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Engineering Data Book Fps - 2004

2019-06-28

Power Electronics - Ned Mohan 1995

This book constitutes the thoroughly refereed proceedings of the 32nd International Conference on Industrial, Engineering and Other Applications of Applied Intelligent Systems, IEA/AIE 2019, held in Graz, Austria, in July 2019.

Advances and Trends in Artificial Intelligence. From Theory to Practice - Franz Wotawa

The 41 full papers and 32 short papers presented were carefully reviewed and selected from 151 submissions. The IEA/AIE 2019 conference will continue the tradition of emphasizing on applications of applied intelligent systems to solve real-life problems in all areas. These areas include engineering, science, industry, automation and robotics, business and finance, medicine and biomedicine, bioinformatics, cyberspace, and human-machine interactions. IEA/AIE 2019 will have a special focus on automated driving and autonomous systems and also contributions dealing with such systems or their verification and validation as well.

Introduction to Nuclear Reactor Theory - John R. Lamarsh 1966

Schaum's Outline of Theory and Problems of Basic Electricity - Milton Gussow 1983

Sample problems and their solutions accompany explanations of aspects of electricity, such as

electric circuits, alternating current, and electromagnetism

Innovations in Electrical and Electronics Engineering - H. S. Saini 2021-03-24

This book is a collection of selected research papers presented at the International Conference on Innovations in Electrical and Electronics Engineering (ICIEEE 2019), which was organized by the Guru Nanak Institutions, Ibrahimpatnam, Hyderabad, Telangana, India, on July 26–27, 2019. The book highlights the latest developments in electrical and electronics engineering, especially in the areas of power systems, power electronics, control systems, electrical machinery, and renewable energy. The solutions discussed here will encourage and inspire researchers, industry professionals, and policymakers to put these methods into practice.

Advanced Manufacturing and Sustainable Logistics - Wilhelm Dangelmaier 2010-04-15

This book constitutes the proceedings of the 8th International Heinz Nixdorf Symposium, IHNS

2010, held in Paderborn, Germany, April 21-22, 2010, under the title "Changing Paradigms: Advanced Manufacturing and Sustainable Logistics". The 27 full and two short papers presented in this book were carefully reviewed and selected from a total of 63 submissions. They are grouped in five parts on Supply Chain Management, Production Logistics and Industrial Engineering, Operations Research Techniques, Humanitarian Logistics, and Simulation. The presentation is completed by nine invited keynote papers from renowned international experts in these fields.

Introduction to Nuclear Engineering - John R. Lamarsh 2011-03-04

The text is designed for junior and senior level Nuclear Engineering students. The third edition of this highly respected text offers the most current and complete introduction to nuclear engineering available. Introduction to Nuclear Engineering has been thoroughly updated with new information on French, Russian, and

Japanese nuclear reactors. All units have been revised to reflect current standards. In addition to the numerous end-of-chapter problems, computer exercises have been added.

AASHTO Guide for Design of Pavement Structures, 1993 - American Association of State Highway and Transportation Officials 1993
Design related project level pavement management - Economic evaluation of alternative pavement design strategies - Reliability / - Pavement design procedures for new construction or reconstruction : Design requirements - Highway pavement structural design - Low-volume road design / - Pavement design procedures for rehabilitation of existing pavements : Rehabilitation concepts - Guides for field data collection - Rehabilitation methods other than overlay - Rehabilitation methods with overlays / - Mechanistic-empirical design procedures.

