

Engineering & Computer Science

May to August 2023



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Architects' Data (6th Edition)

Ernst Neufert

An indispensable tool for the initial stages of designing and planning a building project

This new edition of the classic bestselling text provides, in one concise volume, the essential information needed as the basis for the more detailed design and development of any building project. Organized largely by building type, it covers the planning criteria and considerations of function and location—and with over 6200 diagrams, it provides a mass of data on spatial requirements.

Most of the featured illustrations are dimensioned and each building type includes plans, sections, site layouts and details.

9781119873945
Pub Date: 10/23/2023
640 pages • Paperback
Architecture / Reference



Cranbrook Architecture: A Legacy of Latitude

Gretchen Wilkins

Guest-edited by Gretchen Wilkins

The renowned Cranbrook Academy of Art near Detroit, Michigan, has been described as the epicentre of American Modernism. When it opened in 1932 it combined a stunning Eliel Saarinen-designed campus with a radically open educational philosophy to attract and produce some of the most influential artists, designers and architects in US history, including Charles and Ray Eames, Fumihiko Maki, Florence Knoll and Edmund Bacon. Often compared to other experimental schools such as the Bauhaus, Black Mountain College and Taliesin, Cranbrook's sustained purpose has been a...

9781119834427
Pub Date: 7/17/2023
136 pages • Paperback
Architecture / History



Building Futures: Technology, Ecology, and Architectural Practice

R Garber

BUILDING FUTURES

An approach to Information Modeling engaging concepts of equality, sustainability, and labor as they relate to environment and architectural practice

Building Futures: Technology, Ecology, and Architectural Practice explores how architects, and the buildings and environments we create, can engage future realities, both abstract and readily understood. These range from climate change and public health to advanced ideas about manufacture and construction. The text demonstrates

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Architecture / Buildings



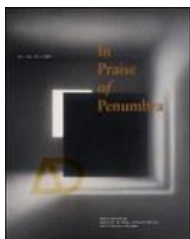
Architectural Design with SketchUp: 3D Modeling, Extensions, BIM, Rendering, Making, Scripting, and LayOut (3rd Edition)

Alexander C. Schreyer

The most complete reference for anyone using SketchUp, fully updated to cover the latest features, with a new chapter on drawing preparation using LayOut

This newly updated and revised Third Edition of *Architectural Design with SketchUp* covers all the topics that students and professionals use daily, such as 3D modeling, extensions, photorealistic rendering, and drawing preparation. It features more than fifty easy-to-follow tutorials that first brush up on the basics of the

9781394161133
Pub Date: 7/19/2023
480 pages • Paperback
Architecture / Design, Drafting, Drawing & Presentation



In Praise of Penumra

Agostino De Rosa, Alessio Bortot, Francesco Bergamo

Guest-edited by Agostino De Rosa, Alessio Bortot and Francesco Bergamo

Penumra, from the Latin *paene* (almost) and *umbra* (shadow), can be defined as an intermediate zone of transition between light and shadow. Penumra is therefore that space, both physical and imaginary, where everything is possible: it is the place of the uncanny, where presence and/or absence can produce wonder or horror.

This *AD* positions the presence of this archetype in the contemporary world of architecture, investigating the ways it permeates different expressive forms – from critical theory to architectural drawing.

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Pub Date: 8/28/2023
136 pages • Paperback
Architecture



The Urban Housing Handbook (2nd Edition)

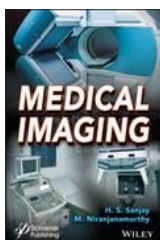
E Firley

An insightful and revealing look at the intersection of housing and urban design

In the newly revised Second Edition of *The Urban Housing Handbook*, distinguished scholars and architects Eric Firley and Victor Deupi deliver a vital design and analysis tool for housing practitioners, students, and researchers. The book outlines the characteristics of many of the most interesting and notable housing typologies, studied against a background of increasing densification.

The latest edition of the handbook offers graphic representations and analyses of more than 30 urban case studies from across the world.

9781119653684
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384 pages • Hardcover
Architecture / Urban & Land Use Planning



Medical Imaging

H. S. Sanjay, M. Niranjanamurthy

MEDICAL IMAGING

Written and edited by a team of experts in the field, this is the most comprehensive and up-to-date study of and reference for the practical applications of medical imaging for engineers, scientists, students, and medical professionals.

Medical imaging is one of the most important diagnostic tools in healthcare. More than 50% of the clinical market depends on diagnostic imaging to identify different pathological conditions in subjects. It is, therefore, essential for healthcare personnel and paramedical staff as well as the technicians and the supporting engineers to

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Multiscale Modelling in Biomedical Engineering

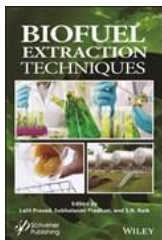
Fotiadis

Discover how multiscale modeling can enhance patient treatment and outcomes

In *Multiscale Modelling in Biomedical Engineering*, an accomplished team of biomedical professionals delivers a robust treatment of the foundation and background of a general computational methodology for multi-scale modeling. The authors demonstrate how this methodology can be applied to various fields of biomedicine, with a particular focus on orthopedics and cardiovascular medicine.

The book begins with a description of the relationship

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432 pages • Hardcover
Science / Biotechnology



Biofuel Extraction Techniques: Biofuels, Solar, and Other Technologies

Lalit Prasad, Subhalaxmi Pradhan, S. N. Naik

Biofuels are a viable alternative to petroleum-based fuel because they are produced from organic materials such as plants and their wastes, agricultural crops, and by-products. The development of cutting-edge technology has increased the need for energy significantly, which has resulted in an overreliance on fossil fuels. Renewable fuels are an important subject of research because of their biodegradability, eco-friendliness, decrease in greenhouse gas (GHG) emissions, and favorable socioeconomic consequences to counteract imitations of fossil fuels.

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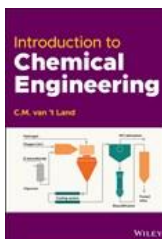
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304 pages • Hardcover
Science / Energy

Biorefinery Advances: Production of Fuels and Platform Chemicals

Sarangi

Massive use of fossil-based fuels not only create environmental pollution, but these sources are already diminishing. Waste biomass can aid in the production of biobased energy and chemicals for future industrial sectors. This book is a complete collection of chapters on biofuel and biochemical production presented in a sustainable way. Biorefineries are the need of the day, because they have the potential to produce fuels and chemicals in an environmentally sustainable way, to eventually fully displace production based on fossil resources such as petroleum, coal and natural gas.



Introduction to Chemical Engineering: A Practical Guide

C. M. van 't Land

An accessible introduction to chemical engineering for specialists in adjacent fields

Chemical engineering plays a vital role in numerous industries, including chemical manufacturing, oil and gas refining and processing, food processing, biofuels, pharmaceutical manufacturing, plastics production and use, and new energy recovery and generation technologies. Many people working in these fields, however, are nonspecialists: management, other kinds of engineers (mechanical, civil, electrical, software, computer, safety, etc.), and scientists of all varieties. Introduction to

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640 pages • Hardcover
Technology & Engineering
/ Chemical & Biochemical



Applied Mathematics and Modeling for Chemical Engineers, Solutions Manual (3rd Edition)

Richard G. Rice, Duong D. Do, James E. Maneval

This book is a Solutions Manual to accompany *Applied Mathematics and Modeling for Chemical Engineers*, Third Edition. There are many examples provided as homework in the original text and the solution manual provides detailed solutions of many of these problems that are in the parent book *Applied Mathematics and Modeling for Chemical Engineers*, Third Edition.

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Technology & Engineering
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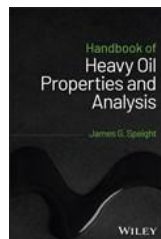
Applied Mathematics and Modeling for Chemical Engineers, Multi-Volume Set (3rd Edition)

Rice

Understand the fundamentals of applied mathematics with this up-to-date introduction

Applied mathematics is the use of mathematical concepts and methods in various applied or practical areas, including engineering, computer science, and more. As engineering science expands, the ability to work from mathematical principles to solve and understand equations has become an ever more critical component of engineering fields. New engineering processes and materials place ever-increasing mathematical demands on

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Technology & Engineering
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Handbook of Heavy Oil Properties and Analysis

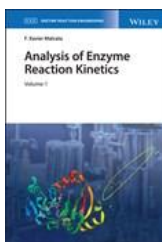
James G. Speight

Understand the future of oil production with this comprehensive guide

Heavy oil, also known as viscous oil, is oil too viscous to flow normally from wells and reservoirs. In recent decades it has become increasingly important as a source of liquid oil for use in industrial processes. This places all the greater importance on proper analysis of heavy oil and its properties, so that it can be more effectively refined and deployed to meet ever-growing energy needs.

