

Engineering & Computer Science

January to April 2024



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Nanotechnology Special Topics

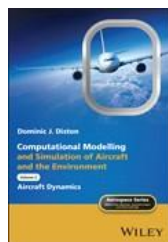
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9780470687116
Pub Date: 3/4/24
208 pages • Hardcover
Technology & Engineering
/ Aeronautics &
Astronautics

Computational Modelling and Simulation of Aircraft and the Environment, Volume 2: Aircraft Dynamics

DJ Diston

Computational Modelling and Simulation of Aircraft and the Environment, Volume 2: Aircraft Dynamics

Dominic J. Diston, Engineering Consultant

This book provides a comprehensive guide to modelling and simulation from basic physical and mathematical principles, giving the reader sufficient information to be able to build computational models of aircraft for the purposes of simulation and evaluation. Highly relevant to practitioners, it takes into account the multi-disciplinary nature of aerospace products and the integrated nature of



9781118495353
Pub Date: 6/26/23
336 pages • Hardcover
Science / Mechanics

Introduction to Strain-Based Structural Health Monitoring of Civil Structures

B Glisic

A comprehensive introduction to strain-based structural health monitoring of civil structures, with focus on measurement and data analysis

Introduction to Strain-Based Structural Health Monitoring of Civil Structures focuses on the SHM of Civil Structures and Infrastructure, and develops the relevant topics of measurement and data analysis from a fundamental to advanced level.

The book contains an overview of the available and emerging strain monitoring technologies, for example, traditional strain gauges and vibrating wire sensors.

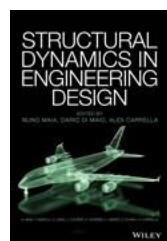


9781118709443
Pub Date: 3/6/24
736 pages • Hardcover
Computers / Computer
Engineering

Dependable Computing: Design and Assessment

Ravishankar K. Iyer, Zbigniew T. Kalbarczyk, Nithin M. Nakka

The only recent book on dependability/fault-tolerance that covers both software and hardware aspects of dependability, *Dependable Computing Design and Assessment* addresses the new reality of dependability. After a discussion of reliability, availability, and hardware and software fault models, the authors explore hardware redundancy, coding techniques, processor-level error detection and recovery, checkpoint and recovery, software fault tolerance techniques, and network-specific issues. Ideal for both students and practitioners, the capabilities



9781118770702
Pub Date: 1/16/24
592 pages • Hardcover
Technology & Engineering
/ Structural

Structural Dynamics in Engineering Design

A Carrella

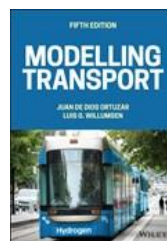
World-class authors describe and illustrate how structural dynamics is applied to the engineering design process

Structural Dynamics in Engineering Design covers the fundamentals of structural dynamics and its application to the engineering design process, providing all of the necessary information to implement an optimal design process. Each of its seven chapters is written by an expert in the field and provides the reader with the structural dynamic theoretical background and its more practical aspects for the implementation of an advanced design capability.



9781119189916
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ANTENNAS AND WIRELESS POWER TRANSFER METHODS FOR BIOMEDICAL APPLICATIONS



9781119282358
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720 pages • Hardcover
Technology & Engineering
/ Mechanical

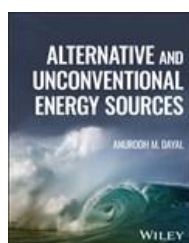
Modelling Transport (5th Edition)

M Ortuzar

Comprehensive Textbook Resource for Understanding Transport Modelling

Modelling Transport provides unrivalled depth and breadth of coverage on the topic of transport modelling. Each topic is approached as a modelling exercise with discussion of the roles of theory, data, model specification, estimation, validation, and application. The authors present the state of the art and its practical application in a pedagogic manner, easily understandable to both students and practitioners. An accompanying website hosts a solutions manual.