Building Performance Simulation for Design and Operation - Jan L.M. Hensen 2019-04-24

When used appropriately, building performance simulation has the potential to reduce the environmental impact of the built environment, to improve indoor quality and productivity, as well as to facilitate future innovation and technological progress in construction. Since publication of the first edition of Building Performance Simulation for Design and Operation, the discussion has shifted from a focus on software features to a new agenda, which centres on the effectiveness of building performance simulation in building life cycle processes. This new edition provides a unique and comprehensive overview of building performance simulation for the complete building life cycle from conception to demolition, and from a single building to district level. It contains new chapters on building information modelling, occupant behaviour modelling, urban physics modelling, urban building energy modelling and renewable energy systems modelling. This new edition keeps the same

chapter structure throughout including learning objectives, chapter summaries and assignments. Moreover, the book:

- Provides unique insights into the techniques of building performance modelling and simulation and their application to performance-based design and operation of buildings and the systems which service them.
- Provides readers with the essential concepts of computational support of performance-based design and operation.
- Provides examples of how to use building simulation techniques for practical design, management and operation, their limitations and future direction. It is primarily intended for building and systems designers and operators, and postgraduate architectural, environmental or mechanical engineering students.

Clinical Laboratory Chemistry - Robert Sunheimer 2017-04-24

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with

the bound book. Specifically designed for use in Clinical Chemistry courses in clinical laboratory technician/medical laboratory technician (CLT/MLT) and clinical laboratory science/medical technology (CLS/MT) education programs. A reader-friendly introduction that focuses on the essential analytes CLT/MLT and CLS/MT students will use in the lab Clinical Laboratory Chemistry is a part of Pearson's Clinical Laboratory Science series of textbooks, which is designed to balance theory and application in an engaging and useful way. Highly readable, the book concentrates on clinically significant analyses students are likely to encounter in the lab. The combination of detailed technical information and real-life case studies helps learners envision themselves as members of the health care team, providing the laboratory services specific to chemistry that assist in patient care. The book's fundamental approach and special features allow students to analyze and synthesize information, and better

understand the ever-evolving nature of clinical chemistry. The Second Edition has been streamlined and updated to include four new chapters covering safety, pediatrics, geriatrics, and nutrition; real-life mini cases; new figures and photographs; updated sources and citations; and a complete teaching and learning package.

Architecture of Computing Systems - ARCS 2006 - Werner Grass 2006

This book constitutes the refereed proceedings of the 19th International Conference on Architecture of Computing Systems, ARCS 2006, held in March 2006. The 32 revised full papers presented together with two invited and keynote papers were carefully reviewed and selected from 174 submissions. The papers are organized in topical sections on pervasive computing, memory systems, architectures, multiprocessing, energy efficient design, power awareness, network protocols, security, and distributed networks.

Handbook of Portfolio Construction - John B.

Guerard, Jr. 2009-12-12

Portfolio construction is fundamental to the investment management process. In the 1950s, Harry Markowitz demonstrated the benefits of efficient diversification by formulating a mathematical program for generating the "efficient frontier" to summarize optimal trade-offs between expected return and risk. The Markowitz framework continues to be used as a basis for both practical portfolio construction and emerging research in financial economics. Such concepts as the Capital Asset Pricing Model (CAPM) and the Arbitrage Pricing Theory (APT), for example, provide the foundation for setting benchmarks, for predicting returns and risk, and for performance measurement. This volume showcases original essays by some of today's most prominent academics and practitioners in the field on the contemporary application of Markowitz techniques. Covering a wide spectrum of topics, including portfolio selection, data mining tests, and multi-factor risk

models, the book presents a comprehensive approach to portfolio construction tools, models, frameworks, and analyses, with both practical and theoretical implications.

Schaum's Outline of Basic Electricity -

Milton Gussow 2007

Sample problems and their solutions accompany explanations of aspects of electricity, such as electric circuits, alternating current, and electromagnetism.

A Brief Introduction to Fluid Mechanics, Student Solutions Manual - Donald F. Young 2007-02-20

Now readers can quickly learn the basic concepts and principles of modern fluid mechanics with this concise book. It clearly presents basic analysis techniques while also addressing practical concerns and applications, such as pipe flow, open-channel flow, flow measurement, and drag and lift. The fourth edition also integrates detailed diagrams, examples and problems throughout the pages in order to emphasize the practical application of

the principles.

Basic and Clinical Applications of Vision

Science - V. Lakshminarayanan 2012-12-06

Basic and Clinical Applications of Vision

Sciences contains the edited papers presented at

the Enoch Vision Science Symposium, April

27-30 1996, which was organized in honor of the

pioneer in vision science, Dr Jay M Enoch. Dr

Enoch served for twelve years as Dean, School

of Optometry, University of California, Berkeley.