Handbook of Heavy Oil Properties and Analysis provides a comprehensive introduction to the analysis of viscous oil

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Technology & Engineering
/ Power Resources / Fossil
Fuels



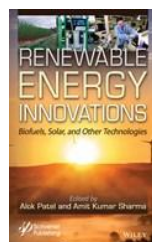
Analysis of Enzyme Reaction Kinetics, 2 Volume Set

F. Xavier Malcata

Comprehensively introduces readers to modelling of rate of enzymatic reactions, including effects of physicochemical parameters

Analysis of Enzyme Reaction Kinetics is the second set in a unique eleven-volume collection on Enzyme Reactor Engineering. It describes rate expressions pertaining to enzymatic reactions, including modulation by physicochemical factors, as well as tools for prediction and control of how fast substrates are transformed to products. Volume 1 details rate expressions mathematically derived from mechanistic postulates, and is complemented by

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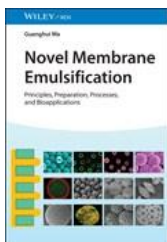


Green Technologies for Sustainable Production, Volume 1

Alok Kumar Patel, Amit Kumar Sharma

Global warming is having a huge impact on the world's ecosystem. Glaciers have shrunk, ice on rivers and lakes is breaking up early, and plant and animal ranges have relocated. On a worldwide scale, the threat posed by climate change and pollution is clearly obvious. A green and sustainable future necessitates using renewable resources to produce fuels, chemicals, and materials. This investigates diverse bioprocesses that are crucial to everyday life, including the key concerns regarding the generation of biofuels, energy and food securities along with waste management. Commercial interest in ...

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Novel Membrane Emulsification: Principles, Preparation, Processes and Bioapplications

Guanghui Ma

Comprehensive resource presenting state-of-the-art of membrane emulsification technology, from principle to practice, with focus on biomedical applications

Novel Membrane Emulsification: Principles, Preparation, Processes, and Bioapplications provides comprehensive coverage of membrane emulsification technology by summarizing the principle, preparation, and bio-applications through utilizing uniform particle size, introducing recent development in preparation and applications in the controlled release and delivery of

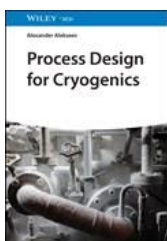
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Technology & Engineering



Advanced Chemical Process Control – From Theory into Practice

M Hovd

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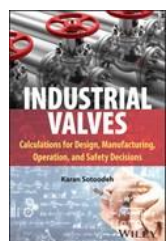
Process Design for Cryogenics

A Alekseev

Up-to-date overview of the method for producing the main industrial gases

This book covers process design for cryogenic processes like air separation, natural gas liquefaction, and hydrogen and helium liquefaction. It offers an overview of the basics of cryogenics and information on process design for modern industrial plants. Throughout, the book helps readers visualize the theories of thermodynamics related to cryogenics in practice. A central concept in the book is the connection between the theoretical world of process design and the real limitations given by available hardware components a...

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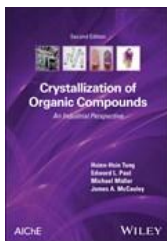
Industrial Valves: Calculations for Design, Manufacturing, Operation, and Safety Decisions

Sotoodeh

Improve the design and safety of your industrial valves with this comprehensive guide

Industrial valves are used to regulate the flow of liquids, gases, or slurries. They are fundamental to multiple industries, including marine shipping, in which valves regulate power supply, wastewater, water for fire-fighting, and other shipboard essentials. They are also critical to the oil and gas industry, where valves are used to control the flow of oil or gas out of deposits, direct the crude oil refining process, protect key areas and equipment from spillage and overflow, and more. Without the safety an...

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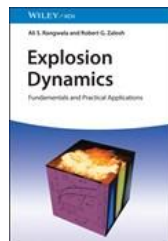
Crystallization of Organic Compounds: An Industrial Perspective (2nd Edition)

Hsien-Hsin Tung, Edward L. Paul, Michael Midler, James A. McCauley

Practical resource covering applications of crystallization principles with methodologies, case studies, and numerous industrial examples for emphasis

Based on the authors' hands-on experiences as process engineers, through the use of case studies and examples of crystallization processes, ranging from laboratory development through manufacturing scale-up, *Crystallization of Organic Compounds* guides readers through the practical applications of crystallization and

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Explosion Dynamics: Fundamentals and Practical Applications

Ali S. Rangwala, Robert G. Zalosh

Structured and comprehensive introductory guide to understanding and applying explosion dynamics concepts

Explosion Dynamics thoroughly explores the physical phenomena of explosions and enables readers to understand controlling variables that govern temperature, pressure, and rate of increase in pressure respectively, while also providing a mathematical framework for characterizing and applying key concepts.

To promote seamless reader comprehension, this comprehensive textbook provides working examples, case

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Science / Chemistry / Industrial & Technical

Machine Learning for Civil and Environmental Engineers: A Practical Approach to Data-Driven Analysis, Explainability, and Causality

M. Z. Naser

Accessible and practical framework for machine learning applications and solutions for civil and environmental engineers

This textbook introduces engineers and engineering students to the applications of artificial intelligence (AI), machine learning (ML), and machine intelligence (MI) in relation to civil and environmental engineering projects and problems, presenting state-of-the-art methodologies and techniques to develop and implement algorithms in

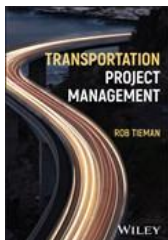
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Barry's Advanced Construction of Buildings

S Emmitt

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Transportation Project Management

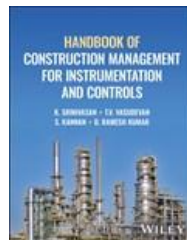
Rob Tieman

Approachable guide combining project management principles, and proven best practices applied to transportation projects

Transportation Project Management is a comprehensive and approachable work providing practical guidance on all aspects of managing projects related to transportation. It covers project management principles, practical applications, and proven best practices, all tailored specifically to the unique workflows of developing and designing transportation projects, from inception through to advertisement for construction.

Detailed themes include technical competencies, industry

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288 pages • Hardcover
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Handbook of Construction Management for Instrumentation and Controls

Kadambi Srinivasan

Comprehensive resource discussing the effective delivery of projects to install and commission complex, high performance instrumentation and controls in process and related plants

The Handbook of Construction Management for Instrumentation and Controls is a detailed guide discussing the many nuanced aspects required to deliver projects to install and commission complex, high performance instrumentation and controls. While standards and instrument manufacturer data are always available, the effective delivery of such projects involves much more

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528 pages • Hardcover
Technology & Engineering
/ Construction

Project Control: Integrating Cost and Schedule in Construction (2nd Edition)

Del Pico

The key to successful project control is the fusing of cost to schedule whereby the management of one helps to manage the other. Written by a seasoned professional with over 40 years of experience in construction project controls, Wayne Del Pico's *Project Control: Integrating Cost and Schedule in Construction, 2nd Edition* is an introduction and practical guide for construction project managers and students studying construction project management. It explores the reasons and methodologies for proper planning, monitoring, and controlling project costs and schedule. This title shows how product...

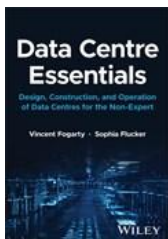
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/ Project Management

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Green Approaches for Smart Cities

K. Mohanasundaram, K. Vishnu Kumar, Sanjeevikumar Padmanaban, Jens Bo Holm-Nielsen

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350 pages • Hardcover
Business & Economics /
Development /
Sustainable Development



Data Centre Essentials: Design, Construction, and Operation of Data Centres for the Non-expert

Fogarty

Understand the design, construction and operation of data centres with this easy-to-use reference

Data centres are spaces where computer systems, physical network technology and associated components are housed, operated and monitored, and any industry or business that employs computer systems or networked systems at any scale will interact with data centres. Data centres are complex and expensive to build and operate, and successful project delivery requires a wide range of specialised knowledge and skills. This accessible reference lays out the requirements for creating these essential

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/ Surveying

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Composite Construction in Steel and Concrete

Markus Knobloch, Ulrike Kuhlmann, Wolfgang Kurz, Markus Schafer

This book summarizes the state-of-the-art in composite construction worldwide, as presented and discussed at the 9th International Conference on Composite Construction in Steel and Concrete. The contributions further the understanding and application of innovative structures.

