

High Performance Control of AC Drives with Matlab/Simulink Models



High Performance Control Of Ac Drives With Matlab Simulink Models

Edgar N. Sanchez, Riemann Ruiz-Cruz



High Performance Control Of Ac Drives With Matlab Simulink Models:

High Performance Control of AC Drives with Matlab/Simulink Haitham Abu-Rub,Atif Iqbal,Jaroslav

Guzinski,2021-05-11 High Performance Control of AC Drives with Matlab Simulink Explore this indispensable update to a popular graduate text on electric drive techniques and the latest converters used in industry The Second Edition of High Performance Control of AC Drives with Matlab Simulink delivers an updated and thorough overview of topics central to the understanding of AC motor drive systems The book includes new material on medium voltage drives covering state of the art technologies and challenges in the industrial drive system as well as their components and control current source inverter based drives PWM techniques for multilevel inverters and low switching frequency modulation for voltage source inverters This book covers three phase and multiphase more than three phase motor drives including their control and practical problems faced in the field e g adding LC filters in the output of a feeding converter are considered The new edition contains links to Matlab Simulink models and PowerPoint slides ideal for teaching and understanding the material contained within the book Readers will also benefit from the inclusion of A thorough introduction to high performance drives including the challenges and requirements for electric drives and medium voltage industrial applications An exploration of mathematical and simulation models of AC machines including DC motors and squirrel cage induction motors A treatment of pulse width modulation of power electronic DC AC converter including the classification of PWM schemes for voltage source and current source inverters Examinations of harmonic injection PWM and field oriented control of AC machines Voltage source and current source inverter fed drives and their control Modelling and control of multiphase motor drive system Supported with a companion website hosting online resources Perfect for senior undergraduate MSc and PhD students in power electronics and electric drives High Performance Control of AC Drives with Matlab Simulink will also earn a place in the libraries of researchers working in the field of AC motor drives and power electronics engineers in industry High Performance

Control of AC Drives with Matlab / Simulink Models Haitham Abu-Rub,Atif Iqbal,Jaroslav Guzinski,2012-04-13 A

comprehensive guide to understanding AC machines with exhaustive simulation models to practice design and control Nearly seventy percent of the electricity generated worldwide is used by electrical motors Worldwide huge research efforts are being made to develop commercially viable three and multi phase motor drive systems that are economically and technically feasible Focusing on the most popular AC machines used in industry induction machine and permanent magnet synchronous machine this book illustrates advanced control techniques and topologies in practice and recently deployed Examples are drawn from important techniques including Vector Control Direct Torque Control Nonlinear Control Predictive Control multi phase drives and multilevel inverters Key features include systematic coverage of the advanced concepts of AC motor drives with and without output filter discussion on the modelling analysis and control of three and multi phase AC machine drives including the recently developed multi phase phase drive system and double fed induction machine description of model

predictive control applied to power converters and AC drives illustrated together with their simulation models end of chapter questions with answers and PowerPoint slides available on the companion website www.wiley.com/go/aburub_control This book integrates a diverse range of topics into one useful volume including most the latest developments It provides an effective guideline for students and professionals on many vital electric drives aspects It is an advanced textbook for final year undergraduate and graduate students and researchers in power electronics electric drives and motor control It is also a handy tool for specialists and practicing engineers wanting to develop and verify their own algorithms and techniques

Variable Speed AC Drives with Inverter Output Filters Jaroslaw Guzinski,Haitham Abu-Rub,Patryk