The book is organized along the lines of Dr.

Enoch's contributions to vision science, but is

not limited to these topics. Of special note, the

reader will find papers on important new

developments in photoreceptor, ophthalmic and

visual optics, retinal imaging, ophthalmic

physiology and pathophysiology, visual

psychophysics and visual techniques. The papers

are grouped into the following sections:

photoreceptor optics; ophthalmic and visual

optics; binocular vision, developmental vision,

eye movements and physiology; ophthalmic

dysfunction; visual psychophysics and clinical
applications; history of vision science. £/LIST£

Electromagnetic Fields and Waves - Paul

Lorrain 1972

Combined and Hybrid Adsorbents - José M.

Loureiro 2006-11-23

This book follows up an Advanced Research
Workshop dedicated to the subject of adsorption.

It presents an up-to-date review of the latest

achievements in the synthesis, characterization

and applications of hybrid organic-inorganic

materials and of carbon and combined

adsorbents. The modeling of the adsorption

process, including the simulation of carbon

masks used for both civil and military protection

purposes is also addressed. Includes applications

in environmental, military and post-disaster

situations.

Dependable Computer Systems - Wojciech

Zamojski 2011-05-13

Dependability analysis is the recent approach to

performance evaluation of contemporary systems which tries to cope with new challenges that are brought with their unprecedented complexity, size and diversity. Especially in case of computer systems and networks such evaluation must be based on multidisciplinary approach to theory, technology, and maintenance of systems which operate in real (and very often unfriendly) environments. As opposed to “classic” reliability which focuses mainly on technical aspects of system functioning, dependability studies investigate the systems as multifaceted and sophisticated amalgamations of technical, information and also human resources. This monograph presents selected new developments in such areas of dependability research as mathematical models, evaluation of software, probabilistic assessment, methodologies, tools, and technologies. Intelligent and soft computing methods help to resolve fundamental problems of dependability analysis which are caused by the fact that in

contemporary computer systems it is often difficult to find a relation between system elements and system events (the relation between reasons and results) and it is even more difficult to define strict mathematical models with “analytical” relationships between such phenomena.

New Technologies, Development and Application II - Isak Karabegović 2019-04-23

This book features papers focusing on the implementation of new and future technologies, which were presented at the International Conference on New Technologies, Development and Application, held at the Academy of Science and Arts of Bosnia and Herzegovina in Sarajevo on 27th–29th June 2019. It covers a wide range of future technologies and technical disciplines, including complex systems such as Industry 4.0; robotics; mechatronics systems; automation; manufacturing; cyber-physical and autonomous systems; sensors; networks; control, energy, automotive and biological systems; vehicular

networking and connected vehicles; effectiveness and logistics systems, smart grids, as well as nonlinear, power, social and economic systems. We are currently experiencing the Fourth Industrial Revolution "Industry 4.0", and its implementation will improve many aspects of human life in all segments, and lead to changes in business paradigms and production models. Further, new business methods are emerging, transforming production systems, transport, delivery, and consumption, which need to be monitored and implemented by every company involved in the global market.

Fluidization Engineering - D. Kunii

2013-10-22

Fluidization Engineering, Second Edition, expands on its original scope to encompass these new areas and introduces reactor models specifically for these contacting regimes. Completely revised and updated, it is essentially a new book. Its aim is to distill from the thousands of studies those particular

developments that are pertinent for the engineer concerned with predictive methods, for the designer, and for the user and potential user of fluidized beds. Covers the recent advances in the field of fluidization. Presents the studies of developments necessary to the engineers, designers, and users of fluidized beds.