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/ Civil

Reverse Osmosis: Industrial Processes and Applications (3rd Edition)

Jane Kucera

Reverse osmosis (RO) is the world's leading demineralization technology. It is used to provide clean water for potable and ultrapure uses as well as to treat wastewater for recycle or reuse. Regardless of the application or industry, the basics of RO are the same. This book provides the reader with in-depth knowledge about RO basics for any application.

This third edition is completely updated, still covering the basics of RO but with new insights as to how to optimize performance. Sections of the book cover the history of

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Geotechnical Engineering: Unsaturated and Saturated Soils (2nd Edition)

Jean-Louis Briaud

While there are many textbooks on the market that cover geotechnical engineering basics, *Geotechnical Engineering: Unsaturated and Saturated Soils, Second Edition* is unique in that it is the only textbook available that is rooted within the three phase unsaturated soil mechanics framework. Written by world-renowned, award-winning geotechnical engineering expert Dr. Jean-Louis Briaud, this *Second Edition* offers the most comprehensive coverage of geotechnical engineering topics on the market from theory to real-world application. This new edition includes new chapters on tunnels, earth

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Compendium Deep Foundation, Part 2: Soil Improvement: Processes, Equipment, Applications, IT-Solutions

Liebherr-Werk Nenzing GmbH

The *Compendium Deep Foundation* (volumes I and II) has developed in a short time into the standard reference work in the field of deep foundation processes and machinery. The progressive development and innovation in process technology and machinery in recent years provided the impetus for the publication of a completely new reference book, the *Compendium Deep Foundation*. Numerous descriptive illustrations, high-quality renderings, and on-site photos supplement the descriptive text and should assist the understanding of the reader. The

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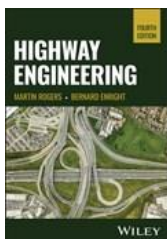


Recommendations of the Committee for Waterfront Structures Harbours and Waterways: EAU 2020 (10th Edition)

HTG, Deutsche Gesellschaft für Geotechnik

The recommendations have been completely restructured in this 12th (2020) edition of the EAU (10th English edition), the aim being to provide readers with a better, clearer arrangement of the chapters. In addition, the information published in the annual technical reports of the Waterfront Structures Committee since the publication of the 11th German edition have been incorporated in this new edition. The recommendations also take into account the new generation of standards consisting of Eurocode 7, the associated National Application Documents and

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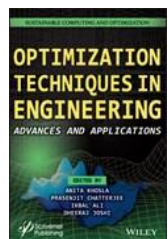


Highway Engineering (4th Edition)

M Rogers

Highway Engineering covers all the necessary foundational material needed by civil engineers to address the analysis, design, and construction of highways. It covers central topics such as geometric, junction and pavement design, structural design, and pavement maintenance, while also ensuring students obtain an adequate grasp of traffic analysis. It places the topic in context by introducing the economic, political, social, environmental, and administrative dimensions of the subject – essential understanding for all engineers. Highway Engineering makes frequent reference to the Department of ...

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/ Civil



Optimization Techniques in Engineering: Advances and Applications

Anita Khosla, Prasenjit Chatterjee, Ikbal Ali, Dheeraj Joshi

OPTIMIZATION TECHNIQUES IN ENGINEERING
The book describes the basic components of an optimization problem along with the formulation of design problems as mathematical programming problems using an objective function that expresses the main aim of the model, and how it is to be either minimized or maximized; subsequently, the concept of optimization and its relevance towards an optimal solution in engineering applications, is explained.

This book aims to present some of the recent

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Intelligence

Artificial Intelligence for Sustainable Applications

K. Umamaheswari, B. Vinoth Kumar, S. K. Somasundaram

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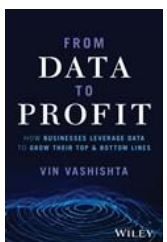
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Computers / Artificial
Intelligence

Introduction to Artificial Intelligence and Machine Learning: A Hands-on Approach Using Python

K. Meena, P. Dhanith, B. Surendiran, S. Balamurugan

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From Data To Profit: How Businesses Leverage Data to Grow Their Top and Bottom Lines

Vin Vashishta

Transform your company's AI and data frameworks to unlock the true power of disruptive new tech

In *From Data to Profit: How Businesses Leverage Data to Grow Their Top and Bottom Lines*, accomplished entrepreneur and AI strategist Vineet Vashishta delivers an engaging and insightful new take on making the most of data, artificial intelligence, and technology at your company. You'll learn to change the culture, strategy, structure, and operational framework of your company to take full advantage of disruptive advances in tech.

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Decision Analytics for Sustainable Applications

Morteza Yazdani, Doval Hernandez, Santibanez Gonzalez

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Reshaping Intelligent Business and Industry: Convergence of AI and IoT at the Cutting Edge

Surjeet Dalal, Neeraj Dahiya, Vivek Jaglan Deepika Koundal, Dac-Nhuong Le

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Innovative Engineering with AI Applications

Anamika Ahirwar, Piyush Kumar Shukla, Manish Shrivastava, Priti Maheshwary, Bhupesh Gour

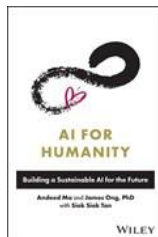
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Handbook of Computational Sciences: A Multi and Inter-disciplinary Approach

Ahmed A. Elngar, Vigneshwar. M., Krishna Kant Singh, Zdzislaw Polkowski

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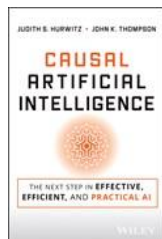


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Pub Date: 10/2/2023
256 pages • Hardcover
Computers / Artificial
Intelligence

AI for Humanity: Building a Sustainable AI for the Future

Adee Ma, James Ong, Siok Siok Tan

Primarily targeted at the private sector, *Sustainable AI: Balancing technology, commercialization, impact and governance for future AI* aims to encourage businesses to adopt sustainable development of Artificial Intelligence technologies in their products and services, and to help them create their own frameworks for risk management and governance. In this book, the authors examine and discuss what they consider as the four pillars to sustainable development of AI, which are technology, commercialization, impact and governance, and propose actionable commitments that businesses can make. They



Causal Artificial Intelligence: The Next Step in Effective, Efficient, and Practical AI

Judith S. Hurwitz, John K. Thompson

Discover the next major revolution in data science and AI and how it applies to your organization

In *Causal Artificial Intelligence: The Next Step in Effective, Efficient, and Practical AI*, a team of dedicated tech executives delivers a business-focused approach based on a deep and engaging exploration of the models and data used in causal AI. The book's discussions include both accessible and understandable technical detail and business context and concepts that frame causal AI in familiar business settings.

It is useful for both data scientists and business-side

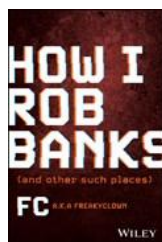
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Multimodal Biometric and Machine Learning Technologies: Applications for Computer Vision

Sandeep Kumar, Rohit Raja, K. V. K. K. Prasad, Munish Kumar

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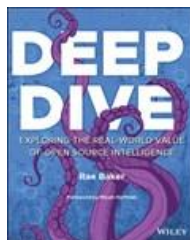
How I Rob Banks: And Other Such Places

FC

Follow FC as he steals from the world's most secure banks and government facilities—without breaking a single law

In *How I Rob Banks: And Other Such Places*, renowned ethical hacker and social engineer FC delivers a gripping and often hilarious discussion of his work: testing the limits of physical bank security by trying to “steal” money, data, and anything else he can get his hands on. In the book, you'll explore the secretive world of physical assessments and follow FC as he breaks into banks and secure government locations to identify security flaws and loopholes.