Sample topics and learning resources included in the work



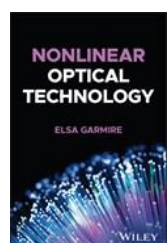
9781119500599
Pub Date: 1/24/24
272 pages • Hardcover
Science / Earth Sciences /
Geology

Alternative and Unconventional Energy Sources

AM Dayal

A timely volume for understanding our future energy landscape and for creating a bridge towards a decarbonized energy system

Alternative and Unconventional Energy Sources discusses various alternative energy sources and their present usage, including wind, solar, ocean, and geothermal energy, along with unconventional fossil energy sources, such as shale gas. The text covers the development and global adoption of each energy source, along with their environmental and economic impacts, resulting in a comprehensive and in-depth treatment of the subject.



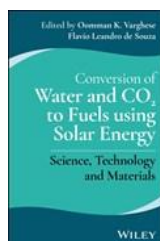
9781119508359
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250 pages • Hardcover
Technology & Engineering
/ Optics

Nonlinear Optical Technology: From The Beginning

Elsa Garmire

Comprehensive resources describing today's Nonlinear Optics (NLO) technology, its applications, and concepts behind the technology

Taking shape at the unique interdisciplinary engineering school at Dartmouth College, *Nonlinear Optical Technology* explores the importance of NLO in terms of how it permeates a vast number of applications such as fiber optics, biomedicine, sensors (especially Internet of Things), microscopy, spectroscopy, and machining, under the assumption engineers of all stripes may end up working in technical areas impacted by Nonlinear Optics (NLO) and



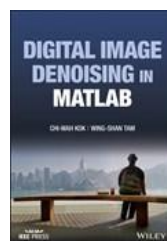
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496 pages • Hardcover
Science / Energy

Conversion of Water and CO₂ to Fuels using Solar Energy: Science, Technology and Materials

Varghese

Comprehensive Resource for Understanding the Emerging Solar Technologies for Hydrogen Generation via Water Splitting and Carbon-based Fuel Production via CO₂ Recycling

Fossil fuel burning is the primary source of carbon in the atmosphere. Due to the realization that it could harm the life in the planet, there has been a surge in research activities focusing on the development of alternative strategies for energy conversion. Fuel generation using solar energy is one of the most promising approaches that has received widespread attention. The fuels produced



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224 pages • Hardcover
Technology & Engineering / Signals & Signal Processing

Digital Image Denoising in MATLAB

C Kok

Presents a review of image denoising algorithms with practical MATLAB implementation guidance

Digital Image Denoising in MATLAB provides a comprehensive treatment of digital image denoising, containing a variety of techniques with applications in high-quality photo enhancement as well as multi-dimensional signal processing problems such as array signal processing, radar signal estimation and detection, and more. Offering systematic guidance on image denoising in theories and in practice through MATLAB. This hands-on guide includes practical examples, chapter summaries, analytical and programming p...

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Fiber Optic Sensors: An Introduction for Engineers and Scientists (3rd Edition)

Udd

Discover the latest in fiber optic sensors and their applications in this new edition

Fiber-optic sensors are a powerful class of sensor that uses high-bandwidth optical fibers to convey a large amount of measured information through a single fiber. The advantages of such a mode of measurement are clear: they are intrinsically safe in explosive environments (no sparks), lightweight, compact, robust, and potentially inexpensive. As a result, their uses are manifold for a wide range of physical and chemical phenomena including temperature, strain, pressure, acoustic fields, position,

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Science / Waves & Wave Mechanics

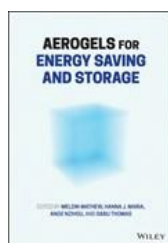
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Cyber Operations: A Case Study Approach

Couretas

The rapidly developing field of cyber systems has yet to benefit from the structured analysis that more formal technical disciplines use to guide their fields of practice. This lack of comprehensive understanding results in a challenge when describing a "cyber problem," much less in determining a technical, process or policy countermeasure1 that remedies the situation. Therefore, framing cyber analysis, first as a conceptual model, based on well-known operations that span from media (e.g., 2016 US Presidential Campaign) to suspected critical infrastructure threats (e.g., Dragonfly Campaign2)...

