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Athanasios C. Antoulas
Jan 2020 232pp
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SAE International

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Morgan & Claypool Publishers

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Chen Tang & Amir Khajepour
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Ethirajan Rathakrishnan
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BIOFABRICATION
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Nov 2019 290pp
9781774073438 Hardback £171.00 / €198.00
Discusses the basic concept of regenerating tissues, and approaches to the concept of Biofabrication. The book provides information about the construction of tissues and includes examples and case studies. The introduction of the three-dimensional bioprinting is also discussed.

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Nov 2019 376pp, 28 b&w figures
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Aug 2019 52pp
9780784415306 Paperback £59.95 / €69.00
Provides case studies of failures observed in steel structures between 1970 and 2013. This book supplies a summary of the published findings from eight steel structure failure investigations and a valuable collection of references that can be used by civil engineering students and practicing engineers to improve their failure literacy.

INSPECTION AND MAINTENANCE OF STORMWATER CONTROL MEASURES
Stormwater Best Management Practices Maintenance Task Committee
Aug 2019 86pp
9780784415436 Paperback £87.50 / €100.00
Describes the functions and operations of stormwater control measures, offers trouble-shooting suggestions, and provides valuable information on the implementation of inspection and maintenance procedures.

LIFE-CYCLE DESIGN, ASSESSMENT, AND MAINTENANCE OF STRUCTURES AND INFRASTRUCTURE SYSTEMS
Edited by Fabio Biondini & Dan M. Frangopol
Dec 2019 192pp
9780784415467 Paperback £108.00 / €125.00
A state-of-the-art comprehensive report outlining the current status and research needs in life-cycle of civil structure and infrastructure systems. This book is a valuable resource to engineers, managers, and government agencies concerned with life-cycle design and maintenance of civil structures and infrastructure systems.

American Society of Civil Engineers

CIVIL ENGINEERING METHODS FOR PRECIPITATION UNDER A CHANGING CLIMATE
Edited by J. Roif Olsen & Kelsey T. Adamec
Feb 2020 144pp
9780784415528 Paperback £105.00 / €124.00
Contains seven peer-reviewed papers on engineering design for precipitation extremes. Topics include engineering methods for designing for and managing precipitation extremes and floods, approaches to uncertainty and acceptable risk, and interactions with climate scientists on engineering needs for climate information and projections.

American Society of Civil Engineers

EARTHQUAKE RESISTANT DESIGN OF STRUCTURE
Mohamad Parvez Alam
May 2020 350pp
9781783324040 Hardback £59.95 / €75.00
Provides all the information that civil engineers and architects will need to know when designing structures in Earthquake zones, including: dynamics of structures; seismic response to single degree of freedom systems; seismic design philosophy; seismic retrofit methods; and response spectrum and time history analysis.

Only for sale in Eastern Europe

American Society of Civil Engineers
OFFSHORE TECHNOLOGY IN CIVIL ENGINEERING

Hall of Fame Papers
Edited by J. S. Templeton & Alan G. Young
Nov 2019 100pp
9780784415399 Paperback £87.50 / €100.00
This is the fourteenth volume in a series of publications containing classic papers of the Offshore Technology Conference (OTC). The engineering innovations presented in these papers have proven their value through widespread use, permeating codes, standards, guidelines, and engineering software.

RECOMMENDED PRACTICE FOR FIBER-REINFORCED POLYMER PRODUCTS FOR OVERHEAD UTILITY LINE STRUCTURES

Second Edition
Task Committee on Fiber-Reinforced Polymer Products for Overhead Utility Line Structures
Nov 2019 236pp
9780784415443 Paperback £152.00 / €175.00
Manuals and Reports on Engineering Practice, Vol. 104
The second edition of MOP 104 details best practices for the use of fiber-reinforced polymer (FRP) composite poles and crossarms in resilient conductor support applications. This new edition updates and expands on nearly every aspect of FRP pole and crossarm testing, design considerations, installation, and asset management.

RISK-BASED STRUCTURAL EVALUATION METHODS

Best Practices and Development of Standards
Edited by Michel Ghosn et al
Dec 2019 186pp
9780784415474 Paperback £108.00 / €125.00
Provides a comprehensive summary of the findings from a survey of attitudes of researchers, structural engineers, and government agencies to risk-informed structural engineering practices and a follow-up workshop.

SEISMIC LOADS

Guide to the Seismic Load Provisions of ASCE 7-16
Finley A. Charney, Thomas F. Heasler & Justin D. Marshall
Mar 2020 186pp
9780784415504 Paperback £99.95 / €118.00
Provides clear, authoritative explanations of the seismic design provisions contained in Minimum Design Loads and Associated Criteria for Buildings and Other Structures, ASCE/SEI 7-16. When used with the standard commentary, this book assists structural engineers in applying the latest thinking in seismic design of new building structures.

SUBSURFACE UTILITY ENGINEERING FOR MUNICIPALITIES

Prequalification Criteria and Scope of Work Guide
Edited by James H. Anspach & C. Paul Scott
Jul 2019 98pp
9780784415368 Paperback £76.50 / €88.00
A resource for understanding subsurface utility engineering (SUE) and bringing up-to-date practices to the application of SUE for public works projects. This report will be a valuable resource for engineers, contractors, and project owners working to improve the quality and efficiency of public work projects.

WIND LOADS

Guide to the Wind Load Provisions of ASCE 7-16
William L. Coulbourne & T. Eric Stafford
Jan 2020 277pp
9780784415269 Paperback £92.50 / €106.00
Provides a comprehensive overview of the wind load provisions in Minimum Design Loads and Associated Criteria for Buildings and Other Structures, ASCE/SEI 7-16. The authors focus on the provisions that affect the planning, design, and construction of buildings for residential and commercial purposes.

ESSENTIALS OF CIVIL ENGINEERING MATERIALS

Steven W. Cranford et al
Dec 2019 286pp
9781516588039 Paperback £95.50 / €114.00
Provides students with a foundational guide to the types of materials used in civil engineering, as well as how these materials behave under the conditions for which they were designed and a basic understanding of the science of the materials. This critical knowledge prepares students to carefully consider and confidently select the best materials for the design, construction, and maintenance of future projects.
DEVELOPING ECO-CITIES THROUGH POLICY, PLANNING, AND INNOVATION
Can It Really Work?
Edited by Information Resources Management Association
Nov 2019 350pp
9781799804413 Hardback £184.00 / €215.00
Examines the economic, political, social, and environmental objectives essential to the planning and support of future communities. The publication highlights a range of topics such as environmental sustainability, waste management, and green cities.

GREEN BUILDING MANAGEMENT AND SMART AUTOMATION
Edited by Arun Solanki & Anand Nayyar
May 2019 300pp
9781522597544 Hardback £203.00 / €237.00
Provides an in-depth analysis of design technologies for green building and highlights the smart automation technologies that help in energy conservation, along with various performance metrics that are necessary to facilitate a building to be known as a “Green Smart Building”.

IMPACT OF INDUSTRY 4.0 ON ARCHITECTURE AND CULTURAL HERITAGE
Edited by Cecilia Maria Bolognesi & Cettina Santagati
Dec 2019 350pp
9781799812340 Hardback £212.00 / €248.00
Provides research on the application of new technological tools, such as digital modelling, within architectural design, and improves the understanding of the strategic role of Industry 4.0 as a tool to empower the role of architecture and cultural heritage in society.

IOT ARCHITECTURES, MODELS, AND PLATFORMS FOR SMART CITY APPLICATIONS
Edited by Bhawani Shankar Chowdhry, Faisal Karim Shaikh & Naeem Ahmed Mahoto
Dec 2019 350pp
9781799812531 Hardback £231.00 / €270.00
Provides emerging research exploring the theoretical and practical aspects of transforming cities into intelligent systems using IoT-based design models and sustainable development projects. The publication looks at how cities can be built as smart cities within limited resources and existing advanced technologies.
MEGACITIES AND RAPID URBANIZATION

Breakthroughs in Research and Practice
Edition by Information Resources Management Association
May 2019 525pp
9781522592761 Hardback £326.00 / €380.00

Examines trends, challenges, issues, and strategies related to population growth and rapid urbanization and its impact on urban environments. This book also explores the use of different governance approaches in addressing challenges and different tools and systems of appropriate allocation to address issues.

URBAN-RURAL SYNERGY DEVELOPMENT THROUGH HOUSING, LANDSCAPE, AND TOURISM

Edition by Aleksandra Krsti-Furundi et al
Nov 2019 365pp
9781522599326 Hardback £260.00 / €303.00

Focuses on the applications and challenges of creating cooperation between urban and rural areas along various fields. The book highlights a range of topics, including suburbanization, weekend-residence zones, and homeostasis.

BUILDING MATERIALS

Ravi Kumar Sharma
Nov 2019 332pp
9789386768667 Paperback £29.50 / €34.00

Presents in-depth knowledge to the students about building materials. The book deals with all the relevant information regarding stones, bricks and tiles, lime, cement, aggregates, mortar and concrete, timber, metals, paint and varnish, bituminous products, and miscellaneous materials.

BESTSELLERS

American Society of Civil Engineers

MONITORING DAM PERFORMANCE

Instrumentation and Measurements Task Committee to Revise Guidelines for Dam Instrumentation
Edition by Kim de Rubertis
2018 440pp
9780784414828 Hardback £189.00 / €224.00

Manuals and Reports on Engineering Practice, Vol. 135

Presents the fundamentals and current state of practice of instrumented measurements for monitoring dam performance.

WIND-BORNE DEBRIS HAZARDS

Edited by Nigel Berkeley Kaye
2018 168pp
9780784414965 Paperback £115.00 / €137.00

Provides a concise summary of the current state of knowledge on all aspects of wind-borne debris damage.

ANALYSIS AND DESIGN PRACTICE OF HYDRAULIC CONCRETE STRUCTURES

Second Edition
Karuna Moy Ghosh
2013 180pp
9788120345942 Paperback £9.50 / €11.00

Provides a comprehensive description of the analysis and design process of some hydraulic concrete structures designed to retain and contain aqueous liquid.
A HANDBOOK OF PRACTICALS IN MATHEMATICA
Amita Sethi Tanvi
Jan 2020 200pp
9788184876963 Hardback £49.95 / €63.00
Provides the graphical vision of many functions of branches of mathematics, such as analysis, differential equations, mathematical modelling and calculus. An innovation is the introduction of dynamic user interface elements with commands, through which a user can see the behaviour of the function with change in a given parameter.

INTELLIGENT COMPUTING AND SIGNAL PROCESSING
Edited by R. Rajesh, T.M. Thasleema, V. Kumar & N.S. Manohar
Jan 2020 300pp
9788184876918 Hardback £49.95 / €63.00
Computer science is a fast-growing field which has now applications across disciplines. AI will never replace human beings, but definitely it will provide all types of necessary support/service in all forms to common man to make their work easier. This book discusses artificial intelligence in detail.

AN INTRODUCTION TO SYSTEM SOFTWARE
Devinder Kaur
Jan 2020 175pp
9781783325382 Hardback £32.95 / €42.00
Provides an introduction to, and the role of, various softwares needed to execute a program. The internal workings of each of these softwares is also provided. In order to explain the concepts, flowcharts, tables, diagrams and assembly language program examples are given.

SYSTEMS AND SOFTWARE PROCESS
Brijendra Singh & Shikha Gautam
Jan 2020 400pp
9781783324125 Hardback £59.95 / €75.00
Provides an introduction to the subject with a brief history and a general outline of systems and software process. The book also provides an overview of situational factors that affect software process and analyze how situational factors affect the same.

Due to the growing use of web applications and communication devices, the use of data has increased throughout various industries. This book is a vital reference source that trends in data analytics and potential technologies that will facilitate insight in various domains of science, industry, business, and consumer applications. It also explores the latest concepts, algorithms, and techniques of deep learning and data mining and analysis. latest trends in the field of deep learning.