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Computers / Security



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544 pages • Paperback
Computers / Internet /
Online Safety & Privacy

Deep Dive: Exploring the Real-world Value of Open Source Intelligence

Rae L. Baker, Micah Hoffman

Learn to gather and analyze publicly available data for your intelligence needs

In *Deep Dive: Exploring the Real-world Value of Open Source Intelligence*, veteran open-source intelligence analyst Rae Baker explains how to use publicly available data to advance your investigative OSINT skills and how your adversaries are most likely to use publicly accessible data against you. The author delivers an authoritative introduction to the tradecraft utilized by open-source intelligence gathering specialists while offering real-life cases that highlight and underline the data collection and



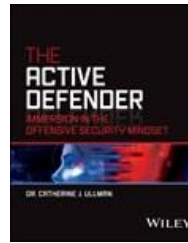
Software Transparency: Supply Chain Security in an Era of a Software-Driven Society

Chris Hughes, Tony Turner, Allan Friedman, Steve Springett

Discover the new cybersecurity landscape of the interconnected software supply chain

In *Software Transparency: Supply Chain Security in an Era of a Software-Driven Society*, a team of veteran information security professionals delivers an expert treatment of software supply chain security. In the book, you'll explore real-world examples and guidance on how to defend your own organization against internal and external attacks. It includes coverage of topics including the history of the software transparency movement,

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Business & Economics / Insurance / Risk Assessment & Management



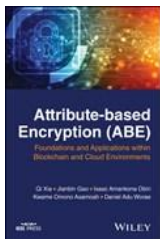
The Active Defender: Immersion in the Offensive Security Mindset

Dr. Catherine J. Ullman

Immerse yourself in the offensive security mindset to better defend against attacks

In *The Active Defender: Immersion in the Offensive Security Mindset*, Senior Information Security Forensic Analyst Dr. Catherine J. Ullman delivers an expert treatment of the Active Defender approach to information security. In the book, you'll learn to understand and embrace the knowledge you can gain from the offensive security community. You'll become familiar with the hacker mindset, which allows you to gain emergent insight into how attackers operate and better grasp the nature of the

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Paperback
Computers / Security



Attribute-based Encryption (ABE): Foundations and Applications within Blockchain and Cloud Environments

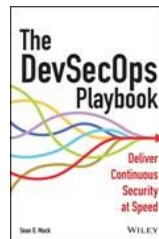
Q Xia

Enables readers to understand applications of attribute-based encryption schemes in cloud computing with the support of blockchain technology

With a focus on blockchain technology, *Attribute-based Encryption (ABE)* provides insight into the application of attribute-based encryption (ABE) schemes with blockchain, discussing types of blockchains, fundamentals of blockchain, and how blockchains are constructed.

Comprised of 16 chapters, the text provides readers with

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288 pages • Hardcover
Computers / Security / Cryptography & Encryption



The DevSecOps Playbook: Deliver Continuous Security at Speed

Mack

A must-read guide to a new and rapidly growing field in cybersecurity

In *The DevSecOps Playbook: Deliver Continuous Security at Speed*, Wiley CISO and CIO Sean D. Mack delivers an expert analysis of how to keep your business secure, relying on the classic triad of people, process, and technology to examine—in depth—every component of DevSecOps. In the book, you'll learn why DevSecOps is as much about people and collaboration as it is about technology and how it impacts every part of our cybersecurity systems.

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Computers / Security / Network Security



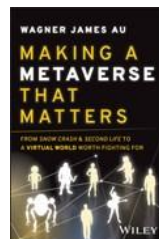
Fundamentals of Database Management Systems (3rd Edition)

Mark L. Gillenson

In the newly revised third edition of *Fundamentals of Database Management Systems*, veteran database expert Dr. Mark Gillenson delivers an authoritative and comprehensive account of contemporary database management. The *Third Edition* assists readers in understanding critical topics in the subject, including data modeling, relational database concepts, logical and physical database design, SQL, data administration, data security, NoSQL, blockchain, database in the cloud, and more.

The author offers a firm grounding in the fundamentals of

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Making a Metaverse That Matters: From Snow Crash & Second Life to a Virtual World Worth Fighting For

Wagner James Au

An up-close account from the world's first metaverse-embedded reporter

In *Making a Metaverse That Matters: From Snow Crash & Second Life to a Virtual World Worth Fighting For*, the celebrated author of *The Making of Second Life* and *Game Design Secrets*, Wagner James Au, delivers an engrossing exploration of how nascent metaverse platforms have already captured the imagination of millions. Featuring powerful stories and dozens of incisive interviews with insiders including Metaverse creator Neal Stephenson

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Data Exfiltration Malware, Detection, and Prevention Technologies

Z Tari

Comprehensive resource covering threat prevention techniques for data exfiltration and applying machine learning applications to aid in identification and prevention

Data Exfiltration Threats and Prevention Techniques provides readers the knowledge needed to prevent and protect from malware attacks by introducing existing and recently developed methods in malware protection using AI, memory forensic, and pattern matching, presenting various data exfiltration attack vectors and advanced memory-based data leakage detection, and discussing

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HTML, CSS, & JavaScript All-in-One For Dummies

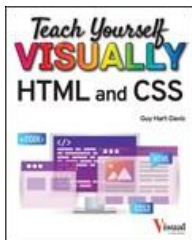
Paul McFedries

A thorough and helpful reference for aspiring website builders

Looking to start an exciting new career in front-end web building and design? Or maybe you just want to develop a new skill and create websites for fun. Whatever your reasons, it's never been easier to start learning how to build websites from scratch than with help from *HTML, CSS, & JavaScript All-in-One For Dummies*. This book has the essentials you need to wrap your head around the key ingredients of website design and creation.

You'll learn to build attractive, useful, and easy-to-navigate

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Teach Yourself VISUALLY HTML and CSS: The Fast and Easy Way to Learn (2nd Edition)

Guy Hart-Davis

Level-up your HTML and CSS web development skills with this dynamic, visual guide

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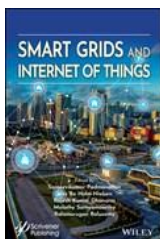
Canon EOS R50 For Dummies

Julie Adair King

Move on from phone snapshots and start making amazing images

Canon EOS R50 For Dummies helps you create superior photo and video content, with step-by-step instructions for how to make the most of this advanced, interchangeable-lens digital camera. You'll walk through the controls, interface, and accessories of the Canon EOS R50, and you'll learn the basics of image-making, so you can take impressive shots, even if you've never taken a photography class. Let this Dummies guide be your teacher as you learn to take great action shots, stunning portraits, detailed closeups, low-light photos, and p...

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Smart Grids and Internet of Things: An Energy Perspective

Sanjeevikumar Padmanaban, Rajesh Kumar Dhanaraj, Malathy Sathyamoorthy, Jens Bo Holm-Nielsen, Balamurugan Balusamy

SMART GRIDS AND INTERNET OF THINGS
Smart grids and the Internet of Things (IoT) are rapidly changing and complicated subjects that are constantly changing and developing. This new volume addresses the current state-of-the-art concepts and technologies associated with the technologies and covers new ideas and emerging novel technologies and processes.

Internet of Things (IoT) is a self-organized network that

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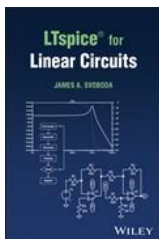
GarageBand For Dummies (3rd Edition)

Bob LeVitus

Put together great-sounding audio tracks on Mac, iPhone, or iPad

GarageBand For Dummies gets you started with the popular audio software included with Apple devices. This simple app lets you do everything from building basic beats to creating multi-track recordings. You'll learn how to build a song from the ground up in this beginner-friendly Dummies guide. Follow simple, step-by-step instructions that guide you through building percussion loops, adding melodies, and recording live vocals or other instruments. When your masterpiece is complete, this book shows you how to mix and master your tra...

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LTspice for Linear Circuits

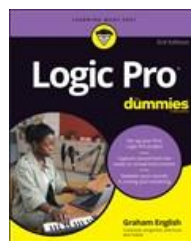
JA Svoboda

Introduce yourself to the industry-leading software in electronic circuit simulation

The simulation of electronic circuits is a crucial tool in modern electrical engineering. Many currently available software toolkits for circuit simulation are expensive, or nominally free but with significant restrictions on features and applications. LTspice®, a software distributed by semiconductor manufacturer Analog Devices, is not only the most widely used SPICE-based circuit simulator in the industry, but also free and unrestricted.

