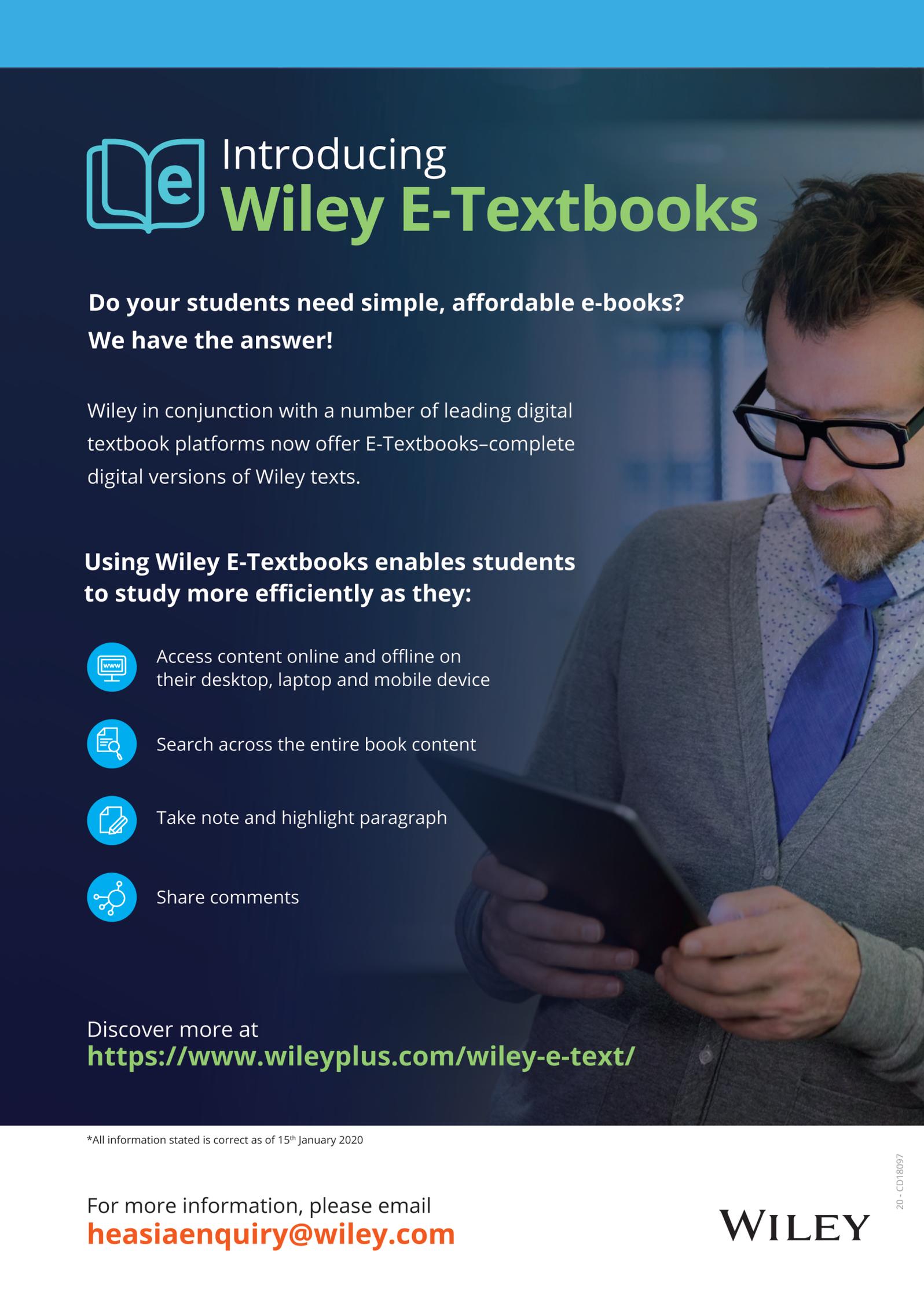


Engineering & Computer Science

May to August 2020

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*All information stated is correct as of 15th January 2020

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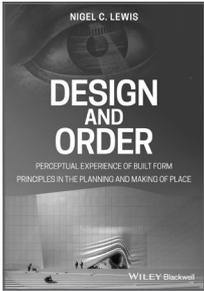
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Design and Order

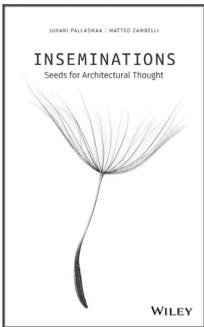
Perceptual Experience of Built form Principles in the Planning and Making of Place

Nigel Lewis

Design and Order provides an integrated understanding of both the principles and the perception of the design of built environments and urban spaces, allowing the designer to apply or discard these principles with a solid understanding of the implications of their decisions. The unique book examines the designing of natural environments and the affect that they have on humans. It teaches readers how people experience and are shaped by a space—via their eyes, brain, and overall perception. The book takes readers through the process of designing, informing them on the principles of form, function, configuration, communication, organization, color and contrasts, building structures, good practice and more.

Reference • 9781119539513 • Jul 2020 • Paper • 288pp • US\$70.00

GENERAL & INTRODUCTORY ARCHITECTURE



Inseminations

Seeds for Architectural Thought

Juhani Pallasmaa & Matteo Zambelli

Juhani Pallasmaa is one of Finland's most distinguished architects and architectural thinkers, publishing around 60 books and several hundred essays and shorter pieces over his career. His influential works have inspired undergraduate and postgraduate students of architecture and related disciplines for decades. *Inseminations: Seeds for Architectural Thought* is a delightful collection of thoughtful ideas and compositions that float between academic essay and philosophical reflection. Wide in scope, it offers entries covering: atmospheres; biophilic beauty; embodied understanding; imperfection; light and shadow; newness and oneness; nostalgia; phenomenology of architecture; sensory thought; silence; time and eternity; uncertainty, and much more. *Inseminations* will appeal to undergraduate students in architecture, design, urban studies, and related disciplines worldwide.

Reference • 9781119622185 • Apr 2020 • Cloth • 328pp • US\$45.00



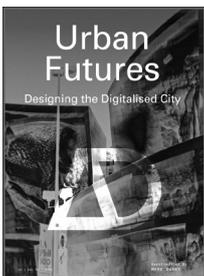
Social Value in Architecture

Flora Samuel & Eli Hatleskog

This groundbreaking edition of *AD* brings together a range of global expertise on social value, exploring its potential for demonstrating the positive impact of both architecture and architects on homes and communities in terms of social justice, sustainability and wellbeing. *AD* will give a critical overview of tools for demonstrating and mapping social value, the different kinds of tools available and case studies where they have been put into use. It brings together contributions from across a diffuse and complex area of knowledge into an accessible format for use by practitioners and academics across the built environment sector.

Editor **Flora Samuel** is Professor of Architecture in the Built Environment at the new University of Reading School of Architecture and the RIBA's first Vice President for Research. Editor **Eli Hatleskog** is a Norwegian architect and she is currently based at the University of Reading working with Flora Samuel on the Newton funded project Mapping Eco-Social Assets (MESA), a collaboration with Santo Tomas University in the Philippines.

Trade • 9781119576440 • Aug 2020 • Paper • 144pp • US\$45.00



Urban Futures

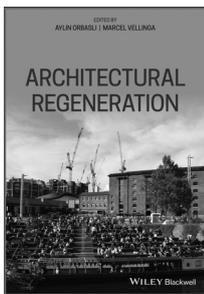
Designing the Digitalised City

Ian Ritchie

Through referencing our knowledge of the past, its historical interpretation, and from today's rapidly changing reality, can we construct credible, plausible scenarios for achievable enhanced urban futures? What are the emerging tools and techniques that help us ensure future prosperity, not only sustainably, but also in a manner that corrects the environmental damage already caused? This issue of *AD* outlines the architects' opportunities to inform a move from 'policy-making' and governance to 'generating policy frameworks'. *Urban Futures* aims to tackle urban society's differing ranges of expectations and realities and suggest multiple futures, each contingent on how effectively emerging technologies are embraced across the disciplines and professions.

Trade • 9781119617563 • Jul 2020 • Paper • 144pp • US\$39.95

HISTORIC PRESERVATION



Architectural Regeneration

Aylin Orbasli & Marcel Vellinga

Architectural Regeneration will address the different perspectives, scales and tools of architectural regeneration by means of detailed overviews of the current state of thinking and practice, with case studies from around the world used as examples to support the theoretical arguments. The chapters will focus on different scales and types of regeneration (urban, rural, suburban, temporary); discuss the economic, planning, policy and social contexts of regeneration processes; and investigate the role of the design process and the architect in them.

Reference • 9781119340331 • Aug 2020 • Cloth • 288pp • US\$95.00

PLANNING



International Journal of Urban and Regional Research, Volume 44 – Issue 1

Mustafa Dikeç, Ananya Roy & Fulong Wu

Since its foundation in 1977 *IJURR* has been at the cutting-edge of critical urban scholarship. Its publication explores questions and themes of interest to a wide readership including urban planners, architects and practitioners. Each issue uses visual materials ranging from architectural sketches, film stills and photographs to various explanatory figures and tables, and they include both stand-alone articles, as well as critical dialogues and debates in the policy-making and professional arenas.

Reference • 9781119700616 • Mar 2020 • Paper • 184pp • US\$17.99

Also available:

International Journal of Urban and Regional Research, Volume 44 – Issue 2

Reference • 9781119700630 • Apr 2020 • Paper • 216pp • US\$17.99

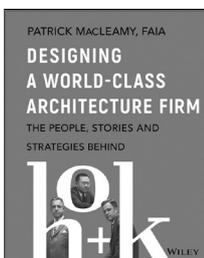
International Journal of Urban and Regional Research, Volume 44 – Issue 3

Reference • 9781119706571 • Jun 2020 • Paper • 208pp • US\$17.99

International Journal of Urban and Regional Research, Volume 44 – Issue 4

Reference • 9781119706564 • Aug 2020 • Paper • 208pp • US\$17.99

PROFESSIONAL PRACTICE



Designing a World Class Architecture Firm

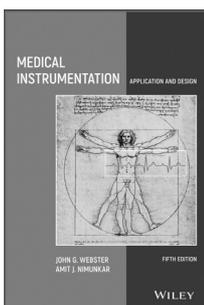
The People, Stories, and Strategies Behind HOK

Patrick MacLeamy

Designing a World Class Architecture Firm: The People, Stories and Strategies Behind HOK tells the history of one of the largest design firms in the world and draws lessons from it that can help other architects, interior designers, urban planners and creative services professionals grow bigger or better. Former HOK CEO Patrick MacLeamy shares the revolutionary strategies HOK's founders deployed to create a brand-new type of architecture firm. He pulls no punches, revealing the triple crisis that almost bankrupted HOK and describes how any firm can survive and thrive.

Trade • 9781119685302 • Apr 2020 • Cloth • 288pp • US\$74.95

BIOINSTRUMENTATION & BIOSENSORS



Medical Instrumentation

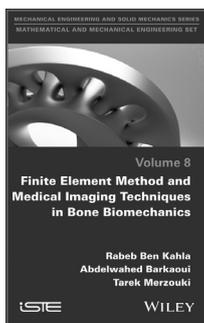
Application and Design, 5th Edition

John Webster & Amit J. Nimunkar

This book provides biomedical engineers with the premiere reference on medical instrumentation as well as a comprehensive overview of the basic concepts. The revised edition features new material on infant apnea monitors, impedance pneumography, the design of cardiac pacemakers, and disposable defibrillator electrodes and their standards. Each chapter includes new problems and updated reference material that cover the latest medical technologies. The chapters have also been revised with new material in medical imaging, providing biomedical engineers with the most current techniques in the field.

Reference • 9781119457336 • May 2020 • Cloth • 848pp • US\$144.95 • Previous ed: 9780471676003

BIOMECHANICS

**Finite Element Method and Medical Imaging Techniques in Bone Biomechanics**

Rabeb Ben Kahla, Abdelwahed Barkaoui & Tarek Merzouki

Digital models based on data from medical images have recently become widespread in the field of biomechanics. This book summarizes medical imaging techniques and processing procedures, both of which are necessary for creating bone models with finite element methods. Chapter 1 introduces the main principles and the application of the most commonly used medical imaging techniques. Chapter 2 describes the major methods and steps of medical image analysis and processing. Chapter 3 presents a brief review of recent studies on reconstructed finite element bone models, based on medical images. Finally, Chapter 4 reveals the digital results obtained for the main bone sites that have been targeted by finite element modeling in recent years.

Reference • 9781786305183 • Oct 2019 • Cloth • 200pp • US\$119.95

MEDICAL INFORMATICS & BIOMEDICAL INFORMATION TECHNOLOGY

**Telemedicine Technologies**

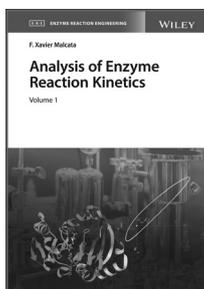
Information Technologies In Medicine and Digital Health, 2nd Edition

Bernard Fong, A. C. M. Fong & C. K. Li

Since the launch of *Telemedicine Technologies* (Wiley, 2010), the technologies surrounding telemedicine have changed immeasurably, particularly with the emerging trends of Internet-of-Things (IoT), digital/e-Health, and wearable, smart and assistive technologies. This *second edition* overhauls and expands on the original text to reflect the technical advances of the last decade. It covers applications from traditional healthcare services to remote patient monitoring and recovery, to alternative medicine and general health assessment for maintaining optimal health. This welcome update brings together a broad range of topics demonstrating how information and wireless technologies can be used in healthcare.

Reference • 9781119575740 • Jul 2020 • Cloth • 320pp • US\$130.00

CHEMICAL ENGINEERING

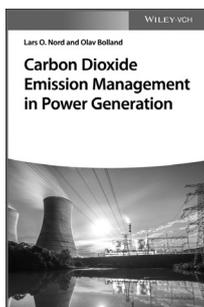
**Analysis Of Enzyme Reaction Kinetics 2-Volume Set**

F. Xavier Malcata

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 appropriate statistical approaches to fit them to experimental data. Volume 2 discusses the effects of physical and chemical parameters upon the rates of both enzyme-catalyzed and enzyme-deactivation reactions.

Enzyme Reactor Engineering is organized into four major sets: *Enzyme Reaction Kinetics and Reactor Performance*; *Analysis of Enzyme Reaction Kinetics*; *Analysis of Enzyme Reactor Performance*; and *Mathematics for Enzyme Reaction Kinetics and Reaction Performance*. A series flyer is available on <https://wileycatalog.com/enzyme-reactor-engineering-collection-ctQVY>

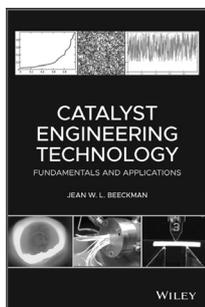
Reference • 9781119490241 • Jul 2020 • Cloth • 1472pp • US\$425.00

**Carbon Dioxide Emission Management in Power Generation**

Lars O. Nord & Olav Bolland

Bringing together multiple disciplines from scientists, geologists and engineers to economists, this book provides an engaging and clearly structured source of information on the capture and storage of CO₂ to the academic and professional reader. *Carbon Dioxide Emission Management in Power Generation* starts with a discussion of the greenhouse effect, climate change, and CO₂ emissions as the rationale for the concept of CCS. It then looks at the long-term storage of CO₂. A chapter covering different fossil fuels, their usage, and properties comes next, followed by sections on: CO₂ generation, usage and properties; power plant technologies; theory of gas separation; power plant efficiency calculations; and classification of CO₂ capture methods.

Reference • 9783527347537 • Apr 2020 • Cloth • 344pp • US\$135.00



Catalyst Engineering Technology

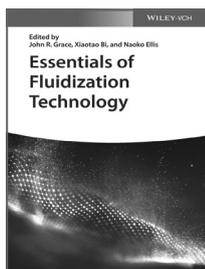
Fundamentals and Applications

Jean Beekman

A catalyst, in simplest terms, is a material which enhances the rate and selectivity of a chemical reaction. Catalysis is central to the chemical industry, as it is directly or involved in the production of almost all useful chemical products. In this book the authors, present the definitive account of industrial catalytic processes.

Catalyst Engineering Technology provides a fundamental knowledge in explaining and quantifying breakage of extruded materials during laboratory scale-up efforts. It provides guidance during technology transfer and to steps to improve methods of materials manufacture in commercial plants. This information can then be used to improve on the architecture of existing plants and how to design grass-roots plants.