Only for sale in Eastern Europe

DEEP LEARNING AND NEURAL NETWORKS
Concepts, Methodologies, Tools, and Applications
Edited by Information Resources Management Association
Nov 2019 725pp, three volumes
9781799804147 Hardback £249.00 / €270.00

Due to the growing use of web applications and communication devices, the use of data has increased throughout various industries. This book is a vital reference source that trends in data analytics and potential technologies that will facilitate insight in various domains of science, industry, business, and consumer applications. It also explores the latest concepts, algorithms, and techniques of deep learning and data mining and analysis. latest trends in the field of deep learning.

Only for sale in Eastern Europe

FINITE ELEMENT ANALYSIS WITH PATRAN / MSC NASTRAN
Pramote Dechaumphai & Sedthawat Sucharitwatskul
Jan 2020 248pp
9781783325412 Hardback £79.95 / €100.00
This book is written for beginners who want to use MSC Nastran while learning the finite element method. It shows how to use Patran/MSC Nastran software to analyse different classes of solid mechanics problems, step-by-step, so that readers can follow and understand them easily.

Only for sale in Eastern Europe
UNDERSTANDING AUTOMATA, FORMAL LANGUAGES AND GRAMMAR
V. Ravi Sankar
Jan 2020 200pp
9781783325450 Hardback £34.95 / €44.00
Aimed at the current generation of students who expect a "keep it simple" approach, concepts are explained in an easy to understand, stepwise manner. Solved examples from previous years' question papers are included.

MACHINE VISION AND IMAGE RECOGNITION
Edited by Jovan Pehcevski
Nov 2019 290pp
9781774073551 Hardback £166.00 / €192.00
Explains the behaviour fusion for visually guided service robots and the approaches and limitations to achieving vision in machines. The book covers the use of beacon trackers for dynamic omnidirectional vision localization, and explains the QoE assessment of will transmission.

DEEP NEURAL NETWORKS AND APPLICATIONS
Ivan Stanimirovic
Nov 2019 290pp
9781774073452 Hardback £166.00 / €192.00
Presents various artificial neural networks (ANN) and the topologies related to main neural networks (MNN). The book throws light on the prospect of artificial intelligence and the applications it has in risk management.

ALGORITHMS IN ACTION
Victor Savvich
Feb 2020 190pp
9781516535064 Paperback £73.50 / €87.00
Effectively introduces students to a variety of techniques for designing algorithms with a focus on developing intuitive understanding. Readers learn how to successfully construct foundational algorithms, preparing them for more advanced courses in the discipline, as well as professional application.

FUNDAMENTALS OF MACHINE LEARNING USING PYTHON
Euan Russano & Elaine Ferreira Avelino
Nov 2019 290pp
9781774073650 Hardback £166.00 / €192.00
Discusses the basics of python, use of python in computing, and provides a general outlook on machine learning. The book also gives an insight into concepts such as linear regression with one variable, linear algebra, and linear regression with multiple inputs.

ADVANCED MULTI-INDUSTRY APPLICATIONS OF BIG DATA CLUSTERING AND MACHINE LEARNING
Edited by Fausto Pedro Garcia Marquez
Nov 2019 300pp
9781799801061 Hardback £269.00 / €314.00
Synthesizes the analytic principles of clustering and machine learning to big data and provides an interface between the main disciplines of engineering / technology and the organisational, administrative, and planning abilities of management.

HUMAN-COMPUTER INTERACTION
Edited by Zoran Gacovski
Nov 2019 290pp
9781774073483 Hardback £166.00 / €192.00
Offers an introduction to the development of human-computer interaction methods. The book includes the development and preliminary investigation of a semiautonomous socially assistive robot and ergonomic design of human-CNC machine interface. It also discusses real-world applications of HCI techniques.

AI AND BIG DATA’S POTENTIAL FOR DISRUPTIVE INNOVATION
Edited by Moses Strydom & Sheryl Buckley
Nov 2019 380pp
9781522596875 Hardback £212.00 / €248.00
Provides emerging research exploring the theoretical and practical aspects of successfully implementing new and innovative technologies in a variety of sectors including business, transportation, and healthcare.

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IGI Global
AI TECHNIQUES FOR RELIABILITY PREDICTION FOR ELECTRONIC COMPONENTS  
Edited by Cherry Bhargava  
Dec 2019 365pp  
9781799814641 Hardback £212.00 / €248.00  
Provides emerging research exploring the theoretical and practical aspects of prediction methods using artificial intelligence and machine learning in the manufacturing field. The book features coverage on a broad range of topics, including data collection, fault tolerance, and health prognostics.

APPLICATIONS AND APPROACHES TO OBJECT-ORIENTED SOFTWARE DESIGN  
Emerging Research and Opportunities  
Edited by Zeynep Altan  
Nov 2019 200pp  
9781799821427 Hardback £184.00 / €215.00  
Provides research on the development of modern software practices that impact maintenance, design, and developer productivity. While highlighting topics such as augmented reality, distributed computing, and big data processing, this publication explores the current infrastructure of software systems as well as future advances.

APPLIED ARTIFICIAL INTELLIGENCE FOR BUSINESS DEVELOPMENT  
Edited by Matthias Lederer & Werner Schmidt  
Nov 2019 300pp  
9781799811206 Hardback £222.00 / €259.00  
Presents a collection of innovative research on applying AI techniques, methods, and tools within businesses, and includes examples of how AI is embedded in products and services. The book features topics including organisational learning, consumer behaviour, and business intelligence.

ARCHITECTURE AND SECURITY ISSUES IN FOG COMPUTING APPLICATIONS  
Edited by Sam Goundar, S. Bharath Bhushan & Praveen Kumar Rayani  
Nov 2019 300pp  
9781799801948 Hardback £203.00 / €237.00  
Presents research on the architectural complications of fog processing, focusing on security and privacy issues in intelligent fog applications. Highlighting topics such as machine learning, cyber-physical systems, and security applications, this publication explores the architecture of intelligent fog applications enabled with machine learning.

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING APPLICATIONS IN CIVIL, MECHANICAL, AND INDUSTRIAL ENGINEERING  
Edited by Gebrail Bekda, Sinan Melih Nigdeli & Melda Yücel  
Nov 2019 350pp  
9781799803010 Hardback £212.00 / €248.00  
Presents innovative research on the methods and implementation of machine learning and AI in multiple facets of engineering. Highlighting topics including control devices, geotechnology, and artificial neural networks, this book is designed for engineers, academics, researchers, practitioners, and students.

AVATAR-BASED CONTROL, ESTIMATION, COMMUNICATIONS, AND DEVELOPMENT OF NEURON MULTI-FUNCTIONAL TECHNOLOGY PLATFORMS  
Edited by Vardan Mkrttchian, Ekaterina Aleshina & Leyla Gamidullaeva  
Dec 2019 360pp  
9781799815815 Hardback £231.00 / €270.00  
Presents research on the application of artificial and natural approaches towards neuron-based programs. The publication features coverage on a range of topics, including natural intelligence, neurolinguistics, and smart data storage.

BIG DATA ANALYTICS FOR SUSTAINABLE COMPUTING  
Edited by Anandakumar Haldorai & Arulmurugan Ramu  
Nov 2019 350pp  
9781522597506 Hardback £231.00 / €270.00  
Focuses on new computing and system development issues in emerging sustainable applications. The publication features coverage on a wide range of topics, including data filtering, knowledge engineering, and cognitive analytics.

CHALLENGES AND APPLICATIONS FOR IMPLEMENTING MACHINE LEARNING IN COMPUTER VISION  
Edited by Ramgopal Kashyap & A.V. Senthil Kumar  
Nov 2019 300pp  
9781799801825 Hardback £184.00 / €215.00  
Presents research that combines theory and practice on adopting the latest deep learning advancements for machines capable of visual processing. The book highlights a wide range of topics such as video segmentation, object recognition, and 3D modelling.
CLOUD COMPUTING APPLICATIONS AND TECHNIQUES FOR E-COMMERCE
Edited by Saikat Gochhait, David Tawei Shou & Sabihah Fazalbhoy
Dec 2019 300pp
9781799812944 Hardback £231.00 / €270.00
Discusses the implementation of data and cloud technology within the fields of business and information management. The book features research on various topics, including content delivery networks, virtualization, and software resources.

CONTROL AND SIGNAL PROCESSING APPLICATIONS FOR MOBILE AND AERIAL ROBOTIC SYSTEMS
Edited by Oleg Sergiyenko et al
Nov 2019 340pp
9781522599241 Hardback £212.00 / €248.00
Provides vital research on the current state of control and signal processing of portable robotic designs. While highlighting topics such as digital systems, control theory, and mathematical methods, this publication explores original inquiry contributions and the instrumentation of mechanical systems in the industrial and scientific fields.

CRITICAL CONCEPTS, STANDARDS, AND TECHNIQUES IN CYBER FORENSICS
Edited by Mohammad Shahid Husain & Mohammad Zunnun Khan
Nov 2019 300pp
9781799815587 Hardback £212.00 / €248.00
Focuses on providing in-depth knowledge about online forensic practices and methods. Highlighting a range of topics such as data mining, digital evidence, and fraud investigation, this book is aimed at security analysts, IT specialists, researchers, security professionals, criminal science professionals, policymakers, academics, and students.

CROWDSOURCING AND PROBABILISTIC DECISION-MAKING IN SOFTWARE ENGINEERING
Emerging Research and Opportunities
Edited by Varun Gupta
Nov 2019 205pp
9781522596592 Hardback £189.00 / €220.00
Provides vital research on the application of crowd-based software engineering and supports software engineers who want to improve the manner in which software is developed by increasing the accuracy of probabilistic reasoning to support their decision-making and getting automation support.

DEEP LEARNING TECHNIQUES AND OPTIMIZATION STRATEGIES IN BIG DATA ANALYTICS
Edited by J. Joshua Thomas et al
Nov 2019 380pp
9781799811923 Hardback £231.00 / €270.00
Presents research on the methods and applications of deep learning strategies in the fields of computer science and information systems. Coverage includes data integration, computational modeling, and scheduling systems.

DESIGN AND OPTIMIZATION OF SENSORS AND ANTENNAS FOR WEARABLE DEVICES
Edited by Vinod Kumar Singh et al
Nov 2019 300pp
9781522596837 Hardback £203.00 / €237.00
Provides innovative insights on the development of adaptable materials and textile antennas that can be used in the construction of wearable devices that are biocompatible and offer high conductivity, low cost, simplistic manufacturing, are comfortable for the wearer, and are water/climate safe and condition amicable.

EXAMINING FRACTAL IMAGE PROCESSING AND ANALYSIS
Edited by Soumya Ranjan Nayak & Jibitesh Mishra
Nov 2019 350pp
9781799800668 Hardback £231.00 / €270.00
Discusses fractal theory applications and analysis, including box-counting analysis, multi-fractal analysis, 3D fractal analysis, and chaos theory, as well as recent trends in other soft computing techniques. The book features research on topics such as image compression, pattern matching, and artificial neural networks.

EXAMINING THE ROLES OF IT AND SOCIAL MEDIA IN DEMOCRATIC DEVELOPMENT AND SOCIAL CHANGE
Edited by Vikas Kumar & Geetika Malhotra
Nov 2019 380pp
9781799817918 Hardback £184.00 / €215.00
Presents research on the methods and applications of social media within community development and democracy. The book highlights a range of topics, including information capitalism, ethical issues, and e-governance.
FEATURE EXTRACTION AND CLASSIFICATION TECHNIQUES FOR TEXT RECOGNITION
Edited by Munish Kumar et al
Jan 2020 300pp
9781799824060 Hardback £212.00 / €248.00

Presents innovative research on the fusion and hybridization of various features and classifiers for document analysis and recognition. The book highlights a range of topics, including adaptive boosting, writer identification, and signature verification.