LTspice® for Linear Circuits provides a comprehensive introduction to thi

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Logic Pro For Dummies (3rd Edition)

English

This one-stop source for Logic Pro insight helps you spend more time creating music

Every minute you spend trying to figure out how to set up a new track or build a drum loop is a minute you don't spend creating and recording your music. This guide to the recording software favored by Mac users helps you bypass the time needed to search for tech answers and spend more time capturing sounds. Discover the full recording power of Logic Pro, starting with launching a project and recording your audio. Explore the built-in digital instruments and beat makers, augment your recording power with plug-in...

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Security and Privacy Vision in 6G: A Comprehensive Guide

Pawani Porambage, Madhusanka Liyanage

Prepare for the future of mobile communication with this comprehensive study

6G is the next frontier in mobile communication, with development of 6G standards slated to begin as early as 2026. As telecommunications networks become even faster and more intelligent, security and privacy concerns will become all the more critical. In an increasingly connected world, there is an urgent need for user data to be safeguarded and system security enhanced against a new generation of threats.

6G Security and Privacy provides a comprehensive survey

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Advances in Cyber Security: AI-Augmented Attacks

Rashmi Agrawal, Ganesh Gopal Deverajan

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Open RAN: The Definitive Guide

Wong

A comprehensive survey of Open RAN technology and its ecosystem

In *Open RAN: The Definitive Guide*, a team of distinguished industry leaders deliver an authoritative guide to all four principles of the Open RAN vision: openness, virtualization, intelligence, and interoperability. Written by the industry experts currently defining the specifications, building the systems, and testing and deploying the networks, the book covers O-RAN architecture, the fronthaul interface, security, cloudification, virtualization, intelligence, certification, badging, and standardization.

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Inter Domain Routing Security

Xavier Masip-Bruin, Marcelo Yannuzzi, Muhammad Shuaib Siddiqui

Inter-domain routing security is a big actor in end-to-end network connectivity. The protocol currently implemented was not designed to cover such a critical aspect, and so many vulnerabilities crop up, having a strong impact on the whole system. Despite much effort in the past focusing in addressing security issues, no solutions have become a reality, hence novel solutions must be sought to reduce the vulnerabilities space. The Border Gateway Protocol (BGP) is a critical component of the Internet's infrastructure used as the de facto inter-domain routing protocol among autonomous systems. It ...

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Telecommunication Networks

Harry G. Perros

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Evolution of Wireless Communication Ecosystems

Suat Secgin

Understand a world transformed by wireless communication with this groundbreaking guide

Since the advent of the internet, few technologies have proven more transformative than wireless communication. Never have we lived in a more comprehensively connected world, with the cloud and the coming sixth generation (6G) of wireless technology creating a vast and interconnected communications infrastructure. Global citizens of this newly interconnected reality are grappling like never before with its many challenges.

Evolution of Wireless Communication Ecosystems from 1G

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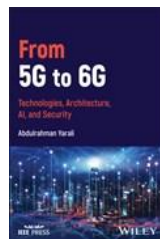
Deep Reinforcement Learning for Wireless Communications and Networking: Theory, Applications and Implementation

Dinh Thai Hoang, Nguyen Van Huynh, Diep N. Nguyen, Ekram Hossain, Dusit Niyato

Comprehensive guide to Deep Reinforcement Learning (DRL) as applied to wireless communication systems

Deep Reinforcement Learning for Wireless Communications and Networking presents an overview of the development of DRL while providing fundamental knowledge about theories, formulation, design, learning models, algorithms and implementation of DRL together with a particular case study to practice. The book also

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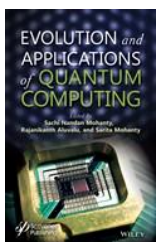
From 5G to 6G: Technologies, Architecture, AI, and Security

Abdulrahman Yarali

Understand the transition to the sixth generation of wireless with this bold introduction

The transition from the fifth generation of wireless communication (5G) to the coming sixth generation (6G) promises to be one of the most significant phases in the history of telecommunications. The technological, social, and logistical challenges promise to be significant, and meeting these challenges will determine the future of wireless communication. Experts and professionals across dozens of fields and industries are beginning to reckon seriously with these challenges as the 6G revolution

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Evolution and Applications of Quantum Computing

Mohanty

The book provides a holistic and valuable insight into the revolutionary world of quantum computing. It reflects the dependence of quantum computing on the physical phenomenon of Superposition, Entanglement, Teleportation and Interference to simplify the difficult mathematical problems that would have otherwise taken years to derive definite solution. With the amalgamation of multiple chapters, this book elucidates the revolutionary and riveting research in the new-fangled domain of quantum computation, quantum information and quantum mechanics. Each Chapter of the book gives a

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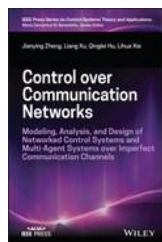
Quantum Computing: A New Era of Computing

Kuldeep Singh Kaswan, Jagjit Singh Dhatteval, Anupam Baliyan, Shalli Rani

A helpful introduction to all aspects of quantum computing

Quantum computing is a field combining quantum mechanics—the physical science of nature at the scale of atoms and subatomic particles—and information science. Where ordinary computing uses bits, logical values whose position can either be 0 or 1, quantum computing is built around qubits, a fundamental unit of quantum information which can exist in a superposition of both states. As quantum computers are able to complete certain kinds of functions more accurately and efficiently than computers

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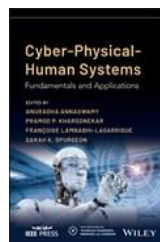
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Science / System Theory

Control over Communication Networks: Modeling, Analysis, and Design of Networked Control Systems and Multi-Agent Systems over Imperfect Communication Channels

Jianying Zheng, Liang Xu, Qinglei Hu, Lihua Xie

Control over Communication Networks
Advanced and systematic examination of the design and analysis of networked control systems and multi-agent systems

Control Over Communication Networks provides a systematic and nearly self-contained description of the analysis and design of networked control systems (NCSs) and multi-agent systems (MASs) over imperfect communication networks, with a primary focus on fading



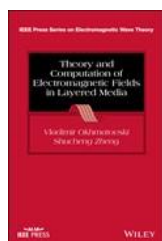
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Spurgeon

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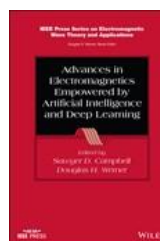
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Theory and Computation of Electromagnetic Fields in Layered Media

Okhmatovski

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

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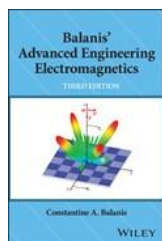
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Advances in Electromagnetics Empowered by Artificial Intelligence and Deep Learning

Campbell

Authoritative reference on the state of the art in the field with additional coverage of important foundational concepts

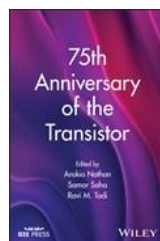
Advances in Electromagnetics Empowered by Artificial Intelligence and Deep Learning presents cutting-edge research advances in the rapidly growing areas in optical and RF electromagnetic device modeling, simulation, and inverse-design. The text provides a comprehensive treatment of the field on subjects ranging from fundamental theoretical principles and new technological developments to state-of-the-art device design, as well as



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Balanis



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75th Anniversary of the Transistor

Arokia Nathan, Samar Saha, Ravi M. Todi

75th anniversary commemorative volume reflecting the transistor's development since inception to current state of the art

75th Anniversary of the Transistor is a commemorative anniversary volume to celebrate the invention of the transistor. The anniversary volume was conceived by the IEEE Electron Devices Society (EDS) to provide comprehensive yet compact coverage of the historical perspectives underlying the invention of the transistor and its subsequent evolution into a multitude of integration and manufacturing technologies and applications.

The book reflects the transistor's development since

IEEE Technology and Engineering Management Society Body of Knowledge (TEMSBOK)

Gustavo Giannattasio, Elif Kongar, Marina Dabic, Celia Desmond, Michael Condry, Sudeendra Koushik, Dario Petri, Roberto Saracco

IEEE TEMS Board of Directors-approved body of knowledge dedicated to technology and engineering management

The IEEE Guide to the Technology and Engineering Management Society Body of Knowledge (TEMSBOK) establishes a set of common practices for technology and engineering management, acts as a reference for entrepreneurs, establishes a basis for future official

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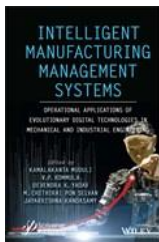
Pixels and Paintings

David G. Stork

The pioneering presentation of computer-based image analysis of fine art, forging a dialog between art scholars and the computer vision community

In recent years, sophisticated computer vision, graphics, and artificial intelligence algorithms have proven to be increasingly powerful tools in the study of fine art. These methods—some adapted from forensic digital photography and others developed specifically for art—empower a growing number of computer-savvy art scholars, conservators, and historians to answer longstanding questions as well as provide new approaches to the interpretation of art.

