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Modern Power Electronics and AC Drives - Bimal K. Bose 2002
For upper level undergraduate and graduate level courses in electrical engineering, as well as a reference book for professionals and researchers. This text presents the basics of electrical power conversion and control through the use of power semiconductor switches. In addition, by demonstrating the practical applications of power electronics and motion control using AC electrical machines in transportation and industry, among other uses, Modern Power Electronics and AC Drives reflects the latest advances in industrial automation.

Ergonomics - K. Murrell 2012-12-06
Until quite recently conditions in industry were often rough. Long hours were worked in insanitary and murky workshops, often with little regard to the effects upon the workpeople who were considered to be expendable. Now, however, these adverse conditions have been recognized and so remedied that there remains little in industrial conditions to disturb the public conscience. This does not mean that conditions of work in office or factory are perfect. The obvious and dramatic abuses of the human frame may have gone, but in their place have arisen stresses and strains which, taking effect only in the long term, are generally undramatic and often unrecognized. They exist none the less. No organized effort to study the effect of working conditions on man's performance was made until the end of World War I, when the Industrial Fatigue Research Board was set up. For the first time, men trained in the human sciences entered industry to study men at work. They made con tributions which set a new standard of scientific investigation into human performance and allowed executive action on the basis of evidence rather than of hunch. The Board's work differed from the contribution of Gilbreth in America in that the principles of Motion Study which he developed were, to a large extent, based on intelligent observation rather than controlled experiment. During the 1920S the National Institute of Industrial Psychology was founded and there was close collaboration between it and the I.F.R.B.

Ad Hoc Mobile Wireless Networks - Subir Kumar Sarkar 2016-04-19
The military, the research community, emergency services, and industrial environments all rely on ad hoc mobile wireless networks

because of their simple infrastructure and minimal central administration. Now in its second edition, Ad Hoc Mobile Wireless Networks: Principles, Protocols, and Applications explains the concepts, mechanism, design, and

Robots - Chris Morgan 1984

Greg Lynn FORM - Greg Lynn 2008

One of the most provocative and exciting architects today, Greg Lynn has defined how designers and architects use computers as a medium, operating in an expanded field that fuses cutting-edge technology, contemporary art, and science fiction aesthetics with architectural form. At the epicenter of a debate about the role of digital design and new fabrication methods in architecture and general design culture, his projects skillfully blend high technology and detailed craftsmanship, driven by modeling software from the film and aerospace industries. They range from the Ravioli lounge chair for Vitra to the Embryological House, a pre-fab housing type that takes advantage of new manufacturing technologies to produce customized houses adaptable to local conditions. Included are contributions from theorists, architects, and artists, and futurists such as Sylvia Lavin, Ben van Berkel, and Caroline Bos of UN Studio, J.G. Ballard, and Tom Friedman, among others. Greg Lynn FORM offers a window into Lynn's methods and techniques, theoretical positions, and career trajectory. Rather than a retrospective of Lynn's career, it is thought-provoking and forward-looking.

Fuzzy Logic with Engineering Applications - Timothy J. Ross 2005-04-08

Fuzzy logic refers to a large subject dealing with a set of methods to characterize and quantify uncertainty in engineering systems that arise from ambiguity, imprecision, fuzziness, and lack of knowledge. Fuzzy logic is a reasoning system based on a foundation of fuzzy set theory, itself an extension of classical set theory, where set membership can be partial as opposed to all or none, as in the binary features of classical logic. Fuzzy logic is a relatively new discipline in which major advances have been made over the last decade or so with regard to theory and applications. Following on from the successful first edition, this fully updated new edition is therefore very timely and much anticipated. Concentration on the topics of fuzzy logic combined with an abundance of worked examples, chapter problems and commercial case studies is designed to help motivate a mainstream engineering audience, and the book is further strengthened by the inclusion of an online solutions manual as well as dedicated software codes. Senior undergraduate and postgraduate students in most engineering disciplines, academics and practicing engineers, plus some working in economics, control theory, operational research etc, will all find this a valuable addition to their bookshelves.

IIE Annual Conference and Expo - Institute of Industrial Engineers 2013-06-30

Physics for Scientists and Engineers with Modern Physics - Raymond A. Serway 2007-02

Waste to Wealth - Reeta Rani Singhania 2017-12-07

This book focuses on value addition to various waste streams, which include industrial waste, agricultural waste, and municipal solid and liquid waste. It addresses the utilization of waste to generate valuable products such as electricity, fuel, fertilizers, and chemicals, while placing special emphasis on environmental concerns and presenting a multidisciplinary approach for handling waste. Including chapters authored by prominent national and international experts, the book will be of interest to researchers, professionals and policymakers alike.