FORENSIC INVESTIGATIONS AND RISK MANAGEMENT IN MOBILE AND WIRELESS COMMUNICATIONS
Edited by Kavita Sharma et al
Nov 2019 300pp
9781522595540 Hardback £184.00 / €215.00

Presents research on the methods and applications of analysing mobile devices and data for collection of information pertaining to the legal evidence related to various security breaches and intrusion detection. The book explores topics including cybercrime, neural networks, and smartphone security.

FPGA ALGORITHMS AND APPLICATIONS IN THE IOT, AI, AND HIGH-PERFORMANCE COMPUTING
Edited by Ching Wa Daniel Ng
Nov 2019 300pp
9781522598060 Hardback £203.00 / €237.00

Provides research exploring the theoretical and practical aspects of computable algorithms and applications within robotics and electronics development. Featuring coverage on topics such as neuroscience, bioinformatics, and artificial intelligence, this book is designed for computer science specialists, researchers, academics, and students.

FUNDAMENTAL AND SUPPORTIVE TECHNOLOGIES FOR 5G MOBILE NETWORKS
Edited by Sherine Mohamed Abd El-Kader & Hanan Hussein
Nov 2019 350pp
9781799811527 Hardback £212.00 / €248.00

Provides detailed research on technologies used in 5G, their benefits, practical designs, and recent challenges and focuses on future applications that could exploit 5G network benefits. The publication examines cellular communication, data transmission, and high-speed communication.

GRAPHICAL THINKING FOR SCIENCE AND TECHNOLOGY THROUGH KNOWLEDGE VISUALIZATION
Anna Ursyn
Nov 2019 300pp
9781799816515 Hardback £212.00 / €248.00

Provides emerging research exploring the theoretical and practical aspects of implementing visuals and images within data and information. The text contains projects, examples of students’ solutions, and invites the reader to apply graphical thinking. Coverage includes nanoscale structures, computer graphics, and data visualization.

HANDBOOK OF RESEARCH ON ADVANCED APPLICATIONS OF GRAPH THEORY IN MODERN SOCIETY
Edited by Madhumangal Pal, Sovan Samanta & Anita Pal
Nov 2019 390pp
9781522593805 Hardback £231.00 / €270.00

Discusses recent developments on graph theory, as well as its representation in social networks, artificial neural networks, and many complex networks. The book studies results that are useful in the fields of robotics and machine learning and will examine different engineering issues that are closely related to fuzzy graph theory.

HANDBOOK OF RESEARCH ON APPLICATIONS AND IMPLEMENTATIONS OF MACHINE LEARNING TECHNIQUES
Edited by Sathiyamoorthi Velayutham
Nov 2019 450pp
9781522599029 Hardback £279.00 / €325.00

Provides innovative insights into the multi-disciplinary applications of machine learning algorithms for data analytics. This publication examines disease identification, neural networks, and language support, and is designed for professionals, developers, data analysts, technology specialists, practitioners, researchers, academics, and student.

HANDBOOK OF RESEARCH ON EMERGING TRENDS AND APPLICATIONS OF MACHINE LEARNING
Edited by Arun Solanki, Sandeep Kumar & Anand Nayyar
Dec 2019 1000pp, two volumes
9781522596431 Hardback £354.00 / €413.00

Provides a high-level understanding of various machine learning algorithms along with modern tools and techniques using Artificial Intelligence. In addition, the book explores the critical role that machine learning plays in a variety of professional fields including healthcare, business, and computer science.
HANDBOOK OF RESEARCH ON FIREWORKS ALGORITHMS AND SWARM INTELLIGENCE  
Edited by Ying Tan  
Dec 2019 400pp  
9781799816591 Hardback £279.00 / €325.00  
Provides vital research on theory analysis, improvements, and applications of fireworks algorithm. While highlighting topics such as convergence rate, parameter applications, and global optimization analysis, this publication explores up-to-date progress on the specific techniques of this algorithm.

HANDBOOK OF RESEARCH ON THE INTERNET OF THINGS APPLICATIONS IN ROBOTICS AND AUTOMATION  
Edited by Rajesh Singh et al  
Aug 2019 650pp  
9781522595748 Hardback £279.00 / €325.00  
Discusses the methods and uses of advancing IoT technology. Highlighting topics including traffic information systems, home security, and automatic parking, this book is aimed at network analysts, telecommunication system designers, engineers, academicians, technology specialists, practitioners, researchers, students, and software developers.

HANDBOOK OF RESEARCH ON MACHINE AND DEEP LEARNING APPLICATIONS FOR CYBER SECURITY  
Edited by Padmavathi Ganapathi & D. Shanmugapriya  
Nov 2019 500pp  
9781522596110 Hardback £279.00 / €325.00  
Provides vital research on the application of machine learning techniques for network security research. Highlighting topics such as web security, malware detection, and secure information sharing, this publication explores recent research findings in the area of electronic security and challenges and countermeasures in cyber security research.

INFORMATION DIFFUSION MANAGEMENT AND KNOWLEDGE SHARING  
Breakthroughs in Research and Practice  
Edited by Information Resources Management Association  
Nov 2019 525pp  
9781799804178 Hardback £307.00 / €358.00  
Examines the trends, models, challenges, issues, and strategies of information diffusion and management from a global context. The book highlights a range of topics, including influence maximization, information spread control, and social influence.

LANGUAGE AND SPEECH RECOGNITION FOR HUMAN-COMPUTER INTERACTION  
Edited by Amitoj Singh, Munish Kumar & Virender Kadyan  
Nov 2019 225pp  
9781799813897 Hardback £175.00 / €204.00  
Presents research on the methods and applications of natural language processing techniques (NLP) within computer science and programming. Along with discussing the current and future scope of NLP, this book highlights topics including handwriting recognition, acoustic analysis, and forensic document examination.

MANAGING RESOURCES FOR FUTURISTIC WIRELESS NETWORKS  
Edited by Tariq Umer  
Nov 2019 280pp  
9781522594932 Hardback £198.00 / €231.00  
Provides essential research on the role of Vehicular Ad-Hoc Networks (VANET)-focused communication technologies as a method of resource management and safety promotion. The book also covers issues, algorithms, and solutions for achieving best resource utilization in VANETs.

MODERN PRINCIPLES, PRACTICES, AND ALGORITHMS FOR CLOUD SECURITY  
Edited by Brij B. Gupta  
Nov 2019 290pp  
9781799810827 Hardback £184.00 / €215.00  
Provides research on the application of privacy and security in cloud computing. While highlighting topics such as chaos theory, soft computing, and cloud forensics, this publication explores present techniques and methodologies, as well as current trends in cloud protection.

NATURAL LANGUAGE PROCESSING Concepts, Methodologies, Tools, and Applications  
Edited by Information Resources Management Association  
Nov 2019 1700pp, three volumes  
9781799809517 Hardback £1999.00 / €2450.00  
Explores the latest concepts, processes, and techniques for communication between computers and humans. Highlighting a range of topics such as machine learning, computational linguistics, and semantic analysis, this multi-volume book is designed for computer engineers, software developers, IT professionals, academicians, researchers, and students.
NATURE-INSPIRED COMPUTING APPLICATIONS IN ADVANCED COMMUNICATION NETWORKS
Edited by Govind P. Gupta
Dec 2019 302pp
9781799816263 Hardback £212.00 / €248.00

Presents research on the methods and applications of natural computation techniques and algorithms within communication systems such as wireless sensor networks, vehicular adhoc networks, and internet of things. The book highlights a range of topics, including mobile sensor deployment, routing optimization, and sleep scheduling.

NEURAL NETWORKS FOR NATURAL LANGUAGE PROCESSING
Edited by Sumathi S & Janani M
Nov 2019 310pp
9781799811596 Hardback £222.00 / €259.00

Presents research on the methods and applications of linguistic information processing and its computational properties. Coverage includes performing sentence classification and language generation using neural networks, learning models to solve machine translation and conversation problems, and semantic models on information retrieval.

NOVEL APPROACHES TO INFORMATION SYSTEMS DESIGN
Edited by Naveen Prakash & Deepika Prakash
Jan 2020 300pp
9781799829751 Hardback £203.00 / €237.00

Explores the most recent, cutting-edge research in information systems and exposes the reader to emerging but relatively mature models and techniques in the area. The book highlights a wide range of topics, including big data, business intelligence, and energy efficiency.

SECURITY AND PRIVACY ISSUES IN SENSOR NETWORKS AND IOT
Edited by Priyanka Ahlawat & Mayank Dave
Nov 2019 311pp
9781799803737 Hardback £184.00 / €215.00

Presents innovative research on the methods and applications of protection disputes in the internet of things and other computing structures. The book highlights a range of topics, including cyber defense, digital forensics, and intrusion detection.

SHAPING THE FUTURE THROUGH STANDARDIZATION
Edited by Kai Jakobs
Dec 2019 300pp
9781799821816 Hardback £212.00 / €248.00

Examines quality and standardization within diverse organisations globally, with a special focus on future perspectives, including how standards and standardization may shape the future. The book features a wide range of topics, such as economics, pedagogy, and management.

SOFT COMPUTING METHODS FOR SYSTEM DEPENDABILITY
Edited by Mohamed Arezki Mellal
Dec 2019 300pp
9781799817185 Hardback £212.00 / €248.00

Presents innovative research on the applications of processing techniques for solving problems within the dependability of computer system performance. The book features comparative experiences shared by researchers regarding the development of these technological solutions.

TOOLS AND TECHNOLOGIES FOR THE DEVELOPMENT OF CYBER-PHYSICAL SYSTEMS
Edited by Sergey Balandin & Ekaterina Balandina
Dec 2019 300pp
9781799819745 Hardback £222.00 / €259.00

Discusses recent advances of cyber-physical systems and its application within the health, information, and computer science industries. The book features research on a range of topics, including autonomous agents, power supply methods, and software assessment.

Morgan & Claypool Publishers

COGNITIVE FUSION FOR TARGET TRACKING
Ioannis Kyriakides
Nov 2019 65pp
9781681736655 Paperback £34.95 / €41.00
9781681736679 Hardback £54.95 / €64.00

Synthesis Lectures on Algorithms and Software in Engineering

Reviews cognitive systems and presents a cognitive fusion framework for sequential state estimation using adaptive configuration of heterogeneous sensing nodes and heterogeneous data fusion. This work also provides an application of cognitive fusion to the sequential estimation problem of target tracking using foveal and radar sensors.
COMMUNITY SEARCH OVER BIG GRAPHS
Xin Huang, Laks V.S. Lakshmanan & Jianliang Xu
Aug 2019 206pp
9781681735955 Paperback £81.50 / €93.00
9781681735979 Hardback £100.00 / €116.00
Reviews the basic concepts of networks, communities, and various kinds of dense subgraph models. The authors then survey the state of the art in community search techniques on various kinds of networks across different application areas.

INNOVATIONS IN THE MEMORY SYSTEM
Rajeev Balasubramonian
Nov 2019 151pp
9781627056427 Paperback £69.95 / €82.00
9781681736174 Hardback £91.50 / €105.00
Synthesis Lectures on Computer Architecture
Offers a tour through recent and prominent works regarding new DRAM chip designs and technologies, near data processing approaches, new memory channel architectures, techniques to tolerate the overheads of refresh and fault tolerance, security attacks and mitigations, and memory scheduling.

