

Trends in Modern Electrical Drives

M. Divya Priyadharshini



About Versa Drives



At Versa Drives Private Limited (VDPL) which is based in India, we manufacture motor control products. We have good competence in designing and manufacturing motor control drives, electric motors, and super-energy- efficient appliances. Our products are well-known for their reliability, cost-effectiveness, and efficiency. An expertise of 30 years in the field has made us pioneers in technology.

We operate with a mission to save millions of electricity units every year by designing and manufacturing innovative products which are in harmony with aspiration and sustainability. At present, we are serving both the business and consumer markets by providing customized motor control solutions to original equipment manufacturers and super-energy- efficient ceiling fan named "Superfan" to retail customers.



About Superfan

Superfan project is our greatest challenge as it involves making a super energy-efficient brushless DC electric motor for ceiling fans for a lesser cost. As ceiling fans are one of the most common electrical appliances in the world - about 400 million being used in India alone - the energy

Modern Electrical Drives

Viktor Perelmuter



Modern Electrical Drives:

Modern Electrical Drives H. Bülent Ertan, M. Yildirim Üçtug, Ron Colyer, Alfio Consoli, 2013-06-29 Electrical drives lie at the heart of most industrial processes and make a major contribution to the comfort and high quality products we all take for granted They provide the controller power needed at all levels from megawatts in cement production to milliwatts in wrist watches Other examples are legion from the domestic kitchen to public utilities The modern electrical drive is a complex item comprising a controller a static converter and an electrical motor Some can be programmed by the user Some can communicate with other drives Semiconductor switches have improved intelligent power modules have been introduced all of which means that control techniques can be used now that were unimaginable a decade ago Nor has the motor side stood still high energy permanent magnets semiconductor switched reluctance motors silicon micromotor technology and soft magnetic materials produced by powder technology are all revolutionising the industry But the electric drive is an enabling technology so the revolution is rippling throughout the whole of industry Electrical Drives Jens Weidauer, Richard Messer, 2014-07-07 From the point of view of a user this book covers all aspects of modern electrical drives It is aimed at both users who wish to understand design use and maintain electrical drives as well as specialists technicians engineers and students who wish to gain a comprehensive overview of electrical drives Jens Weidauer and Richard Messer describe the principles of electrical drives their design and application through to complex automation solutions In the process they introduce the entire spectrum of drive solutions available and their main applications A special aspect is the combination of multiple drives to form a drive system as well as the integration of drives into automation solutions In simple and clear language and supported with many diagrams complex relationships are described and presented in an easy to understand way The authors deliberately avoid a comprehensive mathematical treatment of their subject and instead focus on a coherent description of the active principles and relationships As a result the reader will be in a position to understand electrical drives as a whole and to solve drive related problems in everyday professional life *Sliding Mode Control for Synchronous Electric Drives* Sergey E. Ryvkin, Eduardo Palomar Lever, 2011-11-21 This volume presents the theory of control systems with sliding mode applied to electrical motors and power converters It demonstrates the methodology of control design and the original algorithms of control and observation Practically all semiconductor devices are used in power converters that feed electrical motors as power switches A switch **Modern Electric, Hybrid Electric, and Fuel Cell Vehicles** Mehrdad Ehsani, Yimin Gao, Stefano Longo, Kambiz Ebrahimi, 2018-02-02 This book is an introduction to automotive technology with specific reference to battery electric hybrid electric and fuel cell electric vehicles It could serve electrical engineers who need to know more about automobiles or automotive engineers who need to know about electrical propulsion systems For example this reviewer who is a specialist in electric machinery could use this book to better understand the automobiles for which the reviewer is designing electric drive motors An automotive engineer on the other hand might use it to better understand the

nature of motors and electric storage systems for application in automobiles trucks or motorcycles The early chapters of the book are accessible to technically literate people who need to know something about cars While the first chapter is historical in nature the second chapter is a good introduction to automobiles including dynamics of propulsion and braking The third chapter discusses in some detail spark ignition and compression ignition Diesel engines The fourth chapter discusses the nature of transmission systems James Kirtley Massachusetts Institute of Technology USA The third edition covers extensive topics in modern electric hybrid electric and fuel cell vehicles in which the profound knowledge mathematical modeling simulations and control are clearly presented Featured with design of various vehicle drivetrains as well as a multi objective optimization software it is an estimable work to meet the needs of automotive industry Haiyan Henry Zhang Purdue University USA The extensive combined experience of the authors have produced an extensive volume covering a broad range but detailed topics on the principles design and architectures of Modern Electric Hybrid Electric and Fuel Cell Vehicles in a well structured clear and concise manner The volume offers a complete overview of technologies their selection integration control as well as an interesting Technical Overview of the Toyota Prius The technical chapters are complemented with example problems and user guides to assist the reader in practical calculations through the use of common scientific computing packages It will be of interest mainly to research postgraduates working in this field as well as established academic researchers industrial R D engineers and allied professionals Christopher Donaghy Sparg Durham University United Kingdom The book deals with the fundamentals theoretical bases and design methodologies of conventional internal combustion engine ICE vehicles electric vehicles EVs hybrid electric vehicles HEVs and fuel cell vehicles FCVs The design methodology is described in mathematical terms step by step and the topics are approached from the overall drive train system not just individual components Furthermore in explaining the design methodology of each drive train design examples are presented with simulation results All the chapters have been updated and two new chapters on Mild Hybrids and Optimal Sizing and Dimensioning and Control are also included Chapters updated throughout the text New homework problems solutions and examples Includes two new chapters Features accompanying MATLAB software