Reference • 9781119634942 • Aug 2020 • Cloth • 336pp • US\$139.95

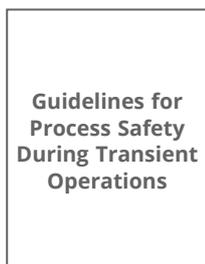


Essentials of Fluidization Technology

John Grace, Xiaotao Bi & Naoko Ellis

The first introductory text and practical book on fluidization in recent years provides key concepts, equations, figures and important references to readers working in industry, government laboratories and academic institutions. Background information and understanding on the application of fluidization in the process and energy industries are presented, highlighting the importance of high-velocity flow regimes and circulating fluidized beds. The authors put emphasis on topics, which have not been covered in other texts before and emerged during the last two decades. Those chapters deal with liquid fluidization, three-phase fluidization, spouted beds and downers. *Essentials of Fluidization Technology* provides insights on how to design, operate and apply fluidized beds, and includes various worked examples, exercises and problems.

Reference • 9783527340644 • Apr 2020 • Cloth • 632pp • US\$116.76



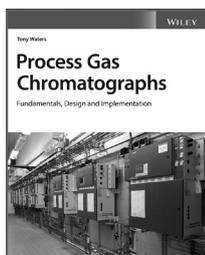
Guidelines for Process Safety During Transient Operations

CCPS

**Guidelines for
Process Safety
During Transient
Operations**

This book addresses how to effectively manage transient operations - a time with relatively high risk - to help a company reduce its operating risks. It addresses how to prepare for the safe start-up and shutdown of chemical processes. It illustrates several situations and provides guidance on how to anticipate and avoid major upsets during startups or shutdowns. The also covers how to safely shutdown during emergencies, and then, if different from the normal start-up, how to safely start-up after unplanned shutdowns.

Reference • 9781119529156 • Jul 2020 • Cloth • 300pp • US\$TBA



Process Gas Chromatographs

Fundamentals, Design and Implementation

Tony Waters

This comprehensive resource provides the theory that underpins a full understanding of the fundamental techniques of gas chromatography and the process analyzer. Without relying on complex mathematics, the book addresses hands-on applications of gas chromatographs within process industries. The author - a noted expert on the topic - details both the scientific information needed to grasp the material presented and the practical applications for professionals working in the field. *Process Gas Chromatographs: Fundamentals, Design and Implementation* comprises 15 chapters, a glossary of terms and a series of self-assessment questions and quizzes. This important resource is written for process analyzer engineers and technicians, application engineers, and industrial environmental engineers.

Reference • 9781119633044 • Jul 2020 • Cloth • 276pp • US\$160.00

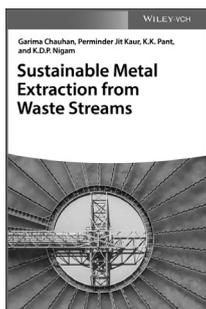


Profit Maximization Techniques for Operating Chemical Plants

Sandip Lahiri

In the ongoing battle to reduce the cost of production and increase profit margin within the chemical process industry, leaders are searching for new ways to deploy profit optimization strategies. *Profit Maximization Techniques For Operating Chemical Plants* defines strategic planning and implementation techniques for managers, senior executives, and technical service consultants to help increase profit margins. The book provides in-depth insight and practical tools to help readers find new and unique opportunities to implement profit optimization strategies. From identifying where the large profit improvement projects are to increasing plant capacity and pushing plant operations towards multiple constraints while maintaining continuous improvements—there is a plethora of information to help keep plant operations on budget.

Reference • 9781119532156 • Jul 2020 • Cloth • 412pp • US\$180.00

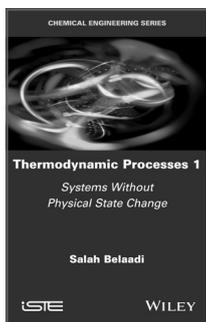


Sustainable Metal Extraction from Waste Streams

K.D.P. Nigam, Garima Chauhan, Perminder Jit Kaur & K.K. Pant

Sustainable Metal Extraction from Waste Streams begins by covering sustainability-related constructs and illustrates the pre-requisites for sustainable management of waste streams. It then introduces the basics of solid waste handling, ranging from an analysis of the relevance, categories of wastes, consequences of untreated waste disposal into the environment, government initiatives, management strategies, and unit operations for pre-treatment of wastes. The book also looks at widely accepted, conventional metal extraction technologies like hydro and pyro metallurgical methods; discusses the possibility of sustainable green processes for metal extraction; and introduces the recently deployed coiled flow inverter process.

Reference • 9783527347551 • Apr 2020 • Cloth • 296pp • US\$190.00



Thermodynamic Processes 1

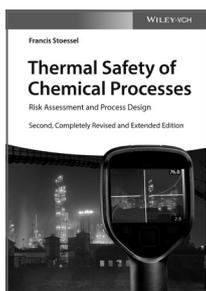
Systems Without Physical State Change

Salah Belaadi

Thermodynamic Processes 1 offers a comprehensive take on process engineering, whereby technology transforms materials and energy production into various products. The scientific methods required for designing such processes are the result of knowledge from a number of different disciplines. As a result, thermodynamics is the basic discipline in process engineering training. The application of laws and concepts of thermodynamics is essential before the design and optimization of any process, which allows downstream to control its reliability and validity. This book offers a pragmatic approach through practical and varied examples, chosen for their didactic and industrial interest.

Reference • 9781786305138 • Mar 2020 • Cloth • 320pp • US\$154.95

PROCESS DEVELOPMENT



Thermal Safety Of Chemical Processes

Risk Assessment and Process Design, 2nd Edition

Francis Stoessel

Completely revised and updated to reflect the current IUPAC standards, this second edition is enlarged by five new chapters dealing with the assessment of energy potential, physical unit operations, emergency pressure relief, the reliability of risk reducing measures, and process safety and process development. *Thermal Safety Of Chemical Processes* is structured in four parts, and each chapter begins with a case history illustrating the topic in question, presenting lessons learned from the incident. Numerous examples taken from industrial practice are analyzed, and each chapter concludes with a series of exercises or case studies, allowing readers to check their understanding of the subject matter. Finally, additional control questions have been added and solutions to the exercises and problems can now be found.

Reference • 9783527339211 • Apr 2020 • Cloth • 574pp • US\$205.00 • Previous ed: 9783527317127

CONSTRUCTION


 Willis's Elements
of Quantity
Surveying
Willis's Elements of Quantity Surveying

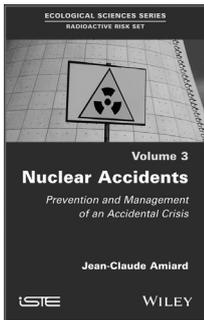
13th Edition

Sandra Lee

Willis's Elements of Quantity Surveying has become a standard text in the teaching of building measurement – a core part of the degree curriculum for quantity surveyors. The book will be fully updated to follow the guidance given by RICS NRM 1 & 2. As in previous editions the focus remains a logical approach the detailed measurement of building elements and copious use of examples to guide the student. The text has been fully revised in line with the NRM guidance and includes many new and revised examples illustrating the use of NRM. The hallmarks of previous editions – clarity and practicality – are maintained, while ensuring the book is fully up to date, providing the student of quantity surveying with a first class introduction to the measurement of building elements.

Reference • 9781119633181 • Aug 2020 • Paper • 384pp • US\$50.00 • Previous ed: 9781118499207

ENVIRONMENTAL ENGINEERING

**Nuclear Accidents**

Prevention and Management of an Accidental Crisis

Jean-Claude Amiard

Detailing the estimation and perception of nuclear risk, this book follows military and civilian nuclear accidents, plus the systems put in place by national and international authorities for recording and analyzing feedback. Prevention and anticipation being the best defenses against a nuclear accident, the authorities have also categorized the different types of accidents, and are doing research to better understand and control them. In light of this, this book shows how the authorities take practical measures to protect neighboring populations and limit radioactive contamination of the environment. *Nuclear Accidents* is based on scientifically-recognized publications, as well as on reports from the various countries concerned, and the national and international organizations competent in this field (IAEA, WHO, UNSCEAR, IRSN, etc.).

Reference • 9781786303356 • Feb 2020 • Cloth • 250pp • US\$144.95

**Offshore Compliant Platforms**

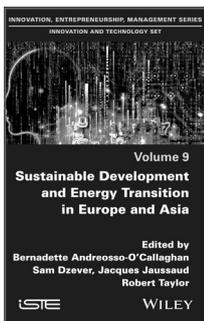
Analysis, Design, and Experimental Studies

Srinivasan Chandrasekaran & R. Nagavinothini

Offshore Compliant Platforms provides an authoritative guide to the analysis and design of compliant offshore structures and puts the focus on a new generation of platforms such as: triceratops, Buoyant Leg Storage and Regasification platforms. Whilst the authors – noted experts on the topic – include basic information on the conceptual development of conventional platforms, the book presents detailed descriptions of the design and development of new deep-water platforms.

In addition, the book covers the structural geometry and the various methods of analysis for assessing the performance of any other similar offshore platform under the special loads. A discussion of the fatigue analysis and service life prediction is also included. This important book is written for engineers and researchers across engineering including civil, mechanical, structural, offshore, ocean and naval architecture.

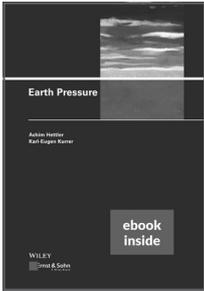
Reference • 9781119669777 • Feb 2020 • Cloth • 256pp • US\$140.00

**Sustainable Development and Energy Transition In Europe and Asia***Bernadette Andreosso-O'Callaghan, Sam Dzever, Jacques Jaussaud & Robert Taylor*

Asian and European countries have adopted different approaches to the conflicting priorities of economic growth and low carbon emissions. In this volume – based on the revised versions of papers presented at the 24th International Euro-Asia Research Conference held in 2019 – the contrasts between the schools of thought of each continent are explored thoroughly. Ranging from topics as diverse as city logistics, shareholder value and management practices, the EU-Japan Economic Partnership Agreement, China's geopolitical insights, sustainable agricultural development in India and the empowerment of women in Vietnam via microfinance, this book addresses sustainable development policies in China and Southeast Asia from many different perspectives.

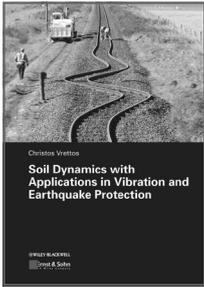
Reference • 9781786305701 • Mar 2020 • Cloth • 250pp • US\$144.95

SOIL (CIVIL ENGINEERING)

**Earth Pressure (Incl. Ebook ASPDF)***Achim Hettler & Karl-Eugen Kurrer*

The subject of earth pressure is one of the oldest and most extensive chapters in soil mechanics and foundation engineering and is one of the pillars of structural engineering. First the development of earth pressure theory is comprehensively described. The descriptions range from the first approaches to the determination of earth pressure through continuum mechanical earth pressure models to the integration of earth pressure research into the disciplinary structure of geotechnics. The main part of the book comprises a selection of current calculation basics. The aim is to provide a collection of working instructions for foundation and structural engineers in construction companies, consultants and in building supervision as well as students. The history of earth pressure theory is supplemented by 40 selected short biographies of scientists and practical engineers, who have taken up the subject and further developed it over the years. The book also has two appendices with terms, formula symbols and indices as well as earth pressure tables.

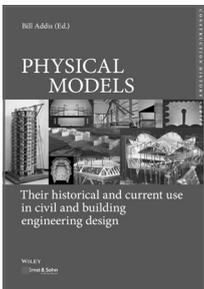
Reference • 9783433033074 • Dec 2019 • Cloth • 441pp • US\$205.00

**Soil Dynamics with Applications In Vibration and Earthquake Protection***Christos Vrettos*

For numerous geotechnical applications soil dynamics are of special importance. In seismic engineering this affects the stability of dams, slopes, foundations, retaining walls and tunnels, while vibrations due to traffic and construction equipment represent a significant aspect in environmental protection. Foundations for mechanical equipment and cyclically loaded offshore structures are also part of the spectrum of application. This book covers the basics of soil dynamics and building thereon the practical applications in vibration protection and seismic engineering.

Reference • 9783433029992 • May 2020 • Paper • 200pp • US\$78.00

STRUCTURAL THEORY & STRUCTURAL MECHANICS

**Physical Models****Their Historical and Current Use in Civil and Building Engineering Design***Bill Addis, Karl-Eugen Kurrer & Werner Lorenz*

The book concludes with reviews of the current use of physical models alongside computer models, for example, in boundary layer wind tunnels, room acoustics, seismic engineering, hydrology, and air flow in buildings.

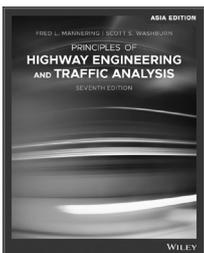
Reference • 9783433032572 • Jul 2020 • Cloth • 1084pp • US\$167.95 • Previous ed: 9783433032299

Also Available:

Physical Models: Their Historical And Current Use in Civil and Building Engineering Design (Incl. E-Pdf)

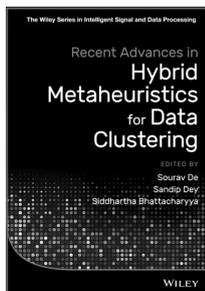
Reference • 9783433033050 • Jul 2020 • Cloth • 1084pp • US\$310.00

TRANSPORTATION ENGINEERING

**Principles of Highway Engineering and Traffic Analysis****7th Edition Asia Edition***Fred Mannering & Scott S. Washburn*

Highly regarded for its clarity and depth of coverage, the bestselling Principles of Highway Engineering and Traffic Analysis provides a comprehensive introduction to the highway-related problems civil engineers encounter every day. Emphasizing practical applications and up-to-date methods, this book prepares students for real-world practice while building the essential knowledge base required of a transportation professional. In-depth coverage of highway engineering and traffic analysis, road vehicle performance, traffic flow and highway capacity, pavement design, travel demand, traffic forecasting, and other essential topics equips students with the understanding they need to analyze and solve the problems facing America's highway system.

Textbook • 9781119587323 • Jan 2020 • Paper • 416pp • US\$80.00



Recent Advances in Hybrid Metaheuristics for Data Clustering

Sourav De, Sandip Dey & Siddhartha Bhattacharyya

Recent Advances in Hybrid Metaheuristics for Data Clustering offers a guide to the fundamentals of various metaheuristics and their application to data clustering. Metaheuristics are designed to tackle complex clustering problems where classical clustering algorithms have failed to be either effective or efficient. The authors provide a text that can aid in the design and development of hybrid meta-heuristics to be applied to data clustering. In addition, the book contains a range of real-life case studies and their applications. This important text is for researchers, students and academics in computer science, mathematics, and engineering.

Reference • 9781119551591 • Jul 2020 • Cloth • 300pp • US\$145.00

ARTIFICIAL INTELLIGENCE



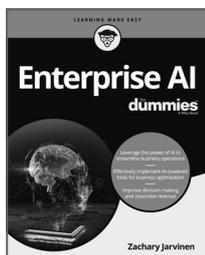
Cultural Algorithms

Tools to Model Complex Dynamic Social Systems

Robert Reynolds

For those working in computational intelligence, developing an understanding of how cultural algorithms and social intelligence form the essential framework for the evolution of human social interaction is essential. This book, *Cultural Algorithms: Tools to Model Complex Dynamic Social Systems*, is the foundation of that study. It showcases how we can use cultural algorithms to organize social structures and develop socio-political systems that work. For such a vast topic, the text covers everything from the history of the development of cultural algorithms and the basic framework with which it was organized. Readers will also learn how other nature-inspired algorithms can be expressed and how to use social metrics to assess the performance of various algorithms.

Reference • 9781119403081 • Jun 2020 • Cloth • 288pp • US\$134.95

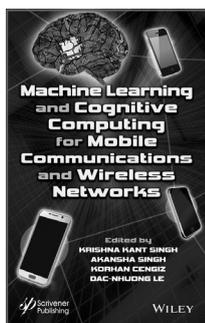


Enterprise AI For Dummies

Zachary Jarvinen

In the new data-driven business era, artificial intelligence (AI) technology will be the solution that leading organizations leverage to streamline business operations, improve decision making, increase automation, and maximize revenue. Yet, to many business users, AI still seems intimidating or too futuristic to be practical. This book demystifies AI, explains its business benefits, and gives readers a concrete understanding of how it can be implemented effectively within their organization. It makes a compelling case for AI-powered tools such as data science platforms, a notebook for data scientists, and ways to operationalize models in a drag and drop interface that subject matter experts and citizen data scientists can benefit from.

