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2023-09-27

LEVY STONE

Fundamentals of Electrical Drives

Tata McGraw-Hill Education

Special Features: · Power semiconductor devices are viewed from the physics, circuit, modeling and thermal viewpoints for a better understanding of the devices. · AC-DC, DC-DC, DC-AC converters and magnetic devices are treated from both the conceptual and design perspectives. · A separate chapter is included that addresses the analysis and design of linear regulators. · A chapter is included to address the modeling methods to obtain dynamic models of power electronics systems. The method of bond graph is introduced for modeling power electronics systems. · The design of discrete domain controllers in both classical and state space approach are included which addresses the needs of power electronic systems. · Optimal and robust control design methods as applied to power electronics systems are addressed. · Discrete numerical algorithms for digital implementation with respect to power electronics systems are addressed in a separate chapter. · A separate chapter is

devoted to the thermal aspects like heat sink sizing for power electronics systems. · Design integration by specifying and designing for reliability with power electronics system examples is another unique feature of this book. · The appendices include the following: · Derivation of the area product for a saturable-core transformer. · Representative list of commonly used core types and their physical parameters. · Representative list of commonly used wire gauges. · Laplace transforms and z-transforms of few time domain signals. · List of specifications for the induction motor used for controller design. · Description of all the object parameters for various electronic components from the reliability prediction viewpoint. Pedagogy includes: · 600+ illustrations and line diagrams. · 480+ descriptive questions. · 440+ objective questions. · 200+ unsolved problems. · 50+ explanatory examples and solved problems. Companion CD contains: · Reliability prediction toolbox · Bond graph simulation toolbox · Several circuit and design examples About The Book: This book on power electronics spans a wide knowledge base such as power devices, drives, circuit topologies,

magnetics, system modeling, control configurations, digital processing, thermal and reliability aspects. The book has been broadly divided into two types of topics viz. (a) circuit-oriented aspects and (b) system-oriented aspects. The first seven chapters deal with circuit-oriented aspects of power electronics systems and the remaining chapters deal with system-oriented aspects like controls and reliability.

Power Electronics PHI Learning Pvt. Ltd. For over 15 years "Principles of Electrical Machines" is an ideal text for students who look to gain a current and clear understanding of the subject as all theories and concepts are explained with lucidity and clarity. Succinctly divided in 14 chapters, the book delves into important concepts of the subject which include Armature Reaction and Commutation, Single-phase Motors, Three-phase Induction motors, Synchronous Motors, Transformers and Alternators with the help of numerous figures and supporting chapter-end questions for retention.

Electric machinery fundamentals: Fourth edition Routledge

"With new examples and the incorporation of MATLAB problems, the fourth edition gives comprehensive coverage of topics not found in any other texts." (Midwest).

Electrical Power Systems Morgan & Claypool Publishers

This book is intended for a course that combines machinery and power systems into one semester. It is designed to be flexible and to allow instructors to choose chapters a la carte, so the instructor controls the emphasis. The text gives students the information they need to become real-world engineers, focusing on principles and teaching how to use information as opposed to doing a

lot of calculations that would rarely be done by a practising engineer. The author compresses the material by focusing on its essence, underlying principles. MATLAB is used throughout the book in examples and problems. *A Textbook of Electrical Technology - Volume II* Oxford University Press, USA For this revision of their bestselling junior- and senior-level text, Guru and Hiziroglu have incorporated eleven years of cutting-edge developments in the field since *Electric Machinery and Transformers* was first published. Completely re-written, the new Second Edition also incorporates suggestions from students and instructors who have used the First Edition, making it the best text available for junior- and senior-level courses in electric machines. The new edition features a wealth of new and improved problems and examples, designed to complement the authors' overall goal of encouraging intuitive reasoning rather than rote memorization of material. Chapter 3, which presents the conversion of energy, now includes: analysis of magnetically coupled coils, induced emf in a coil rotating in a uniform magnetic field, induced emf in a coil rotating in a time-varying magnetic field, and the concept of the revolving field. All problems and examples have been rigorously tested using Mathcad.

Power Conversion Applications in Power Systems Pearson Education India

A multicolor edition of Vol. II of *A Textbook of Electrical Technology* to keep pace with the ever-increasing scope of essential and modern technical information, the syllabi are frequently revised. This often results into compressing established facts to accommodate recent information in the syllabi. Fields of power-electronics and

industrial power-conditioners have grown considerably resulting into changed priority of topics related to electrical machines. Switched reluctance-motors tend to threaten the most popular squirrel-cage induction motors due to their increased ruggedness, better performance including controllability and equal ease with which they suit rotary as well as linear-motion-applications.