COMPATIBILITY MODELING
Data and Knowledge Applications for Clothing Matching
Xuemeng Song, Liqiang Nie & Yinglong Wang
Oct 2019 138pp
9781681736686 Paperback £59.95 / €70.00
9781681736709 Hardback £81.50 / €93.00
Synthesis Lectures on Information Concepts, Retrieval, and Services
Sheds light on several state-of-the-art theories on compatibility modeling. In particular, to facilitate the research, the authors build three large-scale benchmark datasets from different online fashion websites, and then introduce a general data-driven compatibility modeling scheme based on advanced neural networks.

MULTIMODAL LEARNING TOWARD MICRO-VIDEO UNDERSTANDING
Liqiang Nie, Meng Liu & Xuemeng Song
Sep 2019 186pp
9781681736280 Paperback £81.50 / €93.00
9781681736303 Hardback £100.00 / €116.00
Synthesis Lectures on Image, Video, and Multimedia Processing
Proposes some state-of-the-art multimodal learning theories. To demonstrate the effectiveness of these models, the authors apply them to three practical tasks of micro-video understanding: popularity prediction, venue category estimation, and micro-video routing.

GENERAL VIDEO GAME ARTIFICIAL INTELLIGENCE
Diego Pérez Liébana et al
Nov 2019 191pp
9781681736440 Paperback £74.95 / €87.00
9781681736464 Hardback £96.50 / €111.00
Synthesis Lectures on Games and Computational Intelligence
The general video game AI framework and competition propose a challenge in which researchers can test their favourite AI methods with a potentially infinite number of games created using the Video Game Description Language. This book showcases work on methods to play the games, generators of content, and video game optimization.

VIDEO STRUCTURE MEANING
Brian C. O’Connor & Richard L. Anderson
Nov 2019 99pp
9781681736471 Paperback £39.95 / €47.00
9781681736495 Hardback £59.95 / €70.00
Synthesis Lectures on Information Concepts, Retrieval, and Services
Argues that analysis of the signal set across the evolution of film - from Edison to Hollywood to Brakhage to cats on social media - yields a common ontology with instantiations (responses to changes in coding and decoding antecedents).
HIGHER-ORDER FOURIER ANALYSIS AND APPLICATIONS
Hamed Hatami, Pooya Hatami & Shachar Lovett
Sep 2019 230pp
9781680835922 Paperback £83.95 / €98.00
Foundations and Trends® in Theoretical Computer Science
Provides an introduction to the field of higher-order Fourier analysis with an emphasis on its applications to theoretical computer science. Higher-order Fourier analysis is an extension of the classical Fourier analysis.

INFORMATION RETRIEVAL
The Early Years
Donna Harman
Jul 2019 166pp
9781680835847 Paperback £83.95 / €98.00
Foundations and Trends® in Information Retrieval
In this concise history of the early years of information retrieval, Donna Harman, one of the pioneers of the field, provides the reader with a plethora of insights into the important work that led us to where we are today. Written in a chronological order, this book lays out how each contribution built on what went before.

LINE DRAWINGS FROM 3D MODELS
A Tutorial
Pierre Bénard & Aaron Hertzmann
Nov 2019 184pp
9781680835908 Paperback £83.95 / €98.00
Foundations and Trends® in Computer Graphics and Vision
Provides a detailed guide to the mathematical theory and computer algorithms for line drawing of 3D objects. The book focuses on the curves known as contours as they are the most important curves for line drawing of 3D surfaces. The authors describe the different algorithms required to compute and render these curves.

COMPUTER PROGRAMMING IN C
Second Edition
V. Rajaraman
Nov 2019 277pp
9789388028332 Paperback £19.50 / €22.00
Introduces computer programming to a beginner using the programming language C. The book introduces the basic aspects of C to enable the student to quickly start writing C programmes. It is eminently suitable for undergraduate and postgraduate students of computer science / engineering.

PLUNKETT’S ARTIFICIAL INTELLIGENCE (AI) & MACHINE LEARNING INDUSTRY ALMANAC 2020
Jack W. Plunkett
Feb 2020 255pp
9781628315547 Paperback £305.00 / €345.00
Plunkett’s Industry Almanacs
Artificial Intelligence is being fuelled by the ever-growing speed and power of computers and software. This power has increased to the extent that software can learn from experience, by constantly analysing data and results until the software can make accurate interpretations of data and conditions on its own.

PLUNKETT’S COMPUTERS, HARDWARE & SOFTWARE INDUSTRY ALMANAC 2020
Jack W. Plunkett
Feb 2020 255pp
9781628315226 Paperback £305.00 / €345.00
Plunkett’s Industry Almanacs
Presents a complete analysis of the technology business, including hardware, software, networks, computers, peripherals, services and global trade. This market research tool includes Plunkett’s analysis of the major trends affecting the industry. In addition, it provides major statistical tables covering the industry.
PLUNKETT'S TELECOMMUNICATIONS INDUSTRY ALMANAC 2020
Jack W. Plunkett
Jul 2019 505pp
9781628315417 Paperback £305.00 / €345.00
Plunkett’s Industry Almanacs
A complete market research guide to the telecommunications industry—a tool for strategic planning, competitive intelligence, employment searches or financial research. Features our famous trends analysis, technologies, statistical tables and glossary.

APPLIED DATA ANALYTICS
Principles and Applications
Johnson I. Agbinya
Nov 2019 300pp
9788770220965 Hardback £81.95 / €95.00
River Publishers Series in Signal, Image and Speech Processing
Explores some of the most sought after techniques in big data analytics. Establishing strong foundations in these topics provides practical ease when big data analyses are undertaken using the widely available open source and commercially orientated computation platforms, languages and visualisation systems.

ARTIFICIAL INTELLIGENCE IN WIRELESS ROBOTICS
Kwang-Cheng Chen
Nov 2019 300pp
9788770221184 Hardback £81.95 / €95.00
River Publishers Series in Communications
Robots, autonomous vehicles, unmanned aerial vehicles, and smart factory, will significantly change human living style in digital society. Artificial Intelligence in Wireless Robotics introduces how wireless communications and networking technology enhances facilitation of artificial intelligence in robotics.

FROM ARTIFICIAL INTELLIGENCE TO BRAIN INTELLIGENCE
AI Compute Symposium 2018
Edited by Rajiv Joshi et al
Nov 2019 300pp
9788770221238 Hardback £81.95 / €95.00
Tutorials in Circuits and Systems
To continue the success story of AI, the AI Compute symposium was launched with the sponsorship of IBM, IEEE CAS and EDS for the first time. This publication presents materials presented by the renowned speakers in the symposium into a book format, serving as a learning tool for readers.

SECURITY WITHIN CONASENSE PARAGON
Edited by Ramjee Prasad & Leo P. Ligthart
May 2019 200pp
9788770220927 Hardback £81.95 / €95.00
River Publishers Series in Communications
Describes the cyber security issues in the field of Communication, Navigation, Sensing and Services within the broad platform of CTIF Global Capsule. Coverage includes future technologies, smart cities, crowd computing, reliable and secure communication interface, satellite unnamed air vehicles, and wireless sensor networks.

VISUAL COMMUNICATION FOR CYBERSECURITY
Beyond Awareness to Advocacy
Nicole van Deursen
Nov 2019 300pp
9788770220903 Hardback £64.95 / €75.00
River Publishers Series in Security and Digital Forensics
Explores the possibilities of visual communication as a tool to improve the communication about cyber security and to better connect with non-experts. Visual communication is useful to explain complex topics and to solve complex problems. Visual tools are easy to share through social media and have the possibility to reach a wide audience.

CURRENT TRENDS IN CYBER SECURITY
Edited by Neil Kent & Irina du Quenoy
2019 100pp
9781680534863 Hardback £188.00 / €223.00
Assesses how cyber security affects our lives, businesses, and safety. The contributors - all leaders in their fields - approach cyber security from multiple innovative angles.

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COMPUTING & TELECOMMUNICATIONS

Morgan & Claypool Publishers

**MODEL-DRIVEN SOFTWARE ENGINEERING IN PRACTICE**

*Second Edition*

Marco Brambilla et al  
2017 207pp  
9781627057080 Paperback £68.50 / €81.00  
9781681732336 Hardback £87.50 / €104.00

*Synthesis Lectures on Software Engineering*

Discusses how model-based approaches can improve the daily practice of software professionals. The aim of this book is to provide an agile and flexible tool to introduce you to the MDSE world, allowing readers to understand its basic principles and techniques.

Now Publishers

**COMPUTATIONAL OPTIMAL TRANSPORT**

*With Applications to Data Science*

Gabriel Peyré, Marco Cuturi  
2019 272pp  
9781680835502 Paperback £81.50 / €96.00

*Foundations and Trends® in Machine Learning, Vol. 37*

Presents an overview of the main theoretical insights that support the practical effectiveness of OT before explaining how to turn these insights into fast computational schemes.

ACM Books

**THE ESSENTIALS OF MODERN SOFTWARE ENGINEERING**

*Free the Practices from the Method Prisons!*

Ivar Jacobson et al  
2019 425pp  
9781947487246 Paperback £68.50 / €81.00  
9781947487277 Hardback £87.50 / €104.00

Offers an in-depth introduction to software engineering that uses a systematic, universal kernel to teach the essential elements of all software engineering methods.

**THE VR BOOK**

*Human-Centered Design for Virtual Reality*

Jason Jerald  
2015 523pp  
9781970001129 Paperback £77.95 / €93.00  
9781970001150 Hardback £106.00 / €128.00

There are many causes of bad VR; some failures come from the limitations of technology, but many come from a lack of understanding perception, interaction, design principles, and real users. This book discusses these issues by emphasizing the human element of VR.

PHI Learning

**INTRODUCTION TO INFORMATION TECHNOLOGY**

*Third Edition*

V. Rajaraman  
Mar 2018 400pp  
9789387472297 Paperback £19.50 / €22.00

Emphasizes the fundamental "science" of information technology rather than being a cook book of skills. This book defines IT as the technology that is used to acquire, store, organise, process and disseminate processed data.

River Publishers

**SECURE AND SMART INTERNET OF THINGS (IOT)**

*Using Blockchain and AI*

Ahmed Banafa  
2018 150pp  
9788770220309 Hardback £77.50 / €90.00

*River Publishers Series in Information Science and Technology*

Explores many aspects of the Internet of Things and explains many of the complicated principles of IoT and the new advances in IoT including using Fog Computing, AI and Blockchain technology.
FIELD GUIDE TO LASER COOLING METHODS
Galina Nemova
Jan 2020 160pp
97815106309574
Spiral bound
£32.95 / €39.00
Field Guides, Vol. 45
Provides an overview of the basic principles of laser cooling of atoms, ions, nanoparticles, and solids, including Doppler cooling, polarization gradient cooling, different sub-recoil schemes of laser cooling, forced evaporation, laser cooling with anti-Stokes fluorescence, hybrid laser cooling, and Raman and Brillouin cooling. The book also covers radiation-balanced lasers and Raman lasers with heat mitigation, and considers the basic principles of optical dipole traps, magnetic traps, and magneto-optical traps.
SPIE Press

POWER QUALITY AND DISTRIBUTED GENERATION
P. Jayaprakash & D.P. Kothari
Jan 2020 300pp
9781783325443 Hardback £59.00 / €74.00
This book is intended as reading material to enhance the fundamentals of power quality issues, standards and various solutions. The importance of power quality in the distributed generation systems is discussed, as are various power quality issues such as sag, swell, interruptions, transients, and harmonics.
Only for sale in Eastern Europe

ELEMENTARY ORGANIC SPECTROSCOPY
Rose Marie O. Mendoza
Nov 2019 290pp
9781774072554 Hardback £166.00 / €192.00
Explores spectroscopy techniques that can be used to analyse certain physical characteristics of organic compounds. The book also discusses ultraviolet-visible spectroscopy, raman spectroscopy, nuclear magnetic resonance spectroscopy, mass and infrared spectrometry and fourier transform infrared spectroscopy.