Trade • 9781119696292 • Aug 2020 • Paper • 320pp • US\$34.95



Machine Learning and Cognitive Computing for Mobile Communications and Wireless Networks

Krishna Kant Singh, Akansha Singh, Korhan Cengiz & Dac-Nhuong Le

Communication and network technology has witnessed recent rapid development and numerous information services and applications have been developed globally. The advancement in technology has undoubtedly improved the quality of service and user experience yet a lot needs to be still done. Thus, it is highly desirable to develop smart technologies for communication to improve the overall services and management of wireless communication. Machine learning and cognitive computing have converged to give some groundbreaking solutions for smart machines – machines that can acquire the ability to reason similar to the human brain. The research area of machine learning and cognitive computing cover many fields like psychology, biology, signal processing, physics, information theory, mathematics, and statistics that can be used effectively for topology management. Therefore, the utilization of machine learning techniques like data analytics and cognitive power will lead to better performance of communication and wireless systems.

Editor **Dac-Nhuong Le** is Associate Professor in Computer Science, Deputy-Head of Faculty of Information Technology, Haiphong University, Vietnam.

Reference • 9781119640363 • Feb 2020 • Cloth • 400pp • US\$194.95



Modern Big Data Architectures

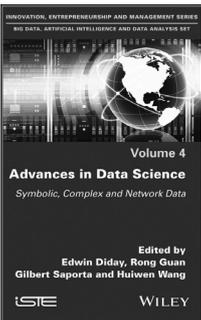
A Multi-Agent Systems Perspective

Dominik Ryzko

A multi-agent system (MAS) is a self-organized computer system that comprises multiple intelligent agents interacting to solve problems that are beyond the capacities of individual agents. *Modern Big Data Architectures* examines modern concepts and architecture for Big Data processing and analytics. This unique, up-to-date volume provides joint analysis of big data and multi-agent systems, with emphasis on distributed, intelligent processing of very large data sets. Each chapter contains practical examples and detailed solutions suitable for a wide variety of applications. The author, an internationally-recognized expert in Big Data and distributed Artificial Intelligence, demonstrates how base concepts such as agent, actor, and micro-service have reached a point of convergence—enabling next generation systems to be built by incorporating the best aspects of the field.

Trade • 9781119597841 • Mar 2020 • Cloth • 208pp • US\$64.95

BUSINESS DATA PROCESSING



Advances in Data Science

Symbolic, Complex and Network Data

Edwin Diday, Rong Guan, Gilbert Saporta & Huiwen Wang

Data science unifies statistics, data analysis and machine learning to achieve a better understanding of the masses of data which are produced today, and to improve prediction. Special kinds of data (symbolic, network, complex, compositional) are increasingly frequent in data science. These data require specific methodologies, but there is a lack of reference work in this field. *Advances in Data Science* fills this gap. It presents a collection of up-to-date contributions by eminent scholars following two international workshops held in Beijing and Paris. The 10 chapters are organized into four parts: Symbolic Data, Complex Data, Network Data and Clustering. They include fundamental contributions, as well as applications to several domains, including business and the social sciences.

Reference • 9781786305763 • Jan 2020 • Cloth • 258pp • US\$144.95

COMPUTER SECURITY & CRYPTOGRAPHY



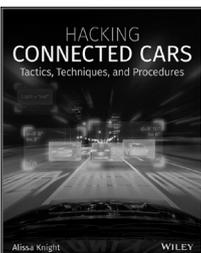
Cyber Breach Response that Actually Works

Organizational Approach to Managing Residual Risk

Andrew Gorecki

A cyber breach could cost your organization millions of dollars—in 2019, the average cost of a cyber breach for companies was \$3.9M, a figure that is increasing 20-30% annually. But effective planning can lessen the impact and duration of an inevitable cyberattack. *Cyber Breach Response That Actually Works* provides a business-focused methodology that will allow you to address the aftermath of a cyber breach and reduce its impact to your enterprise. This book goes beyond step-by-step instructions for technical staff, focusing on big-picture planning and strategy that makes the most business impact. Inside, you'll learn what drives cyber incident response and how to build an effective incident response capability. Expert author Andrew Gorecki delivers a vendor-agnostic approach based on his experience with Fortune 500 organizations.

Trade • 9781119679325 • Jul 2020 • Paper • 200pp • US\$44.95



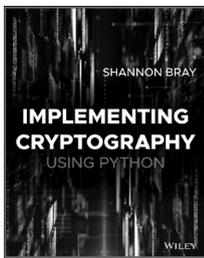
Hacking Connected Cars

Tactics, Techniques, and Procedures

Alissa Knight

Hacking Connected Cars deconstructs the tactics, techniques, and procedures (TTPs) used to hack into connected cars and autonomous vehicles to help you identify and mitigate vulnerabilities affecting cyber-physical vehicles. Written by a veteran of risk management and penetration testing of IoT devices and connected cars, this book provides a detailed account of how to perform penetration testing, threat modeling, and risk assessments of telematics control units and infotainment systems. This book demonstrates how vulnerabilities in wireless networking, Bluetooth, and GSM can be exploited to affect confidentiality, integrity, and availability of connected cars.

Trade • 9781119491804 • Feb 2020 • Paper • 272pp • US\$49.95



Implementing Cryptography Using Python

Shannon Bray

Cryptography is, quite simply, what makes security and privacy in the digital world possible. Tech professionals, including programmers, IT admins, and security analysts, need to understand how cryptography works to protect users, data, and assets. *Implementing Cryptography Using Python* will teach you the essentials, so you can apply proven cryptographic tools to secure your applications and systems. Because this book uses Python, an easily accessible language that has become one of the standards for cryptography implementation, you'll be able to quickly learn how to secure applications and data of all kinds.

Trade • 9781119612209 • Jul 2020 • Paper • 300pp • US\$49.95

DATABASE & DATA WAREHOUSING TECHNOLOGIES



Smarter Data Science

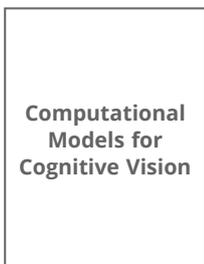
Succeeding with Enterprise-Grade Data and AI Projects

Neal Fishman, Cole Stryker & Grady Booch

Data science is emerging as a hands-on tool for not just data scientists, but business professionals as well. Managers, directors, IT leaders, and analysts must expand their use of data science capabilities for the organization to stay competitive. *Smarter Data Science* helps them achieve their enterprise-grade data projects and AI goals. It serves as a guide to building a robust and comprehensive information architecture program that enables sustainable and scalable AI deployments. By following a ladder framework that promotes prescriptive capabilities, organizations can make data science accessible to a range of team members, democratizing data science throughout the organization.

Trade • 9781119693413 • Apr 2020 • Paper • 304pp • US\$49.95

GENERAL & INTRODUCTORY COMPUTER SCIENCE



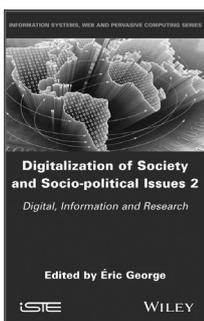
Computational Models for Cognitive Vision

Hiranmay Ghosh

This book focuses on computing aspects and shows how the cognitive principles borrowed from other disciplines can be used to solve problems of computer vision. The book begins with an introduction to the problems of computer vision and why cognitive principles should be used to solve these problems. Then it moves on to a discussion of deductive, inductive, and abductive reasoning and the psychological observations and deductions of various theories and models of cognitive vision. Other topics covered include knowledge representation techniques, evolution of cognitive architectures, machine learning approaches, and more. The book ends with salient observations and future research directions.

Reference • 9781119527862 • May 2020 • Paper • 256pp • US\$59.95

INFORMATION TECHNOLOGIES



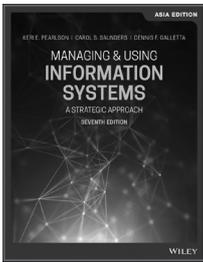
Digitalization of Society and Socio-Political Issues 2

Digital, Information and Research

Eric George

In the first volume of *Digitalization of Society and Socio-political Issues*, there is an examination of the transformations linked to the development of digital platforms and social media which affect cultural and communicational industries. Following on, the second volume in the *Information Systems, Web and Pervasive Computing Series* examines the transformations that are linked to digital practices that affect the production, circulation and consumption of information, as well as new forms that are taken by social mobilizations. It treats several important issues in the digital era that are more likely to become the subject of public debates, among which one can include the renewed relationship between research and digital. Through diverse critical reflections, it equally presents different ways that digital participates in relations of power and domination, and contributes to eventual emancipatory practices.

Reference • 9781786304988 • Jan 2020 • Cloth • 244pp • US\$134.95



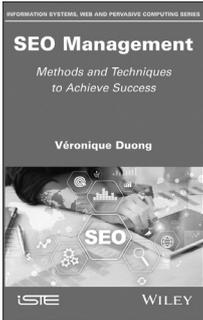
Managing & Using Information Systems

A Strategic Approach, 7th Edition Asia Edition

Keri Pearlson, Carol S. Saunders & Dennis F. Galletta

This revised and updated seventh edition discusses the business and design processes relevant to IS, and presents a basic framework to connect business strategy, IS strategy, and organizational strategy. Readers are guided through each essential aspect of Information Systems, including information architecture and infrastructure, IT security, the business of Information Technology, IS sourcing, project management, business analytics, and relevant IS governance and ethical issues. Detailed chapters contain mini cases, full-length case studies, discussion topics, review questions, supplemental reading links, and a set of managerial concerns related to the topic.

Textbook • 9781119668268 • Nov 2019 • Paper • 360pp • US\$80.00



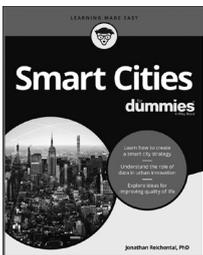
SEO Management

Methods and Techniques to Achieve Success

Véronique Duong

Search Engine Optimization (SEO) is arguably the most significant tool that marketers have to push online content. As the hub of the computational engineering fields, SEO encompasses technical, editorial and link-building strategies, and is an integral part of our daily lives. As important as it is ubiquitous, SEO is needed for the development of a brand's website and online reputation. When a website is live, one of its priorities is to drive organic traffic towards it. To attract visibility, many proactive measures must be put in place, advice followed and tips implemented. There should also be an understanding of the holistic connection between a website's HTML sources, content management system and its relationship with external websites too (SEO off-site). There are many different search engines in the world and depending on the international boundary, one web browser usually dominates the landscape. Google features prominently in SEO Management, but this book also goes into detail regarding Baidu SEO (China), Yandex SEO (Russia) and Naver SEO (South Korea).

Reference • 9781786304599 • Oct 2019 • Cloth • 200pp • US\$119.95



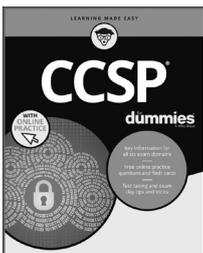
Smart Cities for Dummies

Jonathan Reichenal

At its core, a Smart City is a collection of technological responses to the growing demands, challenges, and complexities of improving the quality of life for billions of people now living in urban centers across the world. The movement to create smarter cities is still in its infancy, but ambitious and creative projects in all types of cities—big and small—around the globe are beginning to make a big difference. New ideas, powered by technology, are positively changing how we move humans and products from one place to another; create and distribute energy; manage waste; combat the climate crisis; build more energy efficient buildings; and improve basic city services through digitalization and the smart use of data. *Smart Cities* will give you the knowledge to understand this important topic in depth and be ready to be an agent of change in your community.

Trade • 9781119679943 • Jul 2020 • Paper • 320pp • US\$29.95

NETWORKING



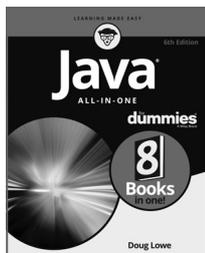
CCSP For Dummies with Online Practice

Arthur Deane

CCSP is the world's leading Cloud Security certification. It covers the advanced technical skills and knowledge to design, manage, and secure data, applications, and infrastructure in the cloud using best practices, policies, and procedures. If you're a cloud security professional seeking your CCSP certification, this book is a perfect way to prepare for the exam. Covering in detail all six domains, the expert advice in this book gives you key information you'll need to pass the exam. In addition to the information covered on the exam, you'll get tips on setting up a study plan, tips for exam day, and access to an online test bank of questions.

Trade • 9781119648376 • Jul 2020 • Paper • 400pp • US\$44.95

OBJECT TECHNOLOGIES

**Java All-In-One for Dummies**

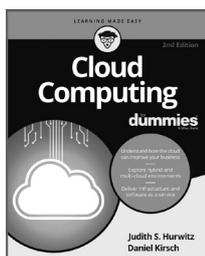
6th Edition

Doug Lowe

Knowing Java is a must-have programming skill for any programmer. It's used in a wide array of programming projects—from enterprise apps and mobile apps to big data, scientific, and financial uses. The language regularly ranks #1 in surveys of the most popular language based on number of developers, lines of code written, and real-world usage. This guide provides an easy-to-follow path from understanding the basics of writing Java code to applying those skills to real projects. Split into eight minibooks covering core aspects of Java, the book introduces the basics of the Java language and object-oriented programming before setting you on the path to building web apps and databases.

Trade • 9781119680451 • Aug 2020 • Paper • 912pp • US\$39.95 • Previous ed: 9781119247791

PARALLEL AND DISTRIBUTED COMPUTING

**Cloud Computing for Dummies**

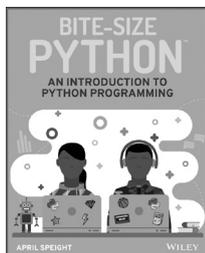
2nd Edition

Judith Hurwitz

Cloud computing is a topic that technology pros need to know to stay ahead of the computing game. *Cloud Computing For Dummies* comes to the rescue of those still trying to sort out the many options in the world of cloud. Judith Hurwitz and her team of analysts share the cloud insights they earned by consulting with some of the world's largest companies. Peek inside to sort out topics like multi-cloud architecture, hybrid-cloud infrastructure, development in the cloud, and software as a service.

Trade • 9781119546658 • Apr 2020 • Paper • 384pp • US\$34.95 • Previous ed: 9780470484708

PROGRAMMING & SOFTWARE DEVELOPMENT

**Bite-Size Python**

An Introduction to Python Programming

April Speight

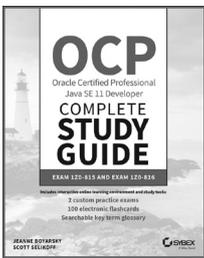
Python has now surpassed Java as the most commonly used programming language. As the language rises in popularity, this complete guide can teach basic Python concepts to kids with its simple, friendly format. *Bite-Size Python: An Introduction to Python Programming* provides children with a foundation in the Python language. This unique book shares knowledge through easy-to-understand examples, fast exercises, and fun projects! As children learn, their parents, caregivers, and instructors can also join in their discoveries. *Bite-Size Python* is ideal for those who are new to programming, giving kids ages 9 and up a beginners' approach to learning learning Python, trying out activities on their computers for a hands-on learning experience.

Trade • 9781119643814 • Aug 2020 • Paper • 250pp • US\$24.95

**Introduction to
Programming
With C++ For
Engineers**
Introduction to Programming With C++ For Engineers*Boguslaw Cyganek*

Increasingly, students of subjects other than Computer Science need to learn computer science basics. In this respect, students of Electronics, Telecommunication, Automatics, Robotics, etc. need to be well prepared to program low-level microprocessor platforms, to know programming concepts of simple and advanced operating systems (e.g. uC/OS, FreeRTOS and Linux), be well prepared for parallel computations, as well as for programming of embedded systems, device drivers, programmable logic devices (FPGA) and graphic cards, to name a few. All of these heavily rely on C/C++. Since the majority of the operating systems and system components are still expressed in pure C, EE students need to be able to understand C, at the same time being able to write new code in the modern object-oriented fashion provided by C++, however. Nevertheless, separately learning both languages as well as basics of data structures and algorithms would require too much time whereas the usual time allowance for these is one or two semesters only.

Reference • 9781119431107 • Jul 2020 • Paper • 350pp • US\$115.00



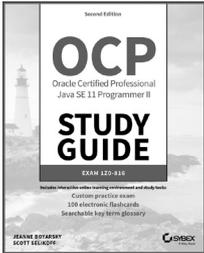
OCP Oracle Certified Professional Java SE 11 Developer Complete Study Guide

Exam 1Z0-815 and Exam 1Z0-816

Jeanne Boyarsky & Scott Selikoff

The most comprehensive prep guide available for new Oracle Certified Professional Java SE11 Developer certifications—covers Programmer I and II Exams 1Z0-815 and 1Z0-816, and the Upgrade Exam 1Z0-817! The *OCP Oracle Certified Professional Java SE 11 Developer Complete Study Guide* is an indispensable resource for anyone preparing for certification. This fully up-to-date guide covers 100% of exam objectives for Exam 1Z0-815, Exam 1Z0-816, and Upgrade Exam 1Z0-817. In-depth chapters present clear, comprehensive coverage of the functional-programming knowledge necessary to succeed. Each chapter clarifies complex material while reinforcing your understanding of vital exam topics. Also included is access to Sybex's superior online interactive learning environment and test bank that includes self-assessment tests, chapter tests, bonus practice exam questions, electronic flashcards, and a searchable glossary of important terms.

