

Power Semiconductor Controlled Drives By Gopal K Dubey

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Power Semiconductor Controlled Drives - G. K. Dubey 1989

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

Proceedings of the Trends in Electronics Conference - 1999

International Aerospace Abstracts - 1999

Power System Dynamics and Stability - Peter W. Sauer 1998

For a one-semester senior or beginning graduate level course in power system dynamics. This text begins with the fundamental laws for basic devices and systems in a mathematical modeling context. It includes systematic derivations of standard synchronous machine models with their fundamental controls. These individual models are interconnected for system analysis and simulation. Singular perturbation is used to derive and explain reduced-order models.

Power Semiconductor Drives - S. Sivanagaraju 2009

FACTS Controllers - K. R PADIYAR 2020-10

Key Features: Concepts are explained with illustrative examples and case studies. Applications of SVC, TCSC, GCSC, SPST, STATCOM, SSSC, UPFC, IPFC and IPC for voltage/power control in transmission systems. Application of DSTATCOM, DVR and UPQC for improving power quality in distribution systems. Design of Power Oscillation Damping (POD) controllers. Mitigation of SSR using series FACTS Controllers. About the Book: The emerging technology of Flexible AC Transmission System (FACTS) enables planning and operation of power systems at minimum cost, without compromising security. This is based on modern high power electronic systems that provide fast controllability to ensure 'flexible' operation under changing system conditions. This book presents a comprehensive treatment of the subject by discussing the operating principles, mathematical models, control design and issues that affect the applications.

Intergrated Systems with Multiploe Techniques -

Thyristorised Power Controllers - G. K. Dubey 1986

A comprehensive treatment of the subject of power electronics is provided in this book. It deals with the principles of operation of various thyristorised power controllers systematically, and explains the important basic concepts for a beginner. For advanced readers and practising engineers it covers many topics such as static reactive power compensation, power factor control, current source inverter, time-sharing inverter, multiphase chopper and harmonic control in PWM inverters.

Electric Drives: Concepts & Appl, 2/E - Vedam Subrahmanyam 1996

Whitaker's Book List - 1989

Journal of the Institution of Electronics and Telecommunication Engineers - 1995

Power Semiconductor Controlled Drives - Prentice Hall PTR 1989-10-01

Soft Computing for Problem Solving - Jagdish Chand Bansal 2018-10-30

This two-volume book presents outcomes of the 7th International Conference on Soft Computing for Problem Solving, SocProS 2017. This conference is a joint technical collaboration between the Soft Computing Research Society, Liverpool Hope University (UK), the Indian Institute of Technology Roorkee, the South Asian University New Delhi and the National Institute of Technology Silchar, and brings together researchers, engineers and practitioners to discuss thought-provoking developments and challenges in order to select potential future directions. The book presents the latest advances and innovations in the interdisciplinary areas of soft computing, including original research papers in the areas including, but not limited to, algorithms (artificial immune systems, artificial neural networks, genetic algorithms, genetic programming, and particle swarm optimization) and applications (control systems, data mining and clustering, finance, weather forecasting, game theory, business and forecasting applications). It is a valuable resource for both young and experienced researchers dealing with complex and intricate real-world problems for which finding a solution by traditional methods is a difficult task.

Utilisation of Electric Power - N. V. Suryanarayana 1994

This Book Is Prepared For Undergraduate Students Of Various Indian Universities And Those Preparing For Associate Membership Examination Of The Institution Of Electrical Engineers (India) As Well The Diploma In Electrical Engineering Examination Of Various Boards Of Technical Education Covering The Subjects Electric Drives And Control And Utilisation Of Electric Energy. The Chapter On Illumination Deals Extensively With The Principles Of The Interior, Factory Lighting And Flood Lighting Schemes As Well As The Features Of Street Lighting. A Section On Photometric Measurement Is Added Along With A Study Of Halogen Lamps And Energy Saving Fluorescent Lamps. The Chapter On Electric Drives And Control Covers The Recent Trends In Electric Traction Using Gto Thyristor Technology. Objective Type Questions Were Incorporated For Self Assessment.

