

SECOND EDITION

Fundamentals of Electrical Drives



Gopal K. Dubey

Fundamentals Of Electric Drives

**André Veltman, Duco W.J. Pulle, R.W.
de Doncker**



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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 *Electric Motors and Drives* Austin Hughes,2005-12-14 *Electric Motors and Drives* is intended for non specialist users of electric motors and drives filling the gap between 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 D C induction motors and servo drives providing readers with the knowledge to select the right technology for a given job Austin Hughes approach using a minimum of maths has established *Electric Motors and Drives* as a leading guide for engineers and the key to a complex subject for a wider readership including technicians managers and students Acquire essential practical knowledge of motors and drives with a minimum of math and theory Updated material on the latest and most widely used modern motors and drives New edition includes additional diagrams and worked examples throughout

Basics of Electrical Drives Sivan Kumaraswami Pillai,2015 In this book fundamentals of electrical drives are discussed keeping in mind the students of electrical engineering Dynamics of electrical drives characteristics of dc and ac motors while starting running and braking determination of rating and heating of motors are described in detail Drives used in various industries are discussed in a separate chapter Industrial Applications Solved examples and problems are given at the end of most of the chapters The book acquaints 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 dc motors and Switched reluctance motors A separate chapter on the more commonly used position control drive motors namely Stepper Motors has been also incorporated Amazon in *Basics of Electrical Drives* Sivan Kumaraswami Pillai,2015 In this book fundamentals of electrical drives are discussed keeping in mind the students of electrical engineering Dynamics of electrical drives characteristics of dc and ac motors while starting running and braking determination of rating and heating of motors are described in detail Drives used in various industries are discussed in a separate chapter Industrial Applications Solved examples and problems are given at the end of most of the chapters The book acquaints 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 dc motors and Switched reluctance motors A separate chapter on the more commonly used position control drive motors namely Stepper Motors has been also incorporated Amazon in **Introduction to Electric Drives** Ishwar Singh,2024-05-17 This book *Introduction to Electric Drives* is written to offer readers a background walkthrough from which they will have an ample understanding of electric drive systems and their uses in different industries This book is an inseparable source for students apprentices researchers developers and specialists hunting for new knowledge on electric drives Less commonly electronic drives are used in electric motor applications in the industry in

infrastructure and transport networks as well as in renewable energy and electronics Knowledge of electric drive principles construction and operation is required of those whose tasks are to design implement or support electric drive electrical systems

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Electrical Machines and Drives Jan A. Melkebeek, 2018-01-20 This book aims to offer a thorough study and reference textbook on electrical machines and drives The basic idea is to start from the pure electromagnetic principles to derive the equivalent

circuits and steady state equations of the most common electrical machines in the first parts. Although the book mainly concentrates on rotating field machines, the first two chapters are devoted to transformers and DC commutator machines. The chapter on transformers is included as an introduction to induction and synchronous machines, their electromagnetics and equivalent circuits. Chapters three and four offer an in-depth study of induction and synchronous machines respectively. Starting from their electromagnetics, steady state equations and equivalent circuits are derived from which their basic properties can be deduced. The second part discusses the main power electronic supplies for electrical drives, for example rectifiers, choppers, cycloconverters and inverters. Much attention is paid to PWM techniques for inverters and the resulting harmonic content in the output waveform. In the third part, electrical drives are discussed, combining the traditional rotating field and DC commutator electrical machines treated in the first part and the power electronics of part two. Field orientation of induction and synchronous machines are discussed in detail, as well as direct torque control. In addition, also switched reluctance machines and stepping motors are discussed in the last chapters. Finally, part 4 is devoted to the dynamics of traditional electrical machines. Also for the dynamics of induction and synchronous machine drives, the electromagnetics are used as the starting point to derive the dynamic models. Throughout part 4, much attention is paid to the derivation of analytical models. But of course, the basic dynamic properties and probable causes of instability of induction and synchronous machine drives are discussed in detail, as well as the derived models for stability in the small as starting point. In addition to the study of the stability in the small, a chapter is devoted to large scale dynamics, as well as e.g. sudden short circuit of synchronous machines. The textbook is used as the course text for the Bachelor's and Master's programme in electrical and mechanical engineering at the Faculty of Engineering and Architecture of Ghent University. Parts 1 and 2 are taught in the basic course Fundamentals of Electric Drives in the third bachelor. Part 3 is used for the course Controlled Electrical Drives in the first master, while Part 4 is used in the specialised master on electrical energy.

Fundamentals of Electric Power Engineering Massimo Ceraolo, Davide Poli, 2014-04-07. This book serves as a tool for any engineer who wants to learn about circuits, electrical machines and drives, power electronics and power systems basics. From time to time, engineers find they need to brush up on certain fundamentals within electrical engineering. This clear and concise book is the ideal learning tool for them to quickly learn the basics or develop an understanding of newer topics. Fundamentals of Electric Power Engineering: From Electromagnetics to Power Systems helps nonelectrical engineers amass power system information quickly by imparting tools and trade tricks for remembering basic concepts and grasping new developments. Created to provide more in-depth knowledge of fundamentals rather than a broad range of applications, only this comprehensive and up-to-date book covers topics such as circuits, electrical machines and drives, power electronics and power system basics, as well as new generation technologies. Allows nonelectrical engineers to build their electrical knowledge quickly. Includes exercises with worked solutions to assist readers in grasping concepts found in the book. Contains in-depth side bars throughout which

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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

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