Strankowski,2015-09-08 The advance of variable speed drives systems VSDs engineering highlights the need of specific technical guidance provision by electrical machines and drives manufacturers so that such applications can be properly designed to present advantages in terms of both energy efficiency and expenditure This book presents problems and solutions related to inverter fed electrical motors Practically orientated the book describes the reasons theory and analysis of those problems Various solutions for individual problems are presented together with the complete design process modelling and simulation examples with MATLAB Simulink on the companion website A key focus of Variable Speed AC Drives with Inverter Output Filters is to examine the state variables estimation and motor control structures which have to be modified according to the used solution filter In most control systems the structure and parameters are taken into account to make it possible for precise control of the motor This methodology is able to include modifications and extensions depending on specific control and estimation structures Highly accessible this is an invaluable resource for practising R D engineers in drive companies power electronics control engineers and manufacturers of electrical drives Senior undergraduate and postgraduate students in electronics and control engineering will also find it of value **Inverters and AC Drives**

Narayanaswamy P.R. Iyer,2024-12-26 Successful development of power electronic converters and converter fed electric drives involves system modeling analyzing the output voltage current electromagnetic torque and machine speed and making necessary design changes before hardware implementation Inverters and AC Drives Control Modeling and Simulation Using Simulink offers readers Simulink models for single multi triangle carrier selective harmonic elimination and space vector PWM techniques for three phase two level multi level including modular multi level Z source Quasi Z source switched inductor switched capacitor and diode assisted extended boost inverters six step inverter fed permanent magnet synchronous motor PMSM brushless DC motor BLDCM and induction motor IM drives vector controlled PMSM IM drives direct torque controlled inverter fed IM drives and fuzzy logic controlled converter fed AC drives with several examples and case studies Appendices in the book include source codes for all relevant models model projects and answers to selected model projects from all chapters This textbook will be a valuable resource for upper level undergraduate and graduate students in electrical and electronics engineering power electronics and AC drives It is also a hands on reference for practicing engineers and

researchers in these areas *Feedback Control* Stephen J. Dodds, 2015-07-18 This book develops the understanding and skills needed to be able to tackle original control problems The general approach to a given control problem is to try the simplest tentative solution first and when this is insufficient to explain why and use a more sophisticated alternative to remedy the deficiency and achieve satisfactory performance This pattern of working gives readers a full understanding of different controllers and teaches them to make an informed choice between traditional controllers and more advanced modern alternatives in meeting the needs of a particular plant Attention is focused on the time domain covering model based linear and nonlinear forms of control together with robust control based on sliding modes and the use of state observers such as disturbance estimation Feedback Control is self contained paying much attention to explanations of underlying concepts with detailed mathematical derivations being employed where necessary Ample use is made of diagrams to aid these conceptual explanations and the subject matter is enlivened by continual use of examples and problems derived from real control applications Readers learning is further enhanced by experimenting with the fully commented MATLAB Simulink simulation environment made accessible at [insert URL here](#) to produce simulations relevant to all of the topics covered in the text A solutions manual for use by instructors adopting the book can also be downloaded from [insert URL here](#) Feedback Control is suitable as a main textbook for graduate and final year undergraduate courses containing control modules knowledge of ordinary linear differential equations Laplace transforms transfer functions poles and zeros root locus and elementary frequency response analysis and elementary feedback control is required It is also a useful reference source on control design methods for engineers practicing in industry and for academic control researchers **Soft Computing**

Systems Ivan Zelinka, Roman Senkerik, Ganapati Panda, Padma Suresh Lekshmi Kanthan, 2018-09-24 This book CCIS 837 constitutes the refereed proceedings of the Second International Conference on Soft Computing Systems ICSCS 2018 held in Sasthamcotta India in April 2018 The 87 full papers were carefully reviewed and selected from 439 submissions The papers are organized in topical sections on soft computing evolutionary algorithms image processing deep learning artificial intelligence big data analytics data mining machine learning VLSI cloud computing network communication power electronics green energy *Recent Advances in Power Electronics and Drives* Shailendra Kumar, Bhim Singh, Arun Kumar Singh, 2022-05-26 This book contains select proceedings of EPREC 2021 with a focus on power electronics and drives The book includes original research and case studies that present recent developments in power electronics focusing on power inverters and converters The book also consists of research work on electrical drives regulated power supplies operation of FACTS HVDC etc The book will be a valuable reference guide for beginners researchers and professionals interested in the advancements of power electronics and drives **Permanent Magnet Synchronous Machines** Sandra Eriksson, 2019-08-20 Interest in permanent magnet synchronous machines PMSMs is continuously increasing worldwide especially with the increased use of renewable energy and the electrification of transports This book contains the successful

