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ADVANCED ELECTRIC DRIVES

Analysis, Control, and Modeling
Using MATLAB/Simulink®



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Advanced Electric Drives Ned Mohan, 2014 Comprehensive explanation of how electric drives operate under dynamic conditions Advanced Electric Drives Ned Mohan, 2001 **Advanced Electrical Drives** Rik De Doncker, Duco W.J. Pulle, André Veltman, 2010-11-30 Electrical drives convert in a controlled manner electrical energy into mechanical energy. Electrical drives comprise an electrical machine i.e. an electro mechanical energy converter, a power electronic converter i.e. an electrical to electrical converter and a controller communication unit. Today electrical drives are used as propulsion systems in high speed trains, elevators, escalators, electric ships, electric forklift trucks and electric vehicles. Advanced control algorithms, mostly digitally implemented, allow torque control over a high bandwidth. Hence precise motion control can be achieved. Examples are drives in robots, pick and place machines, factory automation hardware etc. Most drives can operate in motoring and generating mode. Wind turbines use electrical drives to convert wind energy into electrical energy. More and more variable speed drives are used to save energy for example in air conditioning units, compressors, blowers, pumps and home appliances. Key to ensure stable operation of a drive in the aforementioned applications are torque control algorithms. In Advanced Electrical Drives a unique approach is followed to derive model based torque controllers for all types of Lorentz force machines i.e. DC synchronous and induction machines. The rotating transformer model forms the basis for this generalized modeling approach that ultimately leads to the development of universal field oriented control algorithms. In case of switched reluctance machines torque observers are proposed to implement direct torque algorithms. From a didactic viewpoint tutorials are included at the end of each chapter. The reader is encouraged to execute these tutorials to familiarize him or herself with all aspects of drive technology. Hence Advanced Electrical Drives encourages learning by doing. Furthermore the experienced drive specialist may find the simulation tools useful to design high performance controllers for all sorts of electrical drives. Advanced Electric Drives Ned Mohan, 2014-07-22 With nearly two thirds of global electricity consumed by electric motors it should come as no surprise that their proper control represents appreciable energy savings. The efficient use of electric drives also has far reaching applications in such areas as factory automation, robotics, clean transportation, hybrid electric vehicles and renewable wind and solar energy resource management. Advanced Electric Drives utilizes a physics based approach to explain the fundamental concepts of modern electric drive control and its operation under dynamic conditions. Author Ned Mohan, a decades long leader in Electrical Energy Systems (EES) education and research, reveals how the investment of proper controls, advanced MATLAB and Simulink simulations and careful forethought in the design of energy systems translates to significant savings in energy and dollars. Offering students a fresh alternative to standard mathematical treatments of dq axis transformation of a b c phase quantities, Mohan's unique physics based approach visualizes a set of representative dq windings along an orthogonal set of axes and then relates their currents and voltages to the a b c phase quantities. Advanced Electric Drives is an invaluable resource to facilitate an understanding of the

analysis control and modelling of electric machines Gives readers a physical picture of electric machines and drives without resorting to mathematical transformations for easy visualization Confirms the physics based analysis of electric drives mathematically Provides readers with an analysis of electric machines in a way that can be easily interfaced to common power electronic converters and controlled using any control scheme Makes the MATLAB Simulink files used in examples available to anyone in an accompanying website Reinforces fundamentals with a variety of discussion questions concept quizzes and homework problems

Analysis and Control of Electric Drives Ned Mohan, Siddharth Raju, 2020-08-27 A guide to drives essential to electric vehicles wind turbines and other motor driven systems Analysis and Control of Electric Drives is a practical and comprehensive text that offers a clear understanding of electric drives and their industrial applications in the real world including electric vehicles and wind turbines The authors noted experts on the topic review the basic knowledge needed to understand electric drives and include the pertinent material that examines DC and AC machines in steady state using a unique physics based approach The book also analyzes electric machine operation under dynamic conditions assisted by Space Vectors The book is filled with illustrative examples and includes information on electric machines with Interior Permanent Magnets To enhance learning the book contains end of chapter problems and all topics covered use computer simulations with MATLAB Simulink and Sciamble Workbench software that is available free online for educational purposes This important book Explores additional topics such as electric machines with Interior Permanent Magnets Includes multiple examples and end of chapter homework problems Provides simulations made using MATLAB Simulink and Sciamble Workbench free software for educational purposes Contains helpful presentation slides and Solutions Manual for Instructors simulation files are available on the associated website for easy implementation A unique feature of this book is that the simulations in Sciamble Workbench software can seamlessly be used to control experiments in a hardware laboratory Written for undergraduate and graduate students Analysis and Control of Electric Drives is an essential guide to understanding electric vehicles wind turbines and increased efficiency of motor driven systems

