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of Mumbai University w.e.f. academic year 2022-23

# Electrical Drives & Control

(Code : EEC701)

(Compulsory Subject)

**Semester VII – Electrical Engineering**

**M. A. Chaudhari    S. M. Chaudhari    S. K. Mahindrakar**

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# Electrical Drives And Control Textbook

**Werner Leonhard**



## **Electrical Drives And Control Textbook:**

Control of Electrical Drives Werner Leonhard, 2001-08-10 Electrical drives play an important role as electromechanical energy converters in transportation material handling and most production processes The ease of controlling electrical drives is an important aspect for meeting the increasing demands by the user with respect to flexibility and precision caused by technological progress in industry as well as the need for energy conservation At the same time the control of electrical drives has provided strong incentives to control engineering in general leading to the development of new control structures and their introduction to other areas of control This is due to the stringent operating conditions and widely varying specifications a drive may alternately require control of torque acceleration speed or position and the fact that most electric drives have in contrast to chemical or thermal processes well defined structures and consistent dynamic characteristics During the last years the field of controlled electrical drives has undergone rapid expansion due mainly to the advances of semiconductors in the form of power electronics as well as analogue and digital signal electronics eventually culminating in microelectronics and microprocessors The introduction of electronically switched solid state power converters has renewed the search for adjustable speed AC motor drives not subject to the limitations of the mechanical commutator of DC drives which dominated the field for a century

**Electrical Machine Drives Control** Juha Pyrhonen, Valeria Hrabovcova, R. Scott Semken, 2016-10-10 This comprehensive text examines existing and emerging electrical drive technologies The authors clearly define the most basic electrical drive concepts and go on to explain the most important details while maintaining a solid connection to the theory and design of the associated electrical machines Also including links to a number of industrial applications the authors take their investigation of electrical drives beyond theory to examine a number of practical aspects of electrical drive control and application Key features Provides a comprehensive summary of all aspects of controlled speed electrical drive technology including control and operation Handling of electrical drives is solidly linked to the theory and design of the associated electrical machines Added insight into problems and functions are illustrated with clearly understandable figures Offers an understanding of the main phenomena associated with electrical machine drives Considers the problem of bearing currents and voltage stresses of an electrical drive Includes up to date theory and design guidelines taking into account the most recent advances This book's rigorous coverage of theoretical principles and techniques makes for an excellent introduction to controlled speed electrical drive technologies for Electrical Engineering MSc or PhD students studying electrical drives It also serves as an excellent reference for practicing electrical engineers looking to carry out design analyses and development of controlled speed electrical drives

**Electrical Drives and Control** Uday A. Bakshi, 2007 *Control of Electrical Drives* W. Leonhard, 1990 **Predictive Control of Power Converters and**

**Electrical Drives** Jose Rodriguez, Patricio Cortes, 2012-04-09 Describes the general principles and current research into Model Predictive Control MPC the most up to date control method for power converters and drives The book starts with an

introduction to the subject before the first chapter on classical control methods for power converters and drives This covers classical converter control methods and classical electrical drives control methods The next chapter on Model predictive control first looks at predictive control methods for power converters and drives and presents the basic principles of MPC It then looks at MPC for power electronics and drives The third chapter is on predictive control applied to power converters It discusses control of a three phase inverter control of a neutral point clamped inverter control of an active front end rectifier and control of a matrix converter In the middle of the book there is Chapter four Predictive control applied to motor drives This section analyses predictive torque control of industrial machines and predictive control of permanent magnet synchronous motors Design and implementation issues of model predictive control is the subject of the final chapter The following topics are described in detail cost function selection weighting factors design delay compensation effect of model errors and prediction of future references While there are hundreds of books teaching control of electrical energy using pulse width modulation this will be the very first book published in this new topic Unique in presenting a completely new theoretic solution to control electric power in a simple way Discusses the application of predictive control in motor drives with several examples and case studies Matlab is included on a complementary website so the reader can run their own simulations

*ELECTRIC DRIVES* N. K. DW,P. K. SEN,1999-01-01 This book provides a comprehensive introduction to the fundamental concepts of electric drives and is eminently suited as a textbook for B E B Tech AMIE and diploma courses in electrical engineering It can also be used most effectively by all those preparing for GATE and UPSC competitive examinations as well as by practising engineers The topics which range from principles and techniques to industrial applications include characteristic features of drives methods of braking and speed control electromagnetic and solid state control of motors motor ratings transients in drive systems and operation of stepper motors      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