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Computers / Security / Cryptography & Encryption



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Aerogels for Energy Saving and Storage

Mathew

Explore the energy storage applications of a wide variety of aerogels made from different materials

In *Aerogels for Energy Storage Applications*, an expert team of researchers delivers a one-stop resource covering the state-of-the-art in aerogels for energy applications. The book covers their morphology, properties, and processability and serves as a valuable resource for researchers and professionals working in materials science and environmentally friendly energy and power technology.

The authors offer a comprehensive review of highly efficient energy applications of aerogels that bridges the

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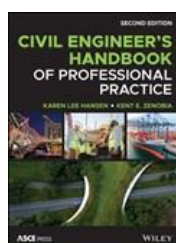
Computer Supported Collaboration: Theory and Practice

Huang

Discover the latest developments in AR, VR, mobile, and wearable technologies for the remote guidance of physical tasks

In *Computer Supported Collaboration: Theory and Practice*, an expert team of researchers and professionals delivers the latest instruction in using augmented reality (AR), virtual reality (VR), and mobile or wearable technology to support remote guidance on physical tasks. The authors offer an overview of the field before moving on to discuss state-of-the-art research developments in everything from shared visual spaces to the use of hand gestures and gaze information for remote

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Computers / Human-Computer Interaction (HCI)



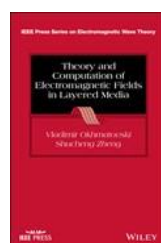
9781119739791
Pub Date: 12/27/23
576 pages • Hardcover
Technology & Engineering / Construction

Civil Engineer's Handbook of Professional Practice (2nd Edition)

Hansen

Professional practice guide for students and early-career engineers looking to upskill and master the business of civil engineering

Civil Engineer's Handbook of Professional Practice is the first single-source guide to take the practical skills defined by the American Society of Civil Engineers' Civil Engineering Body of Knowledge (CEBOK) and provide illuminating techniques, quotes, example problems, case studies, and valuable information to assist students and early-career engineers in addressing the many challenges facing civil engineers in the real world. The work distills the



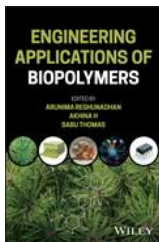
9781119763192
Pub Date: 12/12/23
600 pages • Hardcover
Science / Physics / Electromagnetism

Theory and Computation of Electromagnetic Fields in Layered Media

Okhmatovski

Explore the algorithms and numerical methods used to compute electromagnetic fields in multi-layered media

In *Theory and Computation of Electromagnetic Fields in Layered Media*, two distinguished electrical engineering researchers deliver a detailed and up-to-date overview of the theory and numerical methods used to determine electromagnetic fields in layered media. The book begins with an introduction to Maxwell's equations, the fundamentals of electromagnetic theory, and concepts and definitions relating to Green's function. It then moves on to



Applications of Biopolymers in Science, Biotechnology, and Engineering

Reghunadhan

Single volume resource covering the many different applications of biopolymers, along with foundational knowledge like biodegradability and recent advancements

Along with providing in-depth discussions on the fundamentals of biopolymers, such as synthesis, fabrication technologies, and properties, *Applications of Biopolymers in Science, Biotechnology, and Engineering* covers the applications of biopolymers in various fields such as biotechnology, construction and civil engineering, tissue engineering, dairy technology, packaging,

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Science / Chemistry /
Industrial & Technical

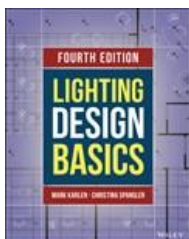


Signal Processing for Joint Radar Communications

Mishra

In the last five years, significant developments and applications have been made within radar communications. *Signal Processing for Joint Radar Communications* delves into the recent advances within the theory and applications of joint radar-communications (JRC) and includes the challenges that are still faced today. Bringing together newly written expert contributions from leading researchers within the field of Joint Radar-Communications, the book tackles key JRC signal processing challenges such as common waveform design for both radar and communications systems, receiver

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Technology & Engineering
/ Radar



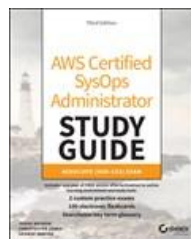
Lighting Design Basics (4th Edition)

Karlen

An authoritative introduction to professional lighting design for architects, interior designers, and engineers

Lighting is an essential component of any designed space, yet it is one of the most difficult to get right. *Lighting Design Basics*, 4th Edition provides a fundamental grounding in architectural lighting concepts, processes, and techniques that every student should master. The book offers a carefully balanced combination of design and technology instruction and provides a great deal of graphic information, complete with plan, section, and three-dimensional drawings.