Proceedings of International Conference on Intelligent Manufacturing and Automation - Hari Vasudevan 2020-06-30

This book gathers selected papers presented at the Second International Conference on Intelligent Manufacturing and Automation (ICIMA 2020), which was jointly organized by the Departments of Mechanical Engineering and Production Engineering at Dwarkadas J. Sanghvi College of Engineering (DJSCE), Mumbai, and by the Indian Society of

Manufacturing Engineers (ISME). Covering a range of topics in intelligent manufacturing, automation, advanced materials and design, it focuses on the latest advances in e.g. CAD/CAM/CAE/CIM/FMS in manufacturing, artificial intelligence in manufacturing, IoT in manufacturing, product design & development, DFM/DFA/FMEA, MEMS & nanotechnology, rapid prototyping, computational techniques, nano- & micro-machining, sustainable manufacturing, industrial engineering, manufacturing process management, modelling & optimization techniques, CRM, MRP & ERP, green, lean & agile manufacturing, logistics & supply chain management, quality assurance & environmental protection, advanced material processing & characterization of composite & smart materials. The book is intended as a reference guide for future researchers, and as a valuable resource for students in graduate and doctoral programmes.

Waste Treatment and Disposal - R E Hester 2007-10-31

This Issue follows on from the review of waste incineration in Issue 2, providing a thorough and detailed review of other waste management options. Waste generation affects everyone, and its treatment and disposal are matters of increasing complexity and urgency. Waste Treatment and Disposal examines the environmental impact of sewage and industrial effluent treatment on inland and coastal waters, in the atmosphere and on land. It also looks into current practice in the design, engineering, operation and control of landfill sites, and the effect of changes in regulatory policy. A wide range of waste management practices result in atmospheric discharges and this book reviews the localized impacts and mitigation of the discharge and the regulatory framework within which waste management has to operate. Waste Treatment and Disposal also covers the general and technical issues facing the materials recycling industry; looks into the factors affecting deep underground storage of radioactive fuel waste produced by nuclear reactors; and provides data from a number of case studies in cost-benefit analysis, demonstrating the utility of a consistent economic theory of waste management.

HVDC and FACTS Controllers - Vijay K. Sood 2006-04-18

HVDC and FACTS Controllers: Applications of Static Converters in Power Systems focuses on the technical advances and developments that have taken place in the past ten years or so in the fields of High Voltage DC transmission and Flexible AC transmission systems. These advances (in HVDC transmission and FACTS) have added a new dimension to power transmission capabilities. The book covers a wide variety of topics, some of which are listed below: -Current Source and Voltage Source Converters, -Synchronization Techniques for Power Converters, -Capacitor Commutated Converters, -Active Filters, -Typical Disturbances on HVDC Systems, -Simulation Techniques, -Static Var Compensators based on Chain Link Converters, -Advanced Controllers, -Trends in Modern HVDC. In addition to EHV transmission, HVDC technology has impacted on a number of other areas as well. As an example, a chapter dealing with HVDC Light applications is included providing recent information on both on-shore and off-shore applications of wind farms.

Hybrid Space - Peter Zellner 2000

This illustrated collection features the work of 12 practitioners in the vanguard of a wave of architectural creativity that employs the digital technologies, including Greg Lynn, NOX, dECOi, and UN Studio. It details the process behind their designs and contains a substantial reference section.

VLSI for Wireless Communication - Bosco Leung 2011-11-06

VLSI for Wireless Communication, Second Edition, an advanced level text book, takes a system approach starting with an overview of the most up to date wireless systems and the transceiver architecture available today. Wireless standards are first introduced (updated to include the most recent 3G/4G standards in the second edition), and translates from a wireless standard to the implementation of a transceiver. This system approach is particularly important as the level of integration in VLSI increases and coupling between system and component design becomes more intimate. VLSI for Wireless Communication, Second Edition, illustrates designs with full design examples. Each chapter includes at least one complete design example that helps explain the architecture/circuits presented in this text. This book has close to 10

homework problems at the end of each chapter. A complete solutions manual is available on-line. VLSI for Wireless Communication, Second Edition, is designed as a primary text book for upper-undergraduate level students and graduate level students concentrating on electrical engineering and computer science. Professional engineers and researchers working in wireless communications, circuit design and development will find this book valuable as well.