Electric Machines and Drives Shaahin Filizadeh, 2013-02-20 Electric machines have a ubiquitous presence in our modern daily lives from the generators that supply electricity to motors of all sizes that power countless applications Providing a balanced treatment of the subject Electric Machines and Drives Principles Control Modeling and Simulation takes a ground up approach that emphasizes fundamental principles The author carefully deploys physical insight mathematical rigor and computer simulation to clearly and effectively present electric machines and drive systems Detailing the fundamental principles that govern electric machines and drives systems this book Describes the laws of induction and interaction and demonstrates their fundamental roles with numerous examples Explores dc machines and their principles of operation Discusses a simple dynamic model used to develop speed and torque control strategies Presents modeling steady state based drives and high performance drives for induction machines highlighting the underlying physics of the machine Includes

coverage of modeling and high performance control of permanent magnet synchronous machines Highlights the elements of power electronics used in electric drive systems Examines simulation based optimal design and numerical simulation of dynamical systems Suitable for a one semester class at the senior undergraduate or a graduate level the text supplies simulation cases that can be used as a base and can be supplemented through simulation assignments and small projects It includes end of chapter problems designed to pick up on the points presented in chapters and develop them further or introduce additional aspects The book provides an understanding of the fundamental laws of physics upon which electric machines operate allowing students to master the mathematical skills that their modeling and analysis requires

Fundamentals of Electrical Drives André Veltman, Duco W.J. Pulle, R.W. de Doncker, 2007-06-14 Electrical drives in general play a key role in power generation household appliances automotive and industrial applications The rapidly expanding area of adjustable speed drives as used in robotics wind turbines and hybrid vehicles is driven by innovations in machine design power semi conductors digital signal processors and simulation software Fundamentals of Electrical Drives is for readers with a basic engineering knowledge who have a need or desire to comprehend and apply the theory and simulation methods which are applied by drive specialist throughout the world *Modeling and Analysis of Electrical Machine* R. Ramanujam, 2018-08-10 This book will serve as a stepping stone for the undergraduate students in Electrical Electronics Engineering for further specialization It is a core subject in the curriculum for post graduate Power Electronics and Power Systems Engineering disciplines offered by most of the universities and educational institutions The book starts with the fundamental concepts such as phasors and reference frames which are not usually elaborated at the undergraduate level thereby providing smooth transition to more advanced topics as specified in the various syllabi The book is also suitable for final semester undergraduate students and practising engineers

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 *Modeling Power Electronics and Interfacing Energy Conversion Systems* M. Godoy Simoes, Felix A. Farret, 2016-09-16 Discusses the application of mathematical and engineering tools for modeling simulation and control oriented for energy systems power electronics and renewable energy This book builds on the background knowledge of electrical circuits control of dc dc converters and inverters energy conversion and power electronics The book shows readers how to apply computational methods for multi domain simulation of energy systems and power electronics engineering problems Each chapter has a brief introduction on the theoretical background a description of the problems to be solved and objectives to be achieved Block diagrams electrical circuits mathematical analysis or computer code are covered Each chapter concludes with discussions on what should be learned suggestions for further studies and even some experimental work Discusses the mathematical formulation of system equations for energy systems and power electronics aiming state space and circuit oriented simulations Studies the interactions between MATLAB and Simulink models and functions with real world implementation using microprocessors and microcontrollers Presents numerical integration techniques transfer function modeling harmonic analysis and power quality performance assessment Examines existing software such as MATLAB Simulink Power Systems Toolbox and PSIM to simulate power electronic circuits including the use of renewable energy sources such as wind and solar sources The simulation files are available for readers who register with the Google Group power electronics interfacing energy conversion systems googlegroups com After your registration you will receive information in how to access the simulation files the Google Group can also be used to communicate with other registered readers of this book

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