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256 pages • Paperback
Architecture / Interior
Design



AWS Certified SysOps Administrator Study Guide: Associate SOA-C02 Exam (3rd Edition)

Jorge Negron, Christoffer Jones, George Sawyer

Prepare for success on the AWS SysOps exam, your next job interview, and in the field with this handy and practical guide

The newly updated Third Edition of *AWS Certified SysOps Administrator Study Guide: Associate (SOA-C02) Exam* prepares you for the Amazon Web Services SysOps Administrator certification and a career in the deployment, management, and operation of an AWS environment.

Whether you're preparing for your first attempt at the challenging SOA-C02 Exam, or you want to upgrade your AWS SysOps skills, this practical Study Guide delivers

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512 pages • Paperback
Computers / Certification
Guides

Defect Assessment for Integrity Management of Pipelines

Y. Frank Cheng

This book focuses on defect assessment on pipelines for an improved integrity management. The fundamental and practical applications of defect assessment methods provide a reliable means for the determination of fitness-for-service of pipelines containing various types of anomalies and an accurate prediction of pipeline failure.

Evolution of the techniques and industry codes for defect assessment on pipelines is introduced in a technical development sequence from introductory to advanced techniques. In addition to corrosion defects, dents and other geometrical anomalies present on pipelines are...

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Technology & Engineering
/ Chemical & Biochemical



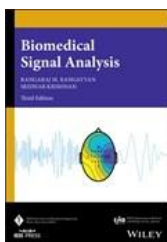
5G Technology: 3GPP Evolution to 5G-Advanced (2nd Edition)

H Holma

An Essential Insider's View of the Development Work of 5G Technology Up to Release 18

5G brings new technology solutions to the 5G mobile networks, including new spectrum options, antenna structures, physical layer and protocols designs, and network architectures. *5G Technology: 3GPP New Radio* is an accessible and comprehensive resource that offers explanations of 5G specifications and performance evaluations, aspects of device design, practical deployment considerations and illustrative examples from field experiences.

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656 pages • Hardcover
Technology & Engineering
/ Telecommunications



Biomedical Signal Analysis (3rd Edition)

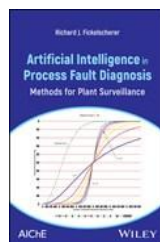
Rangayyan

Comprehensive resource covering recent developments, applications of current interest, and advanced techniques for biomedical signal analysis

Biomedical Signal Analysis provides extensive insight into digital signal processing techniques for filtering, identification, characterization, classification, and analysis of biomedical signals with the aim of computer-aided diagnosis, taking a unique approach by presenting case studies encountered in the authors' research work.

Each chapter begins with the statement of a biomedical signal problem, followed by a selection of real-life case studies and il

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720 pages • Hardcover
Science / Biotechnology



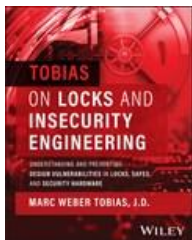
Artificial Intelligence in Process Fault Diagnosis: Methods for Plant Surveillance

Fickelscherer

A comprehensive guide to the future of process fault diagnosis

Automation has revolutionized every aspect of industrial production, from the accumulation of raw materials to quality control inspections. Even process analysis itself has become subject to automated efficiencies, in the form of process fault analyzers, computer programs capable of analyzing process plant operations to identify faults, improve safety, and enhance productivity. Prohibitive cost and challenges of application have prevented widespread industry adoption of this technology, but recent advances

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432 pages • Hardcover
Science / Chemistry /
Industrial & Technical



Tobias on Locks and Insecurity Engineering

Tobias

Locks and keys, in various forms, have been employed to protect people, places, information, and assets for the thousands of years. And just as long as there have been locks, there have been people who want to open them without the key or combination. While improvements in lock design, metallurgy, integration of electronics in locks, and other advances should make locks more reliable, the truth is that for a persistent attacker, locks are just as vulnerable as ever and in some cases, even more so.