Journal of the Institution of Engineers (India). S. Chand Publishing

A study of power semiconductor controlled drives that contain dc, induction and synchronous motors. Discusses the dynamics of motor and load systems; open and closed-loop drives; and thyristor, power transistor, and GTO converters. Also reviews arc drives, brushless and commutatorless dc drives, and rectifier controlled dc drives. Annotation copyrighted by Book News, Inc., Portland, OR

Power Electronics Electrical Machines-I Provides comprehensive coverage of the basic principles and methods of electric power conversion and the latest developments in the field This book constitutes a comprehensive overview of the modern power electronics. Various semiconductor power switches are described, complementary components and systems are presented, and power electronic converters that process power for a variety of applications are explained in detail. This third edition updates all chapters, including new concepts in modern power electronics. New to this edition is extended coverage of matrix converters, multilevel inverters, and applications of the Z-source in cascaded power converters. The book is accompanied by a website hosting an instructor's manual, a PowerPoint presentation, and a set of PSpice files for simulation of a variety of

power electronic converters. Introduction to Modern Power Electronics, Third Edition: Discusses power conversion types: ac-to-dc, ac-to-ac, dc-to-dc, and dc-to-ac Reviews advanced control methods used in today's power electronic converters Includes an extensive body of examples, exercises, computer assignments, and simulations Introduction to Modern Power Electronics, Third Edition is written for undergraduate and graduate engineering students interested in modern power electronics and renewable energy systems. The book can also serve as a reference tool for practicing electrical and industrial engineers.

Pearson Education India

Electrical Machines-I KHANNA

PUBLISHING HOUSE

Electric Machines and Drives Technical Publications

This book covers the complete syllabi prescribed for undergraduate courses in electrical, electronics, mechanical and instrumentation engineering offered by various Indian universities. The objective of this text is to provide thorough knowledge in the emerging field of special electrical machines. It discusses the stepper motor, switched reluctance motor, permanent magnet dc and ac motors, brushless dc motors, single phase special electric motors, servomotors, linear electric machines and permanent magnet axial flux machines. Key Features • Chapter on permanent magnet axial flux machines (not available in other Indian authors' books) • Numerous worked-out examples • Based on classroom tested materials • Simplified mathematical analysis Besides undergraduate students, the book will also be useful to the postgraduate students specialising in

drives and control, power electronics, control systems and mechatronics.

Principles of Electrical Machines S.

Chand Publishing

This book, *Electronic Devices and Circuit Application*, is the first of four books of a larger work, *Fundamentals of Electronics*. It is comprised of four chapters describing the basic operation of each of the four fundamental building blocks of modern electronics: operational amplifiers, semiconductor diodes, bipolar junction transistors, and field effect transistors. Attention is focused on the reader obtaining a clear understanding of each of the devices when it is operated in equilibrium. Ideas fundamental to the study of electronic circuits are also developed in the book at a basic level to lessen the possibility of misunderstandings at a higher level. The difference between linear and non-linear operation is explored through the use of a variety of circuit examples including amplifiers constructed with operational amplifiers as the fundamental component and elementary digital logic gates constructed with various transistor types. *Fundamentals of Electronics* has been designed primarily for use in an upper division course in electronics for electrical engineering students. Typically such a course spans a full academic year consisting of two semesters or three quarters. As such, *Electronic Devices and Circuit Applications*, and the following two books, *Amplifiers: Analysis and Design* and *Active Filters and Amplifier Frequency Response*, form an appropriate body of material for such a course. Secondary applications include the use in a one-semester electronics course for engineers or as a reference for practicing engineers.

HVDC Transmission WIT Press

This book is part of a three-book series.

Ned Mohan has been a leader in EES education and research for decades, as author of the best-selling text/reference *Power Electronics*. This book emphasizes applications of electric machines and drives that are essential for wind turbines and electric and hybrid-electric vehicles. The approach taken is unique in the following respects: A systems approach, where Electric Machines are covered in the context of the overall drives with applications that students can appreciate and get enthusiastic about; A fundamental and physics-based approach that not only teaches the analysis of electric machines and drives, but also prepares students for learning how to control them in a graduate level course; Use of the space-vector-theory that is made easy to understand. They are introduced in this book in such a way that students can appreciate their physical basis; A unique way to describe induction machines that clearly shows how they go from the motoring-mode to the generating-mode, for example in wind and electric vehicle applications, and how they ought to be controlled for the most efficient operation.

Electrical Engineering Division Oxford University Press, USA

Power Electronics: Devices, Circuits and Industrial Applications would serve as an invaluable text for undergraduate and postgraduate courses on power electronics. It would also be a useful reference for practicing design engineers. The book provides an exhaustive coverage of various power electronic devices with emphasis on the thyristor. The characteristics of modern power semiconductor devices like the power transistor, MOSFET and the IGBT are also discussed. Other relevant topics like cycloconverters, brushless DC motors, microprocessor fundamentals,

microprocessor control of industrial equipment, and field-oriented control of AC motors, are dealt with in detail. With its in-depth presentation of topics, detailed and easy-to-understand derivations, the emphasis of the book is on the understanding of fundamental concepts. The theory is well-supported by a large number of solved and unsolved problems and multiple choice questions. The lucid treatment in the book encourages self-study and motivates the student towards independent problem solving.