Knowledge Discovery, Knowledge Engineering and Knowledge Management - Ana Fred

2013-01-05

This book constitutes the thoroughly refereed post-conference proceedings of the Second International Joint Conference on Knowledge Discovery, Knowledge Engineering, and Knowledge Management, IC3K 2010, held in Valencia, Spain, in October 2010. This book includes revised and extended versions of a strict selection of the best papers presented at the conference; 26 revised full papers together with 2 invited lectures were carefully reviewed and selected from 369 submissions. According to the three covered conferences KDIR 2010,

KEOD 2010, and KMIS 2010, the papers are organized in topical sections on knowledge discovery and information retrieval, knowledge engineering and ontology development, and on knowledge management and information sharing.

Advances in Rapid Thermal and Integrated Processing - F. Roozeboom 2013-03-09

Rapid thermal and integrated processing is an emerging single-wafer technology in ULSI semiconductor manufacturing, electrical engineering, applied physics and materials science. Here, the physics and engineering of this technology are discussed at the graduate level. Three interrelated areas are covered. First, the thermophysics of photon-induced annealing of semiconductor and related materials, including fundamental pyrometry and emissivity issues, the modelling of reactor designs and processes, and their relation to temperature uniformity. Second, process integration, treating the advances in basic

equipment design, scale-up, integrated cluster-tool equipment, including wafer cleaning and integrated processing. Third, the deposition and processing of thin epitaxial, dielectric and metal films, covering selective deposition and epitaxy, integrated processing of layer stacks, and new areas of potential application, such as the processing of III-V semiconductor structures and thin-film head processing for high-density magnetic data storage.

Automotive Engineering - David Crolla 2009-08-13

A one-stop reference for automotive and other engineers involved in vehicle and automotive technologies. The book provides essential information on each of the main automotive systems (engines; powertrain and chassis; bodies; electrical systems) plus critical external factors that engineers need to engage with, such as hybrid technologies, vehicle efficiency, emissions control and performance optimization.

* Definitive content by the leading authors in the

field * A thorough resource, providing all the essential material needed by automotive and mechanical engineers on a day-to-day basis * Fundamentals, key techniques, engineering best practice and know-how together in one quick-reference sourcebook * Focuses on what engineers need to know: engineering fundamentals, key associated technologies, environmental and efficiency engineering, and sustainability, as well as market-driven requirements such as reliability, safety, and comfort * Accompanied by multi-body dynamics and tire dynamic modeling software
Broadband Communications, Networks, and Systems - Victor Sucasas 2018-12-29

This book constitutes the refereed post-conference proceedings of the 9th International Conference on Broadband Communications, Networks, and Systems, Broadnets 2018, which took place in Faro, Portugal, in September 2018. The 30 revised full and 16 workshop papers were carefully reviewed and selected from 68

submissions. The papers are thematically grouped as follows: Advanced Techniques for IoT and WSNs; SDN and Network Virtualization; eHealth and Telemedicine Mobile Applications; Security and Privacy Preservation; Communication Reliability and Protocols; Spatial Modulation Techniques; Hardware Implementation and Antenna Design.

Adaptive Instructional Systems - Robert A. Sottolare 2019-07-10

This book constitutes the refereed proceedings of the First International Conference on Adaptive Instructional Systems, AIS 2019, held in July 2019 as part of HCI International 2019 in Orlando, FL, USA. HCII 2019 received a total of 5029 submissions, of which 1275 papers and 209 posters were accepted for publication after a careful reviewing process. The 50 papers presented in this volume are organized in topical sections named: Adaptive Instruction Design and Authoring, Interoperability and Standardization in Adaptive Instructional Systems, Instructional

Theories in Adaptive Instruction, Learner Assessment and Modelling, AI in Adaptive Instructional Systems, Conversational Tutors.
Submarine Power Cables - Thomas Worzyk
2009-08-11