Electric Drives and Electromechanical Systems Richard Crowder, 2019-10-19 Electric Drives and Electromechanical Devices Applications and Control Second Edition presents a unified approach to the design and application of modern drive system It explores problems involved in assembling complete modern electric drive systems involving mechanical electrical and electronic elements This book provides a global overview of design specification applications important design information and methodologies This new edition has been restructured to present a seamless logical discussion on a wide range of topical problems relating to the design and specification of the complete motor drive system It is organised to establish immediate solutions to specific application problem Subsidiary issues that have a considerable impact on the overall performance and reliability including environmental protection and costs energy efficiency and cyber security are also

considered Presents a comprehensive consideration of electromechanical systems with insights into the complete drive system including required sensors and mechanical components Features in depth discussion of control schemes particularly focusing on practical operation Includes extensive references to modern application domains and real world case studies such as electric vehicles Considers the cyber aspects of drives including networking and security **Monographs in Modern Electrical Technology** Alexander Kusko,1969 *Advanced Electrical Drives* Rik W. De Doncker,Duco W.J. Pulle,André Veltman,2020-08-21 This book provides a unique approach 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 the generalized modeling approach of rotating field machines which leads to the development of universal field oriented control algorithms Contrary to this direct torque control algorithms using observer based methods are developed for switched reluctance machines Tutorials are included at the end of each chapter and the reader is encouraged to execute these tutorials in order to gain familiarity with the dynamic behavior of drive systems This updated edition uses PLECS simulation and vector processing tools that were specifically adopted for the purpose of these hands on tutorials Hence Advanced Electrical Drives encourages learning by doing and the experienced drive specialist may find the simulation tools useful to design high performance torque controllers Although it is a powerful reference in its own right when used in conjunction with the companion texts Fundamentals of Electrical Drives and Applied Control of Electrical Drives this book provides a uniquely comprehensive reference set that takes readers all the way from understanding the basics of how electrical drives work to deep familiarity with advanced features and models to a mastery of applying the concepts to actual hardware in practice Teaches readers to perform insightful analysis of AC electrical machines and drives Introduces new modeling methods and modern control techniques for switched reluctance drives Updated to use PLECS simulation tools for modeling electrical drives including new and more experimental results Numerous tutorials at end of each chapter to learn by doing step by step Includes extra material featuring build and play lab modules for lectures and self study **Electrical Drive Simulation with MATLAB/Simulink** Viktor Perelmuter,2024-04-26 The chapters of this book discuss the modeling of electric drives taking into account their relationship with the technological process they serve which significantly affects the composition layout and characteristics of the electric drive There are no published books of this kind and this book fills a gap in the literature This book deals with electric drives for rolling mills paper machines a number of several hoisting and transport devices these installations are very common and very complex so that modeling methods in their development and study are mandatory The book focuses on issues such as the transmission of torque by elastic shafts the transmission of torque by an endless elastic belt in paper machines and conveyors the transmission of torque by friction of pressed rolls in the paper industry the consideration of the elastic properties of long ropes in some hoisting and transport machines and the effect of swinging a moving load in such machines More than 100 models of the electrical drives that are made with the use

of the program environment MATLAB Simulink are appended to this book. The aims of these models are to aid students studying electrical drives of the various manufacturing machines to facilitate the understanding of various electrical drive functions and to create a platform for the development of systems by readers in their fields. This book can be used by engineers and investigators as well as undergraduate and graduate students to develop new electrical drives and investigate the existing ones.

Advanced Control of Electrical Drives and Power Electronic Converters Jacek Kabziński, 2016-09-30. This contributed volume is written by key specialists working in multidisciplinary fields in electrical engineering linking control theory, power electronics, artificial neural networks, embedded controllers, and signal processing. The authors of each chapter report the state of the art of the various topics addressed and present results of their own research, laboratory experiments, and successful applications. The presented solutions concentrate on three main areas of interest: motion control in complex electromechanical systems including sensorless control, fault diagnosis, and fault tolerant control of electric drives; new control algorithms for power electronics converters. The chapters and the complete book possess strong monograph attributes. Important practical and theoretical problems are deeply and accurately presented on the background of an exhaustive state of the art review. Many results are completely new and were never published before. Well-known control methods like field-oriented control (FOC) or direct torque control (DTC) are referred to as a starting point for modifications or are used for comparison. Among numerous control theories used to solve particular problems are nonlinear control, robust control, adaptive control, Lyapunov techniques, observer design, model predictive control, neural control, sliding mode control, signal filtration, and processing, fault diagnosis, and fault tolerant control.

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 a 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

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