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Technology & Engineering / Imaging Systems



Intelligent Manufacturing Management Systems: Operational Applications of Evolutionary Digital Technologies in Mechanical and Industrial Engineering

Kamalakanta Muduli, V. P. Kommula, Devendra K. Yadav, M. Chithirai Pon Selvan, Jayakrishna Kandasamy

INTELLIGENT MANUFACTURING MANAGEMENT SYSTEMS

The book explores the latest manufacturing techniques in relation to AI and evolutionary algorithms that can monitor and control the manufacturing environment.

The concepts that pertain to the application of digital evolutionary technologies in the sphere of industrial

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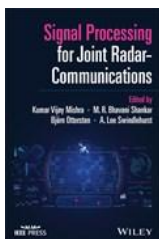
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475 pages • Hardcover
Technology & Engineering
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Drone Technology: Future Trends and Practical Applications

Mohanty

The book elucidates the revolutionary and riveting research in the ultramodern domain of drone technologies, drone-enabled IoT applications, and artificial intelligence-based smart surveillance. The book explains the most recent developments in the field, challenges, and future scope of drone technologies. Beyond that, it discusses the importance of a wide range of design applications, drone/UAV development, and drone-enabled smart healthcare systems for smart cities. It describes pioneering work on mitigating cyber security threats by employing intelligent machine learning models in the



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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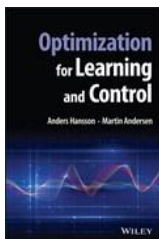
Sensing Technologies for Real Time Monitoring of Water Quality

Libu Manjakkal, Leandro Lorenzelli, Magnus Willander

A comprehensive guide to the development and application of smart sensing technologies for water and food quality monitoring

With contributions from a panel of experts on the topic, *Sensing Technologies for Real Time Monitoring of Water Quality* offers an authoritative resource that explores a complete set of sensing technologies designed to monitor, in real time, water and food (aquaculture) quality. The contributing authors explore the fundamentals of sensing technologies and review the most recent advances of various materials and sensors for water quality monitoring.

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Optimization for Learning and Control

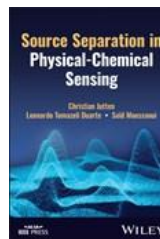
Anders Hansson, Martin Andersen

Comprehensive resource providing a masters' level introduction to optimization theory and algorithms for learning and control

Optimization for Learning and Control describes how optimization is used in these domains, giving a thorough introduction to both unsupervised learning, supervised learning, and reinforcement learning, with an emphasis on optimization methods for large-scale learning and control problems.

Several applications areas are also discussed, including signal processing, system identification, optimal control, and machine learning

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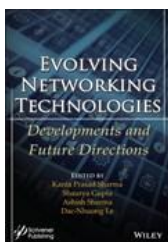
Source Separation in Physical-Chemical Sensing: A Two-Way Approach

Christian Jutten, Leonardo Tomazeli Duarte, Said Moussaoui

Master advanced signal processing for enhanced physical and chemical sensors with this essential guide

In many domains (medicine, satellite imaging and remote sensing, food industry, materials science), data are obtained from large set of physical/chemical sensors or sensor arrays. Such sophisticated measurement techniques require advanced and smart processing for extracting useful information from raw sensing data. Usually, sensors are not very selective and record a

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Evolving Networking Technologies: Developments and Future Directions

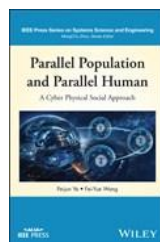
Kanta Prasad Sharma, Shaurya Gupta, Ashish Sharma, Dac-Nhuong Le

EVOLVING NETWORKING TECHNOLOGIES

This book discusses in a practical manner some of the critical security challenges facing the ever-evolving networking technologies of today.

In an age of explosive worldwide growth of electronic data storage and communications, effective protection of information has become a critical requirement, especially when used in coordination with other tools for information security and cryptography in all of its applications, including data confidentiality, data integrity, and user authentication.

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Parallel Population and Parallel Human Modelling, Analysis, and Computation: A Cyber-Physical Social Approach for Digital Twins in Metaverses

Peijun Ye, Fei-Yue Wang

Proposes a new paradigm to investigate an individual's cognitive deliberation in dynamic human-machine interactions

Today, intelligent machines enable people to interact remotely with friends, family, romantic partners, colleagues, competitors, organizations, and others. Virtual reality (VR), augmented reality (AR), artificial intelligence (AI), mobile social media, and other technologies have been driving these interactions to an unprecedented level.

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Handbook of Human-Machine Systems

Giancarlo Fortino, David Kaber, Andreas Nürnberger, David Mendonça

Insightful and cutting-edge discussions of recent developments in human-machine systems

In *Handbook of Human-Machine Systems*, a team of distinguished researchers delivers a comprehensive exploration of human-machine systems (HMS) research and development from a variety of illuminating perspectives. The book offers a big picture look at state-of-the-art research and technology in the area of HMS. Contributing authors cover Brain-Machine Interfaces and Systems, including assistive technologies like devices used to improve locomotion. They also discuss advances in the



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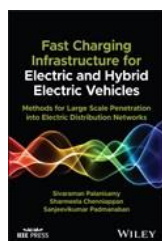
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INCOSE

A comprehensive reference on the discipline and practice of systems engineering

Systems engineering practitioners provide a wide range of vital functions, conceiving, developing, and supporting complex engineered systems with many interacting elements.

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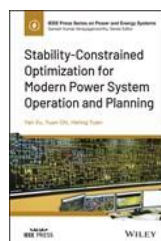


Fast Charging Infrastructure for Electric and Hybrid Electric Vehicles: Methods for Large Scale Penetration into Electric Distribution Networks

Sivaraman Palanisamy, Sharmeela Chenniappan, Sanjeevikumar Padmanaban

Comprehensive resource describing fast-charging infrastructure in electric vehicles, including various subsystems involved in the power system architecture needed for fast-charging

Fast Charging Infrastructure for Electric and Hybrid Electric Vehicles presents various aspects of fast-charging infrastructure, including the location of fast-charging stations, revenue models and tariff structures, power



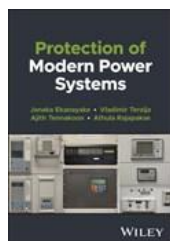
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Stability-Constrained Optimization for Modern Power System Operation and Planning

Yan Xu, Yuan Chi, Heling Yuan

Comprehensive treatment of an aspect of stability constrained operations and planning, including the latest research and engineering practices

Stability-Constrained Optimization for Modern Power System Operation and Planning focuses on the subject of power system stability, addressing a common gap in knowledge by presenting a series of stability-constrained optimization methodologies for power system operation and planning with the aim of power system stability enhancement. Unlike other resources, which focus mainly



Modern Power System Protection

J Ekanayake

Familiarize yourself with the cutting edge of power system protection technology

All electrical systems are vulnerable to faults, whether produced by damaged equipment or the cumulative breakdown of insulation. Protection from these faults is therefore an essential part of electrical engineering, and the various forms of protection that have developed constitute a central component of any course of study related to power systems. Particularly in recent decades, however, the demands of decarbonization and reduced dependency on fossil fuels have driven innovation in the field of power systems. Wi...



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Energy Smart Appliances: Applications, Methodologies, and Challenges

Antonio Moreno-Munoz, Neomar Giacomini

Enables designers and manufacturers to manage real-world energy performance and expectations by covering a range of potential scenarios and challenges

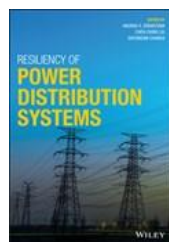
Energy Smart Appliances provides utilities and appliance manufacturers and designers with new approaches to better understand real-world performance, assess actual energy benefits, and tailor each technology to the needs of their customers.