Neural Networks and Fuzzy Systems - Bart Kosko 1992

Written by one of the foremost experts in the field of neural networks, this is the first book to combine the theories and applications or neural networks and fuzzy systems. The book is divided into three sections: Neural Network Theory, Neural Network Applications, and Fuzzy Theory and Applications. It describes how neural networks can be used in applications such as: signal and image processing, function estimation, robotics and control, analog VLSI and optical hardware design; and concludes with a presentation of the new geometric theory of fuzzy sets, systems, and associative memories.

Discrete-Time Processing of Speech Signals - John R. Deller, Jr. 2000

Commercial applications of speech processing and recognition are fast becoming a growth industry that will shape the next decade. Now students and practicing engineers of signal processing can find in a single volume the fundamentals essential to understanding this rapidly developing field. IEEE Press is pleased to publish a classic reissue of Discrete-Time Processing of Speech Signals. Specially featured in this reissue is the addition of valuable World Wide Web links to the latest speech data references. This landmark book offers a balanced discussion of both the mathematical theory of digital speech signal processing and critical contemporary applications. The authors provide a comprehensive view of all major modern speech processing areas: speech production physiology and modeling, signal analysis techniques, coding, enhancement, quality assessment, and recognition. You will learn the principles needed to understand advanced technologies in speech processing -- from speech coding for communications systems to biomedical applications of speech analysis and recognition. Ideal for self-study or as a course text, this far-reaching reference book offers an extensive historical context for concepts under discussion, end-of-chapter problems, and practical algorithms. Discrete-Time Processing of Speech Signals is the definitive resource for students, engineers, and scientists in the speech processing field. An Instructor's Manual presenting detailed solutions to all the problems in the book is available upon request from the Wiley Makerting Department.

Solar Water Pumping - Jeff Kenna 1985

A 'state of the art' survey, with guides to costs and criteria for choice of pumping methods.

Mechatronic Systems - Rolf Isermann 2007-12-29

Mechatronic Systems introduces these developments by considering the dynamic modelling of components together with their interactions. The whole range of elements is presented from actuators, through different kinds of processes, to sensors. Structured tutorial style takes learning from the basics of unified theoretical modelling, through information processing to examples of system development. End-of-chapter exercises provide ready-made homework or self-tests. Offers practical advice for engineering derived from experience with real systems and application-oriented research.

Solid Waste Technology and Management, 2 Volume Set - Thomas Christensen 2011-08-02

The collection, transportation and subsequent processing of waste materials is a vast field of study which incorporates technical, social, legal, economic, environmental and regulatory issues. Common waste management practices include landfilling, biological treatment, incineration, and recycling – all boasting advantages and disadvantages. Waste management has changed significantly over the past ten years, with an increased focus on integrated waste management and life-cycle assessment (LCA), with the aim of reducing the reliance on landfill with its obvious environmental concerns in favour of greener solutions. With contributions from more than seventy internationally known experts presented in two volumes and backed by the International Waste Working Group and the International Solid Waste Association, detailed

chapters cover: Waste Generation and Characterization Life Cycle Assessment of Waste Management Systems Waste Minimization Material Recycling Waste Collection Mechanical Treatment and Separation Thermal Treatment Biological Treatment Landfilling Special and Hazardous Waste Solid Waste Technology & Management is a balanced and detailed account of all aspects of municipal solid waste management, treatment and disposal, covering both engineering and management aspects with an overarching emphasis on the life-cycle approach.
Principles of Electric Machines and Power Electronics - Paresh Chandra Sen 2021-02-25

Safety-Critical Real-Time Systems - Bernd Krämer 2013-06-29
Safety-Critical Real-Time Systems brings together in one place important contributions and up-to-date research results in this fast moving area. Safety-Critical Real-Time Systems serves as an excellent reference, providing insight into some of the most challenging research issues in the field.
Power Quality Enhancement Using Custom Power Devices - Arindam Ghosh 2012-12-06
Power Quality Enhancement Using Custom Power Devices considers the structure, control and performance of series compensating DVR, the shunt DSTATCOM and the shunt with series UPQC for power quality improvement in electricity distribution. Also addressed are other power electronic devices for improving power quality in Solid State Transfer Switches and Fault Current Limiters. Applications for these technologies as they relate to compensating busses supplied by a weak line and for distributed generation connections in rural networks, are included. In depth treatment of inverters to achieve voltage support, voltage balancing, harmonic suppression and transient suppression in realistic network environments are also covered. New material on the potential for shunt and series compensation which emphasizes the importance of control design has been introduced.
Electrical Power Systems Quality, Third Edition - Roger C. Dugan 2012-02-06
THE DEFINITIVE GUIDE TO POWER QUALITY--UPDATED AND EXPANDED Electrical Power Systems Quality, Third Edition, is a complete, accessible, and up-to-date guide to identifying and preventing the causes of power quality problems. The information is presented without heavy-duty equations, making it practical and easily readable for utility engineers, industrial engineers, technicians, and equipment designers. This in-depth resource addresses the essentials of power quality and tested methods to improve compatibility among the power system, customer equipment, and processes. Coverage includes: Standard terms and definitions for power quality phenomena Protecting against voltage sags and interruptions Harmonic phenomena and dealing with harmonic distortion Transient overvoltages Long-duration voltage variations Benchmarking power quality International Electrotechnical Commission (IEC) and Institute of Electrical and Electronics Engineers (IEEE) standards Maintaining power quality in distributed generation systems Common wiring and grounding problems, along with solutions Site surveys and power quality monitoring
Ground Loads - United States. Aircraft Committee. Subcommittee on Air Force-Navy-Civil Aircraft Design Criteria 1952

