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Control Engineering - 1980

NASA technical note - 1970

Evaluating Ozone Air Pollution Effects on Pines in the Western United States - 1996

Power Electronics Handbook - Muhammad H. Rashid 2010-07-19

Power electronics, which is a rapidly growing area in terms of research and applications, uses modern electronics technology to convert electric power from one form to another, such as ac-dc, dc-dc, dc-ac, and ac-ac with a variable output magnitude and frequency. Power electronics has many applications in our every day life such as air-conditioners, electric cars, sub-way trains, motor drives, renewable energy sources and power supplies for computers. This book covers all aspects of switching devices, converter circuit topologies, control techniques, analytical methods and some examples of their applications. * 25% new content * Reorganized and revised into 8 sections comprising 43 chapters * Coverage of numerous applications, including uninterruptable power supplies and automotive electrical systems * New content in power generation and distribution, including solar power, fuel cells, wind turbines, and flexible transmission

DC Power Supplies - Nihal Kularatna 2018-10-03

As we increasingly use electronic devices to direct our daily lives, so grows our dependence on reliable energy sources to power them. Because modern electronic systems demand steady, efficient, reliable DC voltage sources—often at a sub-1V level—commercial AC lines, batteries, and other common resources no longer suffice. New technologies also require intricate techniques to protect against natural and manmade disasters. Still, despite its importance, practical information on this critical subject remains hard to find. Using simple, accessible language to balance coverage of theoretical and practical aspects, DC Power Supplies, Power Management and Surge Protection details the essentials of power electronics circuits applicable to low-power systems, including modern portable devices. A summary of underlying principles and essential design points, it compares academic research and industry publications and reviews DC power supply fundamentals, including linear and low-dropout regulators. Content also addresses common switching regulator topologies, exploring resonant conversion approaches. Coverage includes other important topics such as: Control aspects and control theory Digital control and control ICs used in switching regulators Power management and energy efficiency Overall power conversion stage and basic protection strategies for higher reliability Battery management and comparison of battery chemistries and charge/discharge management Surge and transient protection of circuits designed with modern semiconductors based on submicron dimension transistors This specialized design resource explores applicable fundamental elements of power sources, with numerous cited references and discussion of commercial components and manufacturers. Regardless of their previous experience level, this information will greatly aid designers, researchers, and academics who, study, design, and produce the viable new power sources needed to propel our modern electronic world. CRC Press Authors Speak Nihal Kularatna introduces his book. Watch the video

Space/aeronautics - 1961

Breathing Patterns and Gas Mixing in Patients with Pulmonary Emphysema - Violet Ruth Pfeiffer 1963

Vegetation Change in California's Blue Oak (Quercus Douglasii) Woodlands 1932-1992 - Barbara Ann Holzman 1993

SPICE for Power Electronics and Electric Power - Muhammad H. Rashid 2017-12-19

Power electronics can be a difficult course for students to understand and for professors to teach. Simplifying the process for both, SPICE for Power Electronics and Electric Power, Third Edition illustrates methods of integrating industry standard SPICE software for design verification and as a theoretical laboratory bench. Helpful PSpice Software and Program Files Available for Download Based on the author Muhammad H. Rashid's considerable experience merging design content and SPICE into a power electronics course, this vastly improved and updated edition focuses on helping readers integrate the SPICE simulator with a minimum amount of time and effort. Giving users a better understanding of the operation of a power electronics circuit, the author explores the transient behavior of current and voltage waveforms for each and every circuit element at every stage. The book also includes examples of all types of power converters, as well as circuits with linear and nonlinear inductors. New in this edition: Student learning outcomes (SLOs) listed at the start of each chapter Changes to run on OrCAD version 9.2 Added VPRINT1 and IPRINT1 commands and examples Notes that identify important concepts Examples illustrating EVALUATE, GVALUE, ETABLE, GTABLE, ELAPLACE, GLAPLACE, EFREQ, and GFREQ Mathematical relations for expected outcomes, where appropriate The Fourier series of the output voltages for rectifiers and inverters PSpice simulations of DC link inverters and AC voltage controllers with PWM control This book demonstrates techniques of executing power conversions and ensuring the quality of the output waveforms rather than the accurate modeling of power semiconductor devices. This approach benefits students, enabling them to compare classroom results obtained with simple switch models of devices. In addition, a new chapter covers multi-level converters. Assuming no prior knowledge of SPICE or PSpice simulation, the text provides detailed step-by-step instructions on how to draw a schematic of a circuit, execute simulations, and view or plot the output results. It also includes suggestions for laboratory experiments and design problems that can be used for student homework assignments.