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A. Kayode Coker

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Resiliency of Power Distribution Systems

Anurag K. Srivastava, Chen-Ching Liu, Sayansom Chanda

A revolutionary book covering the most relevant concepts required for resiliency-focused advancements of the distribution power grid

Most resiliency and security guidelines for the power industry are focused primarily on power transmission systems. As renewable energy and energy storage increasingly replace fossil-fuel-based power generation over the coming years, however, geospatially neighboring distributed energy resources will supply a majority of consumers and provide clean power through long transmission lines. These electric power distribution systems—the final stage in the delivery of e...

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Singh

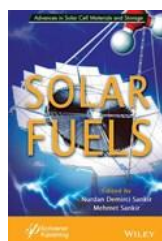
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Alok Kumar Patel, Amit Kumar Sharma, Leonidas Matsakas

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Solar Fuels

Sankir

The most important obstacle to solar meeting all our energy needs is that solar energy is not always accessible and therefore cannot be used when needed. Therefore, the conversion of solar energy into chemical energy, which has become more and more important in recent years, is a groundbreaking topic in the field of renewable energy. This type of chemical energy is called solar fuel. Hydrogen, methanol, methane, and carbon monoxide are among the solar fuels, which can be produced via solar-thermal, artificial photosynthesis, photocatalytic or photoelectrochemical routes. The *Advances in Solar ...*

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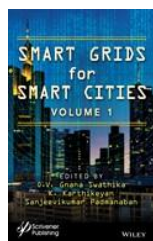
Intelligent and Soft Computing Systems for Green Energy

Chitra

Real-world problems need intelligent solutions. Across many industries and fields, intelligent and soft computing systems, using such developing technologies as artificial intelligence and Internet of Things, is quickly becoming an important tool for scientists, engineers, and other professionals for solving everyday problems in practical situations.

This book aims to bring together the research that has been carried out in the field of intelligent and soft computing systems. Intelligent and soft computing

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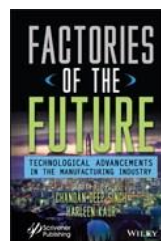


Smart Grids for Smart Cities, Volume 1: Real-Time Applications in Smart Cities

O. V. Gana Swathika, K. Karthikeyan, P. Sanjeevikumar

What makes a regular electric grid a "smart" grid? It basically comes down to digital technologies that enable two-way communication between a utility and its customers, as opposed to the traditional electric grid, where power flows in one direction. Based on statistics and available research, smart grids globally attract the largest investment venues in smart cities. Smart grids and city buildings that are connected in smart cities contribute to significant financial savings and contribute to improve the economy. The smart grid has a multitude of components, including controls, computers, au...

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Factories of the Future: Technological Advancements in the Manufacturing Industry

Singh

FACTORIES OF THE FUTURE
The book provides insight into various technologies adopted and to be adopted in the future by industries and measures the impact of these technologies on manufacturing performance and their sustainability.

Businesses and manufacturers face a slew of demands beyond the usual issues of staying agile and surviving in a competitive landscape within a rapidly changing world. *Factories of the Future* deftly takes the reader through the continuous technology changes and looks ten years down

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R. Nidhya, Manish Kumar, S. Karthik, Rishabh Anand, S. Balamurugan

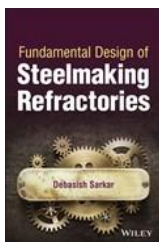
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Technology Innovation for the Circular Economy: Recycling, Remanufacturing, Design, System Analysis and Logistics

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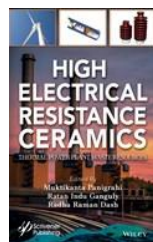
Fundamental Design of Steelmaking Refractories

Debasish Sarkar

Comprehensive up-to-date resource organizing fundamental aspects for the design and performance of steelmaking refractories

Fundamental Design of Steelmaking Refractories provides a fundamental understanding in the design of steelmaking refractories, in detail and all in one source, enabling readers to understand various issues including how heat and mass transfer occurs throughout the refractory, how matrix impurity or their contact affects the phases, and how invisible defects form during refractory manufacturing that eventually facilitates to analyze wear, corrosion, and

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High Electrical Resistance Ceramics: Thermal Power Plant Waste Resources

Muktikanta Panigrahi, Ratan Indu Ganguly, Radha Raman Dash

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83rd Conference on Glass Problems, Ceramic Transactions Volume 271

ACerS

Comprehensive review of the high-quality technical program presented at the 83rd Conference on Glass Problems

This volume of *83rd Conference on Glass Problems* is a collection of papers presented at the 83rd year of the Glass Problems Conference (GPC) in 2022, delivering the newest research, data, and information relevant to the field. The manuscripts included in this volume are reproduced as furnished by the presenting authors but were reviewed prior to the presentation and submission by the respective session chairs.

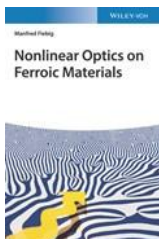
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Hybrid Composite Materials for Electrochemical Sensing Applications

Khursheed Ahmad, Waseem Raza

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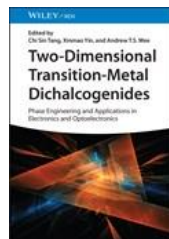
Nonlinear Optics on Ferroic Materials

Manfred Fiebig

Covering the fruitful combination of nonlinear optics and ferroic materials!

Nonlinear Optics on Ferroic Materials features three fields of physics: symmetry; magnetic or electric, long-range (ferroic) order; and nonlinear laser optics. The book begins by introducing the fundamentals of each of field. Next, it discusses how nonlinear optical studies help to reveal properties that are inaccessible with standard characterization techniques. A systematic discussion is also provided of the unique degrees of freedom of the nonlinear-optical probing of ferroics. The final section of the book explores...

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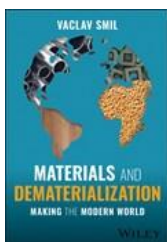
Two-Dimensional Transition-Metal Dichalcogenides: Phase Engineering and Applications in Electronics and Optoelectronics

Chi Sin Tang, Xinmao Yin, Andrew T. S. Wee

Comprehensive resource covering rapid scientific and technological development of polymorphic two-dimensional transition-metal dichalcogenides over a range of disciplines and applications

Two-Dimensional Transition-Metal Dichalcogenides: Phase Engineering and Applications in Electronics and Optoelectronics provides a discussion on the history of phase engineering in 2D-TMDs as well as an in-depth treatment on the structural and electronic properties of 2D-TMDs in their respective polymorphic structures. The

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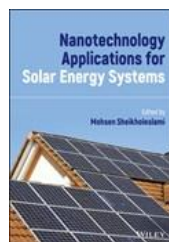
Materials and Dematerialization: Making the Modern World (2nd Edition)

Vadav Smil

World-renowned scientist Vadav Smil examines a critical topic in the research and policy domain of sustainable resource use

Over the course of time, the modern world has become dependent on unprecedented flows of materials. Now even the most efficient production processes and the highest practical rates of recycling may not be enough to result in dematerialization rates that would be high enough to negate the rising demand for materials generated by continuing population growth and rising standards of living.

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Nanotechnology Applications for Solar Energy Systems

Mohsen Sheikholeslami

Nanotechnology Applications for Solar Energy Systems Understand the latest developments in solar nanotechnology with this comprehensive guide

Solar energy has never seemed a more critical component of humanity's future. As global researchers and industries work to develop sustainable technologies and energy sources worldwide, the need to increase efficiency and decrease costs becomes paramount. Nanotechnology has the potential to play a considerable role in meeting these challenges, leading to the development of solar energy

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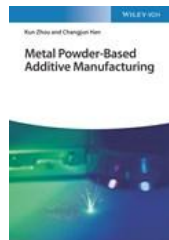


Hybrid Micromachining and Microfabrication Technologies: Principles, Varieties and Applications

Sandip Kumar, Golam Kibria, Prasenjit Chatterjee, Asma Perveen

The book is dedicated to advanced hybrid micromachining and microfabrication technologies, by detailing principals, techniques, processes, conditions, research advances, research challenges, and opportunities for various types of advanced hybrid micromachining and microfabrication. It comprises detailed discussion on mechanisms of material removal supported by experimental validation. Constructional features of hybrid micromachining setup suitable for industrial micromachining applications are

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Metal Powder-Based Additive Manufacturing

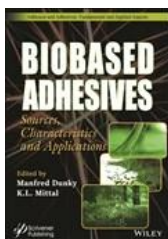
Kun Zhou, Changjun Han

Highly comprehensive resource covering all key aspects of the current developments of metal powder-based additive manufacturing

Metal Powder-Based Additive Manufacturing provides valuable knowledge and critical insights regarding the recent advances in various metal powder-based additive manufacturing techniques. This book also reviews typical powder preparation processes and highlights the significance of metal powder-based additive manufacturing for various industrial applications.

