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NYASIA HOLDEN

Energy-efficient Electric Motors CRC Press

This book is about systolic signal processing systems: networks of signal processors with efficient data flow between the processors. It is written for students, engineers, and managers who wish a concise introduction to the key concepts and future directions of systolic processor architectures.

Power-Switching Converters, Second Edition Pearson Educación

This timely, authoritative reference covers a breadth of topics in the fields of circuit-switched communications and data networks. It focuses on methodologies for developing network models and techniques for analyzing numerous types and aspects of networks. Bringing together in one complete source a vast amount of information on recent technological advances, Network Modeling, Simulation, and Analysis examines applications of compartmental models to engineering ... network models for the performance analysis of local area computer networks ... closed-form solutions for the evaluation of network performance measures ... adaptive routing and design algorithms for reliable distributed networks ... mixed voice/data networks ... and more. Illustrating concepts with examples from actual case studies, more than 650 display equations, and numerous figures and tables, this exemplary resource is invaluable reading for electrical and electronics, communications, performance, control, industrial, systems, and manufacturing engineers; computer scientists/engineers; operations research scientists; applied mathematicians; and advanced undergraduate and graduate students in these disciplines. Book jacket.

Power-Switching Converters, Third Edition CRC Press

This text reveals all key components of rectification, inversion, cycloconversion, and conversion circuits. It authoritatively describes switching, voltage and current relationships, and converter properties, operation, control, and performance as utilized in most practical applications. Authored jointly by a veteran scholar and an accomplished res

Transformer and Inductor Design Handbook, Third Edition CRC Press

This book meets the vital need of providing one place where a comprehensive information on how to test more than one type of electronic component. It provides a key information necessary to allow users to get started immediately on component testing and presents effective options for handling high-, low- and medium-volume testing.

Systolic Signal Processing Systems CRC Press

Written as a companion to Transformer and Inductor Design Handbook (second ed), this work compiles the specifications of over 12,000 industrially available cores and brings them in line with standard units of measurement, simplifying the selection of core configurations for the design of magnetic components.

SPICE for Power Electronics and Electric Power CRC Press

Initially, the only electric loads encountered in an automobile were for lighting and the starter motor. Today, demands on

performance, safety, emissions, comfort, convenience, entertainment, and communications have seen the working-in of seemingly innumerable advanced electronic devices.

Consequently, vehicle electric systems require larger capacities and more complex configurations to deal with these demands. Covering applications in conventional, hybrid-electric, and electric vehicles, the Handbook of Automotive Power Electronics and Motor Drives provides a comprehensive reference for automotive electrical systems. This authoritative handbook features contributions from an outstanding international panel of experts from industry and academia, highlighting existing and emerging technologies. Divided into five parts, the Handbook of Automotive Power Electronics and Motor Drives offers an overview of automotive power systems, discusses semiconductor devices, sensors, and other components, explains different power electronic converters, examines electric machines and associated drives, and details various advanced electrical loads as well as battery technology for automobile applications. As we seek to answer the call for safer, more efficient, and lower-emission vehicles from regulators and consumer insistence on better performance, comfort, and entertainment, the technologies outlined in this book are vital for engineering advanced vehicles that will satisfy these criteria.

Neural Networks and Simulation Methods Routledge

After nearly a decade of success owing to its thorough coverage, abundance of problems and examples, and practical use of simulation and design, Power-Switching Converters enters its second edition with new and updated material, entirely new design case studies, and expanded figures, equations, and homework problems. This textbook is ideal for senior undergraduate or graduate courses in power electronic converters, requiring only systems analysis and basic electronics courses. The only text of such detail to also include the use of PSpice and step-by-step designs and simulations, Power-Switching Converters, Second Edition covers basic topologies, basic control techniques, and closed-loop control and stability. It also includes two new chapters on interleaved converters and switched capacitor converters, and the authors have added discrete-time modeling to the dynamic analysis of switching converters. The final two chapters are dedicated to simulation and complete design examples, respectively. PSpice examples and MATLAB scripts are available for download from the CRC Web site. These are useful for the simulation of students' designs. Class slides are also available on the Internet. Instructors will appreciate the breadth and depth of the material, more than enough to adapt into a customized syllabus. Students will similarly benefit from the more than 440 figures and over 1000 equations, ample homework problems, and case studies presented in this book.

Large-Scale Systems Control and Decision Making CRC Press

Extensively revised and expanded to present the state-of-the-art in the field of magnetic design, this third edition presents a practical approach to transformer and inductor design and covers extensively essential topics such as the area product, Ap, and core geometry, Kg. The book provides complete information on

magnetic materials and core characteristics using step-by-step design examples and presents all the key components for the design of lightweight, high-frequency aerospace transformers or low-frequency commercial transformers. Written by a specialist with more than 47 years of experience in the field, this volume covers magnetic design theory with all of the relevant formulas.