Resampling VTM Plots in Blue Oak Cover Type Series - Barbara Allen-Diaz 1993

Structural Health Monitoring 2013: A Roadmap to Intelligent Structures - Fu-Kuo Chang 2013-09-26

Original research on SHM sensors, quantification strategies, system integration and control for a wide range of engineered materials New applications in robotics, machinery, as well as military aircraft, railroads, highways, bridges, pipelines, stadiums, tunnels, space exploration and energy production Continuing a critical book series on structural health monitoring (SHM), this two-volume set (with full-text searchable CD-ROM) offers, as its subtitle implies, a guide to greater integration and control of SHM systems. Specifically, the volumes contain new research that will enable readers to more efficiently link sensor detection, diagnostics/quantification, overall system functionality, and automated, e.g., robotic, control, thus further closing the loop from inherent signal-based damage detection to responsive real-time

maintenance and repair. SHM performance is demonstrated in monitoring the behavior of composites, metals, concrete, polymers and selected nanomaterials in a wide array of surroundings, including harsh environments, under extreme (e.g., seismic) loading and in space. New information on smart sensors and network optimization is enhanced by novel statistical and model-based methods for signal processing and data quantification. A special feature of the book is its explanation of emerging control technologies. Research in these volumes was initially presented in September 2013 at the 9th International Workshop on Structural Health Monitoring (IWSHM), held at Stanford University and sponsored by the Air Force Office of Scientific Research, the Army Research Laboratory, and the Office of Naval Research.
Experiments for Industrial Electronics - Humphries 1989

Proceedings - Association of Asphalt Paving Technologists, Technical Sessions - Association of Asphalt Paving Technologists 1957

Sixth International Conference on Power Electronics and Variable Speed Drives - 1996

Operator's, Organizational, Direct Support, and General Support Maintenance Manual for Test Set, STE-M1/FVS (4910-01-112-9655). - 1985

Asphalt Paving Technology - Association of Asphalt Paving Technologists 2002

Semiconductor Power Electronics - Richard G. Hoft 2012-12-06

Semiconductors have been used widely in signal-level or "brain" applications. Since their invention in 1948, transistors have revolutionized the electronics industry in computers, information processing, and communications. Now, however, semiconductors are being used more and more where considerable "brawn" is required. Devices such as high-power bipolar junction transistors and power field-effect transistors, as well as SCRs, TRIACs, GTOs, and other semiconductor switching devices that use a p-n-p-n regenerative effect to achieve bistable action, are expanding the power-handling horizons of semiconductors and finding increasing application in a wide range of products including regulated power supplies, lamp dimmers, motor drives, pulse modulators, and heat controls. HVDC and electric-vehicle propulsion are two additional areas of application which may have a very significant long range impact on the technology. The impact of solid-state devices capable of handling appreciable power levels has yet to be fully realized. Since it first became available in late 1957, the SCR or silicon-controlled rectifier (also called the reverse blocking triode thyristor) has become the most popular member of the thyristor family. At present, SCRs are available from a large number of manufacturers in this country and abroad. SCR ratings range from less than one ampere to over three thousand amperes with voltage ratings in excess of three thousand volts.

Thyristor Device Data - 1985

MEMS and Nanotechnology, Volume 4 - Tom Proulx 2011-05-21

MEMS and Nanotechnology, Volume 4 represents one of eight volumes of technical papers presented at the Society for Experimental Mechanics Annual Conference on Experimental and Applied Mechanics, held at Uncasville, Connecticut, June 13-16, 2011. The full set of proceedings also includes volumes on Dynamic Behavior of Materials, Mechanics of Biological Systems and Materials, Mechanics of Time-Dependent Materials and Processes in Conventional and Multifunctional Materials; Optical Measurements, Modeling and Metrology; Experimental and Applied Mechanics, Thermomechanics and Infra-Red Imaging, and Engineering Applications of Residual Stress.