The demand for high-performance submarine power cables is increasing as more and more offshore wind parks are installed, and the national electric grids are interconnected. Submarine power cables are installed for the highest voltages and power to transport electric energy under the sea between islands, countries and even continents. The installation and operation of submarine power cables is much different from land cables. Still, in most textbooks on electrical power systems, information on submarine cables is scarce. This book is closing the gap. Different species of submarine power cables and their application are explained. Students and electric engineers learn on the electric and mechanic properties of submarine cables. Project developers and utility

managers will gain useful information on the necessary marine activities such as pre-laying survey, cable lay vessels, guard boats etc., for the submarine cable installation and repair. Investors and decision makers will find an overview on environmental aspects of submarine power cables. A comprehensive reference list is given for those who want further reading.
Muscle Relaxants - Kazuaki Fukushima
2013-06-29

At the Fifth International Neuromuscular Meeting held in Tokyo in 1994, leading experts in the field came together to discuss the physiology and pharmacology of neuromuscular receptor sites and neuromuscular blocking agents (NBAs). The proceedings of the meeting present a review of the history of muscle relaxants and a comprehensive examination of recent research, with a primary focus on clinical considerations. Among the topics covered by specific chapters are aspects of the neuromuscular junction (NMJ),

pharmacokinetics, metabolism and metabolites of neuromuscular blocking agents, and drug interaction. Presenting the most up-to-date knowledge of the physiology and pharmacology of the NMJ and NBAs, this volume will be highly valuable to clinicians and researchers in anesthesiology, physiology, and pharmacology.

Brain Inspired Cognitive Systems 2008 - Amir Hussain 2009-12-18

Brain Inspired Cognitive Systems 2008 (June 24-27, 2008; São Luís, Brazil) brought together leading scientists and engineers who use analytic, syntactic and computational methods both to understand the prodigious processing properties of biological systems and, specifically, of the brain, and to exploit such knowledge to advance computational methods towards ever higher levels of cognitive competence. This book includes the papers presented at four major symposia: Part I - Cognitive Neuroscience Part II - Biologically Inspired Systems Part III - Neural Computation Part IV - Models of Consciousness.

Rare Metal Technology 2020 - Gisele Azimi
2020-01-20

This collection presents papers from a symposium on extraction of rare metals as well as rare extraction processing techniques used in metal production. Rare metals include strategic metals that are in increasing demand and subject to supply risks. Metals represented include neodymium, dysprosium, scandium and others; platinum group metals including platinum, palladium, iridium, and others; battery related metals including lithium, cobalt, nickel, and aluminum; electronics-related materials including copper and gold; and refractory metals including titanium, niobium, zirconium, and hafnium. Other critical materials such as gallium, germanium, indium and silicon are also included. Papers cover various processing techniques, including but not limited to hydrometallurgy (solvent extraction, ion exchange, precipitation, and crystallization), electrometallurgy (electrorefining and

electrowinning), pyrometallurgy, and aeriommetallurgy (supercritical fluid extraction). Contributions are focused on primary production as well as secondary production through urban mining and recycling to enable a circular economy. A useful resource for all involved in commodity metal production, irrespective of the major metal Provides knowledge of cross-application among industries Extraction and processing of rare metals that are the main building block of many emerging critical technologies have been receiving significant attention in recent years. The technologies that rely on critical metals are prominent worldwide, and finding a way to extract and supply them effectively is highly desirable and beneficial.

Spreading Resistance Symposium - James R. Ehrstein 1974

Handbook of Development Economics -

Hollis Burnley Chenery 1988

This handbook organizes chapters by sets of

policies that are important components of discussions about how to facilitate development. In each chapter, authors identify and discuss the relevant theoretical and empirical literature that describes the fundamental problems that the policies seek to remedy or ameliorate, as well as the literature that evaluates the effects of the policies. It presents an accurate, self-contained survey of the current state of the field. It summarizes the most recent discussions, and elucidates new developments. Although original material is also included, the main aim is the provision of comprehensive and accessible surveys

Practical Aspects of Chemical Engineering -

Marek Ochowiak 2018-02-07

This book focuses on Chemical Engineering and Processing, covering interdisciplinary innovation technologies and sciences closely related to chemical engineering, such as computer image analysis, modelling and IT. The book presents interdisciplinary aspects of chemical and

biochemical engineering interconnected with process system engineering, process safety and computer science.