Objective Electrical Technology PHI Learning Pvt. Ltd.

Power Electronics is intended to be an introductory text in power electronics, primarily for the undergraduate electrical engineering student. The text is written for some flexibility in the order of the topics. Much of the text includes computer simulation using PSpice as a supplement to analytical circuit solution techniques.

Control Systems (As Per Latest Jntu Syllabus) Irwin Electronics & Computer Engineering

The comprehensive study of electric, magnetic and combined fields is nothing but electromagnetic engineering. Along with electronics, electromagnetics plays an important role in other branches. The book is structured to cover the key aspects of the course Electromagnetic Field Theory for undergraduate students. The knowledge of vector analysis is the base of electromagnetic engineering. Hence book starts with the discussion of vector analysis. Then it introduces the basic concepts of electrostatics such as Coulomb's law, electric field intensity due to various charge distributions, electric flux, electric flux density, Gauss's law, divergence and divergence theorem. The book continues to explain

the concept of elementary work done, conservative property, electric potential and potential difference and the energy in the electrostatic fields. The detailed discussion of current density, continuity equation, boundary conditions and various types of capacitors is also included in the book. The book provides the discussion of Poisson's and Laplace's equations and their use in variety of practical applications. The chapter on magnetostatics incorporates the explanation of Biot-Savart's law, Ampere's circuital law and its applications, concept of curl, Stoke's theorem, scalar and vector magnetic potentials. The book also includes the concept of force on a moving charge, force on differential current element and magnetic boundary conditions. The book covers all the details of Faraday's laws, time varying fields, Maxwell's equations and Poynting theorem. Finally, the book provides the detailed study of uniform plane waves including their propagation in free space, perfect dielectrics, lossy dielectrics and good conductors. The book uses plain, lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. The variety of solved examples is the feature of this book which helps to inculcate the knowledge of the electromagnetics in the students. Each chapter is well supported with necessary illustrations and self-explanatory diagrams. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

SPECIAL ELECTRICAL MACHINES

McGraw-Hill Higher Education

This book is written so that it serves as a

text book for B.E./B.Tech degree students in general and for the institutions where AICTE model curriculum has been adopted. TOPICS COVERED IN THIS BOOK:- Magnetic field and Magnetic circuit Electromagnetic force and torque D.C. Machines D.C. Machines-Motoring and Generation SALIENT FEATURES:- Self-contained, self-explanatory and simple to follow text. Numerous worked out examples. Well Explained theory parts with illustrations. Exercises, objective type question with answers at the end of each chapter.

Power Semiconductor Controlled Drives New Age International

In the present edition, authors have made sincere efforts to make the book up-to-date. A notable feature is the inclusion of two chapters on Power System. It is hoped that this edition will serve the readers in a more useful way.

Electric Machines and Electric Drives CRC Press

HVDC is a critical solution to several major problems encountered when trying to maintain systemic links and quality in large-scale renewable energy environments. HVDC can resolve a number of issues, including voltage stability of AC power networks, reducing fault current, and optimal management of electric power, ensuring the technology will play an increasingly important role in the electric power industry. To address the pressing need for an up-to-date and comprehensive treatment of the subject, Kim, Sood, Jang, Lim and Lee have collaborated to produce this key text and reference. Combining classroom-tested materials from North America and Asia, HVDC Transmission compactly summarizes the latest research results, and includes the insights of experts from power systems, power electronics, and simulation

backgrounds. The authors walk readers through basic theory and practical applications, while also providing the broader historical context and future development of HVDC technology.

Presents case studies covering basic and advanced HVDC deployments headed by world-renowned experts Demonstrates how to design, analyze and maintain HVDC systems in the field Provides updates on new HVDC technologies, such as active power filters, PWM, VSC, and 800 KV systems Rounds out readers' understanding with chapters dedicated to the key areas of simulation and main circuit design Introduces wind power system interconnection with HVDC Arms readers with an understanding of future HVDC trends Balancing theoretical instruction with practical application, HVDC Transmission delivers comprehensive working knowledge to power utility engineers, power transmission researchers, and advanced undergraduates and postgraduates in power engineering programs. The book is also a useful reference to for engineers and students focused on closely related areas such as renewable energy and power system planning.

Journal of the Institution of Engineers (India). Electrical Engineering Division
John Wiley & Sons

It is gratifying to note that the book has very widespread acceptance by faculty and students throughout the country. In the revised edition some new topics have been added. Additional solved examples have also been added. The data of transmission system in India has been updated.

Power System Protection and Switchgear New Academic Science Limited

About the Book: Electrical power system together with Generation, Distribution

and utilization of Electrical Energy by the same author cover almost six to seven courses offered by various universities under Electrical and Electronics Engineering curriculum. Also, this

combination has proved highly successful for writing competitive examinations viz. UPSC, NTPC, National Power Grid, NHPC, etc.