Trade • 9781119619130 • Jun 2020 • Paper • 1032pp • US\$79.95



OCP Oracle Certified Professional Java SE 11 Programmer II Study Guide

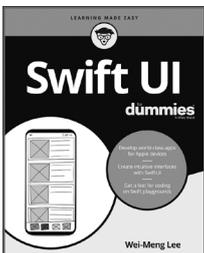
Exam 1Z0-816

Jeanne Boyarsky & Scott Selikoff

The completely-updated preparation guide for the new Oracle Certified Professional Java SE 11 Programmer II exam—covers Exam 1Z0-816.

Now in its second edition, the *OCA Oracle Certified Professional Java SE 11 Programmer II Study Guide* ensures that you are fully prepared for this difficult certification exam. Covering 100% of exam objectives, this in-depth study guide provides comprehensive coverage of the functional-programming knowledge necessary to succeed. Every exam topic is thoroughly and completely covered including exceptions and assertions, class design, generics and collections, threads, concurrency, IO and NIO, and more. Access to Sybex's superior online interactive learning environment and test bank—including self-assessment tests, chapter tests, bonus practice exam questions, electronic flashcards, and a searchable glossary of important terms—provides everything you need to be fully prepared on exam day.

Trade • 9781119617624 • Jun 2020 • Paper • 720pp • US\$49.95



Swift UI For Dummies

Wei-Meng Lee

You have that sweet, sweet app idea but think you don't yet have the coding skills to build it? Don't fret about someone beating you to it: get going with your idea today using SwiftUI. SwiftUI makes it fast and simple for fledgling coders to take flight and develop world class iOS apps that soar above the rest—without having to learn all the tricks of coding right away. *Swift UI for Dummies* has all you need to know, showing you how to quickly get a feel for coding rules, syntax, and tools, and to develop your basic knowledge in Swift 5.0 playgrounds. It also covers the frameworks and APIs that allow you to create smooth, intuitive interfaces with no trouble at all—just dive in and you'll be posting your first application in record time.

Trade • 9781119652687 • Jun 2020 • Paper • 432pp • US\$34.95

SOFTWARE ENGINEERING



Average Joe

Dispelling the Myth of the Tech Genius in Silicon Valley

Shawn Livermore

The book covers numerous tech entrepreneurial founders and software developers, and the exciting brands or products that they created. It goes deep on a handful of them, narrowly divulging exactly how a few software developers and startup founders created breakthrough tech products like **Gmail**, **Slack**, **Dropbox**, **Ring**, **Snapchat**, **Bitcoin**, **Groupon**, and more. It highlights and unpacks the general hero-worship that the media and our own minds practice about tech founders and tech entrepreneurs. This idealization of tech success can create a paradox, preventing average tech professionals from their own successful journeys. This book provides hard evidence that anyone in tech can *create*, and anyone on the peripheral of tech can break through to the center where innovation, creativity, and opportunity meet.

Trade • 9781119618874 • Jul 2020 • Paper • 400pp • US\$34.95

TECHNICAL COMMUNICATION

People-Centric Skills

People-Centric Skills

Interpersonal and Communication Skills for Financial Professionals, 2nd Edition

Danny Goldberg

Business leaders consider employee communication skills and critical thinking abilities as essential elements for success. In their work, all professionals must communicate clearly and rely on their interpersonal skills to be successful. This second edition of *People-Centric Skills* shares the fictional story of Dalton Zimmer, executive coach and public speaker. Dalton, all the while juggling his business, kids and social life, provides coaching and communication strategies for handling challenging situations faced by his clients. This insightful narrative will help you expand communication and soft skills as a CPA, auditor, financial planner or other financial professional.

Trade • 9781119669302 • Jul 2020 • Paper • 208pp • US\$24.95 • Previous ed: 9781118925362

WEB SITE DEVELOPMENT

**JavaScript**

The New Toys

T. Crowder

JavaScript is a rapidly changing language and it can be challenging to keep up with all the new toys being added. *JavaScript: The New Toys* explores the newest features of the world's most popular programming language while also showing readers how to track what's coming next. After setting the stage by covering who manages the process of improving JavaScript, how new features get introduced, terminology, and a high-level overview of new features, it details each new or updated item in depth, with example uses, possible pitfalls, and expert recommendations for updating old habits in light of new features. With its comprehensive coverage and friendly, accessible style, *JavaScript: The New Toys* provides an invaluable resource for programmers everywhere, whether they work in web development, Node.js, Electron, Windows Universal Apps, or another JavaScript environment.

Trade • 9781119367956 • May 2020 • Paper • 260pp • US\$29.95

**PHP & MySQL**

Server-Side Web Development

Jon Duckett

Learn PHP, the programming language used to build sites like Facebook, Wikipedia and WordPress, then discover how these sites store information in a database (MySQL) and use the database to create the web pages. This full-color book is packed with inspiring code examples, infographics and photography that not only teach you the PHP language and how to work with databases, but also show you how to build new applications from scratch. Written by best-selling HTML & CSS and JavaScript & jQuery author Jon Duckett, this book uses a unique visual approach, with step-by-step instructions, practical code examples and pro tips that will teach you how to build modern database-driven websites using PHP.

Trade • 9781119149217 • Aug 2020 • Cloth • 672pp • US\$51.95

Trade • 9781119149224 • Aug 2020 • Paper • 672pp • US\$44.95

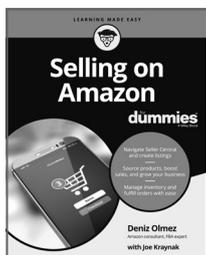
**Professional WordPress Plugin Development**

2nd Edition

Brad Williams, Justin Tadlock & John James Jacoby

This significantly updated edition of *Professional WordPress Plugin Development* addresses modern plugin development for WordPress, the highly popular content management system (CMS). If you're using WordPress to create and manage websites, WordPress plugins are the software that can extend or enhance CMS functionality. The second edition of *Professional WordPress Plugin Development* covers the building of advanced plugin development scenarios. It discusses the plugin framework and coding standards as well as dashboards, settings, menus, and related application programming interfaces (APIs). Additional topics include security, performance, data validation, and SQL statements.

Trade • 9781119666943 • Apr 2020 • Paper • 552pp • US\$49.95 • Previous ed: 9780470916223



Selling on Amazon for Dummies

Deniz Olmez & Joseph Kraynak

Selling on Amazon has become one of the most popular ways to earn income online. In fact, there are over 2 million people selling on Amazon worldwide. Amazon's program allows businesses of all sizes get their products in front of millions of customers and take advantage of the largest fulfillment network in the world. It also allows businesses to leverage their first-class customer service and storage capabilities. *Selling on Amazon for Dummies* will provide strategy, tools, and education for entrepreneurs, including turnkey solutions focused on sales, marketing, branding, and marketplace development to analyze and maximize opportunities.

Trade • 9781119689331 • Jul 2020 • Paper • 360pp • US\$22.95

COMPUTER HARDWARE (GENERAL)

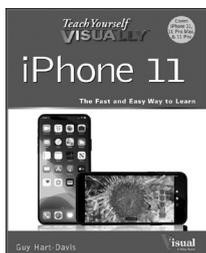


Samsung Galaxy SX for Dummies

Bill Hughes

This book documents all the features and capabilities of Samsung Galaxy SX device, approaching them from the point of view of a user who is intimidated by the technology and baffled by the documentation and online support that comes with the phones. All aspects of the suite of devices are covered, from setup and configuration, to extensive use of the phone features and capabilities: texting, e-mailing, accessing the Internet, maps, navigation, camera and video, social networking, taking pictures, watching movies, downloading apps, synching with a PC, and expanding the phone's potential with new software releases. The accessible and fun writing style provides clear direction and doesn't hinder the book's important content and coverage. Readers will keep this book close by, referring to it often as they explore the features of their new Samsung Galaxy SX smartphone.

Trade • 9781119680499 • Jun 2020 • Paper • 336pp • US\$24.95

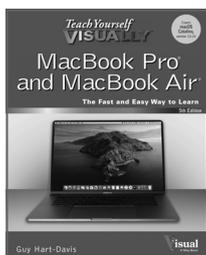


Teach Yourself VISUALLY iPhone 11, 11 Pro, and 11 Pro Max

Guy Hart-Davis

Teach Yourself VISUALLY iPhone is your ultimate guide to getting the most out of your iPhone! Apple's graphics-driven iOS is perfect for visual learners, so this book uses a visual approach to show you everything you need to know to get up and running—and much more. Full-color screen shots walk you step-by-step through setup, customization, and everything your iPhone can do. Whether you are new to the iPhone or have just upgraded to the 11, 11 Pro, or 11 Pro Max, this book helps you discover your phone's full functionality and newest capabilities. Stay in touch by phone, text, email, FaceTime Audio or FaceTime Video calls, or social media; download and enjoy books, music, movies, and more; take, edit, and manage photos; track your health, fitness, and habits; organize your schedule, your contacts, and your commitments; and much more!

Trade • 9781119683889 • Feb 2020 • Paper • 320pp • US\$24.95 • Previous ed: 9781119439615



Teach Yourself VISUALLY MacBook Pro and MacBook Air

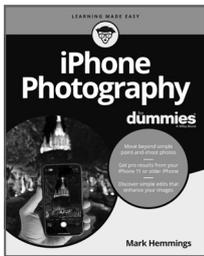
5th Edition

Guy Hart-Davis

Teach Yourself VISUALLY MacBook is your ultimate guide to getting up and running quickly with your new MacBook Pro or MacBook Air! Whether you're new to computers or transitioning from a PC, this graphics-heavy guide will show you everything you need to know to get the most out of your new laptop. Clear, step-by-step instructions walk you through each task, with screenshots that help you follow along with confidence. You'll learn how to manage files, work with macOS software, organize photos and media, set up email, access the internet, and adjust settings and preferences to make your MacBook work the way *you* work. You'll also explore the features that bring computing to a whole new level, including iCloud, FaceTime, the App Store, and so much more!

Trade • 9781119683896 • Mar 2020 • Paper • 384pp • US\$29.95 • Previous ed: 9781119463900

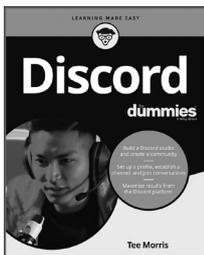
DIGITAL CAMERAS & PHOTOGRAPHY

**iPhone Photography for Dummies***Mark Hemmings*

The majority of the 1 trillion+ photos shot in a year are taken with the camera on a smartphone. That's not a bad thing as images shot on a mobile device rival the quality of images taken with a professional camera. A little know-how can help you create images worth bragging about. iPhone photography expert Mark Hemmings shares his experience and insight in creating amazing images. Whether you're shooting with a multi-lens iPhone 11 or a single lens older model, this book shares the photography and editing techniques to get the best results.

Trade • 9781119687795 • Apr 2020 • Paper • 288pp • US\$26.95

INTERNET GENERAL

**Discord for Dummies***Tee Morris*

Personal broadcasting options are at an all-time high. Discord is now one of the major players in the fray. The platform provides users of all types a place to communicate with large audiences via text, audio, or video. Originally a favorite among gamers, Discord now pulls in users to communicate about all types of topics. *Discord For Dummies* offers the first dive into how to use and maximize results from the platform. Written by an expert in personal broadcasting of all types, the book is ideal for anyone looking to connect with a larger audience.

Trade • 9781119688037 • Apr 2020 • Paper • 312pp • US\$24.95

**YouTube Channels for Dummies**

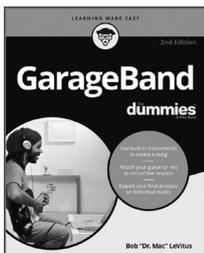
2nd Edition

Rob Ciampa, Theresa Go, Matt Ciampa & Rich Murphy

The top YouTube creators have found both fame and fortune by creating and sharing videos on the world's most viewed video sharing platform. This book provides the insight how anyone from a wannabe YouTube celebrity to a business looking for ways to reach their audience can build a successful channel on YouTube. Packed with expert advice from professionals on the creation, marketing, and promotion sides of the business, this guide introduces the basics of launching a channel, creating quality content, developing an audience, and building a business around a channel.

Trade • 9781119688051 • Jun 2020 • Paper • 432pp • US\$24.95 • Previous ed: 9781118958179

OFFICE PRODUCTIVITY – NON-MICROSOFT (GENERAL & SUITES)

**GarageBand for Dummies**

2nd Edition

Bob LeVitus

GarageBand has become the default musical sketchpad for both well-known artists and hobbyists musicians who want a simple way to record, edit, and share their own tunes. *GarageBand For Dummies* is your go-to guide to navigating the interface and making the tweaks to create your own songs. Look inside to discover how to lay down a beat with the virtual drum kits, layer on sweet sounds with built-in virtual instruments, and attach simple hardware to record vocals or live instruments on a Mac, iPad, or even an iPhone.

Trade • 9781119645412 • Jun 2020 • Paper • 400pp • US\$29.95 • Previous ed: 9780764573231

Teach Yourself VISUALLY Windows 10

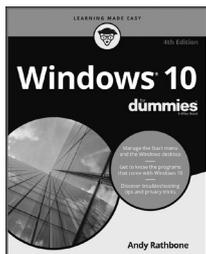
Teach Yourself VISUALLY Windows 10

3rd Edition

Paul McFedries

If you learn more quickly when you can see how things are done, this Visual guide is the easiest way to get up and running on Windows. It covers more than 150 essential Windows tasks, using full-color screen shots and step-by-step instructions to show you just what to do. Learn your way around the interface and how to install programs, set up user accounts, play music and other media files, download photos from your digital camera, go online, set up and secure an e-mail account, and much more.

Trade • 9781119698593 • May 2020 • Paper • 360pp • US\$29.95 • Previous ed: 9781119311188



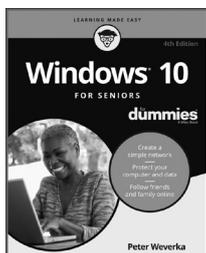
Windows 10 for Dummies

4th Edition

Andy Rathbone

Windows 10 For Dummies remains the #1 source for readers looking for advice on Windows 10. Expert author Andy Rathbone provides an easy-to-follow guidebook to understanding Windows 10 and getting things done based on his decades of experience as a Windows guru. Look inside to get a feel for the basics of the Windows interface, the Windows apps that help you get things done, ways to connect to the Internet at home or on the go, and steps for customizing your Windows 10 experience from the desktop wallpaper to how tightly you secure your computer.

Trade • 9781119679332 • May 2020 • Paper • 432pp • US\$24.95 • Previous ed: 9781119470861



Windows 10 for Seniors for Dummies

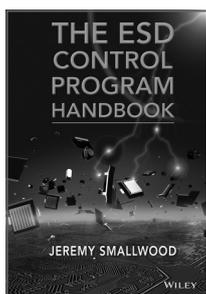
4th Edition

Peter Weverka

With *Windows 10 For Seniors For Dummies*, becoming familiarized with Windows 10 is a painless process. If you're interested in learning the basics of this operating system without having to dig through confusing computer jargon, look no further. This book offers a step-by-step approach that is specifically designed to assist first time Windows 10 users who are over-50, providing easy-to-understand language, large-print text, and an abundance of helpful images along the way!

Step-by-step instructions are provided to ensure that you don't get lost at any point along the way.

Trade • 9781119680543 • May 2020 • Paper • 384pp • US\$24.95 • Previous ed: 9781119469858



The ESD Control Program Handbook

Jeremy Smallwood

An essential guide providing engineers involved with electronics production with the understanding and practical skills needed to develop and maintain an effective ESD control program for manufacturing, storage, and handling of ESD sensitive components. Because within the industry, people often move into a position of responsibility for ESD control from different backgrounds with a minimal knowledge of the subject, *The ESD Control Program Handbook* explains the principles and practice of ESD control in an easily accessible way whilst also providing more depth and a wealth of references for those who want to gain a deeper knowledge of the subject. It covers the scientific basis of ESD, an overview of ESD susceptible components, principles of ESD control, development of an ESD control program, ESD training and how to do the most commonly used ESD related measurements.