submissions of fifteen papers to a Special Issue of Energies on the subject area of Permanent Magnet Synchronous Machines The focus is on permanent magnet synchronous machines and the electrical systems they are connected to The presented work represents a wide range of areas Studies of control systems both for permanent magnet synchronous machines and for brushless DC motors are presented and experimentally verified Design studies of generators for wind power wave power and hydro power are presented Finite element method simulations and analytical design methods are used The presented studies represent several of the different research fields on permanent magnet machines and electric drives

Swarm, Evolutionary, and Memetic Computing Bijaya Ketan Panigrahi, Ponnuthurai Nagaratnam Suganthan, Swagatam Das, Suresh Chandra Satapathy, 2016-11-30 This volume constitutes the thoroughly refereed post conference proceedings of the 6th International Conference on Swarm Evolutionary and Memetic Computing SEMCCO 2015 held in Hyderabad India in December 2015 The 23 full papers presented in this volume were carefully reviewed and selected from 40 submissions for inclusion in the proceedings The papers cover a wide range of topics in swarm evolutionary memetic and other intelligent computing algorithms and their real world applications in problems selected from diverse domains of science and engineering

Proceedings of the International Conference on Advanced Mechanical Engineering, Automation, and Sustainable Development 2021 (AMAS2021) Banh Tien Long, Hyung Sun Kim, Kozo Ishizaki, Nguyen Duc Toan, Ivan A. Parinov, Yun-Hea Kim, 2022-05-03 This book presents selected peer reviewed proceedings of the International Conference on Advanced Mechanical Engineering Automation and Sustainable Development 2021 AMAS2021 held in the city of Ha Long Vietnam from November 4 to 7 2021 AMAS2021 is a special meeting of the International Conference on Material Machines and Methods for Sustainable Development MMMS with a strong focus on automation and fostering an overall approach to assist policy makers industries and researchers at various levels to position local technological development toward sustainable development The contributions published in this book stem from a wide spectrum of research ranging from micro and nanomaterial design and processing to special applications in mechanical technology environmental protection green development and climate change mitigation A large group of contributions selected for these proceedings also focus on modeling and manufacturing of ecomaterials

Advances in Power Systems and Energy Management Amik Garg, Akash Kumar Bhoi, Padmanaban Sanjeevikumar, K. K. Kamani, 2017-11-28 This book is a collection of research articles and critical review articles describing the overall approach to energy management The book emphasizes the technical issues that drive energy efficiency in context of power systems This book contains case studies with and without solutions on modelling simulation and optimization techniques It covers some innovative topics such as medium voltage MV back to back BTB system cost optimization of a ring frame unit in textile industry rectenna for radio frequency RF energy harvesting ecology and energy dimension in infrastructural designs 2.4 kW three phase inverter for aircraft application study of automatic generation control AGC in a two area hydrothermal power system energy efficient and reliable depth based routing protocol

for underwater wireless sensor network and power line communication using LabVIEW This book is primarily targeted at researchers and senior graduate students but is also highly useful for the industry professional and scientists