INTRODUCTION TO ELECTRICAL MEASUREMENTS
SachchidaNand Shukla
Nov 2019 290pp
9781774073230 Paperback £96.50 / €111.00
Discusses the basic concept of measurement systems, along with the principles of electrical measurements. The book includes instrumentation, electronic circuits, instrument transformers, AC bridges, and energy and power measurements. It also discusses magnetic force, and analog and digital recorders.

SCIENTIFIC PRINCIPLES AND TECHNIQUE OF OPTICAL FABRICATION PROCESSES
Edited by Maria Emilova Velinova
Nov 2019 290pp
9781774072004 Hardback £171.00 / €198.00
Explores the scientific principles involved in the process of optical fabrication. The book includes design and fabrication of fiber-optic nanoprobes for optical sensing, development of materials for next generation optical fiber, and the research progress of optical fabrication and surface-microstructure modification of sic.

NANOPHOTONICS AND NANOSTRUCTURED FIBER SENSORS
A.B. Maity
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Covers all latest developments of nanophotonic devices as well as nanostructured fiber-optic sensor systems. Moreover, all necessary nanophotonic processes of nanostructured fiber-optic sensor systems and components, nano photodetectors, nano switches, and nano modulators are discussed in detail.
Only for sale in Eastern Europe

Alpha Science International
**MICROELECTRONICS FAILURE ANALYSIS DESK REFERENCE**  
*Seventh Edition*  
*Edited by Tejinder Gandhi*  
Dec 2019 705pp  
9781627082457 Hardback £249.00 / €286.00  
This seventh edition will help engineers improve their ability to verify, isolate, uncover, and identify the root cause of failures. Prepared by a team of experts, this updated reference offers the latest information on advanced failure analysis tools and techniques, illustrated with numerous real-life examples.

**ADVANCED CONTROL THEORY FOR BE, BTECH, ME, MTECH COURSES**  
*Third Edition*  
*Nagoor A. Kani*  
Jan 2020 476pp  
9789389396294 Paperback £13.50 / €16.00  
Designed for universities that teach advance course in control systems. The book presents the topics in an easy to understand manner with thorough explanations and detailed illustrations, to make students understand the basic underlying concepts.

**BASIC ELECTRICAL ENGINEERING**  
*Pradip Kumar Sadhu, Das Soumya & Shiv Prakash Bihari*  
Nov 2019 504pp, images  
9789387964310 Paperback £14.50 / €17.00  
A textbook for all students pursuing studies in engineering. It is equally helpful to practising engineers to understand the theoretical aspects of the subject. This text is easy to read and comprehend, and is stimulating in its direct approach. It covers an extensive range of topics under elementary concept of electrical engineering.

**CONTROL SYSTEMS ENGINEERING**  
*Second Edition*  
*A. Nagoor Kani*  
Jan 2020 859pp  
9789389239003 Paperback £16.50 / €20.00  
Designed for use on courses teaching control systems along with MATLAB programming. This is an easy to understand text with comprehensive explanations that will enable students to understand the basic concepts easily.

**ELECTRODYNAMICS Classical and Quantum**  
*S.L. Kakani & Shubhra Kakani*  
Jan 2020 944pp  
9789389239034 Paperback £23.50 / €28.00  
Deals with the essentials of electrodynamics and incorporates the basic principles and mathematics involved in the subject. This is a self-contained book comprising 18 chapters and 9 appendices written in a cogent style to help the readers grasp the information quickly and easily.

**MODERN CONTROL THEORY**  
*K.R. Varmah*  
Jan 2020 654pp  
9789386217769 Paperback £14.95 / €18.00  
Deals with modern control theory based on state variables and state space. The book presents a basic approach to the design and analysis of continuous time control systems using state space representation. The content of each chapter is well explained with worked out examples to reinforce theory.

**POWER SYSTEM ANALYSIS**  
*A. Nagoor Kani*  
Jan 2020 280pp  
9789389261714 Paperback £9.95 / €12.00  
Provides the fundamentals of power system analysis with detailed illustrations and explanations. The book presents power system analysis, including power system modelling, load flow studies, symmetrical and unsymmetrical fault analyses, and stability analysis. It is principally designed as a self-study material for electrical engineering students.
IGI Global

**Design, Implementation, and Analysis of Next Generation Optical Networks**
Emerging Research and Opportunities
Edited by Waqas Ahmed Imtiaz & Rastislav Róka
May 2019 250pp
9781522597674 Hardback £184.00 / €215.00

Discusses the next generation of high capacity passive optical access networks in terms of design, implementation, and analysis and offers a complete reference of technology solutions for next-generation optical networks. The book features research on topics such as artificial intelligence, electromagnetic interface, and wireless communication.

**Major Applications of Carbon Nanotube Field-Effect Transistors (CNTFET)**
Edited by Balwinder Raj, Mamta Khosla & Amandeep Singh
Dec 2019 300pp
9781799813934 Hardback £175.00 / €204.00

Presents research on the methods and applications of converting semiconductor devices from micron technology to nanotechnology. The book provides an updated status on existing CNTs, CNTFETs, and their applications and examines practical applications to minimize short channel effects and power dissipation in nanoscale devices and circuits.

**New Solutions and Technologies in Electrical Distribution Networks**
Edited by Baseem Khan, Hassan Haes Alhelou & Ghassan Hayek
Dec 2019 370pp
9781799812302 Hardback £255.00 / €297.00

Presents research on the methods and applications of solving major issues within the electrical distribution system. Some issues covered include distribution losses, improper monitoring of systems, renewable energy integration with micro-grid and distributed energy sources, and smart home energy management system modelling.

**Robotic Systems**
Concepts, Methodologies, Tools, and Applications
Edited by Information Resources Management Association
Jan 2020 2250pp, four volumes
9781799817543 Hardback £229.00 / €266.00

Explores the current issues, methodologies, and trends relating to advanced robotic technology in the modern world. This multi-volume book highlights a range of topics such as mechatronics, cybernetics, and human-computer interaction.

**Index Generation Functions**
Tsutomu Sasao
Oct 2019 183pp
9781681736754 Paperback £69.95 / €82.00
9781681736778 Hardback £91.50 / €105.00

Synthesis Lectures on Digital Circuits and Systems

Index generation functions are binary-input integer valued functions. They represent functions of content addressable memories (CAMs). Applications include IP address tables; terminal controllers; URL lists; computer virus scanning circuits; and memory patch circuits. This book shows memory-based realization of index generation functions.

**Microchip AVR® Microcontroller Primer**
Programming and Interfacing, Third Edition
Steven F. Barrett & Daniel J. Pack
Sep 2019 373pp
9781681732046 Paperback £100.00 / €116.00
9781681736235 Hardback £120.00 / €140.00

Synthesis Lectures on Digital Circuits and Systems

Provides practicing scientists and engineers with a primer on the Microchip AVR® microcontroller. The book highlights the popular ATmega164 microcontroller and other pin-for-pin controllers in the family with a complement of flash memory up to 128 KB. It also provides an update on Atmel Studio, programming with a USB pod, and the gcc compiler.
MICROCONTROLLER PROGRAMMING AND INTERFACING WITH TEXAS INSTRUMENTS MSP430FR2433 AND MSP430FR5994

Second Edition
Steven F. Barrett & Daniel J. Pack
Aug 2019 583pp
9781681736242 Paperback £100.00 / €116.00
9781681736273 Hardback £130.00 / €151.00

Synthesis Lectures on Digital Circuits and Systems

Provides a thorough introduction to the Texas Instruments MSP430™ microcontroller. The MSP430 is a 16-bit reduced instruction set (RISC) processor that features ultra-low power consumption and integrated digital and analogue hardware.

TUNABLE MATERIALS WITH APPLICATIONS IN ANTENNAS AND MICROWAVES

John N. Sahalos & George A. Kyriacou
Nov 2019 252pp
9781681736310 Paperback £81.50 / €93.00
9781681736334 Hardback £100.00 / €116.00

Synthesis Lectures on Antennas

With the explosion of the new generation of the wireless world, greater emphasis than ever before is being placed on the analysis and applications of modern materials. This book describes the characteristics of Ferrites and Ferroelectrics and introduces the reader to Multiferroics.

The University of North Carolina Press

FUNDAMENTALS OF MICROWAVE AND RF DESIGN

Third Edition
Michael Steer
Oct 2019 244pp
9781469656885 Paperback £14.95 / €18.00

 Enables mastery of the essential concepts required to cross the barriers to a successful career in microwave and RF design. Extensive treatment of scattering parameters, that naturally describe power flow, and of Smith-chart-based design procedures prepare the student for success.

NC State University

MICROWAVE AND RF DESIGN,
Michael Steer

Volume 1, Radio Systems, Third Edition
Oct 2019 262pp
9781469656908 Paperback £14.95 / €18.00

Provides a circuits- and systems-oriented approach to modern microwave and RF systems. Sufficient details at the circuits and sub-system levels are provided to understand how modern radios are implemented. Design is emphasized throughout.

Volume 2, Transmission Lines, Third Edition
Oct 2019 302pp
9781469656922 Paperback £17.50 / €20.00

Builds on the concepts of forward- and backward-travelling waves. Many examples are included of advanced techniques for analysing and designing transmission line networks with microstrip lines primarily used in design examples.

Volume 3, Networks, Third Edition
Oct 2019 258pp
9781469656946 Paperback £14.95 / €18.00

Presents the tools and techniques required to analyse and design microwave and RF circuits. The topics covered include scattering parameters, signal flow graphs, and Smith charts. This book is suitable as both an undergraduate and graduate textbook, as well as a career-long reference book.

Volume 4, Modules, Third Edition
Oct 2019 272pp
9781469656960 Paperback £16.50 / €19.00

Focuses on the design of systems based on microwave modules. A variety of RF modules, including amplifiers, local oscillators, isolators, phase detectors, frequency multipliers and dividers, phase-locked loops, and direct digital synthesizers are considered. Design strategies for synthesizing filters based on parallel coupled lines are presented.

Volume 5, Amplifiers and Oscillators, Third Edition
Oct 2019 236pp
9781469656984 Paperback £14.50 / €17.00

Presents the design of amplifiers and oscillators in a way that enables state-of-the-art designs to be realized. Detailed strategies and case studies are presented. The emphasis is on developing design skills. This book is suitable as both an undergraduate and graduate textbook, as well as a career-long reference book.

NC State University
ON-CHIP DYNAMIC RESOURCE MANAGEMENT
Antonio Miele et al
Jul 2019 156pp
9781680835786 Paperback £83.95 / €98.00
*Foundations and Trends® in Electronic Design Automation*

Presents the first comprehensive and coherent review of all aspects of on-chip run-time resource management designed to facilitate understanding of recent trends in dynamic and adaptive strategies. The authors provide the reader with a framework within which they can navigate both existing, as well as evolving research efforts.

ON THE CONTROL OF MULTI-AGENT SYSTEMS
A Survey
Fei Chen & Wei Ren
Jul 2019 176pp
9781680835823 Paperback £83.95 / €98.00
*Foundations and Trends® in Systems and Control*

Tracing the roots of Multi-Agent Systems (MAS) back more than 50 years, this book provides the reader with an in-depth and comprehensive survey of the research in MAS. The book introduces the basic concepts and definitions to the reader before going on to describe how MAS has been used in most forms of systems.

ELECTRONICS LAB MANUAL
Sixth Edition, Volume 2
K.A. Navas
Nov 2019 372pp
9789388028080 Paperback £21.95 / €25.00

Provides information to undergraduate students to practice experiments in electronics laboratories. The book covers 118 experiments for linear/analogue integrated circuits lab, communication engineering lab, power electronics lab, microwave lab and optical communication lab.

