

Theodore Wildi Electrical Machines 5th Edition

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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 with 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 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

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

offering a new perspective this textbook demystifies the operation of electric machines by providing an integrated understanding of electromagnetic fields electric circuits numerical analysis and computer programming it presents fundamental concepts in a rigorous manner emphasising underlying physical modelling assumptions and limitations and provides detailed explanations of how to implement the finite element method to explore these concepts using python it includes explanations of the conversion of concepts into algorithms and algorithms into code and examples building in complexity from simple linear motion electromagnets to rotating machines over 100 theoretical and computational end of chapter exercises test understanding with solutions for instructors and downloadable python code available online ideal for graduates and senior undergraduates studying electric machines electric machine design and control and power electronic converters and power systems engineering this textbook is also a solid reference for engineers interested in understanding analysing and designing electric motors generators and transformers

this best selling text takes on a theoretical practical and multidisciplinary approach to provide readers with a thorough understanding of modern electric power the extensive coverage of a wide range of topics the liberal use of excellent illustrations and photographs the real world orientation to practical issues and the clear reader friendly writing style are only a few of the outstanding features that contribute to the book's success and popularity new to this edition is a chapter on programmable logic controllers it covers the basic principles of plcs and shows by way of example how they are used in running the activities of a large service enterprise trend setting computer based activities involving controls and automation integrated with other business activities including e commerce are illustrated exercises at the end of each chapter are divided into four levels practical intermediate advanced and industrial application to encourage the reader to solve the problems answers are given at the back of the book a free instructor's manual isbn 0 13 093084 9 is available to instructors

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 to visit this book's ftp site to download matlab codes please click on this link ftp.wiley.com/public/sci_tech_med/electric_machine/matlab_codes are also downloadable from wiley booksupport site at booksupport.wiley.com

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gain an understanding of the inspection of large synchronous machines generators condensers and motors this text describes each component of the machine operational functions typical design features and tell tale signs that indicate each mode of failure compact with photos graphs commonly used inspection forms along with extensive references for each topic inspection of large synchronous machines is an excellent tool for operators inspectors and student engineers sponsored by IEEE Power Engineering Society

electric power engineers and technicians can turn to the revision of this popular handbook for step by step calculation procedures for solving over 300 problems commonly encountered in electrical power engineering included are calculations for such areas as network analysis ac and dc machines transformers transmission lines system stability grounding lighting design batteries and engineering economics 250 illustrations

this book fills the need for an up to date source of information on how to connect operate adjust and take performance data on the entire field of electric machinery key topics it enables readers to recognize understand analyze specify connect control and effectively apply the various existing types of electric motors and generators

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a thorough and understandable treatment of the topic it introduces different energy sources and various electric energy conversion techniques presents an overview of the electric power system and its components reviews circuit and power concepts in electrical circuits covers magnetic circuits and transformers fundamentals of rotating machines theory and application of three phase and single phase induction motors different power flow solution methods the abnormal operating conditions of power systems including fault studies system protection and power system stability contains scores of problems examples illustrations and diagrams

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