Automation, Control and Energy Efficiency in Complex Systems Hamid Khayyam, 2020-12-22 This book is aimed at serving researchers engineers scientists and engineering graduate and PhD students of engineering and physical science together with individuals interested in engineering and science This book focuses on the application of engineering methods to complex systems including transportation building and manufacturing with approaches representing a wide variety of disciplines of engineering and science Throughout the book great emphases are placed on engineering applications of complex systems as well as the methodologies of automation including artificial intelligence automated and intelligent control energy analysis energy modelling energy management and optimised energy efficiency The significant impact of recent studies that have been selected for presentation are of high interest in engineering complex systems An attempt has been made to expose the reading audience of engineers and researchers to a broad range of theoretical and practical topics The topics contained in the present book are of specific interest to engineers who are seeking expertise in transportation building and manufacturing technologies as well as mathematical modelling of complex systems engineering approaches to engineering complex problems automation via artificial intelligence methods automated and intelligent control and energy systems The primary audience of this book are researchers graduate students and engineers in mechanical engineering control engineering computer engineering electrical engineering and science disciplines In particular the book can be used for training graduate and PhD students as well as senior undergraduate students to enhance their knowledge by taking a graduate or advanced undergraduate course in the areas of complex systems control systems energy systems and engineering applications The covered research topics are also of interest to engineers and academia who are seeking to expand their expertise in these areas

IMDC-IST 2021 Abd-Alhameed Raed, A. Al-Hussaibi 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

Power Electronics for Renewable Energy Systems, Transportation and Industrial Applications Haitham Abu-Rub, Mariusz Malinowski, Kamal Al-Haddad, 2014-06-02 Compiles current research into the analysis and design of power electronic converters for industrial applications and renewable energy systems presenting modern and future applications of power electronics systems in the field of electrical vehicles With emphasis on the importance and long term viability of Power Electronics for Renewable Energy this book brings together the state of the art knowledge and cutting edge techniques in various stages of research The topics included are not currently available for practicing professionals and aim to enable the reader to directly apply the knowledge gained to their designs The book addresses the practical issues of current and future electric and plug in hybrid electric vehicles PHEVs and focuses primarily on power electronics and motor drives based solutions for electric vehicle EV technologies Propulsion system requirements and motor sizing for EVs is discussed along with practical system sizing examples Key EV battery technologies are explained as well as corresponding battery management issues PHEV power system architectures and advanced power electronics intensive charging infrastructures for EVs and PHEVs are detailed EV PHEV interface with renewable energy is described with practical examples This book explores new topics for further research needed world wide and defines existing challenges concerns and selected problems that comply with international trends standards and programs for electric power conversion distribution and sustainable energy development It will lead to the advancement of the current state of the art applications of power electronics for renewable energy transportation and industrial applications and will help add experience in the various industries and academia about the energy conversion technology and distributed energy sources Combines state of the art global expertise to present the latest research on power electronics and its application in transportation renewable energy and different industrial applications Offers an overview of existing technology and future trends with discussion and analysis of different types of converters and control techniques power converters high performance power devices power system high performance control system and novel applications Systematic explanation to provide researchers with enough background and understanding to go deeper in the topics covered in the book

Doubly Fed Induction Generators Edgar N. Sanchez, Riemann Ruiz-Cruz, 2016-08-05 Doubly Fed Induction Generators Control for Wind Energy provides a detailed source of information on the modeling and design of controllers for the doubly fed induction generator DFIG used in wind

energy applications Focusing on the use of nonlinear control techniques this book Discusses the main features and advantages of the DFIG Describes key theoretical fundamentals and the DFIG mathematical model Develops controllers using inverse optimal control sliding modes and neural networks Devises an improvement to add robustness in the presence of parametric variations Details the results of real time implementations All controllers presented in the book are tested in a laboratory prototype Comparisons between the controllers are made by analyzing statistical measures applied to the control objectives

