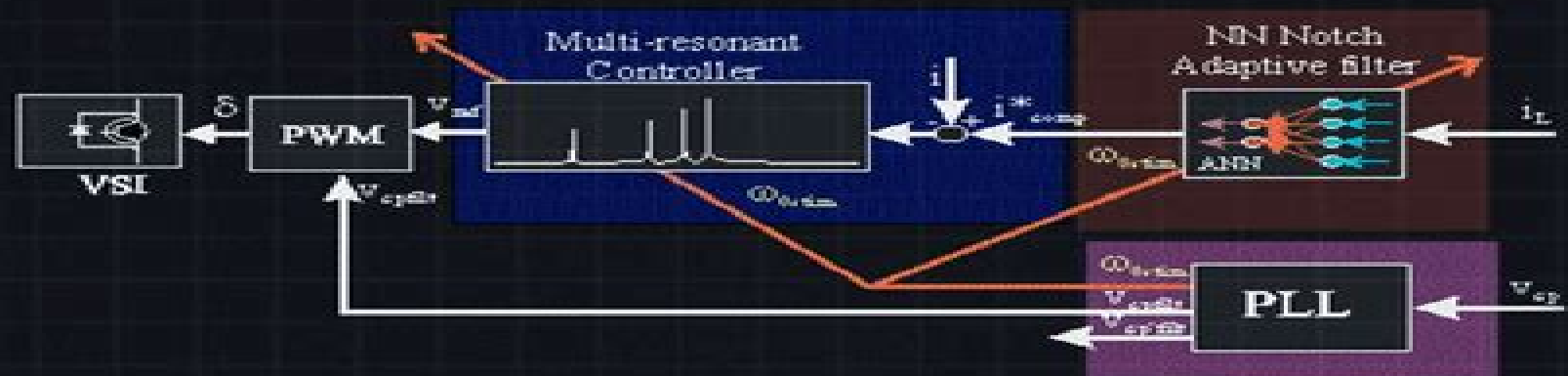


Power Converters and AC Electrical Drives with Linear Neural Networks



Maurizio Cirrincione
Marcello Pucci
Gianpaolo Vitale



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Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines

O García



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Power Converters and AC Electrical Drives with Linear Neural Networks Maurizio Cirrincione, Marcello Pucci, Gianpaolo Vitale, 2017-12-19 The first book of its kind Power Converters and AC Electrical Drives with Linear Neural Networks systematically explores the application of neural networks in the field of power electronics with particular emphasis on the sensorless control of AC drives It presents the classical theory based on space vectors in identification discusses control of electrical drives and power converters and examines improvements that can be attained when using linear neural networks The book integrates power electronics and electrical drives with artificial neural networks ANN Organized into four parts it first deals with voltage source inverters and their control It then covers AC electrical drive control focusing on induction and permanent magnet synchronous motor drives The third part examines theoretical aspects of linear neural networks particularly the neural EXIN family The fourth part highlights original applications in electrical drives and power quality ranging from neural based parameter estimation and sensorless control to distributed generation systems from renewable sources and active power filters Simulation and experimental results are provided to validate the theories Written by experts in the field this state of the art book requires basic knowledge of electrical machines and power electronics as well as some familiarity with control systems signal processing linear algebra and numerical analysis Offering multiple paths through the material the text is suitable for undergraduate and postgraduate students theoreticians practicing engineers and researchers involved in applications of ANNs

Wind Turbines Abdel Ghani Aissaoui, Ahmed Tahour, 2016-07-27 Renewable energies constitute excellent solutions to both the increase of energy consumption and environment problems Among these energies wind energy is very interesting Wind energy is the subject of advanced research In the development of wind turbine the design of its different structures is very important It will ensure the robustness of the system the energy efficiency the optimal cost and the high reliability The use of advanced control technology and new technology products allows bringing the wind energy conversion system in its optimal operating mode Different strategies of control can be applied on generators systems relating to blades etc in order to extract maximal power from the wind The goal of this book is to present recent works on design control and applications in wind energy conversion systems

Advanced Electric Drive Vehicles Ali Emadi, 2014-10-02 Electrification is an evolving paradigm shift in the transportation industry toward more efficient higher performance safer smarter and more reliable vehicles There is in fact a clear trend to move from internal combustion engines ICEs to more integrated electrified powertrains Providing a detailed overview of this growing area Advanced Electric Drive Vehicles begins with an introduction to the automotive industry an explanation of the need for electrification and a presentation of the fundamentals of conventional vehicles and ICEs It then proceeds to address the major components of electrified vehicles i e power electronic converters electric machines electric motor controllers and energy storage systems This comprehensive work Covers more electric vehicles MEVs hybrid electric vehicles HEVs plug in hybrid electric vehicles

