th International Conference on Interactive Collaborative Robotics ICR 2023 held in Baku Azerbaijan during October 25 29 2023 The 33 full papers included in this book were carefully reviewed and selected from 56 submissions They were organized in topical sections as follows focused the foundations and means of collaborative behavior of one or more robots physically interacting with hu mans in operational environments configured with embedded sensor networks and cloud services under uncertainty and environmental variability

Rail Transport—Systems Approach Aleksander Ślaskowski,2017-03-08 This book shows how the systems approach is employed by scientists in various countries to solve specific problems concerning railway transport In particular the book describes the experiences of scientists from Romania Germany the Czech Republic the UK Russia Ukraine Lithuania and Poland For many of these countries there is a problem with the historical differences between the railways In particular there are railways with different rail gauges with different signaling and communication systems with different energy supplies and finally with different political systems which are reflected in the different approaches to the management of railway economies The book s content is divided into two main parts the first of which provides a systematic analysis of individual means of providing and maintaining rail transport In turn the second part addresses infrastructure and management development with particular attention to security issues Though primarily written for professionals involved in various problems concerning railway transport the book will also benefit manufacturers railway

technical staff managers and students with transport specialties as well as a wide range of readers interested in learning more about the current state of transport in different countries The AUN/SEED-Net Joint Regional Conference in Transportation, Energy, and Mechanical Manufacturing Engineering Anh-Tuan Le, Van-Sang Pham, Minh-Quy Le, Hoang-Luong Pham, 2022-05-31 This book The AUN SEED Net Joint Regional Conference in Transportation Energy and Mechanical Manufacturing Engineering gathers selected papers submitted to the 14th Regional Conference in Energy Engineering and the 13th Regional Conference in Mechanical Manufacturing Engineering in the fields related to intelligent equipment automotive engineering mechanical systems and sustainable manufacturing renewable energy heat and mass transfer Under the theme of Integration and Innovation for Sustainable Development This book consists of papers in the aforementioned fields presented by researchers and scientists from universities research institutes and industry showcasing their latest findings and discussions with an emphasis on innovations and developments in embracing the new norm resulting from the COVID 19 pandemic EDN, 1982 Video Source Book Gale Group, 1999-10-28 A guide to programs currently available on video in the areas of movies entertainment general interest education sports recreation fine arts health science business industry children juvenile how to instruction **Handbook of Electric Motors** Richard H. Engelmann, William H. Middendorf, 1995 This handbook provides comprehensive coverage of every type of electric motor in use today from the generic forms of direct current induction and synchronous machines to permanent magnet DC motors linear induction motors and stepper motors Related topics such as finite element analysis control protection testing reliability maintenance specification procedures and environmental and mechanical factors are discussed *IEEE Region 6 Conference Record* Institute of Electrical and Electronics Engineers. Region 6, 1972 **Video Source Book**, 2006 A guide to programs currently available on video in the areas of movies entertainment general interest education sports recreation fine arts health science business industry children juvenile how to instruction *Power Electronics Technology and Applications II* Fred C. Lee, 1997 A sequel to *Power Electronics Technology and Applications* this text is targeted specifically towards the needs of practicing design engineers The focus is to provide the practicing engineer with up to date technology and emerging applications **Conference Record** Institute of Electrical and Electronics Engineers. Region Six, 1972 **General Catalog** Wayne State University, 1957 IECON '87 Martin F. Schlecht, 1987

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