This book examines the multitude of ways that locks are built and designed. More importantly, it ...

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800 pages • Hardcover
Computers / Security

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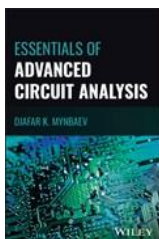
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Pub Date: 4/30/24
352 pages • Paperback
Technology & Engineering
/ Industrial Engineering

Product Development and Management Body of Knowledge: A Guidebook for Training and Certification (3rd Edition)

Anderson

The *Product Development and Management Body of Knowledge: A Guidebook for Training and Certification, Third Edition* provides the body of knowledge (BoK) required by candidates studying for PDMA's New Product Development Professional (NPDP) certification examination. The guide is divided into seven chapters, consistent with the seven topics used as a basis for the NPDP examination. These are:

1. Strategy
2. Portfolio management



Essentials of Advanced Circuit Analysis: A Systems Approach

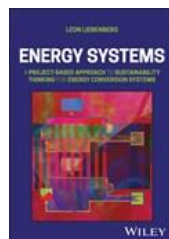
Mynbaev

Comprehensive textbook answering questions regarding the Advanced Circuit Analysis subject, including its theory, experiment, and role in modern and future technology

Essentials of Advanced Circuit Analysis focuses on the fundamentals of the subject with the balance of a systems theoretical approach and current technological issues. The book aims to achieve harmony between simplicity, engineering practicality, and perceptivity in the material presentation.

Each chapter presents its material on various levels of

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656 pages • Hardcover
Technology & Engineering
/ Electronics / Circuits



Energy Systems: A Project-Based Approach to Sustainability Thinking for Energy Conversion Systems

Leon Liebenberg

Energy Systems: A Project-Based Approach to Sustainability Thinking for Energy Conversion Systems provides easy-to-read coverage of the fundamentals of energy conversion systems, including energy supply and demand, the science of global warming, interpretations of sustainability, chemical fuels (including hydrogen), carbon capture and storage, internal and external combustion engines, vapor power and refrigeration plants, nuclear power, photovoltaics, fuel cells, solar-heat, wind energy, water energy, and energy storage

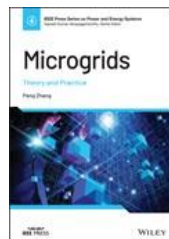
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560 pages • Hardcover
Technology & Engineering
/ Power Resources

Multiphase Transport of Hydrocarbons in Pipes

Manzano-Ruiz

This book reviews the work done on multiphase flow through pipes during the last five decades and focuses on project applications akin to flow assurance of hydrocarbon production. The fundamentals and challenges of multiphase flow thermal-hydraulic simulations are covered in depth jointly with the prediction of hydrocarbon properties. Historic multiphase flow models are reviewed, and the newer two-fluid model is developed for practical applications. Examples of the steady-state models presented include well flow, gathering systems, pipe fittings and restrictions. Practical examples of transien...

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Technology & Engineering
/ Mechanical



Microgrids: Theory and Practice

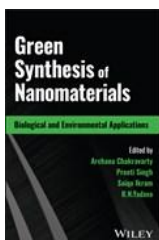
Peng Zhang

Understand microgrids and networked microgrid systems

Microgrids are interconnected groups of energy sources that operate together, capable of connecting with a larger grid or operating independently as needed and network conditions require. They can be valuable sources of energy for geographically circumscribed areas with highly targeted energy needs, and for remote or rural areas where continuous connection with a larger grid is difficult. Microgrids' controllability makes them especially effective at incorporating renewable energy sources.