Journal of Applied Operational Research - Kaveh Sheibani 2011-04-30
We are pleased to welcome readers to this issue of the Journal of Applied Operational Research (JAOR), Volume 3, Number 1. Since OR is an interdisciplinary applied science, it is a primarily goal of the journal to focus on and publish practical case studies which illustrate applications of OR to real-life problems.
Intelligent Control and Automation - De-Shuang Huang 2006-09-08
Results of the International Conference on Intelligent Computing, ICIC 2006: Lecture Notes in Computer Science (LNCS), Lecture Notes in Artificial Intelligence (LNAI), Lecture Notes in Bioinformatics (LNBI), Lecture Notes in Control and Information Sciences (LNCIS). 142 revised full papers are organized in topical sections: Blind Source Separation; Intelligent Sensor Networks; Intelligent Control and Automation; and

Data Fusion, Knowledge Discovery, and Data Mining. Includes a Special Session on Smart and Intelligent Home Technology.
Aircraft Flight Control Actuation System Design - Eugene T. Raymond 1993

Data Streams - S. Muthukrishnan 2005
In the data stream scenario, input arrives very rapidly and there is limited memory to store the input. Algorithms have to work with one or few passes over the data, space less than linear in the input size or time significantly less than the input size. In the past few years, a new theory has emerged for reasoning about algorithms that work within these constraints on space, time, and number of passes. Some of the methods rely on metric embeddings, pseudo-random computations, sparse approximation theory and communication complexity. The applications for this scenario include IP network traffic analysis, mining text message streams and processing massive data sets in general. Researchers in Theoretical Computer Science, Databases, IP Networking and Computer Systems are working on the data stream challenges.
Nonlinear Vibrations and Stability of Shells and Plates - Marco Amabili 2008-01-14
This unique book explores both theoretical and experimental aspects of nonlinear vibrations and stability of shells and plates. It is ideal for researchers, professionals, students, and instructors. Expert researchers will find the most recent progresses in nonlinear vibrations and stability of shells and plates, including advanced problems of shells with fluid-structure interaction. Professionals will find many practical concepts, diagrams, and numerical results, useful for the design of shells and plates made of traditional and advanced materials. They will be able to understand complex phenomena such as dynamic instability, bifurcations, and chaos, without needing an extensive mathematical background. Graduate students will find (i) a complete text on nonlinear mechanics of shells and plates, collecting almost all the available theories in a simple form, (ii) an introduction to nonlinear dynamics, and (iii) the state of art on the nonlinear vibrations and stability of shells and plates, including fluid-structure interaction problems.
Fundamentals Of Robotics: Analysis And Control - 1996

Animate Form - Greg Lynn 1999
CD-ROM contains animations which provide further illustration of the projects in the book.
Ergonomic Design for People at Work - 1986

Applied Photovoltaics - Stuart R. Wenham 2013-01-11
The new edition of this thoroughly considered textbook provides a reliable, accessible and comprehensive guide for students of photovoltaic applications and renewable energy engineering. Written by a group of award-winning authors it is brimming with information and is carefully designed to meet the needs of its readers. Along with exercises and references at the end of each chapter, it features a set of detailed technical appendices that provide essential equations, data sources and standards. The new edition has been fully updated with the latest information on photovoltaic cells, modules, applications and policy. Starting from basics with 'The Characteristics of Sunlight' the reader is guided step-by-step through semiconductors and p-n junctions; the behaviour of solar cells; cell properties and design; and PV cell interconnection and module fabrication. The book covers stand-alone photovoltaic systems; specific purpose photovoltaic systems; remote area power supply systems; grid-connected photovoltaic systems and water pumping. Applied Photovoltaics is highly illustrated and very accessible, providing the reader with all the information needed to start working with photovoltaics.