General Technical Report PSW. - 1978

IAS '96 - IEEE Industry Applications Society. Meeting 1996

Book of Nod - Sam Chupp 1994-03

This is the guide to the founding myths of the Great Clans of the game Vampire: The Masquerade. It includes the Tale of Caine and The Book of Shadows, in full. --
Operator's and Organizational Maintenance Manual, Including Repair Parts and Special Tools List - 1984

Reference Data for General Electric Microwave Products - General Electric Company. Tube Department 1970

Conference Record - IEEE Industry Applications Society. Annual Meeting 1996

New Trends and Developments in Automotive Industry - Marcello Chiaberge 2011-01-08

This book is divided in five main parts (production technology, system production, machinery, design and materials) and tries to show emerging solutions in automotive industry fields related to OEMs and no-OEMs sectors in order to show the vitality of this leading industry for worldwide economies and related important impacts on other industrial sectors and their environmental sub-products.

Optoelectronics Device Data - Motorola, inc. Technical Information Center 1987

Assessments And Remediation Of Oil Contaminated Soils - Paul Kostecki 1999

Paul T. Kostecki, Associate Director, Northeast Regional Environment Public Health Center, School Of Public Health, University Of Massachusetts At Amherst, Received His Ph.D. From The School Of Natural Resources At The University Of Michigan In 1980. He Has Been Involved With Human And Ecological Risk Assessment And Risk Management Research For The Last 12 Years. Dr. Kostecki Has Co-Authored And Co-Edited Over 50 Articles And 16 Books On Environmental Assessment And Cleanup Including: Remedial Technologies For Leaking Underground Storage Tanks, Soils Contaminated By Petroleum Products; Petroleum Contaminated Soils, Vols. 1 To 3; Hydrocarbon Contaminated Soils And Groundwater, Vols. 1 To 4; Hydrocarbon Contaminated Soils, Vols. 1 To 5; Principles And Practices For Diesel Contaminated Soils, Vols. 1 To 5; Sesoil In Environmental Fate And Risk Modeling, Contaminated Soils, Vol. 1 And Risk Assessment And Environmental Fate Methodologies. Dr. Kostecki Also Serves As Associate Editor For The Journal Of Soil Contamination, Chairman Of The Scientific Advisory Board For Soil And Groundwater Cleanup Magazine As Well As An Editorial Board Member For The Journal Of Human And Ecological Risk Assessment. In Addition, Dr. Kostecki Serves As Executive Director For The Association For The Environmental Health Of Soils (Aehs) And Was The Scientific Advisor For The Workshop On Assessment And Remediation Of Oil Contaminated Soils Held In Kuwait 18-22 March 1995. Dr. Manaf Behbehani Obtained His B.S. In Biology From The University Of Akron, Usa (1969) And M.S. In Zoology From The Same University (1972). He Continued His Graduate Studies At The University Of New Hampshire Receiving Ph.D. In Marine Ecology And Invertebrates In 1978. Since Then, He Has Been Teaching Ecology And Marine Biology Courses At The Faculty Of Science, Kuwait University. From 1982-1987, He Held The Post Of Marine Scientist At The Regional Organisation For The Protection Of The Marine Environment (Ropme) In Kuwait. Dr. Behbehani Has Worked On A Number Of Pioneering Research Projects, Namely To Study The Zooplankton Of Kuwaiti Waters And The Western Section Of The Arabian Gulf, And To Study The Distribution, Abundance And Taxonomy Of Marine Invertebrates Living In The Intertidal Zones Of Kuwait. He Has Published Several Scientific Articles And Has Served As External Examiner For Several Masters Thesis. From 1991-1995, Dr. Behbehani Was Vice-Dean For Planning And Laboratories At The Faculty Of Science, Kuwait University And Is Presently Chairman Of The National Biodiversity Committee, State Of Kuwait. He Was The Chairman Of The Scientific Committee For The Workshop On Assessment And Remediation Of Oil Contaminated Soils, The Proceedings Of Which Are Published In This Book.

Motorola Thyristor Data - Motorola Semiconductor Products Inc. Technical Information Center 1985

Determining Environmental Realized Niches for Six Oak Species in California Through Direct Gradient Analysis and Ecological Response Surface Modeling - Rand Rodrick Evett 1994

Perspectives in Creep Fracture - M. F. Ashby 2014-05-23

Perspectives in Creep Fracture is a collection of studies that covers the advances in the analysis of the mechanisms involved in the process of creep fracture. The book presents nine articles that present data and discuss the theoretical advancement in the field. The text first covers the mechanisms leading to fracture in metals and ceramics, and then proceeds to tackling the problem of the nucleation of creep damage. Next, the book details the models for the growth of cracks and voids by diffusion and by plastic processes. The next two chapters deal with the creep fracture of ceramics. In the eighth chapters, the text examines the development and propagation of creep cracks. The last chapter details the theory involved in the propagation of cracks by cavitation. The book will be of great interest to researchers and practitioners of materials engineering, metallurgy, and other fields involved in fracture mechanics.