Reference • 9781118311035 • Aug 2020 • Cloth • 416pp • US\$140.00



5G New Radio

A Beam-Based Air Interface

Mihai Enescu

5G New Radio: A Beam-based Air Interface is an authoritative guide to the newly 3GPP-specified 5G physical layer. The contributors—noted experts on the topic and creators of the actual standard—focus on the beam-based operation which is a new dimension in the radio system due to the millimeter wave deployments of 5G. The book contains information that complements the 3GPP specification and helps to connect the dots regarding key features. The book assumes a basic knowledge of multi-antenna technologies and covers the physical layer aspects related to beam operation, such as initial access, details of reference signal design, beam management, and DL and UL data channel transmission. The contributors also provide a brief overview of standardization efforts, IMT-2020 submission, 5G spectrum, and performance analysis of 5G components.

Reference • 9781119582380 • Apr 2020 • Cloth • 480pp • US\$130.00



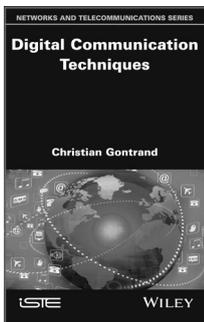
Algorithms for Communications Systems and Their Applications

2nd Edition

Nevio Benvenuto

This welcome second edition to the 2002 original presents the logical arithmetical or computational procedures within communications systems that will ensure the solution to various problems. The authors comprehensively introduce the theoretical elements which are at the basis of the field of algorithms for communications systems. Various applications of these algorithms are then illustrated with a focus on wired and wireless network access technologies. The updated applications will focus on 5G standards, and new material will include MIMO systems (Space-time block coding / Spatial multiplexing / Beamforming and interference management / Channel Estimation / mmWave Model); OFDM and SC-FDMA (Synchronization / Resource allocation (bit and power loading) / Filtered OFDM); Full Duplex Systems (Digital interference cancellation techniques).

Reference • 9781119567967 • Aug 2020 • Cloth • 1200pp • US\$TBA • Previous ed: 9780470843895

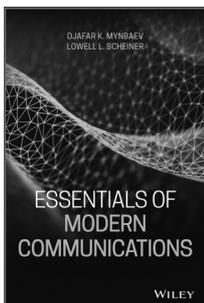


Digital Communication Techniques

Christian Gontrand

There have been considerable developments in information and communication technology. This has led to an increase in the number of applications available, as well as an increase in their variability. *Digital Communication Techniques* discusses digital modulations, their extensions and environment, as well as a few basic mathematical tools. An understanding of degree level mathematics or its equivalent is a prerequisite to reading this book. It is aimed at licensed professionals, engineers, Masters students and researchers whose field is in related areas such as hardware, phase-locked loops, voltage-controlled oscillators or phase noise.

Reference • 9781786305404 • Mar 2020 • Cloth • 380pp • US\$164.95

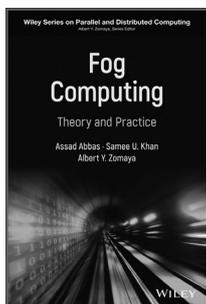


Essentials of Modern Communication

Djafar Mynbaev & Lowell L. Scheiner

Modern society requires a different set of communication systems than has any previous generation. To maintain and improve the contemporary communication systems that meet ever-changing requirements, engineers need to know how to recognize and solve cardinal problems. In *Essentials of Modern Communications*, readers will learn how modern communication has expanded and will discover where it is likely to go in the future. By discussing the fundamental principles, methods, and techniques used in various communication systems, this book helps engineers assess, troubleshoot, and fix problems that are likely to occur.

Reference • 9781119521495 • May 2020 • Cloth • 1056pp • US\$149.95



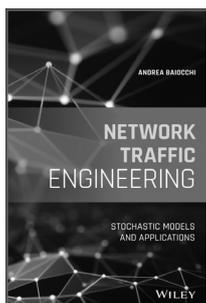
Fog Computing Theory and Practice

Albert Zomaya, Assad Abbas & Samee U. Khan

Written by some of the leading experts in the field, *Fog Computing: Theory and Practice* focuses on the technological aspects of employing fog computing in various application domains, such as smart healthcare, industrial process control and improvement, smart cities, and virtual learning environments. In addition, the Machine-to-Machine (M2M) communication methods for fog computing environments are covered in depth.

Presented in two parts—Fog Computing Systems and Architectures, and Fog Computing Techniques and Application—this book covers such important topics as energy efficiency and Quality of Service (QoS) issues, reliability and fault tolerance, load balancing, and scheduling in fog computing systems. It also devotes special attention to emerging trends and the industry needs associated with utilizing the mobile edge computing, Internet of Things (IoT), resource and pricing estimation, and virtualization in the fog environments.

Reference • 9781119551690 • Apr 2020 • Cloth • 608pp • US\$149.95

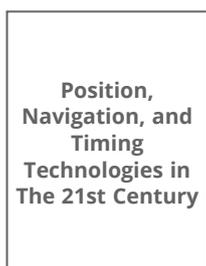


Network Traffic Engineering Stochastic Models and Applications

Andrea Baiocchi

This book provides an advanced level queuing theory guide for students with a strong mathematical background who are interested in analytic modeling of communication networks. It begins with the basics of queueing theory before moving on to more advanced levels. The topics covered in the book and their organization and presentation come out of research work, project development, teaching activity and discussions drawn from the author's professional experience. Topics are selected for their relevance, so as to provide a consistent view of most useful models. Examples are taken from real technical problems or engineering applications of interest to current and foreseeable future systems (e.g., LTE, Wi-Fi, ad-hoc networks, automated vehicles, reliability). They show how insight into real-world problems can be gained by means of quantitative modeling.

Reference • 9781119632436 • Jul 2020 • Cloth • 864pp • US\$149.95



Position, Navigation, and Timing Technologies in The 21st Century Integrated Satellite Navigation, Sensor Systems, and Civil Applications

Jade Morton, Frank van Diggelen, James Spilker Jr., Bradford Parkinson

Featuring sixty-four chapters that are divided into six parts, this two-volume work provides comprehensive coverage of the state-of-the-art in satellite-based position, navigation, and timing (PNT) technologies and civilian applications. It also examines alternative navigation technologies based on other signals-of-opportunity and sensors and offers a comprehensive treatment on integrated PNT systems for consumer and commercial applications. Volume 1 contains four parts and focuses on the satellite navigation systems and non-satellite based navigation technologies, while Volume 2 has three parts and addresses advanced satellite navigation civilian applications. This handbook includes chapters that focus on the latest developments in GNSS and other navigation sensors, techniques, and applications, as well as illustrates the interconnecting relationships between various types of technologies.

Reference • 9781119458340 • Jul 2020 • Cloth • 2144pp • US\$331.95

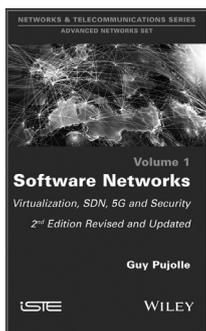
Also Available:

Position, Navigation, and Timing Technologies in The 21st Century: Integrated Satellite Navigation, Sensor Systems, and Civil Applications Volume 1

Reference • 9781119458418 • Jul 2020 • Cloth • 1000pp • US\$194.95

Position, Navigation, and Timing Technologies in The 21st Century: Integrated Satellite Navigation, Sensor Systems, and Civil Applications Volume 2

Reference • 9781119458494 • Jul 2020 • Cloth • 1000pp • US\$194.95



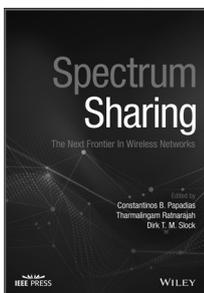
Software Networks Virtualization, SDN, 5G and Security, 2nd Edition

Guy Pujolle

Software Networks describes how to create and delete virtual networks on the fly. Indeed, the system is able to create any new network with any kind of virtual resource (e.g. switches, routers, LSRs, optical paths, firewalls, SIP-based servers, devices, servers, access points, etc.). *Software Networks* shows how this architecture is compatible with new advances in SDN (Software Defined Networking), new high-speed transport protocols such as TRILL (Transparent Interconnection of Lots of Links) and LISP (Locator/Identifier Separation Protocol), NGN, IMS, new generation Wi-Fi, and 4G/5G networks. Finally, the author introduces Clouds of security and the virtualization of secure elements (smartcards) that could certainly transform how to secure the Internet.

Reference • 9781786304582 • Jan 2020 • Cloth • 308pp • US\$154.95

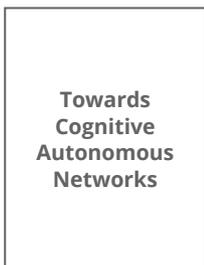




Spectrum Sharing
The Next Frontier in Wireless Networks
Tharmalingam Ratnarajah

Written by noted professionals from academia, industry, and research labs, this unique book provides a comprehensive treatment of the principles and architectures for spectrum sharing in order to help with the existing and future spectrum crunch issues. It presents readers with the most current standardization trends, including CEPT / CEE, eLSA, CBRS, MulteFire, LTE-Unlicensed (LTE-U), LTE WLAN integration with Internet Protocol security tunnel (LWIP), and LTE/Wi-Fi aggregation (LWA), and offers substantial trials and experimental results, as well as system-level performance evaluation results. The book also includes a chapter focusing on spectrum policy reinforcement and another on the economics of spectrum sharing.

Reference • 9781119551492 • Apr 2020 • Cloth • 456pp • US\$135.95

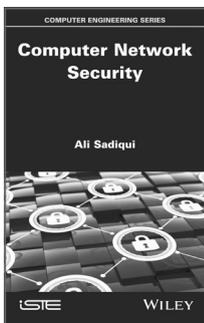


Towards Cognitive Autonomous Networks
Network Management Automation for 5G and Beyond
Stephen Mwanje & Christian Mannweiler

This book provides researchers, scientists and system engineers a comprehensive understanding of the current state of the art extended by mid- to long-term prospects of cognitive and autonomous network operation. Cognitive and autonomous in this context build two independent dimensions that enable the network to action based on information about its environment, and act independent of any external directions learning from its interactions and improve its responses. The key driver for the book is the need for autonomy in 5G imposed by new requirements due to virtualization of network functions. After a declaration of the need for cognitive autonomy in networks, a comprehensive background of the current position, an outline of the novel approaches, and a substantial description of application of tools for end-to-end cognition, namely configuration, operation, optimization and self-healing. The book ends with an outline describing the challenges of complete autonomy in networks.

Reference • 9781119586388 • Jun 2020 • Cloth • 500pp • US\$145.00

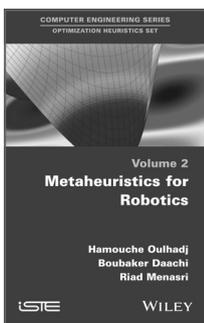
COMPUTER ENGINEERING



Computer Network Security
Ali Sadiqui

Developed in collaboration with a training and certification team from Cisco, *Computer Network Security* is an exploration of the state-of-the-art and good practices in setting up a secure computer system. Concrete examples are offered in each chapter, to help the reader to master the concept and apply the security configuration. This book is intended for students preparing for the CCNA Security Exam (210-260 IINS) – whether at professional training centers, technical faculties, or training centers associated with the 'Cisco Academy' program. It is also relevant to anyone interested in computer security, be they professionals in this field or users who want to identify the threats and vulnerabilities of a network to ensure better security.

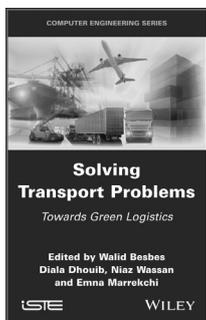
Reference • 9781786305275 • Feb 2020 • Cloth • 300pp • US\$144.95



Metaheuristics for Robotics
Hamouche Oulhadj, Boubaker Daachi & Riad Menasri

This book is dedicated to the application of metaheuristic optimization in trajectory generation and control issues in robotics. In this area, as in other fields of application, the algorithmic tools addressed do not require a comprehensive list of eligible solutions to effectively solve an optimization problem. This book investigates how, by reformulating the problems to be solved, it is possible to obtain results by means of metaheuristics. Through concrete examples and case studies – particularly related to robotics – this book outlines the essentials of what is needed to reformulate control laws into concrete optimization data.

Reference • 9781786303806 • Mar 2020 • Cloth • 200pp • US\$119.95



Solving Transport Problems

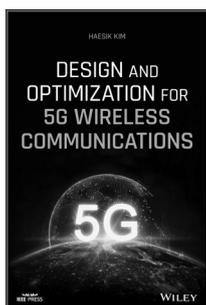
Towards Green Logistics

Walid Besbes, Diala Dhouib, Niaz Wassan & Emna Marrekchi

Solving Transport Problems establishes fundamental points and good practice in resolving matters regarding green transportation. This book covers various sub-topics and thus consists of diverse content. Traditionally, academia and transport practitioners have mainly concentrated on efficient fleet management to achieve economic benefits and better-quality service. More recently, due to growing public environmental concerns and the industry understanding of the issue, the academic community has started to address environmental issues. The studies of green transportation compiled in this book have identified certain areas of interest, such as references, viewpoints, algorithms and ideas. *Solving Transport Problems* is for researchers, environmental decision-makers and other concerned parties, to start discussion on developing optimized technology and alternative fuel-based integrated models for environmentally cleaner transport systems.

Reference • 9781786303899 • Feb 2020 • Cloth • 300pp • US\$144.95

CONTROL SYSTEMS TECHNOLOGY



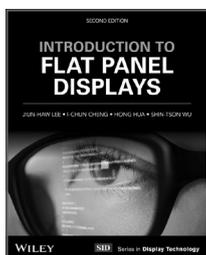
Design and Optimization for 5G Wireless Communications

Haesik Kim

This book offers a technical background to the design and optimization of wireless communication systems, covering optimization algorithms for wireless and 5G communication systems design. The book introduces the design and optimization systems which target capacity, latency, and connection density; including Enhanced Mobile Broadband Communication (eMBB), Ultra-Reliable and Low Latency Communication (URLL), and Massive Machine Type Communication (mMTC). The book is organized into two distinct parts: Part I, mathematical methods and optimization algorithms for wireless communications are introduced, providing the reader with the required mathematical background. In Part II, 5G communication systems are designed and optimized using the mathematical methods and optimization algorithms.

Reference • 9781119494553 • Apr 2020 • Cloth • 442pp • US\$140.00

ELECTRICAL ENGINEERING - DISPLAYS



Introduction to Flat Panel Displays

2nd Edition

Jiun-Haw Lee, I-Chun Cheng, David N. Liu & Shin-Tson Wu

Introduction to Flat Panel Displays describes the fundamental physics and materials of major flat panel display technologies including LED, OLED, LCD, PDP and FED and reflective displays. A reference for graduate students and new entrants to the display industry, the book currently covers the basic science behind each display technology and gives solved problems and homework problems in each chapter to aid self-study. This second edition offers the latest information from advancements in the FPD field - from display technology to developments in OLED materials. It provides key information on blue phase, automotive lighting, quantum-dot enhanced LCDs, device configurations and performance, LEDs and reflective display.

Editors **Jiun-Haw Lee**, **I-Chun Cheng** and **Hoang-Yan Lin** are with the faculty of National Taiwan University, Taiwan.

Reference • 9781119282273 • Jul 2020 • Cloth • 352pp • US\$130.00 • Previous ed: 9780470516935

ELECTROMAGNETIC THEORY

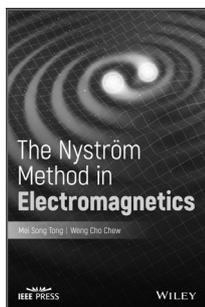
Modern
Characterization
of
Electromagnetic
Systems and Its
Associated
Metrology

Modern Characterization of Electromagnetic Systems and Its Associated Metrology

Tapan Sarkar

This book describes new method of characterization of electromagnetic wave dynamics and measurement, which are based on modern computational and digital signal processing techniques. The book introduces modern computational concepts in electromagnetic system characterization and introduces modern signal processing algorithms not only to enhance the resolution but also to extract information from electromagnetic systems that is not currently possible, for example, generation of the non-minimum phase or for that matter the transient response given amplitude only data. The author covers model based parameter estimation and planar near field to far field transformation, as well as spherical near field to far field transformation.