Microgrids: Theory and Practice introduces readers to

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Technology & Engineering
/ Power Resources / Electrical

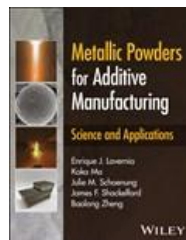


Green Synthesis of Nanomaterials: Biological and Environmental Applications

A Chakravarty

Starting with fundamentals and continuing through their mechanisms this book presents information on the latest research in green synthesized nanomaterial. This is then followed with chapters on nanomaterial and nanoparticle applications in the biomedical and pharmaceutical industries including use in anticancer, antitumor, anti-HIV, antibacterial, and anti-inflammatory medicines as well as in environmental remediation including waste water treatment, battery recycling, and air pollution control. The book presents the advantages of green synthesized nanomaterial over chemically synthesized nan...

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Technology & Engineering
/ Materials Science



Metallic Powders for Additive Manufacturing: Science and Applications

Lavemania

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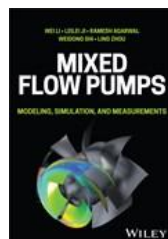
Gas Installation Technology (3rd Edition)

AS Burcham

Understand the core competencies of gas installation with this accessible textbook

Gas operatives in the UK must be Gas Safe registered, suitably qualified and assessed as competent in the aspect of gas work that they wish to undertake. Qualification is gained by means of an industry recognised Managed Learning Programme or a gas aligned National Vocational Qualification (NVQ/SNVQ). Periodic renewal thereafter is by means of the National Accredited Certification Scheme (ACS). *Gas Installation Technology* is the definitive textbook for students enrolled in any of these courses. Now fully updated ...

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/ Construction



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Pub Date: 8/3/23
218 pages • Hardcover

Mixed Flow Pumps: Modeling, Simulation, and Measurements

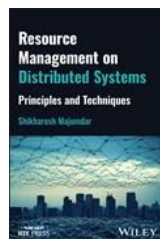
Wei Li, Leilei Ji, Ramesh Agarwal, Weidong Shi, Ling Zhou

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The Smart Estate: Collaborative working with BIM p latforms

Challender

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240 pages • Hardcover



9781119912934
Pub Date: 4/2/24
250 pages • Hardcover
Computers / Distributed
Systems

Resource Management on Distributed Systems: Principles and Techniques

Shikharesh Majumdar

Comprehensive guide to the principles, algorithms, and techniques underlying resource management for clouds, big data, and sensor-based systems.

Resource Management on Distributed Systems provides helpful guidance on resource management questions by describing algorithms and techniques for managing resources on parallel and distributed systems, including grids, clouds, and parallel processing-based platforms for big data analytics.

The book introduces four general principles of resource management with a discussion of their impact on system

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Introduction to Particle Technology Third Edition

M Rhodes

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448 pages • Hardcover
Computers / Computer
Architecture

The Engineering Design of Systems: Models and Methods (4th Edition)

Buede

Comprehensive resource covering methods to design, verify, and validate systems with a model-based approach, addressing engineering of current software-centric systems

The newly revised and updated Fourth Edition of *The Engineering Design of Systems* includes content addressing model-based systems engineering, digital engineering, digital threads, AI, SysML 1.0 and 2.0, digital twins, and GENESYS software. The authors explore system and software-centric architecture, allocations, and logical and physical architecture development, including

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Lebbeus Woods: Exquisite Experiments, Early Years

A Wagner

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Technology & Engineering
/ Mechanical

Incompressible Flow (5th Edition)

Panton

Incompressible Flow has long been considered a classic textbook for advanced level fluid mechanics courses covering viscous and non-viscous flow. The new *Fifth Edition* retains the format and approach that has proved successful in earlier editions. The book starts with a presentation of the basic principles, then gradually builds upon the math and physics behind key theories of fluid dynamics and gives examples of their applications through illustrative problems. For the first time, the book includes a new chapter on gas dynamics, as well as new content on the analysis of wind turbines and the ...



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Wheeler

Revised and updated sixth edition of the best-selling guide to branding fundamentals, strategy, and process.

It's harder than ever to be the brand of choice—in many markets, technology has lowered barriers to entry, increasing competition. Everything is digital and the need for fresh content is relentless. Decisions that used to be straightforward are now complicated by rapid advances in technology, the pandemic, political polarization, and numerous social and cultural changes.