PHEVs range extended electric vehicles REEVs and all electric vehicles EVs including battery electric vehicles BEVs and fuel cell vehicles FCVs Describes the electrification technologies applied to nonpropulsion loads such as power steering and air conditioning systems Discusses hybrid battery ultra capacitor energy storage systems as well as 48 V electrification and belt driven starter generator systems Considers vehicle to grid V2G interface and electrical infrastructure issues energy management and optimization in advanced electric drive vehicles Contains numerous illustrations practical examples case studies and challenging questions and problems throughout to ensure a solid understanding of key concepts and applications Advanced Electric Drive Vehicles makes an ideal textbook for senior level undergraduate or graduate engineering courses and a user friendly reference for researchers engineers managers and other professionals interested in transportation electrification

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

Variable Speed AC Drives with Inverter Output Filters Jaroslaw Guzinski,Haitham Abu-Rub,Patryk Strankowski,2015-11-23 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

Modern Electric Vehicle Technology C. C. Chan,K. T. Chau,2001 A comprehensive and up to date reference book on modern electric vehicle technology which covers the engineering philosophy state of the art technology and commercialisation of electrical vehicles

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

Model Predictive Control of High Power Converters and Industrial Drives

Tobias Geyer, 2017-02-28 In this original book on model predictive control MPC for power electronics the focus is put on high power applications with multilevel converters operating at switching frequencies well below 1 kHz such as medium voltage drives and modular multi level converters Consisting of two main parts the first offers a detailed review of three phase power electronics electrical machines carrier based pulse width modulation optimized pulse patterns state of the art converter control methods and the principle of MPC The second part is an in depth treatment of MPC methods that fully exploit the performance potential of high power converters These control methods combine the fast control responses of deadbeat control with the optimal steady state performance of optimized pulse patterns by resolving the antagonism between the two MPC is expected to evolve into the control method of choice for power electronic systems operating at low pulse numbers with multiple coupled variables and tight operating constraints it Model Predictive Control of High Power Converters and Industrial Drives will enable to reader to learn how to increase the power capability of the converter lower the current distortions reduce the filter size achieve very fast transient responses and ensure the reliable operation within safe operating area constraints Targeted at power electronic practitioners working on control related aspects as well as control engineers the material is intuitively accessible and the mathematical formulations are augmented by illustrations simple examples and a book companion website featuring animations Readers benefit from a concise and comprehensive treatment of MPC for industrial power electronics enabling them to understand implement and advance the field of high performance MPC schemes

Neural and Fuzzy Logic Control of Drives and Power Systems Marcian Cirstea, 2002-10-08 Introduces cutting edge control systems to a wide readership of engineers and students The first book on neuro fuzzy control systems to take a practical applications based approach backed up with worked examples and case studies Learn to use VHDL in real world applications Introducing cutting edge control systems through real world applications Neural networks and fuzzy logic based systems offer a modern control solution to AC machines used in variable speed drives enabling industry to save costs and increase efficiency by replacing expensive and high maintenance DC motor systems The use of fast micros has revolutionised

the field with sensorless vector control and direct torque control This book reflects recent research findings and acts as a useful guide to the new generation of control systems for a wide readership of advanced undergraduate and graduate students as well as practising engineers The authors guide readers quickly and concisely through the complex topics of neural networks fuzzy logic mathematical modelling of electrical machines power systems control and VHDL design Unlike the academic monographs that have previously been published on each of these subjects this book combines them and is based round case studies of systems analysis control strategies design simulation and implementation The result is a guide to applied control systems design that will appeal equally to students and professional design engineers The book can also be used as a unique VHDL design aid based on real world power engineering applications

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

Emerging Power Converters for Renewable Energy and Electric Vehicles Md Rabiul Islam,Md Rakibuzzaman Shah,Mohd. Hasan Ali,2021-04-22 This book covers advancements of power electronic converters and their control techniques for grid integration of large scale renewable energy sources and electrical vehicles Major emphasis are on transformer less direct grid integration bidirectional power transfer compensation of grid power quality issues DC system protection and grounding interaction in mixed AC DC system AC and DC system stability magnetic design for high frequency high power density systems with advanced soft magnetic materials modelling and simulation of mixed AC DC system switching strategies for enhanced efficiency and protection and reliability for sustainable grid integration This book is an invaluable resource for professionals active in the field of renewable energy and power conversion