The key features covered in this book:

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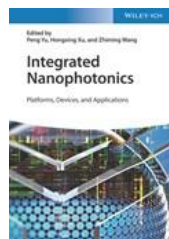
Biobased Adhesives: Sources, Characteristics, and Applications

Manfred Dunky, K. L. Mittal

Biobased Adhesives
Unique and comprehensive book edited by acknowledged leaders on biobased adhesives that will replace petroleum-based adhesives.

This book contains 23 chapters covering the various ramifications of biobased adhesives. The chapters are written by world-class scientists and technologists actively involved in the arena of biobased adhesives. The book is divided into three parts: Part 1: Fundamental Aspects; Part 2: Classes of Biobased Adhesives; and Part 3: Applications of Biobased Adhesives. Topics covered

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Integrated Nanophotonics: Platforms, Devices, and Applications

Peng Yu, Hongxing Xu, Zhiming Wang

Helps readers understand the important advances in nanophotonics materials development and their latest applications

This book introduces the current state of and emerging trends in the development of integrated nanophotonics. Written by three well-qualified authors, it systematically reviews the knowledge of integrated nanophotonics from theory to the most recent technological developments. It also covers the applications of integrated nanophotonics in essential areas such as neuromorphic computing, biosensing, and optical communications. Lastly, it brings

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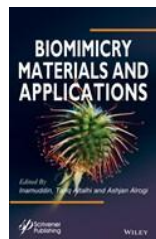
LED Packaging Technologies: Design, Manufacture, and Applications

Luruthudass Annanah, Mohamed Salleh M. Saheed, Rajan Jose

Up-to-date practitioner's guide on LED packaging technologies, with application examples from relevant industries, historical insight, and outlook

LED Packaging Technologies provides expert insight into current and future trends in LED packaging technologies, discussing the fundamentals of LED packaging technologies, from electrical contact design, thermal management and optical emission, and extraction, to manufacturing technologies, including the JEDEC testing standards, followed by accounts on the main applications

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Biomimicry Materials and Applications

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Sangita Das, Sabu Thomas, Partha Pratim Das

A three-volume comprehensive overview of the development and applications of various novel potent molecular sensor frameworks

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Development of Geopolymer from Pond Ash-Thermal Power Plant Waste: Novel Constructional Materials for Civil Engineers

Mukhtikanta Panigrahi, Ratan Indu Ganguly, Radha Raman Dash

DEVELOPMENT OF GEOPOLYMER FROM POND ASH-THERMAL POWERPLANT WASTE
Explains how geopolymer technologies using industrial waste obtained from thermal power plants become cementitious materials in construction sectors for civil engineers.

Utilization of waste materials has become a global challenge since they endanger our environment. In this book, the authors demonstrate how to utilize fly ash/pond

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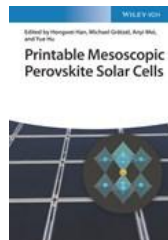
Handbook of Self-Cleaning Surfaces and Materials: From Fundamentals to Applications

Akira Fujishima, Hiroshi Irie, Xintong Zhang, Donald A. Tryk

The first truly comprehensive work on this rapidly developing field in two volumes

Self-cleaning surfaces are those that can be cleaned, for instance, by sun or rainwater, without human intervention. They are sometimes found in nature but developing man-made equivalents has been a major area of nanotechnology research in recent years. Self-cleaning tiles, glasses, paints, and textiles have been developed to date, and the number of applications for this technology is growing.

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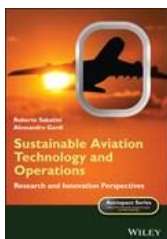
Printable Mesoscopic Perovskite Solar Cells

Hongwei Han, Michael Grätzel, Anyi Mei, Yue Hu

A comprehensive exploration of printable perovskite solar cells and their potential for commercialization

In *Printable Mesoscopic Perovskite Solar Cells*, a team of distinguished researchers delivers an accessible and incisive discussion of the principles, technologies, and fabrication processes associated with the manufacture and use of perovskite solar cells. The authors detail the properties, characterization methods, and technologies for halide perovskite materials and devices and explain printable processing technologies, mesoscopic anode and cathodes, and spacer layers for printable perovs...

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Sustainable Aviation Technology and Operations: Research and Innovation Perspectives

R Sabatini

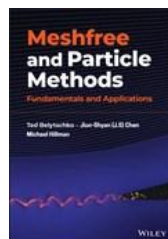
Sustainable Aviation Engineering and Operations

Roberto Sabatini, RMIT University, Australia

Comprehensively covers recent technological and operational developments to enhance the environmental sustainability of aviation

Sustainable Aviation Engineering and Operations provides an updated outlook of the main research and development initiatives currently ongoing in the aeronautics and air transport domain, with emphasis on

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Meshfree and Particle Methods

Ted Belytschko, Jason S. Chen, Michael Hillman

Provides thorough coverage of essential concepts and state-of-the-art developments in the field

Meshfree and Particle Methods is the first book of its kind to combine comprehensive, up-to-date information on the fundamental theories and applications of meshfree methods with systematic guidance on practical coding implementation. Broad in scope and content, this unique volume provides readers with the knowledge necessary to perform research and solve challenging problems in nearly all fields of science and engineering using meshfree computational techniques.

The authors provide detailed descriptions

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Multiscale Biomechanics: Theory and Applications

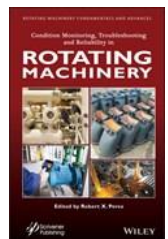
Soheil Mohammadi, Shahrokh Shahi

Multiscale Biomechanics: Theory and Applications comprehensively covers the theoretical and computational bases of multiscale methods in biomechanical applications. It introduces new developments and covers various multiscale methods which are adopted for simulation of biomechanics applications.

Hard and soft tissues, bio-fluids and cellular problems in different length scales are discussed in dedicated chapters. Each chapter begins with a discussion on the physiological issues of the specific category of bio-problem, and is followed by the theoretical and numerical solution

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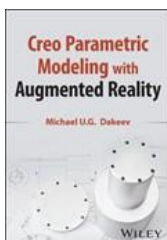


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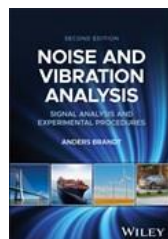
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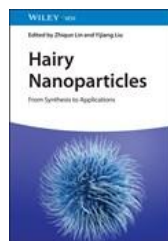


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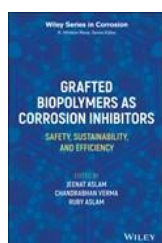
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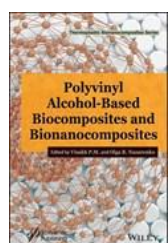
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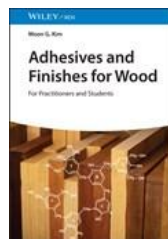
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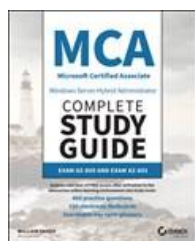
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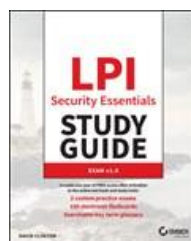
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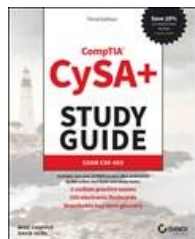
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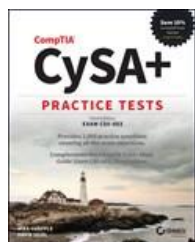
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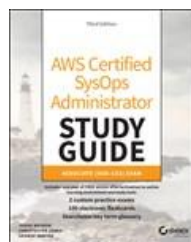
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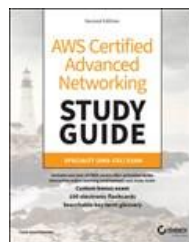
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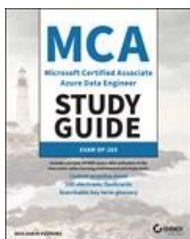
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