Operational Amplifiers & Linear Integrated Circuits CRC Press

This handbook provides comprehensive coverage of every type of electric motor in use today, from the generic forms of direct current induction, and synchronous machines, to permanent magnet DC motors, linear induction motors and stepper motors. Related topics such as finite element analysis, control, protection, testing, reliability, maintenance, specification procedures, and environmental and mechanical factors are discussed.

Digital Protective Relays CRC Press

If your work involves signal processing, digital picture processing, circuits and systems, stability, system structural analysis, feedback control techniques, digital filter design, biomedical data processing, object recognition for robotics, or related topics, *Multidimensional Systems* is the only reference you need!

Multidimensional Systems brings you a balanced, state-of-the-art presentation of the latest MDS concepts, methods, algorithms, and practical applications. Written by leading, international experts, the contributors not only provide essential review material in each chapter as well as up-to-date aspects of topics discussed, but also present fresh, original insights into their own experience with MDS. Moving smoothly from principles into applications, this single source covers such theoretical topics as structure and stability analysis, feedback control, finite-word-length effects, two-variable analog ladders, multidimensional signal modeling, two-dimensional digital filters, parameter and state identification, and multiprocessor configurations; applications include image processing, image transform coding, image restoration, and digital tomography. An ideal single source for electrical and electronics, industrial electronics, and computer engineers, the book is also important reading for systems scientists, mechanical engineers, and physicists and geophysicists. In addition, this volume offers graduate electrical engineering students, particularly those studying signal and image processing, a convenient, time-saving work on the techniques and applications of *Multidimensional Systems*. Book jacket.

Magnetic Core Selection for Transformers and Inductors CRC Press

Showcasing the most authoritative information, this book features step-by-step instructions on ordering raw materials, choosing construction techniques, conducting in-process inspection, performing end-item testing, and providing quality assurance recommendations to improve reliability and minimize cost. Providing 400 easy-to-follow illustrations,

Handbook of Automotive Power Electronics and Motor Drives Routledge

A multiplicity of techniques and angles of attack are incorporated in 18 contributions describing recent developments in the structure, architecture, programming, control, and implementation of industrial robots capable of performing intelligent action and decision making. Annotation copyright Book *Fet Technology and Application* CRC Press

First Published in 2017. Routledge is an imprint of Taylor & Francis, an Informa company.

JOSEPH HENRY CRC Press

By the time of his death in 1878, Joseph Henry was America's most eminent physical scientist. His achievements in the study of electricity, magnetism, and telegraphy earned him a 30-year tenure as the first secretary of the Smithsonian. This biography illuminates not only the character of 19th-century scientific exploration but also the place of science in American culture. 12 illustrations.

Testing Active and Passive Electronic Components CRC Press

First Published in 2017. Routledge is an imprint of Taylor & Francis, an Informa company.

High Voltage Circuit Breakers CRC Press

This work explains network dynamics, learning paradigms, and computational capabilities of feedforward, self-organization, and feedback neural network models-addressing specific problems such as data fusion and data modeling. It goes on to describe a neural network simulation software package - USTCNET and gives some segments of the program.

Power Converter Circuits CRC Press

"Bridges the gap between laboratory research and practical applications in industry and power utilities-clearly organized into three distinct sections that cover basic theories and concepts, execution of principles, and innovative new techniques. Includes new chapters detailing industrial uses and issues of hazard and safety, and review exercises to accompany each chapter."

Switch Mode Power Conversion CRC Press

This textbook is intended to introduce the student of electronics to the fundamentals of digital circuits, both combinational and sequential, in a reasonable and systematic manner. It proceeds from basic logic concepts to circuits and designs.

Intelligent Robotic Systems CRC Press

This book provides the reader with some insights into the many styles of field effect transistors (FETs) being used. It offers a rudimentary understanding of their operation and performance. The book explains the complex terminology that defines the various FET parameters.

Electric Relays Smithsonian Institution Scholarly Press

Here-in one current, comprehensive source-is a wealth of both theoretical and practical information on circuit interruption. Twenty-two authorities at the leading edge of research and development provide a solid grasp of circuit breaker design and performance... and that's knowledge you can put to work immediately! *arcuit Interruption* surpasses other books in completeness and currency-including coverage of the sulfur hexafluoride puffer, the vacuum breaker, and the low-voltage molded-case breakers, that are taking the place of many older types. In addition to the latest theories and techniques, this major volume examines promising future trends. More than 400 clear illustrations help make the text easy to follow, and over 620 key references point the way to the best places for continuing study. Today, the field of circuit interruption is so diverse that a thorough single source really stands out. *arcuit Interruption* is that- source, the perfect reference for electrical, electronic, power, and design engineers; and researchers investigating circuit breaker design, interaction of breakers and power circuits, power transmission, power distribution, circuit interruption, electric contacts, and gaseous conduction. Moreover, this exceptional book serves as an excellent source for practicing power engineers as well as an invaluable supplement to graduate-level engineering courses in circuit interruption, transmission, and distribution of power . . . and a supplement in professional seminars and society/association courses.