Multidisciplinary Design Optimization Methods for Electrical Machines and Drive Systems Gang Lei,Jianguo Zhu,Youguang Guo,2016-02-05 This book presents various computationally

efficient component and system level design optimization methods for advanced electrical machines and drive systems Readers will discover novel design optimization concepts developed by the authors and other researchers in the last decade including application oriented multi disciplinary multi objective multi level deterministic and robust design optimization methods A multi disciplinary analysis includes various aspects of materials electromagnetics thermotics mechanics power electronics applied mathematics manufacturing technology and quality control and management This book will benefit both researchers and engineers in the field of motor and drive design and manufacturing thus enabling the effective development of the high quality production of innovative high performance drive systems for challenging applications such as green energy systems and electric vehicles Electrical & Electronics Abstracts ,1997 **Impedance Source Power Electronic Converters** Yushan Liu,Haitham Abu-Rub,Baoming Ge,Frede Blaabjerg,Omar Ellabban,Poh Chiang Loh,2016-10-03 Impedance Source Power Electronic Converters brings together state of the art knowledge and cutting edge techniques in various stages of research related to the ever more popular impedance source converters inverters Significant research efforts are underway to develop commercially viable and technically feasible efficient and reliable power converters for renewable energy electric transportation and for various industrial applications This book provides a detailed understanding of the concepts designs controls and application demonstrations of the impedance source converters inverters Key features Comprehensive analysis of the impedance source converter inverter topologies including typical topologies and derived topologies Fully explains the design and control techniques of impedance source converters inverters including hardware design and control parameter design for corresponding control methods Presents the latest power conversion solutions that aim to advance the role of power electronics into industries and sustainable energy conversion systems Compares impedance source converter inverter applications in renewable energy power generation and electric vehicles as well as different industrial applications Provides an overview of existing challenges solutions and future trends Supported by calculation examples simulation models and results Highly accessible this is an invaluable resource for researchers postgraduate graduate students studying power electronics and its application in industry and renewable energy conversion as well as practising R D engineers Readers will be able to apply the presented material for the future design of the next generation of efficient power electronic converters inverters **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

Automatic Systems for Building the Infrastructure in Developing Countries 2001 (knowledge and Technology Transfer) Georgi M. Dimirovski, 2001 This volume records the proceedings of the 2nd IFAC Workshop DECOM TT 2001 held in Ohrid Republic of Macedonia 21-23 May 2001

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

Intelligent Paradigms for Smart Grid and Renewable Energy Systems B. Vinoth Kumar, P. Sivakumar, M.M. Rajan Singaravel, K. Vijayakumar, 2020-12-15 This book addresses and disseminates state of the art research and development in the applications of intelligent techniques for smart grids and renewable energy systems This helps the readers to grasp the extensive point of view and the essence of the recent advances in this field The book solicits contributions from active researchers which include theory case studies and intelligent paradigms pertaining to the smart grid and renewable energy systems The prospective audience would be researchers

professionals practitioners and students from academia and industry who work in this field *PESC '92 Record*, 1992

Industrial and Technological Applications of Power Electronics Systems Ryszard Strzelecki, Galina

Demidova, Dmitri Vinnikov, 2021-09-02 The Special Issue Industrial and Technological Applications of Power Electronics Systems focuses on new strategies of control for electric machines including sensorless control and fault diagnosis existing and emerging industrial applications of GaN and SiC based converters modern methods for electromagnetic compatibility The book covers topics such as control systems fault diagnosis converters inverters and electromagnetic interference in power electronics systems The Special Issue includes 19 scientific papers by industry experts and worldwide professors in the area of electrical engineering

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Table of Contents Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines

1. Understanding the eBook Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines
 - The Rise of Digital Reading Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines
 - Advantages of eBooks Over Traditional Books
2. Identifying Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines
 - User-Friendly Interface

4. Exploring eBook Recommendations from Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines
 - Personalized Recommendations
 - Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines User Reviews and Ratings
 - Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines and Bestseller Lists
5. Accessing Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines Free and Paid eBooks
 - Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines Public Domain eBooks
 - Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines eBook Subscription Services
 - Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines Budget-Friendly Options
6. Navigating Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines eBook Formats
 - ePub, PDF, MOBI, and More
 - Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines Compatibility with Devices
 - Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines
 - Highlighting and Note-Taking Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines
 - Interactive Elements Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines
8. Staying Engaged with Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power

Electronics And Machines

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines

9. Balancing eBooks and Physical Books Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines

- Setting Reading Goals Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines

- Fact-Checking eBook Content of Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

Power Converters And Ac Electrical Drives With Linear Neural Networks Energy Power Electronics And Machines Introduction

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