*Applied Control of Electrical Drives* Duco W. J. Pulle,Pete Darnell,André Veltman,2015-09-17 Provides an overall understanding of all aspects of AC electrical drives from the motor and converter to the implemented control algorithm with minimum mathematics needed Demonstrates how to implement and debug electrical drive systems using a set of dedicated hardware platforms motor setup and software tools in VisSim™ and PLECS™ No expert programming skills required allowing the reader to concentrate on drive development Enables the reader to undertake real time control of a safe low voltage and low cost experimental drive This book puts the fundamental and advanced concepts behind electric drives into practice Avoiding involved mathematics whenever practical this book shows the reader how to implement a range of modern day electrical drive concepts without requiring in depth programming skills It allows the user to build and run a series of AC drive concepts ranging from very basic drives to sophisticated sensorless drives Hence the book is the only modern resource available that bridges the gap between simulation and the actual experimental environment Engineers who need to implement an electrical drive or transition from sensed to sensorless drives as well as students who need to understand the practical aspects of working with electrical drives will greatly benefit from this unique reference

**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 semi conductor 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

**Electrical Drives and Controls** J. Gnanavadivel,2004 **Control of Electric Machine Drive Systems** Seung-Ki Sul,2011-04-20 A unique approach to sensorless control and regulator design of electric drives Based on the author s vast industry experience and collaborative works with other industries Control of Electric Machine Drive Systems is packed with tested implemented and verified ideas that engineers can apply to everyday problems in the field Originally published in Korean as a textbook this highly practical updated version features the latest information on the control of electric machines and apparatus as well as a new chapter on sensorless control of AC machines a topic not covered in any other publication The book begins by explaining

the features of the electric drive system and trends of development in related technologies as well as the basic structure and operation principles of the electric machine. It also addresses steady state characteristics and control of the machines and the transformation of physical variables of AC machines using reference frame theory in order to provide a proper foundation for the material. The heart of the book reviews several control algorithms of electric machines and power converters explaining active damping and how to regulate current speed and position in a feedback manner. Seung Ki Sul introduces tricks to enhance the control performance of the electric machines and the algorithm to detect the phase angle of an AC source and to control DC link voltages of power converters. Topics also covered are Vector control, Control algorithms for position speed sensorless drive of AC machines, Methods for identifying the parameters of electric machines and power converters, The matrix algebra to model a three phase AC machine in  $d-q-n$  axes. Every chapter features exercise problems drawn from actual industry experience. The book also includes more than 300 figures and offers access to an FTP site which provides MATLAB programs for selected problems. The book's practicality and realworld relatability make it an invaluable resource for professionals and engineers involved in the research and development of electric machine drive, business industrial drive designers and senior undergraduate and graduate students. To obtain instructor materials please send an email to [pressbooks\\_ieee.org](mailto:pressbooks_ieee.org). To visit this book's FTP site to download MATLAB codes please click on this link [ftp://ftp.wiley.com/public/sci\\_tech\\_med/electric\\_machine](ftp://ftp.wiley.com/public/sci_tech_med/electric_machine). MATLAB codes are also downloadable from Wiley Booksupport Site at <http://booksupport.wiley.com>.

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 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.

*Electrical Drives and Control for Automation* P. Aruna Jeyanthi, Christeena Francis, Sunil K. Joseph, 2018-06-03. Electrical drives convert electrical energy into mechanical energy and act as an intermediary between electrical supply systems, various energy sources, driven machines and the energy

consumer Electrical drives are major component in industrial applications driven technical developments and focus of various developments The core component of every electrical drive is the motor This book is divided into six modules Module 1 deals with DC machines principles of operation emf equation and armature reaction Module 2 contain principles of DC motors and their torque speed characteristics Module 3 mainly deals with transformers and their efficiency calculations In module 4 various aspects of induction motors were covered Module 5 and 6 mainly focusses on split phase and stepper motors Today electrical drives and their automation has become an essential integral part of every system and process This book will focus primarily on electrical drives and their control for automation although some of the topics covered will remain applicable to process control

A First Course on Electrical Drives S. K. Pillai,1989 The Aim Of Revision Is Mainly To Acquaint The Students With The Recent Trends In The Development Of Electric Motors Used As Prime Movers In Electric Drive Systems The Chapter On Introduction To Solid State Controlled Drives Has Been Expanded To Include Sections On Increasingly Used Brushless Dcmotors And Switched Reluctance Motors A Separate Chapter On The More Commonly Used Position Control Drive Motors Namely Stepper Motors Has Been Also Incorporated The Drives Used In The Fast Growing Petroleum Industry Have Been Included In The Chapter On Industrialapplications