Reference • 9781119076469 • Aug 2020 • Cloth • 704pp • US\$154.95



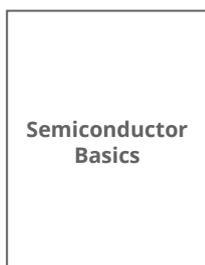
The Nyström Method In Electromagnetics

Mei Song Tong & Weng Cho Chew

Written by the top researchers in electromagnetics, this complete reference book is a consolidation of advances made in the use of the Nyström method for solving electromagnetic integral equations. It begins by introducing the fundamentals of the electromagnetic theory and computational electromagnetics, before proceeding to illustrate the advantages unique to the Nyström method through rigorously worked out examples and equations. Key topics include quadrature rules, singularity treatment techniques, applications to conducting and penetrable media, multiphysics electromagnetic problems, time-domain integral equations, inverse scattering problems and incorporation with multilevel fast multiple algorithm. *The Nyström Method in Electromagnetics* is ideal for graduate students, senior undergraduates, and researchers studying engineering electromagnetics, computational methods, and applied mathematics.

Reference • 9781119284840 • Apr 2020 • Cloth • TBA • US\$160.00

ELECTRONIC MATERIALS



Semiconductor Basics

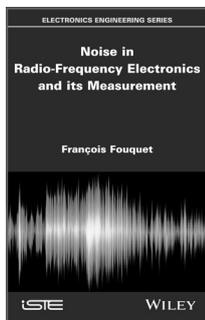
A Qualitative, Non-Mathematical Explanation of How Semiconductors Work and How They are Used

George Domingo

Semiconductor Basics is an accessible guide to how semiconductors work. It is written for readers without an electronic engineering background. Semiconductors are the basis for almost all modern electronic devices. The author—an expert on the topic—explores the fundamental concepts of what a semiconductor is, the different types in use, and how they are different from conductors and insulators. The book has a large number of helpful and illustrative drawings, photos, and figures. Using only simple arithmetic to help understand the device operation and applications, *Semiconductor Basics* explores topics from device physics fundamentals to transistor formation and fabrication and the operation of the circuits to build electronic devices and systems. It also includes information on practical applications of p-n junctions, transistors, and integrated circuits to link theory and practice.

Reference • 9781119702306 • Aug 2020 • Cloth • 296pp • US\$95.00

GENERAL & INTRODUCTORY ELECTRICAL & ELECTRONICS ENGINEERING



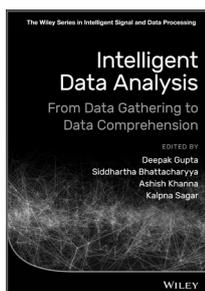
Noise in Radio-Frequency Electronics and Its Measurement

François Fouquet

Noise in Radio-Frequency Electronics and its Measurement has five chapters that address the theoretical aspects of this subject, and concludes with a series of exercises and solutions. The book examines the origin and sources of noise inside electronic radio-frequency circuits, their impact in telecommunications, their modeling and their measurement. Particular attention is dedicated to the origins, establishment and significance of formulas that are used when the noise characteristics of an electronic circuit are modeled or measured. This book instructs the reader in the application of the examined methods and their adaptation to solving problems, as well as how to comfortably use the presented formulas.

Reference • 9781786305329 • Mar 2020 • Cloth • 220pp • US\$134.95

INTELLIGENT SYSTEMS & AGENTS



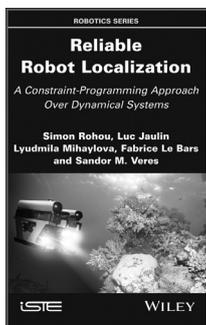
Intelligent Data Analysis

From Data Gathering to Data Comprehension

Siddhartha Bhattacharyya, Deepak Gupta, Ashish Khanna & Kalpna Sagar

This book focuses on methods and tools for intelligent data analysis, aimed at narrowing the increasing gap between data gathering and data comprehension, and emphasis will also be given to solving of problems which result from automated data collection, such as analysis of computer-based patient records, data warehousing tools, intelligent alarming, effective and efficient monitoring, and so on. This book aims to describe the different approaches of Intelligent Data Analysis from a practical point of view: solving common life problems with data analysis tools.

Reference • 9781119544456 • Jul 2020 • Cloth • 400pp • US\$135.00



Reliable Robot Localization

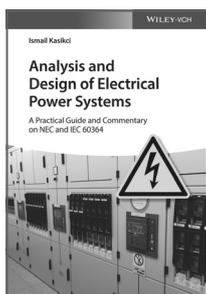
A Constraint-Programming Approach Over Dynamical Systems

Simon Rohou, Luc Jaulin, Lyudmila Mihaylova, Fabrice Le Bars & Sandor M. Veres

Localization for underwater robots remains a challenging issue. Typical sensors, such as Global Navigation Satellite System (GNSS) receivers, cannot be used under the surface and other inertial systems suffer from a strong integration drift. On top of that, the seabed is generally uniform and unstructured, making it difficult to apply Simultaneous Localization and Mapping (SLAM) methods to perform localization. *Reliable Robot Localization* presents an innovative new method which can be characterized as a raw-data SLAM approach. It differs from extant methods by considering time as a standard variable to be estimated, thus raising new opportunities for state estimation, so far underexploited. This book not only presents original contributions to the field of mobile robotics, it also offers new perspectives on constraint programming and set-membership approaches. It provides a reliable contractor programming framework in order to build solvers for dynamical systems. This set of tools is illustrated throughout this book with realistic robotic applications.

Reference • 9781848219700 • Oct 2019 • Cloth • 284pp • US\$144.95

POWER ELECTRONICS



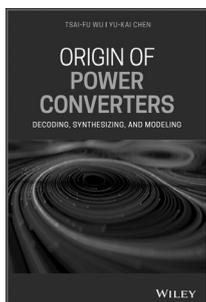
Analysis And Design Of Electrical Power Systems

A Practical Guide and Commentary on NEC and IEC 60364

Ismail Kasikci

A one-stop resource on how to design standard-compliant low voltage electrical systems. This book helps planning engineers in the design and application of low voltage networks. Structured according to the type of electrical system, e.g. asynchronous motors, three-phase networks, or lighting systems, it covers the respective electrical and electrotechnical fundamentals, provides information on the implementation of the relevant NEC and IEC standards, and gives an overview of applications in industry. *Analysis and Design of Electrical Power Systems: A Practical Guide and Commentary on NEC and IEC 60364* starts by introducing readers to the subject before moving on to chapters on planning and project features numerous tables, diagrams, and worked examples that help practicing engineers in the planning of electrical systems and it includes programs on an accompanying website that help readers reproduce and adapt calculations on their own.

Reference • 9783527341375 • Jun 2020 • Cloth • 1000pp • US\$470.00



Origin of Power Converters

Decoding, Synthesizing, and Modeling

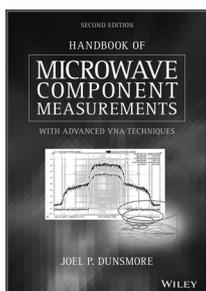
Tsai-Fu Wu & Yu-Kai Chen

Origin of Power Converters is a comprehensive guide to approaches to decoding, synthesizing and modeling pulse width modulation (PWM) converters. Written for academic researchers, graduate students, and seniors in power electronics, the authors present an introduction to the origins of the converter and detail the fundamentals related to power the converter's evolution. They cover a range of converter synthesis approaches, synthesis of multi-stage/multi-level converters, extension of hard-switching converters to softswitching ones, and determination of switch-voltage stresses in the converters. In addition, this comprehensive resource reviews conventional two-port network theory and the statespace averaged (SSA) modeling approach, from which systematic modeling approaches are based on the graft switch technique.

Author **Tsai-Fu Wu**, PhD, is a Distinguished Professor in the Department of Electrical Engineering, National Tsing Hua University, Hsinchu, Taiwan, and **Yu-Kai Chen**, PhD, is a Professor in the Innovative Design and Energy Application Laboratory at National Formosa University, Yunlin, Taiwan.

Reference • 9781119632986 • Apr 2020 • Cloth • 416pp • US\$134.95

RF / MICROWAVE THEORY & TECHNIQUES



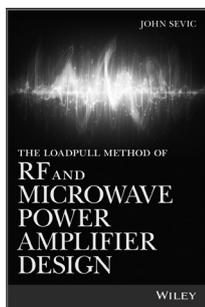
Handbook of Microwave Component Measurements

With Advanced VNA Techniques, 2nd Edition

Joel Dunsmore

Handbook of Microwave Component Measurements Second Edition is a fully updated, complete reference to this topic, focusing on the modern measurement tools, such as a Vector Network Analyzer (VNA), gathering in one place all the concepts, formulas, and best practices of measurement science. It includes basic concepts in each chapter as well as appendices which provide all the detail needed to understand the science behind microwave measurements. The book offers an insight into the best practices for ascertaining the true nature of the device-under-test (DUT), optimizing the time to setup and measure, and to the greatest extent possible, remove the effects of the measuring equipment from that result.

Reference • 9781119477136 • Jul 2020 • Cloth • 720pp • US\$150.00



The Loadpull Method of RF and Microwave Power Amplifier Design

John Sevic

The book is intended for readers with an existing base of knowledge regarding the wireless power amplifier (PA), a key semiconductor component used in all wireless communication products. The PA influences battery-life, talk-time, cost, and size of wireless communication devices. The author presents a complete pedagogical design methodology for wireless PA design, from specification stage, to transistor selection, to final circuit design. An electrical engineer, having read the book, will be able to start with key specifications and end with a functioning wireless PA design to meet those specifications. This book fills an unmet need in the technical literature by describing a general, powerful, accessible method that spans multiple technology disciplines, including base-station, hand-set, sat-com, and military applications, all from a practical, hands-on perspective.

Reference • 9781118898178 • Jul 2020 • Cloth • 192pp • US\$134.95

SIGNAL PROCESSING

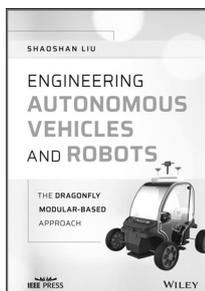


Body Sensor Networking, Design and Algorithms

Saeid Sanei

In *Body Sensors Networking, Design, and Algorithms*, professionals in the field of Biomedical Engineering and e-health get an in-depth look at advancements, changes, and developments of body sensor network, design and algorithms. Each chapter provides essential information needed to understand the current landscape of technology and mechanical developments. It covers subjects, including Physiological Sensors, Sleep Stage Classification, Contactless Monitoring, and much more. In addition, readers will learn about wearable and implantable devices, invasive and noninvasive monitoring, biocompatibility, and the tools and platforms for long-term, low-power deployment of wireless communications. It's an essential resource for understanding the applications and practical implementation of BSN when it comes to elderly care, how to manage patients with chronic illnesses and diseases, and use cases for rehabilitation.

Reference • 9781119390022 • Jun 2020 • Cloth • 400pp • US\$140.00



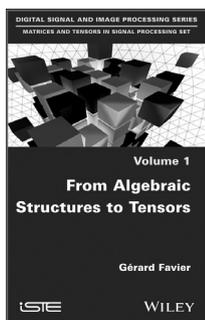
Engineering Autonomous Vehicles and Robots

The Dragonfly Modular-Based Approach

Shaoshan Liu

The first book of its kind that offers a step-by-step guide to building autonomous vehicles and robots, with source code and accompanying videos. *Engineering Autonomous Vehicles and Robots: The DragonFly Modular-based Approach* covers everything that technical professionals need to know about: CAN bus, chassis, sonars, radars, GNSS, computer vision, localization, perception, motion planning, and more. Particularly, it covers Computer Vision for active perception *and* localization, as well as mapping and motion planning. The book offers several case studies on the building of an autonomous passenger pod, bus, and vending robot. It features a large amount of supplementary material, including the standard protocol and sample codes for chassis, sonar, and radar. GSPD protocol/NMEA protocol and GPS deployment methods are also provided. Most importantly, readers will learn the philosophy behind the DragonFly modular-based design approach, which empowers readers to design and build their own autonomous vehicles and robots with flexibility and affordability.

Reference • 9781119570561 • Apr 2020 • Cloth • 216pp • US\$116.95

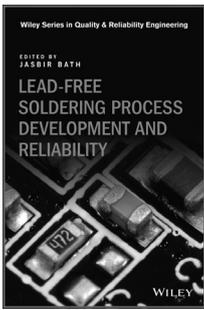


From Algebraic Structures to Tensors

Gérard Favier

Nowadays, tensors play a central role for the representation, mining, analysis, and fusion of multidimensional, multimodal, and heterogeneous big data in numerous fields. This set on *Matrices and Tensors in Signal Processing* aims at giving a self-contained and comprehensive presentation of various concepts and methods, starting from fundamental algebraic structures to advanced tensor-based applications. This volume provides an introduction to matrices and tensors of higher-order based on the structures of vector space and tensor space. Matrices and hypermatrices associated with linear, bilinear and multilinear maps are more particularly studied. The notions of decomposition, rank, eigenvalue, singular value, and unfolding of a tensor are introduced, by emphasizing similarities and differences between matrices and tensors of higher-order.

Reference • 9781786301543 • Oct 2019 • Cloth • 318pp • US\$154.95

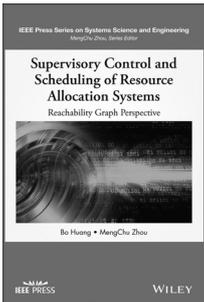


Lead-Free Soldering Process Development And Reliability

Jasbir Bath

This book discusses ongoing issues in electronics manufacturing production. Each topic is discussed by those who have conducted work in the field and can provide insight into what are the most important areas to consider. The book gives updates in areas for which research is ongoing, and addresses new topics which are relevant to lead-free soldering. Among the key topics the book highlights are emerging environmental legislation, developments in process engineering, alloys, PCB surface finishes, PCB laminates, reliability assessments and standards. A practicing engineer will find the book of use as it goes into these and other topics in sufficient detail to make it informative and a good practical guide to address issues of concern in these areas.

Reference • 9781119482031 • Jul 2020 • Cloth • 528pp • US\$134.95



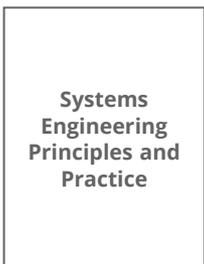
Supervisory Control and Scheduling of Resource Allocation Systems

Reachability Graph Perspective

Bo Huang & MengChu Zhou

Supervisory Control and Scheduling of Resource Allocation Systems offers an important guide to Petri net (PN) models and methods for supervisory control and system scheduling of resource allocation systems (RASs). Resource allocation systems are common in automated manufacturing systems, project management systems, cloud data centers, and software engineering systems. The authors—two experts on the topic—present a definition, techniques, models, and state-of-the art applications of supervisory control and scheduling problems. This important book is written for researchers, engineers, scientists, and professionals in system planning and control, engineering, operation, and management.

Reference • 9781119619680 • May 2020 • Cloth • 272pp • US\$134.95



Systems Engineering Principles and Practice

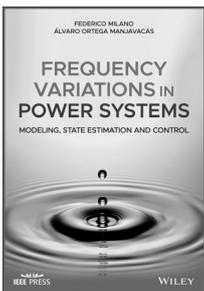
3rd Edition

David Flanagan, Alexander Kossiakoff, Steven M. Biemer & Samuel J. Seymour

Systems Engineering Principles and Practice continues to be a national standard textbook for the study of traditional systems engineering for advanced undergraduate and graduate students. It addresses the need for an introductory overview, first-text for the development and acquisition of complex technical systems. The material is organized in a way that teaches the reader how to think like a systems engineer and carry out best practices in the field. Since systems engineering is still developing as a discipline, there have been new concepts and practices that have entered the field since the text was originally published in 2003, and the second edition in 2011. An increasing number of students with diverse backgrounds and professions have used the text, leading to the need for new topics, expansion, integration and clarification.

Reference • 9781119516668 • Jul 2020 • Cloth • 688pp • US\$144.95 • Previous ed: 9780470405482

ELECTRIC POWER SYSTEMS



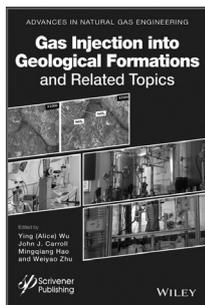
Frequency Variations in Power Systems

Modeling, State Estimation and Control

Federico Milano

Frequency Variations in Power Systems: Modeling, State Estimation and Control presents the Frequency Divider Formula (FDF); a unique approach that defines, calculates and estimates the frequency in electrical energy systems. This authoritative book is written by two noted researchers on the topic. They define the meaning of frequency of an electrical quantity (such as voltage and current) in non-stationary conditions (for example the frequency is not equal to the nominal one) and pose the foundation of the frequency divider formula. The book describes the consequences of using a variable frequency in power system modelling and simulations, in state estimation and frequency control applications.

