

Power Systems

Nguyen Phung Quang
Jörg-Andreas Dittrich

Vector Control of Three-Phase AC Machines

System Development in the Practice

Second Edition

 Springer

Vector Control Of Three Phase Ac Machines System Development In The Practice

Carsten Fräger, Wolfgang Amrhein



Vector Control Of Three Phase Ac Machines System Development In The Practice:

Vector Control of Three-Phase AC Machines Nguyen Phung Quang, Jörg-Andreas Dittrich, 2015-05-14 This book addresses the vector control of three phase AC machines in particular induction motors with squirrel cage rotors IM permanent magnet synchronous motors PMSM and doubly fed induction machines DFIM from a practical design and development perspective The main focus is on the application of IM and PMSM in electrical drive systems where field orientated control has been successfully established in practice It also discusses the use of grid voltage oriented control of DFIMs in wind power plants This second enlarged edition includes new insights into flatness based nonlinear control of IM PMSM and DFIM The book is useful for practitioners as well as development engineers and designers in the area of electrical drives and wind power technology It is a valuable resource for researchers and students

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Vector Control of Three-Phase AC Machines

Nguyen Phung Quang, Jörg-Andreas Dittrich, 2008-06-18 The book deals with the problem area of the vector control of the three phase AC machines like that one of the induction motor with squirrel cage rotor IMSR the permanent magnet excited synchronous motor PMSM and that one of the doubly fed induction machine DFIM from the view of the practical development It is primarily about the use of the IMSR as well as the PMSM in the electrical drive systems at which the method of the field oriented control has been successful in the practice and about the use of the grid voltage oriented controlled DFIM in the wind power plants After a summary of the basic structure of a field oriented controlled three phase AC drive the main points of the design and of the application are explained The detailed description of the design rules forms the main emphasis of the book The description is expanded and made understandable by numerous formulae pictures and diagrams Using the basic equations first the continuous and then the discrete machine models of the IMSR as well as of the PMSM are derived The vectorial two dimensional current controllers which are designed with help of the discrete models are treated in detail in connection with other essential problems like system boundary condition and control variable limitation Several alternative controller configurations are introduced The voltage vector modulation the field orientation and the coordinate transformations are treated also from the view of the practical handling The problems like the parameter identification parameter adaptation and

the management of machine states which are normally regarded as abstract are so represented that the book reader does not receive only attempts but also comprehensible solutions for his system. The practical style in the description of the design rules of the drive systems are also continued consistently for the wind power systems using the DFIM. The represented control concept is proven practically and can be regarded as pioneering for new developments. The introduced control structures of the three machine types have led to a relatively mature stage of development in the practice. Some disadvantages have nevertheless remained at these linear control concepts which have to be cleared only with nonlinear controllers. Going out from the structural nonlinearity of the machines the suitable nonlinear models are derived. After that nonlinear controllers are designed on the basis of the method of the exact linearization which proves to be the most suitable in comparison with other methods like backstepping based or passivity based designs.

Vector Control of Three-Phase AC Machines Nguyen Phung Quang, Jörg-Andreas Dittrich, 2008-12-11

The book deals with the problem area of the vector control of the three phase AC machines like that one of the induction motor with squirrel cage rotor IMSR, the permanent magnet excited synchronous motor PMSM and that one of the doubly fed induction machine DFIM from the view of the practical development. It is primarily about the use of the IMSR as well as the PMSM in the electrical drive systems at which the method of the field oriented control has been successful in the practice and about the use of the grid voltage oriented controlled DFIM in the wind power plants. After a summary of the basic structure of a field oriented controlled three phase AC drive the main points of the design and of the application are explained. The detailed description of the design rules forms the main emphasis of the book. The description is expanded and made understandable by numerous formulae, pictures and diagrams. Using the basic equations first the continuous and then the discrete machine models of the IMSR as well as of the PMSM are derived. The vectorial two dimensional current controllers which are designed with help of the discrete models are treated in detail in connection with other essential problems like system boundary condition and control variable limitation. Several alternative controller configurations are introduced. The voltage vector modulation, the field orientation and the coordinate transformations are treated also from the view of the practical handling. The problems like the parameter identification, parameter adaptation and the management of machine states which are normally regarded as abstract are so represented that the book reader does not receive only attempts but also comprehensible solutions for his system. The practical style in the description of the design rules of the drive systems are also continued consistently for the wind power systems using the DFIM. The represented control concept is proven practically and can be regarded as pioneering for new developments. The introduced control structures of the three machine types have led to a relatively mature stage of development in the practice. Some disadvantages have nevertheless remained at these linear control concepts which have to be cleared only with nonlinear controllers. Going out from the structural nonlinearity of the machines the suitable nonlinear models are derived. After that nonlinear controllers are designed on the basis of the method of the exact linearization which

proves to be the most suitable in comparison with other methods like backstepping based or passivity based designs

Development of Adaptive Speed Observers for Induction Machine System Stabilization Ahmed A. Zaki

Diab,Abo-Hashima M. Al-Sayed,Hossam Hefnawy Abbas Mohammed,Yehia Sayed Mohammed,2020-01-03 This book describes the development of an adaptive state observer using a mathematical model to achieve high performance for sensorless induction motor drives This involves first deriving an expression for a modified gain rotor flux observer with a parameter adaptive scheme to estimate the motor speed accurately and improve the stability and performance of sensorless vector controlled induction motor drives This scheme is then applied to the controls of a photovoltaic motor water pumping system which results in improved dynamic performance under different operating conditions The book also presents a robust speed controller design for a sensorless vector controlled induction motor drive system based on H theory which overcomes the problems of the classical controller 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 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 **Advanced Control Systems for Electric Drives**

