

401072

CHAPTER 1: FUNDAMENTAL OF ELECTRICAL DRIVES

Tri-Vien Vu, PhD

CHAPTER OBJECTIVES

After study this chapter, the student should be able to:

- State the definition, purpose, components of electrical drive systems
- List the typical application of DC and AC drive
- Be able to calculate the required speed and torque of the motor for a given application
- Analysis the stability of a given operating point

Fundamental Of Electrical Drives Solution Set

Gonzalo Abad



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Fundamentals of Electrical Drives DUBEY GOPAL K, 2002-06-13 Encouraged by the response to the first edition and to keep pace with recent developments *Fundamentals of Electrical Drives* Second Edition incorporates greater details on semiconductor controlled drives includes coverage of permanent magnet AC motor drives and switched reluctance motor drives and highlights new trends in drive technology Contents were chosen to satisfy the changing needs of the industry and provide the appropriate coverage of modern and conventional drives With the large number of examples problems and solutions provided *Fundamentals of Electrical Drives* Second Edition will continue to be a useful reference for practicing engineers and for those preparing for Engineering Service Examinations **Fundamentals of Electrical Drives** Gopal K. Dubey, 2001 Suitable for undergraduate and postgraduate courses in electrical drives this book covers topics on Dynamics and control of electrical drives Selection of motor power rating DC induction and synchronous motor drives Stepper motor and switched reluctance motor drives Permanent magnet ac and brushless dc motor drives and more *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 semiconductor 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 *Fundamentals of Electrical Drives* Andre Veltman, Duco W.J. Pulle, R.W. de Doncker, 2016-06-10 The purpose of this book is to familiarize the reader with all aspects of electrical drives It contains a comprehensive user friendly introductory text **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 **Power Electronics and Electric Drives for Traction Applications** Gonzalo Abad, 2016-09-13 *Power Electronics and Electric Drives for Traction Applications* offers a practical approach to understanding power electronics

applications in transportation systems ranging from railways to electric vehicles and ships It is an application oriented book for the design and development of traction systems accompanied by a description of the core technology The first four introductory chapters describe the common knowledge and background required to understand the preceding chapters After that each application specific chapter highlights the significant manufacturers involved provides a historical account of the technological evolution experienced distinguishes the physics and mechanics and where possible analyses a real life example and provides the necessary models and simulation tools block diagrams and simulation based validations Key features Surveys power electronics state of the art in all aspects of traction applications Presents vital design and development knowledge that is extremely important for the professional community in an original simple clear and complete manner Offers design guidelines for power electronics traction systems in high speed rail ships electric hybrid vehicles elevators and more applications Application specific chapters co authored by traction industry expert Learning supplemented by tutorial sections case studies and MATLAB Simulink based simulations with data from practical systems A valuable reference for application engineers in traction industry responsible for design and development of products as well as traction industry researchers developers and graduate students on power electronics and motor drives needing a reference to the application examples

Fundamentals and Applications of Lithium-ion Batteries in Electric Drive Vehicles Jiuchun

Jiang,Caiping Zhang,2015-02-18 A theoretical and technical guide to the electric vehicle lithium ion battery management system Covers the timely topic of battery management systems for lithium batteries After introducing the problem and basic background theory it discusses battery modeling and state estimation In addition to theoretical modeling it also contains practical information on charging and discharging control technology cell equalisation and application to electric vehicles and a discussion of the key technologies and research methods of the lithium ion power battery management system The author systematically expounds the theory knowledge included in the lithium ion battery management systems and its practical application in electric vehicles describing the theoretical connotation and practical application of the battery management systems Selected graphics in the book are directly derived from the real vehicle tests Through comparative analysis of the different system structures and different graphic symbols related concepts are clear and the understanding of the battery management systems is enhanced Contents include key technologies and the difficulty point of vehicle power battery management system lithium ion battery performance modeling and simulation the estimation theory and methods of the lithium ion battery state of charge state of energy state of health and peak power lithium ion battery charge and discharge control technology consistent evaluation and equalization techniques of the battery pack battery management system design and application in electric vehicles A theoretical and technical guide to the electric vehicle lithium ion battery management system Using simulation technology schematic diagrams and case studies the basic concepts are described clearly and offer detailed analysis of battery charge and discharge control principles Equips the reader with the