Analisis Dan Desain Penyearah DC Dengan Simulasi PSPICE - Sudirman Syam 2020-02-01

Buku ini menyajikan perlakuan analisis dan desain sistem penyearah (konverter) DC dengan membandingkan antara teori dan praktik melalui simulasi program PSPICE. Program PSPICE merupakan suatu simulasi yang digunakan dalam standar industri dan sudah diakui oleh dunia peneliti dan pelaku industri. Program ini sangat akurat dan hasil pengukurannya sama dengan hasil pengukuran di laboratorium. Dengan adanya buku ini akan memberikan kemudahan dalam mempelajari sifat-sifat sistem konverter DC berupa analisis grafik dari perilaku setiap desain yang digunakan. Buku ini disusun dalam 7 Bab, Bab I memberikan pengenalan cara menginstal dan memulai menggunakan program PSPICE. Bab II memberikan gambaran umum jenis-jenis semikonduktor daya yang dipakai di dunia industri. Bab III dan IV membahas teori dan sifat-sifat konverter DC 1 phasa dan 3 phasa, baik yang menggunakan diode maupun thyristor. Kemudian setiap pembahasan diberikan contoh-contoh simulasi untuk memberikan pendekatan pengetahuan aplikasi yang mudah dimengerti. Selanjutnya Bab V memberikan cara-cara mendesain filter penyearah dan Bab VI menyajikan cara menganalisis harmonik dan faktor kerja yang ditimbulkan oleh setiap penyearah. Analisis dilakukan dengan menggunakan perhitungan matematis dan hasil simulasi. Bab terakhir memberikan suatu solusi penggunaan filter hibrid dalam suatu contoh kasus. Dalam bab VII ini memberikan suatu perbandingan penggunaan filter pasif dan filter hibrid, serta perbandingan sudut penyalaan jarak sama dan sudut sama. Dalam contoh kasus ini simulasi dilakukan pada kondisi tegangan seimbang dan tegangan tidak seimbang pada penyearah terkendali tiga phasa.

Solid State Industrial Electronics - Richard A. Pearman 1984

Semiconductor physics; Semiconductor devices; Rectifier circuits; thyristor phase-controlled converters; Variable-frequency conversion; Logic control; Analog and digital transducers; Optoelectronics; Amplifiers and control elements; Closed-loop control principles; DC and AC motor speed control; Industrial

applications; Thyristor protection; Cooling; Answer to problems.

Military Publications - United States. Department of the Army 1978

Proceedings. Technical Sessions - Association of Asphalt Paving Technologists 1956

Practical Power Electronics - Mustafa Husain 2015-12-17

Yes, this is another book on power electronics but it is different. Concise, simple and animated. Covering various basic principles with applications from domestic to industrial, the learner will have the feeling of this field. Basic principles are explained without the use of complex mathematics, and further understanding can be sought via dedicated computer animations. Consolidated with several experiments, it is very helpful for beginners and useful as a first practical course on power electronics for technical colleges and corporate in-house training.

Industrial Electronics - James W. Maas 1995

A thorough, practical introduction to industrial electronics encompassing the most up-to-date devices available. It provides detailed explanations of the structure and operation of the common linear components, digital ICs and sensory devices electronics technicians are likely to encounter on the job. Written for the technician rather than the engineer, coverage emphasizes practical circuit operation over complex control theory.

Metal Progress - 1976

Design and Manufacture of Fibre-Reinforced Composites - Wayne Hall 2021-08-05

This book presents an introduction to the design and manufacture of fibre-reinforced composites. The mechanical properties of unidirectional composites are considered in a structural design context. The use of woven and random fibres is also addressed. The accuracy of design estimates for unidirectional composites is benchmarked against test data, and the relevance of a factor of safety (FoS) is established. The importance of prototype testing is emphasised. This book illustrates how to make a fibre-reinforced composite. Wet layup, vacuum bagging and prepreg moulding are covered in detail. Some guidance on mould design and construction is also provided. Finally, an introduction to the manufacture of composite tubes is presented. Wherever possible, design and make examples are used to illustrate the content. Tutorial questions and problems are included at the end of each chapter. The reader is encouraged to use these questions and problems to assess their own level of understanding of the content.

Index of Blank Forms - United States. Department of the Army 1979