PLUNKETT’S WIRELESS, WI-FI, RFID & CELLULAR INDUSTRY ALMANAC 2020
Jack W. Plunkett
Jul 2019 419pp
9781628315363 Paperback £305.00 / €345.00
*Plunkett’s Industry Almanacs*

A complete market research guide to the wireless and smartphone telecommunications industry—for strategic planning, competitive intelligence, employment searches or financial research. Features trends analysis, statistical tables and glossary.

INTRODUCTION TO ANALOG-TO-DIGITAL CONVERTERS
Principles and Circuit Implementation
Takao Waho
Jul 2019 300pp
9788770221023 Hardback £81.95 / €95.00
*River Publishers Series in Circuits and Systems*

The primary purpose of this book is to explain the fundamentals of data converters for students and engineers. Topics include sampling and quantization; sample-and-hold (S/H) circuits and comparators; architectures and circuit implementations of D/A converters; and recent trends based on scaled-down CMOS technology.

ON-WAfer CALIBRATION TECHniques
ENABLING ACCURATE CHARACTERIZATION OF HIGH-PERFORMANCE SILICON
Devices at the mm-Wave Range and Beyond
Andrej Rumiantsev
May 2019 250pp
9788770221122 Hardback £81.95 / €95.00
*River Publishers Series in Electronic Materials and Devices*

Presents solutions for accurate mm-wave characterization of advanced semiconductor devices. The book guides readers through the process of development, implementation and verification of the in-situ calibration methods optimized for high-performance silicon technologies.
RF CMOS OSCILLATORS FOR MODERN WIRELESS APPLICATIONS
Masoud Babaie, Mina Shahmohammadi & Robert Bogdan Staszewskii
Nov 2019 250pp
9788793609495 Hardback £81.95 / €95.00
River Publishers Series in Circuits and Systems
The main goal of this book is to highlight the exciting and innovative RF oscillator structures that demonstrate better phase noise performance, lower cost, and higher power efficiency than currently achievable.

ROBUST EMBEDDED INTELLIGENCE ON CELLULAR NEURAL NETWORKS
Lambert Spaanenburg & Suleyman Malki
Nov 2019 350pp
9788770221009 Hardback £81.95 / €95.00
River Publishers Series in Signal, Image and Speech Processing
Presents the mathematical and electronic techniques to turn a data-driven problem into a safe embedded solution. In particular, the book explores Cellular Neural Networks for reliable visual recognition in a wide range of practical applications, highlighting vein feature extraction and license plate recognition.

UNDERSTANDING NANOELECTROMECHANICAL QUANTUM CIRCUITS AND SYSTEMS (NEMX) FOR THE INTERNET OF THINGS (IOT) ERA
Hector J. De Los Santos
Nov 2019 200pp
9788770221283 Hardback £81.95 / €95.00
Electronic Materials and Devices
Provides an understanding of nanoelectromechanical quantum circuits and systems (NEMX), as exemplified by firstly the uncovering of their origins, impetus and motivation, and secondly by developing an understanding of their device physics, including, the topics of actuation, mechanical vibration and sensing.

WIRELESS SENSOR NETWORKS
QoS Perspective
Edited by Vivek Deshpande & Vladimir Poulkov
Nov 2019 225pp
9788770221221 Hardback £81.95 / €95.00
River Publishers Series in Communications
Topics discussed in book include QoS parameters and their improvement in Network Delay, Throughput, Packet Delivery Ratio (PDR), Packet Loss Ratio (PLR), Energy Consumption, Congestion Control, Reliability, Fairness, Delay, and Jitter.

ATMOSPHERIC MODELING USING PCMOWIN®/MODTRAN®
Larry B. Stoss & John Schroeder
Nov 2019 350pp
9781510628052 Paperback £76.50 / €87.00
Press Monographs, Vol. 307
Helps beginners learn how to perform analysis using MODTRAN/PcModWin by using test cases. Specifically, many of the cases are used to illustrate how to navigate the PcModWin menus to solve the given problems. The book also provides the underlying mathematics and atmospheric physics incorporated into MODTRAN.

DESIGN AND DEVELOPMENT OF FIBER OPTIC GYROSCOPES
Edited by Eric Udd & Michel J. F. Digonnet
Nov 2019 304pp
9781510626096 Paperback £77.95 / €89.00
Press Monographs, Vol. 303
This book arose from efforts to form a special session to commemorate the fortieth anniversary of the first hardware demonstration of the fiber gyro in 1976 by Vali and Shorthill. The chapters include contributions from key engineers and scientists who have worked on manufacturing high-performance fiber gyros for many applications.

LIDAR TECHNOLOGIES AND SYSTEMS
Paul F. McManamon
Jul 2019 520pp
9781510625396 Hardback £100.00 / €115.00
Press Monographs, Vol. 300
Introduces LiDAR and its history; the LiDAR range equation and the link budget; the rich phenomenology of LiDAR, which results in a diverse array of LiDAR types; the components of a LiDAR system; and testing, performance metrics, and significant applications.

PRINCIPLES OF LITHOGRAPHY
Fourth Edition
Harry J. Levinson
Jul 2019 630pp
9781510627604 Hardback £99.95 / €114.00
Press Monographs, Vol. 304
This newest edition of Principles of Lithography reflects the continuing advancement of lithographic technology. In recent years, certain topics, such as line-edge roughness (LER), multi-electron-beam writers, have become more significant to practicing lithographers. As such extensive treatments of these topics are provided.
SURVEY TELESCOPE OPTICS
Valery Yu Terebizh
Jan 2020 162pp
9781510631281 Paperback £49.95 / €59.00
Press Monographs, Vol. 311
Survey investigations, with the end goal of monitoring the entire celestial sphere, have become a priority in astronomy. This book is devoted to wide-field telescopes, intended to bridge the gap between astronomers and professional opticians.

SENSOR AND DATA FUSION FOR INTELLIGENT TRANSPORTATION SYSTEMS
Lawrence A. Klein
Aug 2019 68pp
9781510627642 Paperback £68.50 / €79.00
Press Monographs, Vol. 305
Introduces readers to the roles of the data fusion processes defined by the Joint Directors of Laboratories data fusion model and the Data Fusion Information Group enhancements, data fusion algorithms, and noteworthy applications of data fusion to intelligent transportation systems.

UNDERSTANDING SURFACE SCATTER PHENOMENA
A Linear Systems Formulation
Edited by James E. Harvey
Oct 2019 252pp
9781510627871 Paperback £64.95 / €75.00
Press Monographs, Vol. 306
After reviewing the historical background of surface scatter theory, this book describes how integrating sound radiometric principles with scalar diffraction theory results in the development of a linear systems formulation of non-paraxial scalar diffraction theory which then becomes the basis of the Generalized Harvey-Shack surface scatter theory.

THE INTEROPERABLE GLOBAL NAVIGATION SATELLITE SYSTEMS SPACE SERVICE VOLUME
United Nations Office for Outer Space Affairs
Nov 2019 104pp
9789211303551 Paperback £34.95 / €40.00
The availability and performance of global navigation satellite systems (GNSS) signals at high altitude is documented as the GNSS Space Service Volume (SSV). While different definitions of the SSV exist, within the context of this booklet it is defined as the region of space between 3,000 km and 36,000 km above the Earth’s surface.

BESTSELLERS

ATMEL AVR MICROCONTROLLER PRIMER
Programming and Interfacing, Second Edition
Steven Barrett & Daniel Pack
2012 244pp
9781608458615 Paperback £48.95 / €58.00
Synthesis Lectures on Digital Circuits and Systems
Provides practicing scientists and engineers a primer on the Atmel AVR microcontroller. This second edition highlights the popular ATmega164 microcontroller and other pin-for-pin controllers in the family with a complement of flash memory up to 128 kbytes.

SENSORS AND MEASUREMENT SYSTEMS
Walter Lang
2018 225pp
9788770220286 Hardback £34.50 / €40.00
River Publishers Series in Electronic Materials and Devices
Discusses five families of sensors: thermal sensors; force and pressure sensors; inertial sensors; magnetic field sensors; and flow sensors. For each sensor, theoretical, technology and application aspects are examined.

DESIGNING OPTICS USING CODE V
Donald C. O’Shea & Julie L. Bentley
2018 360pp
9781510619739 Paperback £72.95 / €86.00
Press Monographs, Vol. 292
Demonstrates how to design an optical system using Synopsis CODE VR, a full-featured optical design program that has a command line interface. The complete design process is illustrated using the program.

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COMPUTED TOMOGRAPHY
Jiang Hsieh
2015 666pp
9781628418255 Hardback £109.00 / €130.00
Press Monographs, Vol. 259
Captures the most recent advances in technology and clinical applications. New to this edition are descriptions of iterative reconstruction, statistical reconstruction, methodologies used to model the CT systems, and the searching methodologies for optimal solutions.

FIELD GUIDE TO GEOMETRICAL OPTICS
John E. Greivenkamp
2004 128pp
9780819452948 Paperback £41.50 / €49.00
Field Guides, Vol. 01
Covers Gaussian imagery, paraxial optics, first-order optical system design, system examples, illumination, chromatic effects, and an introduction to aberrations. The appendices provide supplemental material on radiometry and photometry, the human eye, and other topics.

LOW-LEVEL LIGHT THERAPY
Photobiomodulation
Michael R. Hamblin et al
2018 388pp
9781510614154 Paperback £67.50 / €80.00
Tutorial Texts, Vol. 115
Covers the basic molecular and cellular mechanisms of action, applications for treating diseases in animal models, and its use in clinical trials and therapeutic practice in patients.

OPTICS USING MATLAB®
Scott W. Teare
2017 246pp
9781510608313 Paperback £64.50 / €76.00
Tutorial Texts, Vol. 111
Provides a functional overview of the development of MATLAB code that can be used to enhance and increase one’s understanding of optics though the use of visualization tools.
American Society of Civil Engineers

**BIODIESEL PRODUCTION**
Technologies, Challenges, and Future Prospects
Edited by R. D. Tyagi et al
Nov 2019 864pp
9780784415344 Paperback £184.00 / €212.00
Presents approaches, technologies and source materials for biodiesel production as well as socio-economic and political impacts of biodiesel applications. The book offers a detailed overview of the benefits, impacts, and production of biodiesel.

American Society of Mechanical Engineers

**OILWELL DRILLING ENGINEERING**
Don W. Dareing
Nov 2019 492pp
9780791861875 Hardback £198.00 / €227.00
Explores optimum drilling practices which provide the highest rate of penetration (ROP) at minimum footage cost. While these factors are commonly acknowledged in the drilling community, they need to be underscored in any drilling text. These fundamental elements of drilling provide the foundation for more detailed analyses throughout the book.

Arcler Press

**BIOGAS**
From Waste to Fuel
Edited by Navodita Bhatnagar
Nov 2019 290pp
9781774073629 Hardback £171.00 / €198.00
Explores the process of anaerobic digestion and explains the ways in which waste is converted to biogas, and how it is upgraded to biomethane. The book discusses the ways in which algae is used for biogas production and examines the impact of biogas technology.

**BIOTECHNOLOGY FOR BIOFUELS**
Edited by Prerna Pandey
Nov 2019 290pp
9781774071953 Hardback £171.00 / €198.00
Discusses the basic concept of biofuels along with their chemistry and classification. The book covers four different generation of biofuels, and examines the use of biofuels for various drives, advantages and disadvantages of biofuels, applications of biotechnology to renewable fuel production, and the future of bio fuels in fuel production.

**MATERIALS AND MECHANICS FOR ELECTROCHEMICAL ENERGY CONVERSION**
Lokesh Pandey
Nov 2019 290pp
9781774072356 Hardback £171.00 / €198.00
Discusses the fundamental mechanics of electrochemical energy conversion and different technologies related to it. The book also covers the development and conversion technologies of electrochemical energy, and discusses the concept of electrochemical energy conversion.