Reference • 9781119551843 • Apr 2020 • Cloth • 250pp • US\$TBA • Previous ed: 9781119990444



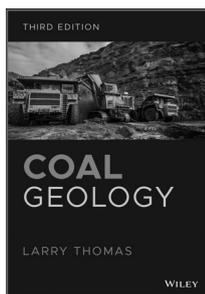
Advances in Natural Gas Engineering, Volume 8

Gas Injection into Geological Formations and Related Topics

John Carroll, Alice Wu, Mingqiang Hao & Weiyao Zhu

This is the eighth volume in the series, focusing on gas injection into geological formations and other related topics, very important areas of natural gas engineering. This volume includes information for both upstream and downstream operations, including chapters detailing the most cutting-edge techniques in acid gas injection, carbon capture, chemical and thermodynamic models, and much more. Written by some of the most well-known and respected chemical and process engineers working with natural gas today, the chapters in this important volume represent the most state-of-the-art processes and operations being used in the field. Not available anywhere else, this volume is a must-have for any chemical engineer, chemist, or process engineer in the industry. *Advances in Natural Gas Engineering* is an ongoing series of books meant to form the basis for the working library of any engineer working in natural gas today.

Reference • 9781119592068 • Apr 2020 • Cloth • 380pp • US\$234.95



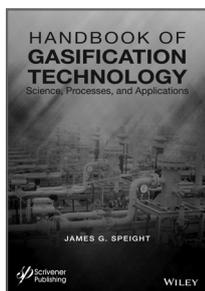
Coal Geology

3rd Edition

Larry Thomas

Coal Geology, 3rd Edition, offers a revised and updated edition of this popular book which provides a comprehensive overview of the field of coal geology including coal geophysics, hydrogeology and mining. Also covered in this volume are fully revised coverage of resource and reserve definitions, equipment and recording techniques together with the use of coal as an alternative energy source as well as environmental implications. This third edition provides a textbook ideally suited to anyone studying, researching or working in the field of coal geology, geotechnical engineering and environmental science.

Reference • 9781119424130 • Jul 2020 • Cloth • 480pp • US\$155.95 • Previous ed: 9781118208465



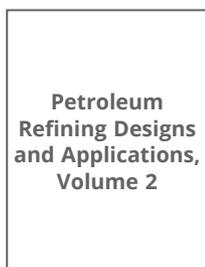
Handbook of Gasification Technology

Science, Processes, and Applications

James Speight

Gasification is one of the most important advancements that has ever occurred in energy production. Using this technology, for example, coal can be gasified into a product that has roughly half the carbon footprint of coal. Similarly waste products that would normally be dumped into landfills or otherwise disposed of can be converted into energy through the process of gasification. The same is true of biofeedstocks and other types of feedstocks, thus making another argument for the widespread use of gasification. The *Handbook of Gasification Technology* covers all aspects of the gasification, in a "one-stop shop," from the basic science of gasification and why it is needed to the energy sources, processes, chemicals, materials, and machinery used in the technology. Whether a veteran engineer or scientist using it as a reference or a professor using it as a textbook, this outstanding new volume is a must-have for any library.

Reference • 9781118773536 • Apr 2020 • Cloth • 544pp • US\$248.95

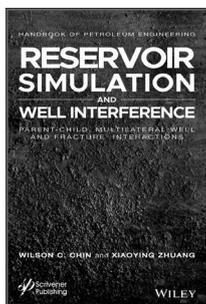


Petroleum Refining Designs and Applications, Volume 2

A. Kayode Coker

There is a renaissance that is occurring in chemical and process engineering, and it is crucial for today's scientists, engineers, technicians, and operators to stay current. This book offers the most up-to-date and comprehensive coverage of the most significant and recent changes to petroleum refining, presenting the state-of-the-art to the engineer, scientist, or student. Useful as a textbook, this is also an excellent, handy go-to reference for the veteran engineer, a volume no chemical or process engineering library should be without.

Reference • 9781119476412 • Jun 2020 • Cloth • 600pp • US\$248.95



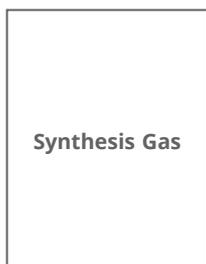
Reservoir Simulation and Well Interference

Parent-Child, Multilateral Well and Fracture Interactions

Wilson Chin & Xiaoying Zhuang

Co-written by a world-renowned petroleum engineer, this breakthrough new volume teaches engineers how to configure, place and produce horizontal and multilateral wells in geologically complicated reservoirs, select optimal well spacings and fracture separations, and how to manage factors influencing well productivity using proven cost-effective and user-friendly simulation methods.

Reference • 9781119283447 • Feb 2020 • Cloth • 396pp • US\$224.95



Synthesis Gas

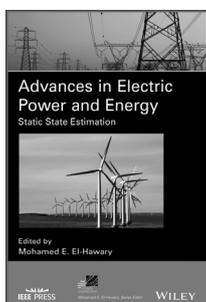
Production and Properties

James Speight

Synthesis gas is one of the most important advancements that has ever occurred in energy production. Using this technology, for example, coal, biomass, waste products, or a combination of two or more of these can be gasified into a product that has roughly half the carbon footprint of coal alone. Used on a massive scale, just think of the potential for reducing carbon emissions! *Synthesis Gas* covers all aspects of the technology, from the chemistry, processes, and production, to the products, feedstocks, and even safety in the plant. Whether a veteran engineer or scientist using it as a reference or a professor using it as a textbook, this outstanding new volume is a must-have for any library.

Reference • 9781119707721 • Mar 2020 • Cloth • 500pp • US\$248.95

POWER TECHNOLOGY & POWER ENGINEERING



Advances in Electric Power and Energy

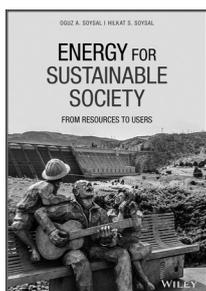
Static State Estimation

Mohamed El-Hawary

With contributions from a noted panel of experts on the topic, *Advances in Electric Power and Energy: Static State Estimation* addresses the wide-range of issues concerning static state estimation as a main energy control function and major tool for evaluating prevailing operating conditions in electric power systems worldwide. This book is an essential guide for system operators who must be fully aware of potential threats to the integrity of their own and neighboring systems. The contributors provide an overview of the topic and review common threats such as cascading black-outs to model-based anomaly detection to the operation of micro-grids and much more. The book also includes a discussion of an effective mathematical programming approach to state estimation in power systems.

Reference • 9781119480464 • Jun 2020 • Cloth • 528pp • US\$134.95

RENEWABLE ENERGY



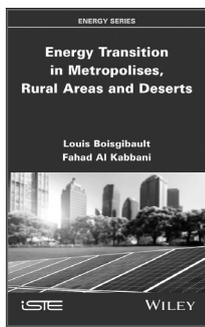
Energy for Sustainable Society

From Resources to Users

Oguz Soysal & Hilkat S. Soysal

The aim of this book is to provide the readers with adequate technical foundation to evaluate the performance of energy systems and understand their interactions with socioeconomic indicators. The text presents energy flow from primary sources to end-users with an interdisciplinary system approach. Technical topics include the current availability and future of primary sources, energy supply chain, conversion between different forms of energy, security of energy supply, and efficient end-use of energy. In addition to the technical content, global, economic, societal, ethical, and environmental issues associated with currently used energy technologies are discussed throughout the text.

Reference • 9781119561309 • Jul 2020 • Cloth • 500pp • US\$130.00

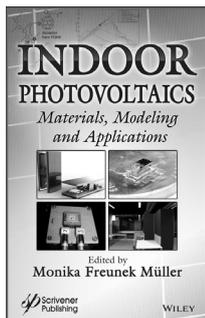


Energy Transition in Metropolises, Rural Areas and Deserts

Louis Boisgibault & Fahad Al Kabbani

Energy Transition in Metropolises, Rural Areas and Deserts presents detailed field studies of energy transition in Lille, Riyadh, Fayence, Bokhol, Ouarzazate and the Arabian Desert. It analyzes local actions and good practices – according to the resources and constraints involved – in the process of removing the obstacles to the transition. Solutions are sought for the right type of space for buildings, transport, industry and services, and targets are set for Europe, the Middle East and Africa as part of the Paris Climate Agreement. As a pedagogical tool, this book is aimed at not only politicians and professionals, but also any members of the public who wish to learn about changes in production and energy consumption.

Reference • 9781786304995 • Jan 2020 • Cloth • 246pp • US\$134.95



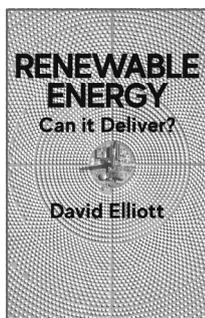
Indoor Photovoltaics

Materials, Modeling and Applications

Monika Freunek Müller

Indoor photovoltaics (IPV) is the most promising power source for indoor electronic devices, especially sensor devices and edge nodes for the Internet of Things, and it will gain considerable interest due to the development of the field. This field of photovoltaics differs from other fields due to irradiance and spectral distribution conditions as well as the (close to) energy autarkic field conditions. The book provides the engineer and researcher with guidelines, provides a comprehensive overview over theoretical models, efficiencies, application design, and first available products.

Reference • 9781119605591 • May 2020 • Cloth • 300pp • US\$TBA



Renewable Energy

Can It Deliver?

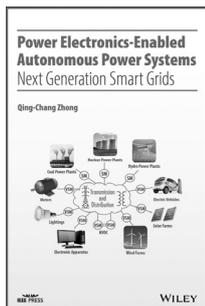
David Elliott

The use of renewables is spreading rapidly. Over a quarter of global electricity is already generated from solar, wind, hydro and biomass energy. With costs falling significantly, renewables are booming, helping to avoid the major climate change risks associated with fossil fuel use in power stations, homes and vehicles. But can we get rid of all of these dirty energy sources – and nuclear power, as well – and deliver 100% of our energy from renewables? In this timely analysis, leading energy expert David Elliott tackles these issues head on and asks to what extent renewables can deliver a technologically and economically viable energy future. Exploring both the progress and problems of renewables against a backdrop of rising energy demand, he argues that, on balance, they do seem to be living up to their promises. With renewables rapidly expanding across the globe, and China now leading the pack, a renewable future could really be on the horizon.

Reference • 9781509541638 • Jul 2020 • Cloth • 256pp • US\$64.95

Reference • 9781509541645 • Jul 2020 • Paper • 256pp • US\$22.95

SMART GRID



Power Electronics-Enabled Autonomous Power Systems

Next Generation Smart Grids

Qing-Chang Zhong

Power systems worldwide are going through a paradigm shift from centralized generation to distributed generation. This book presents the SYNDEM (i.e., synchronized and democratized) grid architecture and its technical routes to harmonize the integration of renewable energy sources, electric vehicles, storage systems, and flexible loads, with the synchronization mechanism of synchronous machines, to enable autonomous operation of power systems, and to promote energy freedom. "This is a game changer for the grid. It is the sort of breakthrough – like the touch screen in smart phones – that helps to push an industry from one era to the next", as reported by Keith Schneider, a New York Times correspondent since 1982. *Power Electronics-Enabled Autonomous Power Systems* is an excellent book for researchers, engineers, and students involved in energy and power systems, electrical and control engineering, and power electronics. The SYNDEM theoretical framework chapter is also suitable for policy makers, legislators, entrepreneurs, commissioners of utility commissions, energy and environmental agency staff, utility personnel, investors, consultants, and attorneys.

Reference • 9781118803523 • Apr 2020 • Cloth • 496pp • US\$102.95


**Funding Atlas
2018**
Funding Atlas 2018

Key Indicators for Publicly Funded Research in Germany

Deutsche Forschungsgemeinschaft (DFG)

The Funding Atlas 2018 is the latest in a series of detailed reports on key figures relating to publicly funded research in Germany published by the Deutsche Forschungsgemeinschaft (DFG, German Research Foundation). In this year's Funding Atlas, data from public providers of third-party funding have been consulted and evaluated to obtain the key indicators.

Reference • 9783527347766 • Mar 2020 • Paper • 100pp • US\$80.00

GENERAL & INTRODUCTORY INDUSTRIAL ENGINEERING


**Dictionary of
Industrial Terms**
Dictionary of Industrial Terms

2nd Edition

Michael Holloway

This is the most comprehensive dictionary of maintenance and reliability terms ever compiled, covering the process, manufacturing, and other related industries, every major area of engineering used in industry, and more. The over 15,000 entries are all alphabetically arranged and include special features to encourage usage and understanding. They are supplemented by hundreds of figures and tables that clearly demonstrate the principles & concepts behind important process control, instrumentation, reliability, machinery, asset management, lubrication, corrosion, and much much more.

Reference • 9781119363446 • Aug 2020 • Cloth • 700pp • US\$258.95 • Previous ed: 9781118344576

Fundamentals of Engineering Economic Analysis

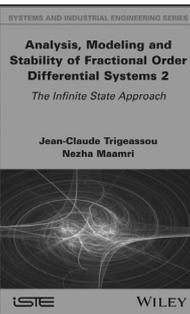
2nd Edition Asia Edition

John White, Kellie S. Grasman, Kenneth E. Case, Kim LaScola Needy & David B. Pratt

Principles of Engineering Economic Analysis, 6th edition teaches engineers to properly and methodically evaluate their work on an economic basis, and to convey it effectively to those who have the power to say "yea" or "nay." The 6th edition is updated and expanded to be comprehensive and flexible – it includes all standard topics plus stronger coverage of more advanced analysis techniques than other books, with the most thorough integration and guidance for spreadsheet use. The text provides a unified treatment of economic analysis principles and techniques from a cash flow perspective, a proven classroom approach that is very successful in practice. Chapter-opening stories about well-known companies, engineering and personal finance examples throughout the text, and external web resources help motivate students.

Textbook • 9781119668664 • Nov 2019 • Paper • 544pp • US\$80.00

INDUSTRIAL ENGINEERING SPECIAL TOPICS

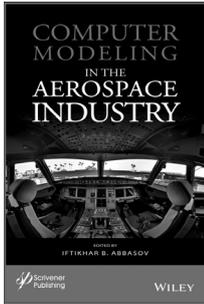
**Analysis, Modeling, and Stability of Fractional Order Differential Systems 2**

The Infinite State Approach

Jean-Claude Trigeassou & Nezha Maamri

This book introduces an original fractional calculus methodology ('the infinite state approach') which is applied to the modeling of fractional order differential equations (FDEs) and systems (FDSs). Its modeling is based on the frequency distributed fractional integrator, while the resulting model corresponds to an integer order and infinite dimension state space representation. This original modeling allows the theoretical concepts of integer order systems to be generalized to fractional systems, with a particular emphasis on a convolution formulation. With this approach, fundamental issues such as system state interpretation and system initialization – long considered to be major theoretical pitfalls – have been solved easily. This second volume focuses on the initialization, observation and control of the distributed state, followed by stability analysis of fractional differential systems.

Reference • 9781786304551 • Feb 2020 • Cloth • 426pp • US\$164.95



Computer Modeling in The Aerospace Industry

Iftikhar Abbasov

Devoted to advances in the field of computer simulation of aerospace equipment, this study is the most up-to-date coverage of the state-of-the-art on coastal and passenger aircraft, drones, and other recent developments in this constantly changing field. The developed models are presented with the design of passenger compartments and are actually ready for implementation in the aircraft industry. The originality of the concepts are based on biological prototypes, which are ergonomic, multifunctional and aesthetically pleasing. The aerodynamic layout of prospective convertible land and ship-based aircrafts of vertical and short takeoff-landing is presented, as well as the development of the original model of the unmanned aerial vehicle, or drone. The results of full-scale experiments are presented, including the technology of modeling aerospace simulators based on the virtual reality environment with technical vision devices.

Reference • 9781119661313 • Nov 2019 • Cloth • 282pp • US\$194.95 • Print-on-demand

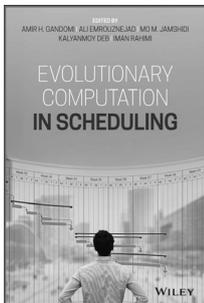
Essentials of Supersonic Commercial Aircraft Conceptual Design

Essentials of Supersonic Commercial Aircraft Conceptual Design

Egbert Torenbeek

Since the birth of Concorde there has been a wealth of scientific publications on topics such as the development of supersonic cruise vehicles, aerodynamics, propulsion, structural design and flight physics, in particular analysis of the sonic boom. However, since the demise of Concorde more than half a century ago there are no designers left with the experience and knowledge required for developing a new initial design proposal. *Essentials of Supersonic Commercial Aircraft Conceptual Design* addresses this need and is a must-have guide to conceptual supersonic aircraft design, providing a state-of-the-art overview, expert analysis and discussion. It examines the challenges of high-speed flight, covers aerodynamic phenomena in supersonic flow and aerodynamic drag in cruising flight, and discusses the advantages and disadvantages of oblique wing aircraft.