Advances in Control Instrumentation Systems - V. I. George 2021-07-11

This book comprises select peer-reviewed proceedings of the Control Instrumentation System Conference (CISCON 2019) in the specialized area of cyber-physical systems. The topics include current trends in the areas of instrumentation, sensors and systems, industrial automation and control, image and signal processing, robotics, renewable energy, power systems and power drives, and artificial intelligence technologies. Wide-ranging applications in various fields such as aerospace, biomedical, optical imaging and biomechanics are covered in the book. The contents of this book are useful for students, researchers as well as industry professionals working in the field of instrumentation and control engineering.

American Book Publishing Record - 1988

Power Semiconductor Drives - Shashi B. Dewan 1984-11-19

This book provides an analysis of the steady-state operation of both AC and DC drive systems, permitting specification of suitable converters and machines. It covers all major topics in control design and selection and includes the most recent methods of system analysis.

Basic Principles of Power Electronics - Klemens Heumann 2012-12-06

Power electronics became an identifiably separate area of electrical engineering with the invention of the thyristor about 30 years ago. The growing demand for controllability and conversion of electric energy has made this area increasingly important, which in turn has resulted in new device, circuit and control developments. In particular, new components, such as the GTO and power MOSFET, continue to extend power electronic technology to new applications. The technology embodied by the name "power electronics" is complex. It consists of both power level and signal level electronics, as well as thermal, mechanical, control, and protection systems. The power circuit, that part of the system actually processing energy, can be thought of as an amplifier around which is placed a closed loop control system. The goal of this book is to provide an easily understood exposition of the principles of power electronics. Common features of systems and their behavior are identified in order to facilitate understanding. Thyristor converters are distinguished and treated according to their mode of commutation. Circuits for various converters and their controls are presented, along with a description of ancillary circuits such as those required for snubbing and gate drives. Thermal and electrical properties of semiconductor power devices are discussed. The line-converter and converter-load interfaces are examined, leading to some general statements being made about energy transfer. Application areas are identified and categorized with respect to power and frequency ranges. The many tables presented in the book provide an easily used reference source.

Power Electronics and Ac Drives - Bimal K. Bose 1986

Power Electronics - P. S. Bimbhra 200?

Predictive Control of Power Converters and Electrical Drives - Jose Rodriguez 2012-04-30

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

Fundamentals of Electrical Drives - Andre Veltman 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 Machines and Drives - Ned Mohan 2011-12-13

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.

Smart Sensors Measurement and Instrumentation - Shreesha Chokkadi 2023-03-11

This book comprises the proceedings of the select peer-reviewed papers presented during the 18th Control Instrumentation System Conference (CISCON 2021). This book highlights the latest trends in instrumentation, sensors and systems, industrial automation and control, image and signal processing, robotics, renewable energy, power systems, and power drives. The research works covered in the book are of high quality and contributed by experts in academia and industry to provide meaningful direction for prolific growth. The book also features a few chapters contributed by the leading policymakers, technologists, farmers, and doctors who help outline the roadmap from the need for technology to policy-making to effect and implement technological advancements for the nation-building process. The book will serve as a valuable reference resource for academics and researchers across the globe.

Power Electronics and Motor Control - W. Shepherd 1995

This clear and concise advanced textbook is a comprehensive introduction to power electronics.

High Performance Control of AC Drives with Matlab/Simulink - Haitham Abu-Rub 2021-05-11

High Performance Control of AC Drives with Matlab®/Simulink Explore this indispensable update to a popular graduate text on electric drive techniques and the latest converters used in industry The Second Edition of High Performance Control of AC Drives with Matlab®/Simulink delivers an updated and thorough overview of topics central to the understanding of AC motor drive systems. The book includes new material on medium voltage drives, covering state-of-the-art technologies and challenges in the industrial drive system, as well as their components, and control, current source inverter-based drives, PWM techniques for multilevel inverters, and low switching frequency modulation for voltage source inverters. This book covers three-phase and multiphase (more than three-phase) motor drives including their control and practical problems faced in the field (e.g., adding LC filters in the output of a feeding converter), are considered. The new edition contains links to Matlab®/Simulink models and PowerPoint slides ideal for teaching and understanding the material contained within the book. Readers will also benefit from the inclusion of: A thorough introduction to high performance drives, including the challenges and requirements for electric drives and medium voltage industrial applications An exploration of mathematical and simulation models of AC machines, including DC motors and squirrel cage induction motors A treatment of pulse width modulation of power electronic DC-AC converter, including the classification of PWM schemes for voltage source and current source inverters Examinations of harmonic injection PWM and field-oriented control of AC machines Voltage source and current source inverter-fed drives and their control Modelling and control of multiphase motor drive system Supported with a companion website hosting online resources. Perfect for senior undergraduate, MSc and PhD students in power electronics and electric drives, High Performance Control of AC Drives with Matlab®/Simulink will also earn a place in the libraries of researchers working in the field of AC motor drives and power electronics engineers in industry.