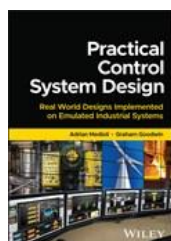
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This book delivers real world experience covering full-scale industrial control design, for students and professional control engineers

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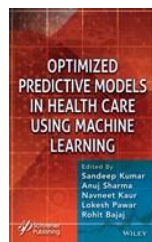
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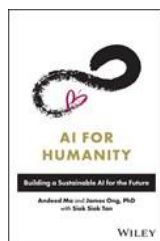
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Yuanwei Liu, Liang Liu, Zhiguo Ding, Xuemin Shen

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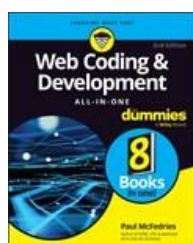
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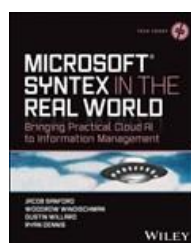
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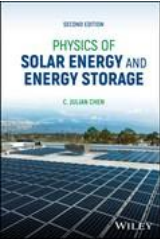
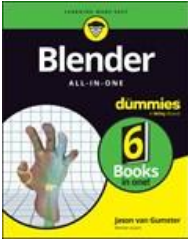
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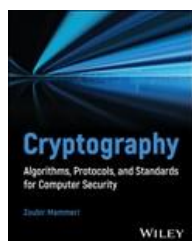
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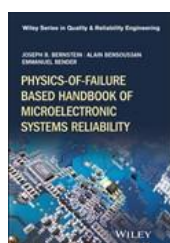
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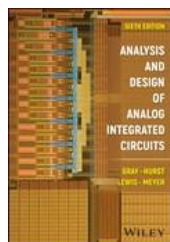
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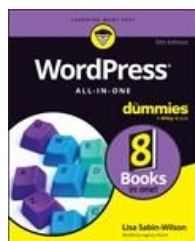
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Hughes

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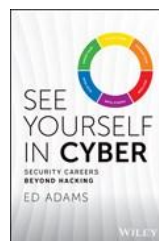
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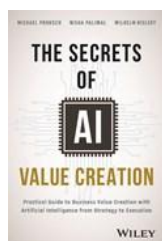
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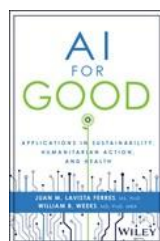
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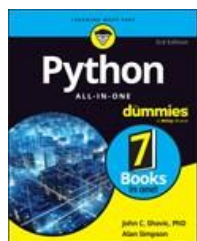
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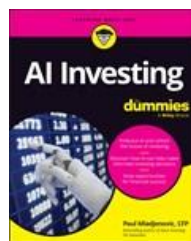
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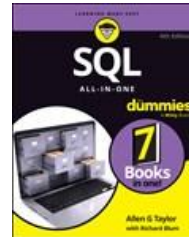
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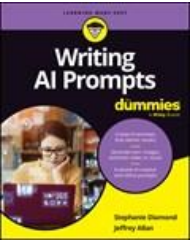
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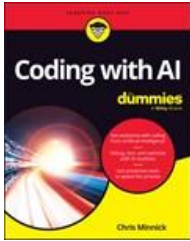
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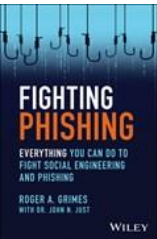
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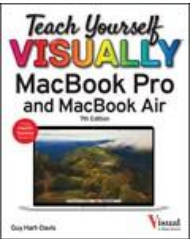
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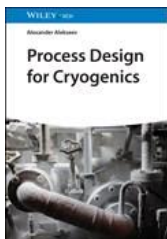
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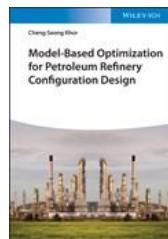
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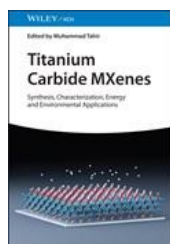
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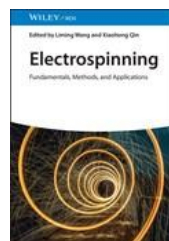
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