**NUCLEAR POWER AND SUSTAINABLE DEVELOPMENT**
Edited by Mulmudi Hemant Kumar
Nov 2019 290pp
9781774072967 Hardback £171.00 / €198.00
Explores the environmental aspects of nuclear power. The book explains the relation of human health to nuclear power and the challenges and opportunities posed by nuclear power. Also discussed is the relation between nuclear power and sustainable development.

**PHYSICS OF SOLAR ENERGY**
Edited by Chenggui Sun
Nov 2019 290pp
9781774072813 Hardback £171.00 / €198.00
Discusses the fundamental concept of solar energy, solar cells and nano fluids. The book also includes the technologies used for the conversion of solar to fuels and a performance assessment of nanofluids in solar energy, and the thermal properties of carbon black aqueous nano fluids for solar absorption.
FOOD BIOTECHNOLOGY
G.N. Foster
Jan 2020 508pp
9789389396348 Paperback
£19.95 / €24.00
Essential reading for BTech and students pursuing BSc/MSc course in biotechnology and microbiology. The book addresses the latest exciting food biotechnology research in areas such as genetically modified foods (GMOs), bioenergy, bioplastics, functional foods/nutraceuticals.

ADVANCED CATALYSIS PROCESSES IN PETROCHEMICALS AND PETROLEUM REFINING
Emerging Research and Opportunities
Edited by Mohammed C. Al-Kinany & Saud A. Aldrees
Nov 2019 205pp
9781522580331 Hardback £184.00 / €215.00
Provides knowledge on refining processes that could be integrated by the petrochemical industry and discusses how to integrate refining products with petrochemical industries through the use of new technologies. The book features a range of topics such as biofuel production, environmental sustainability, and biorefineries.

CASES ON GREEN ENERGY AND SUSTAINABLE DEVELOPMENT
Edited by Peter Yang
Jul 2019 400pp
9781522585596 Hardback £203.00 / €237.00
Focuses on the important role renewable energy and energy efficiency play in energy transition and sustainable development, and covers the economic and promotion policies of major renewable energy and energy-efficiency technologies.

HANDBOOK OF RESEARCH ON SMART COMPUTING FOR RENEWABLE ENERGY AND AGRO-ENGINEERING
Edited by Valeriy Kharchenko & Pandian Vasant
Dec 2019 500pp
9781799812166 Hardback £279.00 / €325.00
Examines the benefits and barriers of implementing computational models to agricultural production and energy sources as well as how these models can produce more cost-effective and sustainable solutions. The book features coverage on a wide range of topics such as bacterial foraging, swarm intelligence, and combinatorial optimization.

NANOCOMPOSITES FOR THE DESULFURIZATION OF FUELS
Edited by Tawfik Abdo Saleh
Nov 2019 300pp
9781799821465 Hardback £212.00 / €248.00
Discusses the synthesis, properties, and technological developments of nanomaterials and their applications in petroleum. Featuring research on topics such as hybrid materials, catalytic properties, and environmental concerns, this book is designed for chemical engineers, scientists, researchers, academics, and students.

NOVEL ADVANCEMENTS IN ELECTRICAL POWER PLANNING AND PERFORMANCE
Edited by Smita Shandilya et al
Nov 2019 380pp
9781522585510 Hardback £212.00 / €248.00
Provides vital research on the specific challenges, issues, strategies, and solutions that are associated with electrical transmission and distribution systems and features emergent methods and research in the systemic and strategic planning of energy usage.

ADAPTING THE ENERGY SECTOR TO CLIMATE CHANGE
IAEA
Nov 2019 131pp, 28 figures
9789201093977 Paperback £34.50 / €40.00
Explores the diverse range of impacts on the energy sector resulting from gradual climate change and extreme weather events, and the potential ways to counter them. All elements of the supply chain are explored: resource base, extraction and transport of depletable energy sources, power generation, transmission and distribution.
COUNTRY NUCLEAR POWER PROFILES
IAEA
Nov 2019
9789201595195 CD-ROM
£81.95 + VAT / €95.00

Presents background information on the status and development of nuclear power programmes across participating International Atomic Energy Agency Member States. The publication summarises organisational and industrial aspects of nuclear power programmes and covers legislative, regulatory and international frameworks.

DECOMMISSIONING AFTER A NUCLEAR ACCIDENT
Approaches, Techniques, Practices and Implementation Considerations
IAEA
Aug 2019 122pp
9789201040183 Paperback £33.95 / €39.00
IAEA Nuclear Energy Series, NW-T-2.10

Describes differences in post-accident situations compared with normal decommissioning (i.e. decommissioning after a planned final shutdown) and identifies significant decision factors as applicable. This publication focuses on the on-site decommissioning aspects of a technical nature, which need to be addressed after a nuclear accident.

DECOMMISSIONING OF MEDICAL, INDUSTRIAL AND RESEARCH FACILITIES
Specific Safety Guide
IAEA
Jul 2019 106pp
9789201011181 Paperback £36.50 / €42.00
IAEA Safety Standards Series

Decommissioning is the last step in the lifetime management of an authorized facility and must be considered during the design, construction, commissioning and operation of such facilities. This Safety Guide provides guidance on how to comply with requirements for the safe decommissioning of medical, industrial and research facilities.

DEMONSTRATING PERFORMANCE OF SPENT FUEL AND RELATED STORAGE SYSTEM COMPONENTS DURING VERY LONG TERM STORAGE
Final Report of a Coordinated Research Project
IAEA
Aug 2019 210pp
9789201033192 Paperback £14.95 / €18.00
IAEA TECDOC Series, Vol. 1878

Summarises the work carried out during an IAEA coordinated research project on safe and reliable management of spent nuclear fuel. This work contributes to the overall goal of demonstrating the performance of spent nuclear fuel and related storage systems components over long durations.

DETERMINISTIC SAFETY ANALYSIS FOR NUCLEAR POWER PLANTS
IAEA
Aug 2019 85pp
9789201021199 Paperback £36.50 / €42.00
IAEA Safety Standards Series, SSG-2 (Rev.1)

This publication has been updated to maintain consistency with current IAEA safety requirements and to reflect lessons from the Fukushima Daiichi accident. It takes into account current practices and experience from deterministic safety analyses for NPPs being performed around the world.

GUIDELINES ON SOIL AND VEGETATION SAMPLING FOR RADIOLOGICAL MONITORING
IAEA
Oct 2019 247pp
9789201022189 Paperback £64.95 / €76.00
Technical Reports Series, Vol. 486

Addresses the sampling of soil and vegetation in terrestrial ecosystems, including agricultural, forest and urban environments, contaminated with radionuclides from events such as radiation accidents, radiological incidents and former nuclear activities.
HUMAN FACTORS ENGINEERING IN THE DESIGN OF NUCLEAR POWER PLANTS

Specific Safety Guide
IAEA
Aug 2019 81pp
9789201004192 Paperback £36.50 / €42.00
IAEA Safety Standards Series, SSG-51

Provides recommendations and guidance for meeting Requirement 32 of IAEA Safety Standards Series No. SSR-2/1 (Rev. 1), Safety of Nuclear Power Plants: Design, for optimal operator performance involving systematic consideration of human factors, including the human machine interface.

MANAGEMENT OF SPENT FUEL FROM NUCLEAR POWER REACTORS

An Integrated Approach to the Back End of the Fuel Cycle
IAEA
Nov 2019 40pp, includes CD
9789201018199 Paperback £24.50 / €28.00
Proceedings of an International Conference Held in Vienna, Austria, 15–19 June 2015

Presents the outcome of the 2015 IAEA international conference on the management of spent fuel from nuclear power reactors. Achievements and lessons learned in connection with the back end of the nuclear fuel cycle and associated challenges are reviewed.

MATERIAL PROPERTIES DATABASE FOR IRRADIATED CORE STRUCTURAL COMPONENTS FOR LIFETIME OPERATION OF RESEARCH REACTORS

Report of a Coordinated Research Project
IAEA
Nov 2019 64pp
9789201025197 Paperback £14.95 / €18.00
IAEA TECDOC Series

Presents the results of an IAEA coordinated research project which served as a forum for the establishment of a research reactor material properties database for irradiated core structural components that are important to safety.

MODELLING OF MARINE DISPERSION AND TRANSFER OF RADIONUCLIDES ACCIDENTALLY RELEASED FROM LAND BASED FACILITIES

IAEA
Aug 2019 144pp, 36 Illustrations
9789201036193 Paperback £14.95 / €18.00
IAEA TECDOC Series, Vol. 1876

Describes and summarizes the work of the MODARIA (modelling and data for radiological impact assessments) Programme Working Group 10. This publication presents the work undertaken by the working group on the modelling of marine dispersion and transfer of radionuclides accidentally released from land-based facilities.
NUCLEAR POWER REACTORS IN THE WORLD
IAEA
Aug 2019 80pp
9789201027191 Paperback £14.95 / €18.00
Reference Data Series
Presents the most recent reactor data available to the IAEA. This publication contains summarized information as of the end of 2018 on power reactors operating, under construction and shut down as well as performance data on reactors operating in the IAEA Member States.

PLANNING AND EXECUTION OF KNOWLEDGE MANAGEMENT ASSIST VISITS FOR NUCLEAR ORGANIZATIONS
IAEA
Nov 2019 64pp
9789201103192 Paperback £14.95 / €18.00
IAEA TECDOC Series
Provides a basic structure and common reference for knowledge management assist visits (KMAVs). As such, it is written primarily for the team members of KMAVs and the counterpart requesting a visit. The publication provides guidelines across the various activities inherent in KMAVs.

PREVENTIVE MEASURES FOR NUCLEAR AND OTHER RADIOACTIVE MATERIAL OUT OF REGULATORY CONTROL
IAEA
Aug 2019 28pp
9789201026194 Paperback £32.95 / €38.00
IAEA Nuclear Energy Series, 36-G
A guidance document for Member States interested in strengthening their nuclear security regime as it relates to nuclear and other radioactive material out of regulatory control and in improving their capabilities.

RESPONSIBILITIES AND FUNCTIONS OF A NUCLEAR ENERGY PROGRAMME IMPLEMENTING ORGANIZATION
IAEA
Nov 2019 44pp, 17 illustrations
9789201006196 Paperback £31.50 / €36.00
IAEA Nuclear Energy Series, NG-T-3.6 (Rev. 1)
Describes a set of responsibilities, functions and activities that States can use as guidance for establishing a nuclear energy programme implementing organization and ensuring its effectiveness. This revision incorporates lessons learned from integrated nuclear infrastructure review missions and IAEA technical assistance activities.

SAMPLE PREPARATION OF SOIL AND PLANT MATERIAL FOR ISOTOPE RATIO MASS SPECTROMETRY
IAEA
Nov 2019 48pp
9789201020192 Paperback £14.95 / €18.00
IAEA TECDOC Series, Vol. 1870
Presents methods for proper plant and soil sample processing for IRMS analysis. The publication presents a selection of standard operating procedures and provides highly detailed guidance on sample preparation that will support practitioners in conducting reliable isotope analysis on plant and soil materials.

SECURITY DURING THE LIFETIME OF A NUCLEAR FACILITY
IAEA
Nov 2019 29pp
9789201011190 Paperback £21.50 / €24.00
IAEA Nuclear Security Series, Vol. 35-G
Provides guidance to states, competent authorities and operators on appropriate nuclear security measures during each stage in the lifetime of a nuclear facility, from initial planning of the facility through to its final decommissioning.

TECHNICAL APPROACH TO PROBABILISTIC SAFETY ASSESSMENT FOR MULTIPLE REACTOR UNITS
IAEA
Jul 2019 171pp, 31 Illustrations
9789201026187 Paperback £14.95 / €18.00
Safety Reports Series
The technical approach described in this publication builds on the use of a single unit probabilistic safety assessment (PSA) and identifies considerations that are needed from the multi-unit perspective. This is the first attempt to expand the current PSA process to take account of multi-unit issues.