understanding and concept of the power battery providing a clear cognition of the application and management of lithium ion batteries in electric vehicles Arms audiences with lots of case studies Essential reading for Researchers and professionals working in energy technologies utility planners and system engineers **Drive Solutions** Edwin Kiel,2008-01-10 Highly automated production and logistics facilities require mechatronic drive solutions This book describes in which way the industrial production and logistics work and shows the structure of the drive solutions required for this purpose The functionality of the mechanical and electronic elements of a drive system is described and their basic dimensioning principles are explained The authors also outline the engineering reliability and important aspects of the life cycle *Fundamentals of Electric Aircraft* Pascal Thalin,Ravi Rajamani,Jean-Charles Mare,Sven Taubert,2018-12-18 Fundamentals of Electric Aircraft was developed to explain what the electric aircraft stands for by offering an objective view of what can be expected from the giant strides in innovative architectures and technologies enabling aircraft electrification Through tangible case studies a deep insight is provided into this paradigm shift cutting across various aircraft segments from General Aviation to Large Aircraft Addressing design constraints and timelines foreseen to reach acceptable performance and maturity levels Fundamentals of Electric Aircraft puts forward a general view of the progress made to date and what to expect in the years to come Drawing from the expertise of four industry veterans Pascal Thalin editor Ravi Rajamani Jean Charles Mare and Sven Taubert contributors it addresses futuristic approaches but does not depart too far from the operational down to earth realities of everyday business Fundamentals of Electric Aircraft also offers analyses on how performance enhancements and fuel burn savings may bring more value for money as long as new electric technologies deliver on their promises **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 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 **Chaos in Electric Drive Systems** K. T. Chau, Zheng Wang, 2011-03-31 In *Chaos in Electric Drive Systems Analysis Control and Application* authors Chau and Wang systematically introduce an emerging technology of electrical engineering that bridges abstract chaos theory and practical electric drives. The authors consolidate all important information in this interdisciplinary technology including the fundamental concepts, mathematical modeling, theoretical analysis, computer simulation, and hardware implementation. The book provides comprehensive coverage of chaos in electric drive systems with three main parts: analysis, control, and application. Corresponding drive systems range from the simplest to the latest types: DC induction, synchronous reluctance, switched reluctance, and permanent magnet brushless drives. The first book to comprehensively treat chaos in electric drive systems. Reviews chaos in various electrical engineering technologies and drive systems. Presents innovative approaches to stabilize and stimulate chaos in typical drives. Discusses practical application of chaos stabilization, chaotic modulation, and chaotic motion. Authored by well-known scientists in the field. Lecture materials available from the book's companion website. This book is ideal for researchers and graduate students who specialize in electric drives, mechatronics, and electric machinery, as well as those enrolled in classes covering advanced topics in electric drives and control. Engineers and product designers in industrial electronics, consumer electronics, electric appliances, and electric vehicles will also find this book helpful in applying these emerging techniques. Lecture materials for instructors available at www.wiley.com/go/chau_chaos.

Control in Power Electronics and Electrical Drives R. Zwick, 2014-06-28 Contains 97 papers which provide a valuable overview of the latest technical innovations in this rapidly expanding field. Areas of development which receive particular attention include the emergence of power switching transistors, the application of microprocessors to regulation and control of static converters and electrical drives, the use of more sophisticated control strategies, and the utilization of power electronics in new application fields. 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