Reference • 9781119667001 • Jul 2020 • Cloth • 275pp • US\$TBA

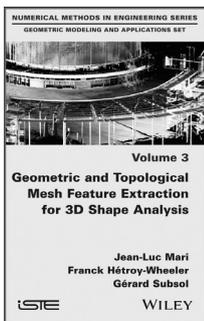


Evolutionary Computation In Scheduling

Amir Gandomi, Ali Emrouznejad, Mo M. Jamshidi, Kalyanmoy Deb & Iman Rahimi

This book provides insight into the use of evolutionary computations in real-world applications. This edited book allows the reader to analyze the point of view of each contributor regarding how to choose a specific evolutionary computation and how to validate the results using metrics and statistics. The spectrum of real-world optimization problems dealt with in this book includes, among others, application of EC in industry and service organizations such as healthcare scheduling, aircraft industry, school timetabling, manufacturing systems, and transportation scheduling in the supply chain. Throughout the book, the reader will find not only problems with different degrees of complexity, but also with different practical requirements, user constraints, and a variety of MOEC solution approaches. This book is ideal for engineers in industries, research scholars, advanced undergraduates and graduate students, and faculty teaching and conducting research in Operations Research and Industrial Engineering.

Reference • 9781119573845 • Apr 2020 • Cloth • 368pp • US\$124.95



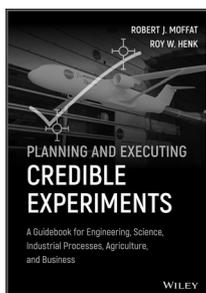
Geometric and Topological Mesh Feature Extraction For 3D Shape Analysis

Jean-Luc Mari, Franck Hétroy-Wheeler & Gérard Subsol

Three-dimensional surface meshes are the most common discrete representation of the exterior of a virtual shape. Extracting relevant geometric or topological features from them can simplify the way objects are looked at, help with their recognition, and facilitate description and categorization according to specific criteria. This book adopts the point of view of discrete mathematics, the aim of which is to propose discrete counterparts to concepts mathematically defined in continuous terms. It explains how standard geometric and topological notions of surfaces can be calculated and computed on a 3D surface mesh, as well as their use for shape analysis. Several applications are also detailed, demonstrating that each of them requires specific adjustments to fit with generic approaches. The book is intended not only for students, researchers and engineers in computer science and shape analysis, but also numerical geologists, anthropologists, biologists and other scientists looking for practical solutions to their shape analysis, understanding or recognition problems.

Reference • 9781786300416 • Oct 2019 • Cloth • 194pp • US\$119.95

CONTROL PROCESS & MEASUREMENTS

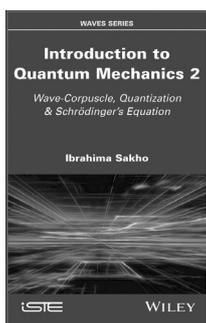
**Planning and Executing Credible Experiments**

Robert Moffat & Roy W. Henk

This handy, single-source resource guides readers in planning and conducting credible experiments for engineering, science, industrial processes, agriculture, and business. It takes them all the way through designing successful experiments, from initial conception, through execution of the experiment, to the final report, and prepares the reader to anticipate the choices faced throughout each one. Filled with real-world examples from engineering science and industry, *Planning and Executing Credible Experiments: A Guidebook for Engineering, Science, Industrial Processes, Agriculture, and Business* offers chapters that challenge experimenters at each stage of planning and execution. Tested over decades at Stanford University and internationally, it is accompanied by a website hosting two powerful, free, open-source software tools that reinforce experiment design and analysis.

Reference • 9781119532873 • Jul 2020 • Cloth • 282pp • US\$130.00

MECH ENGINEERING SPECIAL TOPICS

**Introduction to Quantum Mechanics 2**

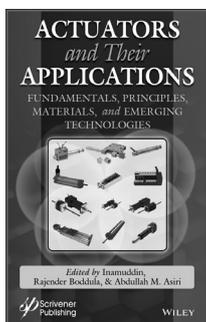
Wave-Corpuscle, Quantization & Schrödinger's Equation

Ibrahima Sakho

Quantum mechanics is the foundation of modern technology, due to its innumerable applications in physics, chemistry and even biology. This second volume studies Schrodinger's equation and its applications in the study of wells, steps and potential barriers. It examines the properties of orthonormal bases in the space of square-summable wave functions and Dirac notations in the space of states. This book has a special focus on the notions of the linear operators, the Hermitian operators, observables, Hermitian conjugation, commutators and the representation of kets, bras and operators in the space of states. The eigenvalue equation, the characteristic equation and the evolution equation of the mean value of an observable are introduced. The book goes on to investigate the study of conservative systems through the time evolution operator and Ehrenfest's theorem.

Reference • 9781786305015 • Jan 2020 • Cloth • 304pp • US\$154.95

MOTORS & DRIVERS

**Actuators and Their Applications**

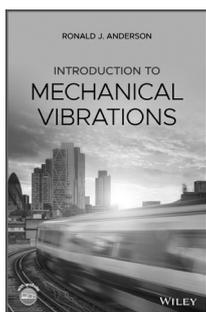
Fundamentals, Principles, Materials, and Emerging Technologies

Inamuddin Inamuddin, Rajender Boddula & Abdullah M. Asiri

As demand has increased for new types of equipment that are more suited to the ever-evolving world of industry, demand for both new and traditional types of actuators has soared. From automotive and aeronautical to biomedical and robotics, engineers are constantly developing actuating devices that are adapted to their particular needs in their particular field, and actuators are used in almost every field of engineering that there is. This volume not only lays out the fundamentals of actuators, such as how they operate, the different kinds, and their various applications, but it also informs the engineer or student about the new actuators that are being developed and the state-of-the-art of actuators. Edited and written by highly experienced and well-respected engineers with a deep understanding of their subject, there is no other volume on actuators that is more current or comprehensive.

Reference • 9781119661146 • Apr 2020 • Cloth • 272pp • US\$194.95

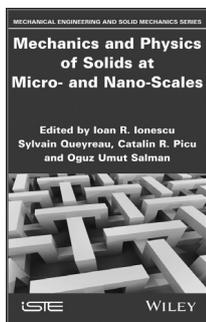
SOLID MECHANICS

**Introduction to Mechanical Vibrations**

Ronald Anderson

For students pursuing their education in Mechanical Engineering, *An Introduction to Mechanical Vibrations* is a definitive resource. The text extensively covers foundational knowledge in the field and uses it to lead up to and include: finite elements, the inerter, Discrete Fourier Transforms, flow-induced vibrations, and self-excited oscillations in rail vehicles. The text aims to accomplish two things in a single, introductory, semester-length, course in vibrations. The primary goal is to present the basics of vibrations in a manner that promotes understanding and interest while building a foundation of knowledge in the field. The secondary goal is to give students a good understanding of two topics that are ubiquitous in today's engineering workplace – finite element analysis (FEA) and Discrete Fourier Transforms (the DFT- most often seen in the form of the Fast Fourier Transform or FFT). FEA and FFT software tools are readily available to both students and practicing engineers and they need to be used with understanding and a degree of caution.

Reference • 9781119053651 • Apr 2020 • Cloth • 288pp • US\$99.50

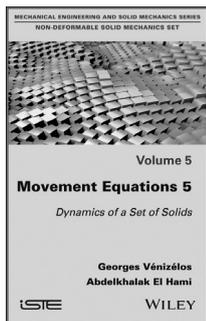


Mechanics and Physics of Solids at Micro- and Nano-Scales

Ioan Ionescu, Sylvain Queyreau, Catalin R. Picu, Oguz Umut Salman

Chronicle the 11th US – France “Mechanics and physics of solids at macro- and nano-scales” symposium, organized by ICACM (International Center for Applied Computational Mechanics) in Paris, June 2018, this book addresses the breadth of issues raised. It covers a comprehensive range of scientific and technological topics (from elementary plastic events in metals and materials in harsh environments to bio-engineered and bio-mimicking materials), offering a representative perspective on state-of-the-art research and materials. Expounding on the issues related to mesoscale modeling, the first part of the book addresses the representation of plastic deformation at both extremes of the scale – between nano- and macro- levels. The second half of the book examines the mechanics and physics of soft materials, polymers and materials made from fibers or molecular networks.

Reference • 9781786305312 • Feb 2020 • Cloth • 260pp • US\$144.95



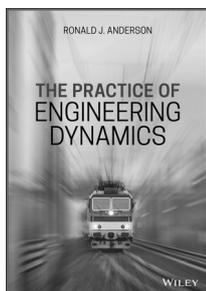
Movement Equations 5

Dynamics of a Set of Solids

Georges Vénizélos & Abdelkhalak El Hami

The final volume in the Non-deformable Solid Mechanics set, *Movement Equations 5* deals with the dynamics of sets of solids. This volume provides the appropriate mathematical tools (tensor calculus and matrix calculus) to obtain and solve the equations of motion for a chain of solids. These equations are then used to acquire the information necessary for the design of mechanical systems. Also examined are the vibratory behavior of continuous (deformable) systems, rigid and deformable solids, and sets of several solids. The book concludes with a study of the response of an excited system as a function of the excitation frequency. Accompanied by detailed examples, this book is aimed primarily at students, but would also serve as a valuable support for working engineers and teacher-researchers.

Reference • 9781786300362 • Oct 2019 • Cloth • 206pp • US\$134.95



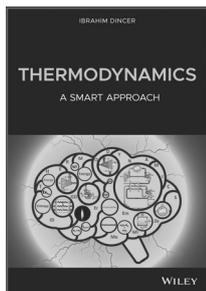
The Practice of Engineering Dynamics

Ronald Anderson

The Practice of Engineering Dynamics is a textbook that takes a systematic approach to understanding dynamic analysis of mechanical systems. It comprehensively covers dynamic analysis of systems from equilibrium states to non-linear simulations and presents frequency analysis of experimental data. It divides the practice of engineering dynamics into three parts: Part 1 – Modelling: Deriving Equations of Motion; Part 2 – Simulation: Using the Equations of Motion; and Part 3 – Experimental Frequency Domain Analysis. This approach fulfils the need to be able to derive the equations governing the motion of a system, to then use the equations to provide useful design information, and finally to be able to analyze experimental data measured on dynamic systems. The text includes end of chapter exercises and is accompanied by a website hosting a solutions manual.

Reference • 9781119053705 • Jul 2020 • Cloth • 325pp • US\$110.00

THERMODYNAMICS



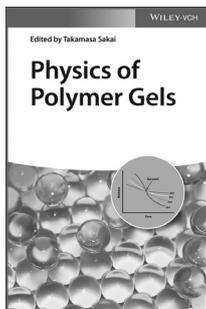
Thermodynamics

A Smart Approach

Ibrahim Dincer

Thermodynamics: A Smart Approach redefines this crucial branch of engineering as the science of energy and exergy—rather than the science of energy and entropy—to provide an innovative, step-by-step approach for teaching, understanding, and practicing thermodynamics in a clearer and easier way. Focusing primarily on the concepts and balance equations, this innovative textbook covers exergy under the second law of thermodynamics, discusses exergy matters, and relates thermodynamics to environmental impact and sustainable development in a clear, simple and understandable manner. It aims to change the way thermodynamics is taught and practiced and help overcome the fear of thermodynamics.

Reference • 9781119387862 • Aug 2020 • Cloth • 500pp • US\$130.00

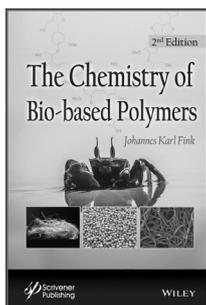


Physics of Polymer Gels

Takamasa Sakai

The book elucidates in detail the physics of polymer gels and reviews their unique properties that make them attractive for innumerable applications. Geared towards experienced researchers and entrants to the field, the book covers rubber elasticity, swelling and shrinking, deformation and fracture of as well as mass transport in polymer gels, enabling the readers to purposefully design polymer gels fit for specific purposes.

Reference • 9783527346417 • Mar 2020 • Cloth • 304pp • US\$175.00



The Chemistry of Bio-Based Polymers

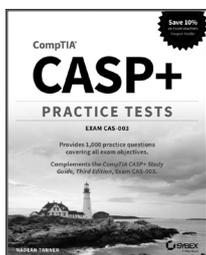
2nd Edition

Johannes Fink

The recent explosion of interdisciplinary research has fragmented the knowledge base surrounding renewable polymers. *The Chemistry of Bio-based Polymers* brings together, in one volume, the research and work of Professor Johannes Fink, focusing on biopolymers that can be synthesized from renewable polymers. Various categories of biopolymers are detailed including vinyl-based polymers, acid and lactone polymers, ester and amide polymers, carbohydrate-related polymers and others. Procedures for the preparation of biopolymers and biodegradable nanocomposites are arranged by chemical methods and in vitro biological methods, with discussion of the issue of "plastics from bacteria." The factors influencing the degradation and biodegradation of polymers used in food packaging, exposed to various environments, are detailed at length. The book covers the medical applications of bio-based polymers, concentrating on controlled drug delivery, temporary prostheses, and scaffolds for tissue engineering.

Reference • 9781119681311 • Dec 2019 • Cloth • 588pp • US\$234.95 • Previous ed: 9781118837252

CERTIFICATION (MSCE, NOVELL, ETC.)

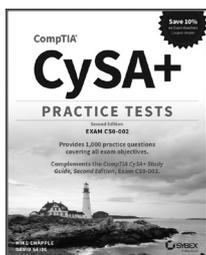


CASP+ Practice Tests

Nadean Tanner

CASP+ Practice Tests: Exam CAS-003 provides five full-length tests, covering the five CASP+ objective domains, PLUS two additional 90-question practice exams, for a total of 1,000 practice test questions. Readers also get access to the Sybex interactive learning environment and online test bank. Let this book help you gain the confidence you need for taking the CASP+ Exam CAS-003 and prepare you for test success.

Trade • 9781119683728 • Jun 2020 • Paper • 432pp • US\$39.95



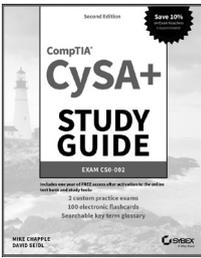
CompTIA CySA+ Practice Tests

Exam Cs0-002

Mike Chapple, David Seidl

This book provides five unique chapter tests, covering each of the five CompTIA CySA+ objective domains, PLUS two additional practice exams, for a total of 1000 practice test questions. Coverage of all exam objective domains including Threat and Vulnerability Management, Software and Systems Security, Security Operations and Monitoring, Incident Response, and Compliance and Assessment.

Trade • 9781119683797 • Jul 2020 • Paper • 480pp • US\$39.95 • Previous ed: 9781119433200



CompTIA CySA+ Study Guide Exam CS0-002

Mike Chapple, David Seidl

Where can you find 100% coverage of the revised CompTIA Cybersecurity Analyst+ (CySA+) exam objectives? It's all in the *CompTIA CySA+ Study Guide Exam CS0-002, Second Edition*! This guide provides clear and concise information on crucial security topics. You'll be able to gain insight from practical, real-world examples, plus chapter reviews and exam highlights. Gain confidence by using its interactive online test bank with hundreds of bonus practice questions, electronic flashcards, and a searchable glossary of key cybersecurity terms. You also get access to hands-on labs and have the opportunity to create a cybersecurity toolkit.

Trade • 9781119684053 • Jun 2020 • Paper • 552pp • US\$59.95 • Previous ed: 9781119348979

Engineering & Computer Sciences

May to August 2020 New Titles

Title	Author	ISBN	Page Reference	Bind	Prices (US\$)	Quantity
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Essentials of Modern Communication	Mynbaev, Scheiner	9781119521495	18	Cloth	149.95	
Essentials of Supersonic Commercial Aircraft Conceptual Design	Torenbeek	9781119667001	30	Cloth	TBA	
Evolutionary Computation In Scheduling	Gandomi, Emrouznejad, Jamshidi, Deb, Rahimi	9781119573845	30	Cloth	124.95	
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From Algebraic Structures to Tensors	Favier	9781786301543	24	Cloth	154.95	
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Hacking Connected Cars: Tactics, Techniques, and Procedures	Knight	9781119491804	9	Paper	49.95	
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Mechanics and Physics of Solids at Micro- and Nano-Scales	Ionescu, Queyreau, Picu, Salman	9781786305312	32	Cloth	144.95	
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OCP Oracle Certified Professional Java SE 11 Programmer II Study Guide: Exam 1Z0-816	Boyarsky, Selikoff	9781119617624	13	Paper	49.95	
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