

Modeling and High-Performance Control of Electric Machines



JOHN CHIASSON

Modeling And High Performance Control Of Electric Machines

Ying-Ying Zheng



Modeling And High Performance Control Of Electric Machines:

Modeling and High Performance Control of Electric Machines John Chiasson, 2005-05-13 Modeling and High Performance Control of Electric Machines introduces you to both the modeling and control of electric machines The direct current DC machine and the alternating current AC machines induction PM synchronous and BLDC are all covered in detail The author emphasizes control techniques used for high performance applications specifically ones that require both rapid and precise control of position speed or torque You ll discover how to derive mathematical models of the machines and how the resulting models can be used to design control algorithms that achieve high performance Graduate students studying power and control as well as practicing engineers in industry will find this a highly readable text on the operation modeling and control of electric machines An Instructor s Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department Instructor Support materials are also available Email IAline@wiley.com

Dynamics and Control of Electrical Drives Wach Piotr, 2011-04-28 Dynamics is a science concerned with movement and changes In the most general approach it relates to life processes as well as behavior in nature in rest It governs small particles technical objects conversion of matter and materials but also concerns people groups of people in their individual and in particular social dimension In dynamics we always have to do with causes or stimuli for motion the rules of reaction or behavior and its result in the form of trajectory of changes This book is devoted to dynamics of a wide class of specific but very important objects such as electromechanical systems This is a very rigorous discipline and has a long tradition as its theoretical bases were formulated in the first half of the XIX century by d Alembert Lagrange Hamilton Maxwell and other prominent scientists but their crucial results were based on previous pioneering research of others such as Copernicus Galileo Newton This book in its theoretical foundations is based on the principle of least action which governs classical as well as relativistic mechanics and electromagnetism and leads to Lagrange s equations which are applied in the book as universal method to construct equations of motion of electromechanical systems It gives common and coherent grounds to formulate mathematical models for all lumped parameters electromechanical systems which are vital in our contemporary industry and civilized everyday life From these remarks it seems that the book is general and theoretical but in fact it is a very practical one concerning modern electrical drives in a broad sense including electromechanical energy conversion induction motor drives brushless DC drives with a permanent magnet excitation and switched reluctance machines SRM And of course their control which means shaping of their trajectories of motion using modern tools their designed autonomy in keeping a track according to our programmed expectations The problems presented in the book are widely illustrated by characteristics trajectories dynamic courses all computed by use of developed simulation models throughout the book There are some classical subjects and the history of the discipline is discussed but finally all modern tools and means are presented and applied More detailed descriptions follow in abstracts for the particular chapters The author hopes kind readers will enjoy and profit from reading

this book High Performance Control of AC Drives with Matlab / Simulink Models Haitham Abu-Rub, Atif Iqbal, Jaroslaw 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 , **Power Electronics and Motor Drive Systems** Stefanos Manias, 2016-11-08 Power Electronics and 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 **Electronics and Signal Processing** Wensong Hu, 2011-06-21 This volume includes extended and revised versions of a set of selected papers from the International Conference on Electric and Electronics EEIC 2011 held on June 20 22 2011 which is jointly organized by Nanchang University Springer and IEEE IAS Nanchang Chapter The

objective of EEIC 2011 Volume 1 is to provide a major interdisciplinary forum for the presentation of new approaches from Electronics and Signal Processing to foster integration of the latest developments in scientific research 133 related topic papers were selected into this volume All the papers were reviewed by 2 program committee members and selected by the volume editor Prof Wensong Hu We hope every participant can have a good opportunity to exchange their research ideas and results and to discuss the state of the art in the areas of the Electronics and Signal Processing

Intelligent Data Mining and Analysis in Power and Energy Systems Zita A. Vale,Tiago Pinto,Michael Negnevitsky,Ganesh Kumar

Venayagamoorthy,2022-12-02 Intelligent Data Mining and Analysis in Power and Energy Systems A hands on and current review of data mining and analysis and their applications to power and energy systems In Intelligent Data Mining and Analysis in Power and Energy Systems Models and Applications for Smarter Efficient Power Systems the editors assemble a team of distinguished engineers to deliver a practical and incisive review of cutting edge information on data mining and intelligent data analysis models as they relate to power and energy systems You ll find accessible descriptions of state of the art advances in intelligent data mining and analysis and see how they drive innovation and evolution in the development of new technologies The book combines perspectives from authors distributed around the world with expertise gained in academia and industry It facilitates review work and identification of critical points in the research and offers insightful commentary on likely future developments in the field It also provides A thorough introduction to data mining and analysis including the foundations of data preparation and a review of various analysis models and methods In depth explorations of clustering classification and forecasting Intensive discussions of machine learning applications in power and energy systems Perfect for power and energy systems designers planners operators and consultants Intelligent Data Mining and Analysis in Power and Energy Systems will also earn a place in the libraries of software developers researchers and students with an interest in data mining and analysis problems

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Power System Protection John Ciufo,Aaron Cooperberg,2021-12-02 An all in one resource on power system protection fundamentals practices and applications Made up of an assembly of electrical components power system protections are a critical piece of the electric power system Despite its central importance to the safe operation of the power grid the information available on the topic is limited in scope and detail In Power System Protection Fundamentals and Applications a team of renowned engineers delivers an authoritative and robust overview of power system protection ideal for new and early career engineers and technologists The book offers device and manufacturer agnostic fundamentals using an accessible balance of theory and practical application It offers a wealth of examples and easy to grasp illustrations to aid the reader in understanding and retaining the information provided within In addition to providing a wealth of information on power system protection applications for generation transmission and distribution facilities the book offers readers A thorough introduction to power system protection including why it s required and foundational definitions Comprehensive explorations of basic power system protection components including instrument transformers terminations telecommunications and more Practical discussions of basic types of protection relays and their operation including overcurrent differential and distance relays In depth examinations of breaker failure protection and automatic reclosing including typical breaker failure tripping zones logic paths pedestal breakers and more Perfect for system planning engineers system operators and power system equipment specifiers Power System Protection Fundamentals

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