Adel Merabet,2020-12-07 This book provides extensive information about advanced control techniques in electric drives Multiple control and estimation methods are studied for position and speed tracking in different drives Artificial intelligence

tools such as fuzzy logic and neural networks are used for specific applications using electric drives **AETA 2016: Recent Advances in Electrical Engineering and Related Sciences** Vo Hoang Duy, Tran Trong Dao, Sang Bong Kim, Nguyen Tan Tien, Ivan Zelinka, 2016-12-02 These lecture notes present selected topics concerning a wide range of electrical and electronics applications highlighting innovative approaches and offering state of the art overviews The book is divided into 14 topical areas including e g telecommunication power systems robotics control systems renewable energy mechanical engineering computer science and more Readers will find revealing papers on the design and implementation of control algorithms for automobiles and electrohydraulic systems efficient protocols for vehicular ad hoc networks and motor control and energy saving methods that can be applied in various fields of electrical engineering The book offers a valuable resource for all practitioners who want to apply the topics discussed to solve real world problems in their challenging applications Offering insights into common and related subjects in the research fields of modern electrical electronic and related technologies it will also benefit all scientists and engineers working in the above mentioned fields *New Applications of Electric Drives* Miroslav Chomat, 2015-12-09 In the last few decades electric drives have found their place in a considerable number of diverse applications They are successfully replacing some other traditional types of drives owing to their better performance and excellent controllability The introduction of electric drives is in most cases also beneficial from the ecological point of view as they are not directly dependent on fossil fuels and an increasing part of electric energy they consume is generated in renewable energy sources This book focuses on applications of electric drives that emerged only recently and or novel aspects that appear in them Particular attention is given to using electric drives in vehicles aircraft non road mobile machinery and HVAC systems Power Engineering and Information Technologies in Technical Objects Control Genadiy Pivnyak, Olexandr Beshta, Mykhaylo Alekseyev, 2017-02-03 Improved knowledge in the field of technical objects operation and control helps manufacturers to decrease energy consumption and keep construction costs low Moreover it helps dealing effectively with environmental problems and switching to renewable forms of energy on the path of sustainable development of the society The methods and technologies presented in this book will allow to improve the effectiveness of technical objects control and helps achieving safe economical high quality usage of power engineering and information technologies The book presents recent advances in power engineering electric drives transport systems power electronics cybersecurity and others Vital issues of innovative small vehicles with using hydrogen fuel as well as boring rigs and underwater hydraulic transport pipelines are considered The book offers a fresh look at energy saving and energy efficiency in industry new ideas in information technologies paying much attention to interdisciplinary specification of the results obtained Energy Efficiency Improvement of Geotechnical Systems Genadiy Pivnyak, Oleksandr Beshta, Mykhaylo Alekseyev, 2013-11-19 This book covers innovative technologies and approaches for improvement of technical and economic parameters of functional geotechnical systems The focus is on mathematical modelling of objects and processes as well as

the development of techniques and their control algorithms The book comprises schemata of practical tasks solving related to mine ventilation and electrical circuit operation cutter loaders and mining electrical vehicles It also demonstrates possible applications of hybrid technologies and IT methods to the work of geotechnical systems Implementation of methods and technologies presented in the book will allow to reduce energy resources consumption of geotechnical systems and to enhance environmental and economic parameters of their operation being one of the essential conditions for sustainable development in modern society The book is particular of interest to technical specialists researchers students and university teachers whose work is connected to the improvement of efficiency of geotechnical systems **Electrical Engineering,**

Energy, Mechanical Engineering - EEM 2014 Elena Gurova, 2014-12-08 Selected peer reviewed papers from the First International Scientific Conference on Electrical Engineering Energy Mechanical Engineering EEM 2014 December 2 6 2014 Novosibirsk Russian Federation *Advanced Research on Electronic Commerce, Web Application, and Communication*

Gang Shen, Xiong Huang, 2011-04-04 The two volume set CCIS 143 and CCIS 144 constitutes the refereed proceedings of the International Conference on Electronic Commerce Web Application and Communication ECWAC 2011 held in Guangzhou China in April 2011 The 148 revised full papers presented in both volumes were carefully reviewed and selected from a large number of submissions Providing a forum for engineers scientists researchers in electronic commerce Web application and communication fields the conference will put special focus also on aspects such as e business e learning and e security intelligent information applications database and system security image and video signal processing pattern recognition information science industrial automation process control user machine systems security integrity and protection as well as mobile and multimedia communications **AETA 2023—Recent Advances in Electrical Engineering and Related**

Sciences: Theory and Application Tran Trong Dao, Ivan Zelinka, Vo Hoang Duy, Jei-Pil Wang, Chau Si Thien Dong, Phuong T. Tran, 2025-05-31 This book features selected papers from the 8th International Conference in Advanced Engineering Theory Applications AETA 2023 during 14 16 December in Busan Korea The topics of the papers cover three main topics energy energy saving power electronics electrical machines and drive systems green energy IT nontrivial dynamics of electronic devices control engineering robotics automatic control biosensor IT communication and security broadcasting IT communications cyber security Its content caters to researchers scientist and engineers who are interested in scientific achievements and advanced technologies of electrical electronic telecommunication computer science and mechanical mechatronics engineering **Intervallbeobachter fuer lineare parametervariante Systeme und deren Anwendung**

auf die Asynchronmaschine Krebs, Stefan, 2019 The topic of this publication is the design of two new set based methods for the determination of the states of linear parameter varying systems These sets are computed by interval observers based on unknown but bounded inputs outputs and parameters The effectiveness of the methods is demonstrated by the state estimation of an induction motor that is achieved by combining the interval observers with a novel model of a voltage source

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