Power Electronics - Vedam Subrahmanyam 1997-12-08

Describes the complete performance details of solid state devices of the thyristor group including GTOs and transistor family along with problems and solutions associated with their operation. Presents both theoretical and mathematical aspects of all types of thyristor converters, stipulating the thermal design for their effective utilization plus mathematical analysis. Contains a variety of numerical examples, scores of worked examples, review and multiple choice questions.

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.

Power Electronics and Variable Frequency Drives - Bimal K. Bose 1997

This original contributed volume combines the individual expertise of eleven world-renowned professionals to provide comprehensive, authoritative coverage of state-of-the-art power electronics and AC drive technology. Featuring an extensive introductory chapter by power-electronics expert Bimal K. Bose and more than 400 figures, POWER ELECTRONICS AND VARIABLE FREQUENCY DRIVES covers each of the field's component disciplines and drives--all in one complete resource. Broad in scope and unique in its presentation, this volume belongs on the bookshelf of every industry engineer, professor, graduate student, and researcher involved in this fast-growing multidisciplinary field. It is an essential for teaching, research, development, and design.

Official Gazette of the United States Patent and Trademark Office - United States. Patent and Trademark Office 2002

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.

Modern Power Electronics and AC Drives - Bimal K. Bose 2002

"A clear understanding of power electronics and AC drives is crucially important in a wide range of modern systems, from household appliances to automated factories and it requires cross-disciplinary expertise that many engineers lack. Now, in Modern Power Electronics and AC Drives, one of the world's leading experts covers every aspect of the topic, including crucial innovations such as artificial intelligence, advanced estimation, and sensorless control. This book is not only important as an advanced reference but also covers the material for one senior-level and two graduate-level courses."--BOOK JACKET.

Proceedings - 1999

Build Your Own Electric Vehicle - Bob Brant 1994

Discusses the benefits of electric vehicles and includes step-by-step instructions for converting a Ford Ranger pickup into an electric vehicle

Bibliographic Guide to Technology - New York Public Library. Research Libraries 1978

THE INDIAN CUISINE - KRISHNA GOPAL DUBEY 2010-09-27

Variety is the spice of life, and knowing to prepare the different cuisines of the states, enhances the taste buds. This book contains many mouthwatering Indian dishes, their detailed recipes and their predominant role in Indian culture. The simple language and guidelines provide excellent introduction to theory and practices of the regional cooking procedures in Indian states. The book serves a platter of history of spices, their origin, the religious and medicinal impact of these spices, different cooking utensils and their usage, various methods of cooking and many finger-licking recipes. The text discusses the traditional and special delights of the four broad regions—East, West, North and South. The staple food and their occasion-oriented backdrop dominate all the descriptions. The recipes are simple, tested and standardized so that they can be easily adaptable by the students and professionals of college and food service organizations. Intended for undergraduate and postgraduate students of hotel management, this textbook will also be useful for the hoteliers and budding professional chefs. KEY FEATURES : The book covers : Staple diet of the people of different religions, cultures and customs Varied usage of spices and composite masalas Different types of gravies used Innumerable dishes and their preparations Various domestic tips for kitchen management Guidelines on keeping the kitchen fresh and free of odours Complete Indian cuisine integrated in one compendium

Power Semiconductor Controlled Drives - Gopal K. Dubey 1993

Electric Drives - Rakesh Singh Lodhi 2016-07-30

Advances in Control Instrumentation Systems - V. I. George 2020-07-10

This book comprises select peer-reviewed proceedings of the Control Instrumentation System Conference (CISCON 2019) in the specialized area of cyber-physical systems. The topics include current trends in the areas of instrumentation, sensors and systems, industrial automation and control, image and signal processing, robotics, renewable energy, power systems and power drives, and artificial intelligence technologies. Wide-ranging applications in various fields such as aerospace, biomedical, optical imaging and biomechanics are covered in the book. The contents of this book are useful for students, researchers as well as industry professionals working in the field of instrumentation and control engineering.

Proceedings of the 26th Intersociety Energy Conversion Engineering Conference - 1991