**Control of Electrical Drives** Werner Leonhard,1985 Electrical drives play an important role as electromechanical energy converters in transportation and most production processes The ease of controlling electri cal drives is an important aspect for meeting the increasing demands by the user with respect to flexibility and precision caused by technological progress in industry Conversely the control of electrical drives has in the past provided strong incentives to control engineering in general leading to the development of new other areas of control This is due to control structures and their introduction to stringent operating conditions and widely varying specifications a drive may alternately require control of torque acceleration speed or position and the fact that most electric drives have in contrast to chemical or thermal pro cesses well defined structures and consistent dynamic characteristics During the last few years the field of controlled electrical drives has experi enced rapid expansion caused mainly by the advances of semiconductors in the form of power electronics as well as analogue and digital signal electronics eventually culminating in microelectronics and microprocessors The in troduction of electronically switched solid state power converters has renewed the search for ac motor drives not subject to the limitations of the mechanical commutator of de drives this has created new and difficult control problems

**Applied Control of Electrical Drives** Duco W. J. Pulle,Pete Darnell,André Veltman,2015 Provides an overall understanding of all aspects of AC electrical drives from the motor and converter to the implemented control algorithm with minimum mathematics needed Demonstrates how to implement and debug electrical drive systems using a set of dedicated hardware platforms motor setup and software tools in VisSim™ and PLECS™ No expert programming skills required allowing the reader to concentrate on drive development Enables the reader to undertake real time control of a safe low voltage and low cost experimental drive This book puts the fundamental

and advanced concepts behind electric drives into practice. Avoiding involved mathematics whenever practical, this book shows the reader how to implement a range of modern day electrical drive concepts without requiring in-depth programming skills. It allows the user to build and run a series of AC drive concepts ranging from very basic drives to sophisticated sensorless drives. Hence the book is the only modern resource available that bridges the gap between simulation and the actual experimental environment. Engineers who need to implement an electrical drive or transition from sensed to sensorless drives as well as students who need to understand the practical aspects of working with electrical drives will greatly benefit from this unique reference.

*Digital Control of Electrical Drives* Slobodan N. Vukosavic, 2007-07-26. *Digital Control of Electrical Drives* offers insight into electric drives and their usage in motion control environment. It provides links among electrical machine and control theory, practical hardware aspects, programming issues, and application-specific problems. The book prepares the reader to understand the key elements of motion control systems, analyze and design discrete time speed and position controllers, set adjustable feedback parameters, and evaluate closed-loop performances. Basic engineering principles are used to derive the controller structure in an intuitive manner so that designs are easy to comprehend, modify, and extend. *Digital Control of Electrical Drives* helps the reader acquire practical skills in designing discrete time speed and position controllers. Each chapter is followed by a set of Matlab and Simulink tools which help readers master the phases of design, tuning, simulation, and evaluation of discrete time controllers and foresee the effects of control solution on the overall motion control system. Readers will also understand the present performance limits of digital motion controllers.

*Electric Motors and Drives* Austin Hughes, 1993. *Electric Motors and Drives* is intended for non-specialist users of electric motors and drives, filling the gap between maths and theory-based academic textbooks and the more prosaic handbooks which provide useful detail but little opportunity for the development of real insight and understanding. The book explores all of the widely used modern types of motor and drive, including conventional and brushless DC induction motors and servo drives, providing readers with the knowledge to select the right technology for a given job. The third edition includes additional diagrams and worked examples throughout. Now topics include digital interfacing and control of drives, direct torque control of induction motors, and current-fed operation in DC drives. The material on brushless servomotors has also been expanded.

**BOOK JACKET**

**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 systems. 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 organized 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.

*A Textbook of Electrical Drives* Dr. M. Murali, 2024-04-30

*Fundamentals of Electrical Drives* serves as a comprehensive guide for understanding the intricate workings and principles behind electrical drive systems. Authored by experts in the field, this book delves into the essential concepts, theories, and applications of electrical drives, catering to both students and professionals in electrical engineering. The book begins by laying down the foundational knowledge required to comprehend electrical drive systems, including the fundamental principles of electromechanical energy conversion and control techniques. It then progresses to more advanced topics such as the analysis and design of various types of electric machines used in drive systems, including DC machines, induction machines, and synchronous machines. Throughout its pages, *Fundamentals of Electrical Drives* offers clear explanations supported by illustrative examples and practical applications, enabling readers to grasp complex concepts with ease. The authors emphasize a balanced approach between theoretical explanations and real-world implementations, ensuring that readers develop a thorough understanding of the subject matter. Furthermore, the book explores modern advancements and emerging technologies in the field of electrical drives, such as power electronics, adjustable speed drives, and digital control techniques. By incorporating these contemporary topics, the book remains relevant and up-to-date with the latest trends and developments in electrical drive systems. Overall, *Fundamentals of Electrical Drives* serves as an indispensable resource for anyone seeking a comprehensive understanding of electrical drive systems, offering valuable insights and practical knowledge essential for success in the field of electrical engineering.

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