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

Electric Machines Charles A. Gross, 2006-10-20 The two major broad applications of electrical energy are information processing and energy processing Hence it is no wonder that electric machines have occupied a large and revered space in the field of electrical engineering Such an important topic requires a careful approach and Charles A Gross Electric Machines offers the most balanced application oriented and modern perspective on electromagnetic machines available Written in a style that is both accessible and authoritative this book explores all aspects of electromagnetic mechanical EM machines Rather than viewing the EM machine in isolation the author treats the machine as part of an integrated system of source controller motor and load The discussion progresses systematically through basic machine physics and principles of operation to real world applications and relevant control issues for each type of machine presented Coverage ranges from DC induction and synchronous machines to specialized machines such as transformers translational machines and microelectromechanical systems MEMS Stimulating example applications include electric vehicles wind energy and vertical transportation Numerous example problems illustrate and reinforce the concepts discussed Along with appendices filled with unit conversions and background

material Electric Machines is a succinct in depth and complete guide to understanding electric machines for novel applications

Lithium-Ion Batteries: Basics and Applications Reiner Korthauer, 2018-08-07 The handbook focuses on a complete outline of lithium ion batteries Just before starting with an exposition of the fundamentals of this system the book gives a short explanation of the newest cell generation The most important elements are described as negative positive electrode materials electrolytes seals and separators The battery disconnect unit and the battery management system are important parts of modern lithium ion batteries An economical faultless and efficient battery production is a must today and is represented with one chapter in the handbook Cross cutting issues like electrical chemical functional safety are further topics Last but not least standards and transportation themes are the final chapters of the handbook The different topics of the handbook provide a good knowledge base not only for those working daily on electrochemical energy storage but also to scientists engineers and students concerned in modern battery systems

Control in Power Electronics and Electrical Drives W. Leonhard, 2014-05-18 Control in Power Electronics and Electrical Drives contains the proceedings of the Second International Federation of Automatic Control Symposium held in D sseldorf Germany on October 3 5 1977 The symposium provided a forum for discussing the effects of converter control on the design of electrical machines Comprised of 102 chapters this book begins by focusing on control systems employing electronic power converters along with converter circuits and converter control procedures The next section deals with the behavior of inverter fed electrical machines and requirements imposed by converter operation Topics covered include the status of power thyristors and rectifiers the dynamic performance of converter fed synchronous motors and open loop control of a linear vernier reluctance motor in a stepping mode Subsequent sections explore converter fed alternating current and direct current drives applications of controlled industrial drives and solid state energy conversion A number of methods for analyzing power electronic circuits are discussed and illustrated This monograph will be of interest to electronics and electrical engineers

Electrical Machines Slobodan N. Vukosavic, 2012-10-26 Electrical Machines primarily covers the basic functionality and the role of electrical machines in their typical applications The effort of applying coordinate transforms is justified by obtaining a more intuitive concise and easy to use model In this textbook mathematics is reduced to a necessary minimum and priority is given to bringing up the system view and explaining the use and external characteristics of machines on their electrical and mechanical ports Covering the most relevant concepts relating to machine size torque and power the author explains the losses and secondary effects outlining cases and conditions in which some secondary phenomena are neglected While the goal of developing and using machine mathematical models equivalent circuits and mechanical characteristics persists through the book the focus is kept on physical insight of electromechanical conversion process Details such as the slot shape and the disposition of permanent magnets and their effects on the machine parameters and performance are also covered

Digital Control of Electric Drives R. Koziol, J. Sawicki, L. Szklarski, 2013-10-22 The electromechanical systems employed in

different branches of industry are utilized most often as drives of working machines which must be fed with electric energy in a continuous periodic or even discrete way Some of these machines operate at constant speed others require wide and varying energy control In many designs the synchronous cooperation of several electric drives is required in addition to the desired dynamic properties For these reasons the control of the cooperation and dynamics of electromechanical systems requires the use of computers This book adopts an unusual approach to the subject in that it treats the electric drive system on the one hand as an element of a control system and on the other as an element of a complex automatic system These two trends in the development of the automatic control of electric drives have resulted in a volume that provides a thorough overview on the variety of different approaches to the design of control systems

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