Power Quality and Harmonics Management in Modern Power Systems Muhyaddin Rawa,Ziad M. Ali,Shady H.E. Abdel Aleem,2024-06-05 This book comprehensively tackles the challenges and solutions related to power quality and harmonics management in modern power systems It covers many topics beginning with the significance of maintaining power quality in the presence of distributed generation and power electronic based technologies It explores the impact of nonlinear loads and novel equipment on power quality and emphasizes its significance in a competitive energy environment The book also discusses renewable based distributed generation and hosting capacity studies Another key focus of the book is the impact of harmonics on electrical networks It highlights the consequences of harmonics generated by electronic devices and emphasizes the need for control and mitigation measures The distinction between linear and nonlinear loads is explained and fundamental indicators of electrical harmonics are discussed The book provides insights into frequency domain models of nonlinear loads in power systems emphasizing the importance of understanding and modeling harmonics It also evaluates the effectiveness of active filters in mitigating power system harmonics and explores the performance efficiency of the shunt hybrid system Furthermore the book offers a multidisciplinary perspective on energy security in the face of climate change and growing uncertainties It examines energy security from various angles and advocates for integrating resilience thinking into energy security policies Finally this book provides a foundation for understanding and addressing the challenges associated with power quality and harmonics in modern power systems offering practical approaches and solutions to enhance system performance and reliability

Proceedings of the 5th International Conference on Electrical Engineering and Control Applications-Volume 2 Salim Ziani,Mohammed Chadli,Sofiane Bououden,Ivan Zelinka,2024-09-02 This book gathers papers presented during the 5th International Conference on Electrical Engineering and Control Applications ICEECA 2022 held on November 15 17 2022 Khenchela Algeria It covers new control system models troubleshooting tips and complex system requirements such as increased speed precision and remote capabilities Additionally the book discusses not only the engineering aspects of signal processing and various practical issues in the broad field of information transmission but also novel technologies for communication networks and modern antenna design The later part of the book covers important related topics such as fault diagnosis and fault tolerant control strategies for nonlinear systems and alternative energy sources This book is intended for researchers engineers and advanced postgraduate students in the fields of control and electrical engineering computer science signal processing as well as

mechanical and chemical engineering *Mechatronics 2017* Tomáš Březina, Ryszard Jabłoński, 2017-08-16 This book presents nearly 90 carefully selected contributions at the 12th International Conference Mechatronics which took place in Brno Czech Republic on 6-8 September 2017. Reflecting the most progressive and constantly changing areas of mechatronics, these proceedings include papers concerning modeling and simulation, automatic control, robotics, sensors and actuators, electrical machines and energy harvesting. It not only offers inspiration but also deepens readers' interdisciplinary and integrated understanding of modern engineering. The book is intended for experts in the integration of electronic, mechanical, control and computer sciences.

Induction Motors Rui Esteves Araújo, 2012-11-14 Motivated by the need for energy efficiency improvements, process optimization, soft start capability and numerous other environmental benefits, it may be desirable to operate induction motors for many applications at continuously adjustable speeds. The induction motor drives can provide high productivity with energy efficiency in different industrial applications and are the basis for modern automation. This book provides an account of this developing subject through such topics as modelling, noise control techniques used for high performance applications and diagnostics. Compiled from contributions by international researchers, this is not a textbook but the result is an interesting exploration of this technology that provides a combination of theory, implementation issues and practical examples.

Electric Motor Drives and their Applications with Simulation Practices R. Selvamathi, V. Subramaniaswamy, V. Indragandhi, 2022-05-03 *Electric Motor Drives and Its Applications with Simulation Practices* provides comprehensive coverage of the concepts of electric motor drives and their applications along with their simulation using MATLAB and other software tools. The book helps engineers and students improve their software skills by learning to simulate various electric drives and applications and assists with new ideas in the simulation of electrical electronics and instrumentation systems. Covering power electronic converter fed drives and simulation model building using all possible software as well as the operation and relevant applications discussed, the book provides a number of examples and step by step procedures for successful implementation. Intended for engineers, students and research scholars in industry who are working in the field of power electronics and drives, this book provides a brief introduction to simulation software under different environments. Provides an in depth analysis of Electric motors and drives specifically focused on practical approaches. Includes simulations of electric drives using best proven software tools like MATLAB and PSIM. Details step by step approaches for creating and applying simulation of electric drives.

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