Knowledge Creation and Management -

Associate Professor in the Faculty of Social Sciences and the Graduate School of International Corporate Strategy Kazuo Ichijo 2007

This book presents the latest management ideas in knowledge creation and management in readable and non-technical chapters. Leading experts have contributed chapters in their fields of expertise. Each distils his or her subject in a chapter that is accessible to managers who want to learn what can be applied to their organizations without the distracting details of research methodology. Each chapter, however, is based on careful research. The book is organized so that readers can easily find chapters of most interest and value to them. The emphasis is on the practical applications of knowledge to a wide variety of organizations and

functional areas.

Data Science and Analytics - Usha Batra

2020-05-27

This two-volume set (CCIS 1229 and CCIS 1230) constitutes the refereed proceedings of the 5th International Conference on Recent Developments in Science, Engineering and Technology, REDSET 2019, held in Gurugram, India, in November 2019. The 74 revised full papers presented were carefully reviewed and selected from total 353 submissions. The papers are organized in topical sections on data centric programming; next generation computing; social and web analytics; security in data science analytics; big data analytics.

Water Chemistry - Patrick Brezonik 2011-03-22

It emphasizes that both equilibrium and kinetic processes are important in aquatic systems.

The Automotive Chassis - Jörnсен Reimpell

2001

From rest 6.4.2 Climbing ability 6.4.3 Skid points 6.5 Platform, unit assembly and common

part systems Bibliography Glossary of symbols
Index of car manufacturers Index of car
suppliers Subject index.

Computational Science and Its Applications --

ICCSA 2013 - Beniamino Murgante 2013-06-22

The five-volume set LNCS 7971-7975 constitutes
the refereed proceedings of the 13th

International Conference on Computational
Science and Its Applications, ICCSA 2013, held
in Ho Chi Minh City, Vietnam in June 2013. The
248 revised papers presented in five tracks and
33 special sessions and workshops were
carefully reviewed and selected. The 46 papers
included in the five general tracks are organized
in the following topical sections: computational
methods, algorithms and scientific applications;
high-performance computing and networks;
geometric modeling, graphics and visualization;
advanced and emerging applications; and
information systems and technologies. The 202
papers presented in special sessions and
workshops cover a wide range of topics in

computational sciences ranging from
computational science technologies to specific
areas of computational sciences such as
computer graphics and virtual reality.

Membrane and Desalination Technologies -

Lawrence K. Wang 2010-12-01

In this essential new volume, Volume 13:
Membrane and Desalination Technologies, a
panel of expert researchers provide a wealth of
information on membrane and desalination
technologies. An advanced chemical and
environmental engineering textbook as well as a
comprehensive reference book, this volume is of
high value to advanced graduate and
undergraduate students, researchers, scientists,
and designers of water and wastewater
treatment systems. This is an essential part of
the Handbook of Environmental Engineering
series, an incredible collection of methodologies
that study the effects of pollution and waste in
their three basic forms: gas, solid, and liquid.
Chapters adopt the series format, employing

methods of practical design and calculation illustrated by numerical examples, including pertinent cost data whenever possible, and exploring in great detail the fundamental principles of the field. Volume 13: Membrane and Desalination Technologies is an essential guide for researchers, highlighting the latest developments in principles of membrane technology, membrane systems planning and design, industrial and municipal waste treatments, desalination requirements, wastewater reclamation, biofiltration, and more.

Clinical Chemistry - Michael L. Bishop 2000
Written in a concise, readable style, the Fourth Edition of this leading text continues to set the standard in the constantly evolving field of

clinical chemistry. Completely revised and updated, this text reflects the latest developments in clinical chemistry. Recent advances in quality assurance, PCR and laboratory automation receive full coverage. The immunochemistry chapter has been expanded to reflect the latest technological advances, and two entirely new chapters on cardiac function and point of care testing have been added. Chapters have been combined and restructured to match the changes that have occurred in the clinical laboratory. Plus, the contributors continue to be the leaders in the field of clinical chemistry. Other text features include outlines, objectives, case studies, practice questions and exercises, a glossary and more.