URANIUM PRODUCTION CYCLE SELECTED PAPERS 2012–2015
IAEA
Nov 2019 306pp, 85 Illustrations
9789201030191 Paperback £14.95 / €18.00
IAEA TECDOC Series
Contains contributions from a range of uranium production cycle meetings, particularly those of the Uranium Mining and Remediation Exchange Group (UMREG). UMREG brings together practitioners from all parts of the uranium mining industry, to discuss ideas and exchange experiences related to remediation and legacy site management.
WASTE FROM INNOVATIVE TYPES OF REACTORS AND FUEL CYCLES
A Preliminary Study
IAEA
Aug 2019 117pp, 32 Illustrations
9789201028181 Paperback £34.95 / €41.00
IAEA Nuclear Energy Series, NW-T-1.7
Considers the waste generation of advanced fuel fabrication, reactor operation and decommissioning, reprocessing of spent fuel and waste pathways in the development of new reactors and their associated fuel cycles. The publication describes waste flows in chemical and physical terms and identifies processing, recycling and disposition pathways.

WORLD THORIUM OCCURRENCES, DEPOSITS AND RESOURCES
IAEA
Nov 2019 132pp, 63 Illustrations
9789201037190 Paperback £14.95 / €18.00
IAEA TECDOC Series
Mindful of possible future limitations on the availability of uranium, the introduction of the thorium fuel cycle is potentially a complementary source of nuclear energy. This publication assimilates current knowledge of thorium geology and mineralization into a brief account on the worldwide occurrence of thorium resources.

INTERNATIONAL PETROLEUM ACCOUNTING
Second Edition
Charlotte J. Wright
Jan 2020 583pp
9781593701673 Hardback £128.00 / €150.00

NEW EDITION OF BESTSELLER
NONTECHNICAL GUIDE TO PETROLEUM GEOLOGY, EXPLORATION, DRILLING & PRODUCTION
Fourth Edition
Norman J. Hyne
Jan 2020 506pp
9781593704933 Hardback £115.00 / €137.00
For full details of this title, see page 37.

OIL & GAS PERFORMANCE ANALYSIS
James Tague
Jul 2019 259pp
9781593704810 Hardback £92.50 / €109.00
From individual wells to entire portfolios, performance analysis is used to make decisions throughout an organization. Unfortunately, performance analysis is generally conducted in the higher echelons of an oil and gas company, and thus its value in creating actionable information at the field level is generally lost. This book seeks to bridge this gap by introducing the basic concepts of oil and gas performance analysis.

THERMAL PROCESSING OF HYDROCARBONS
Petroleum to Petrochemicals
Dwijen Banerjee
Feb 2020 190pp
9781593702656 Hardback £92.50 / €109.00
In this first-of-its-kind book, the author summarizes and systematically leads readers through all aspects of the thermal cracking processes from the research laboratory to the commercial applications of the petrochemical industry.

Plunkett’s Energy & Utilities Industry Almanac 2020
Jack W. Plunkett
Dec 2019 255pp
9781628315516 Paperback £305.00 / €345.00
Market research guide to the energy and utilities (including oil and gas) industry - for strategic planning, competitive intelligence, employment searches or financial research. Contains trends analysis, globalization, trade, statistical tables and an industry glossary.
PLUNKETT’S GREEN TECHNOLOGY INDUSTRY ALMANAC 2020
Jack W. Plunkett
Mar 2020 255pp
9781628315240 Paperback £305.00 / €345.00
Plunkett’s Industry Almanacs
Covers exciting trends in green technologies and supply chains, manufacturing, research, development and businesses of all types. It includes a thorough market analysis as well as Plunkett’s highly respected trends analysis.

PLUNKETT’S SOLAR POWER, WIND POWER & RENEWABLE ENERGY INDUSTRY ALMANAC 2020
Jack W. Plunkett
Dec 2019 255pp
9781628315172 Paperback £305.00 / €345.00
Plunkett’s Industry Almanacs
Market research guide to the business side of renewable, alternative & hydrogen energy – a tool for strategic planning, competitive intelligence, employment searches or financial research.

PLUNKETT’S OUTSOURCING & OFFSHORING INDUSTRY ALMANAC 2020
Jack W. Plunkett
Nov 2019 507pp
9781628315370 Paperback £305.00 / €345.00
Plunkett’s Industry Almanacs
Outsourcing of all types, offshoring of business processing, offshore contract manufacturing and globalization in general continue to create massive change in the world of business. This revolution creates both opportunities and challenges. Plunkett’s Outsourcing & Offshoring Industry Almanac covers these sectors in detail.

United Nations Publications

REDESIGNING THE URANIUM RESOURCE PATHWAY
Application of the United Nations Framework Classification for Resources for Planning and Implementing Sustainable Uranium Projects
United Nations Economic Commission for Europe
Dec 2019 82pp
9789211172119 Paperback £44.50 / €51.00
ECE Energy Series
Argues that the conventional model of uranium as a mineral commodity needs to give way to a new model of uranium as a “critical energy material” for meeting the global sustainability objectives on energy and climate action.

West Academic

OIL AND GAS LAW IN A NUTSHELL
Seventh Edition
John S. Lowe
Aug 2019 592pp
9781640201156 Paperback £53.50 / €61.00
Nutshell Series
Provides authoritative coverage of the legal rules that govern the development of privately owned mineral rights in the United States, which often also apply to government-owned resources. The book covers topics such as the nature, protection, and conveyance of oil and gas rights, leasing, and taxation.

West Academic Publishing

PHI Learning

WIND POWER TECHNOLOGY
Third Edition
Joshua Earnest & Sthuthi Rachel
Nov 2019 496pp
9789388028493 Paperback £24.95 / €29.00
Provides engineering students with the principles of different types of grid connected renewable energy sources and, in particular, the detailed underpinning knowledge required to understand the different types of grid connected wind turbines.
GOVERNING THE WIND ENERGY COMMONS
Renewable Energy and Community Development
Keith A. Taylor
Mar 2019 180pp, 10 illustrations
9781946684851 Paperback £29.95 / €35.00
9781946684844 Hardback £100.00 / €116.00
Rural Studies
Asks whether revenue generated by wind power can be put to community well-being rather than corporate profit. Keith Taylor looks to the promising example of rural electric cooperatives, owned and governed by the 42 million Americans they serve, which generate $40 billion in annual revenue.

RETHINKING POWER SECTOR REFORM IN THE DEVELOPING WORLD
Vivien Foster & Anshul Rana
Dec 2019 350pp
9781464814426 Paperback £41.50 / €49.00
Sustainable Infrastructure
Revisits and refreshes thinking on power sector reform approaches for developing countries. The approach relies heavily on evidence from the past, drawing both on broad global trends, and deep case material from 15 developing countries. It is also forward-looking; considering the implications of new social and environmental policy goals.

RADIATION PROTECTION OF THE PUBLIC AND THE ENVIRONMENT
IAEA
2018 277pp
9789201025173 Paperback £34.50 / €40.00
IAEA Safety Standards Series, GSG-8
Provides guidance on the implementation of the requirements in the International Basic Safety Standards, IAEA Safety Standards Series No. GSR Part 3, in relation to protection of the public and the environment against radiation risks.

DICTIONARY OF PETROLEUM EXPLORATION, DRILLING & PRODUCTION
Second Edition
Norman J. Hyne
2014 769pp
9781593703134 Hardback £163.00 / €196.00
A thorough update with more than 8,000 new definitions and entries. Written in easy-to-understand language with more than 100 illustrations, this second edition offers the ultimate reference book for anyone regardless of technical background.

WELL TEST DESIGN AND ANALYSIS
George Stewart
2011 1544pp, includes CD
9781593702311 Hardback £204.00 / €245.00
Finding the right technical data guide for designing and testing wells can be daunting. This is filled with advanced information on a variety of wellbore topics. From ascertaining accurate reservoir descriptions, to the intricacies of designing a horizontal well program, it covers every topic in detail.
AWWA C620-19 SPRAY-IN-PLACE POLYMERIC LINING FOR POTABLE WATER PIPELINES, 4 IN. (100 MM) AND LARGER
American Water Works Association
Nov 2019 31pp
9781625763488 Paperback £92.95 / €107.00
Describes the requirements for materials, equipment, certification, and procedures for the field application of spray-in-place polymeric linings to the interior of existing potable water pipelines.

CONDITION ASSESSMENT OF WATER MAINS, M77
American Water Works Association
May 2019 216pp
9781625763310 Paperback £176.00 / €203.00
Provides technical information to aid utility managers and engineers in making informed decisions. The manual covers the benefits of condition assessment, how to plan for and build a condition assessment program, methods of condition assessment, strategies for economical assessments, and how information can be best used by utilities.

DROUGHT PREPAREDNESS AND RESPONSE, M60
Second Edition
American Water Works Association
May 2019 102pp
9781625763303 Paperback £133.00 / €155.00
M60 will help water managers facing water shortages by illustrating how to employ tried-and-true strategies and tactics of drought mitigation, as well as introducing new tools and methods. The manual accomplishes this by providing a step-by-step process to anticipate and respond to water shortages through a structured planning process.

INLAND DESALINATION AND CONCENTRATE MANAGEMENT, M69
American Water Works Association
May 2019 214pp
9781625763303 Paperback £186.00 / €215.00
As desalination technologies advance and the availability of conventional freshwater sources decreases, inland water users are increasingly turning to desalination. This manual presents the key issues and challenges of developing inland desalination facilities, including concentrate management and disposal methods.

AWWA B703-19 FLUOROSILICIC ACID
American Water Works Association
Nov 2019 28pp
9781625763471 Paperback £81.50 / €93.00
The purpose of this standard is to provide the minimum requirements for fluorosilicic acid, including physical, chemical, sampling, packaging, shipping, and testing requirements.

LET’S TALK SAFETY
52 Talks on Common Utility Safety Practices for Water Professionals
American Water Works Association
Jan 2020 144pp
9781625763563 Paperback £96.50 / €115.00
Stop wondering what to talk about and spending your valuable time preparing presentations. Let’s Talk Safety makes it easy for safety officers to spend a few minutes each week communicating with employees about the critical importance of working safely. This quick and easy book provides 52 short briefings tailored specifically for water utility employees, plus links to additional resources. Each briefing covers a single key topic. Let’s Talk Safety takes the work out of your safety meetings.

American Water Works Association
LET’S TALK SAFETY
52 Talks on Common Utility Safety Practices for Water Professionals
American Water Works Association
Jan 2020 144pp
9781625763563 Paperback £96.50 / €15.00
For full details of this title, see page 46.

Arcler Press

ZERO WASTE ENGINEERING
Edited by Navodita Bhatnagar
Nov 2019 290pp
9781774072783 Paperback £96.50 / €111.00
Discusses the concept of zero waste, ways to achieve zero waste, and illegal dumpsites and their effects. The book includes different wastes and the environmental problems associated with them. It also discusses zero-waste engineering and modelling methods, producer responsibility, and how zero waste benefits the environment and the economy.

University Press of Florida

THE GREENWAY IMPERATIVE
Connecting Communities and Landscapes for a Sustainable Future
Charles A. Flink
Mar 2020 308pp, 69 b&w illustrations
9781683401155 Hardback £31.50 / €36.00
In this journey through some of America’s most innovative landscape architecture projects, Charles Flink shows why we urgently need greenways. A leading authority in greenway planning, design, and development, Flink presents inspiring examples of communities that have come together to build permanent spaces for the life-sustaining power of nature.

IGI Global

CURRENT STATE AND FUTURE IMPACTS OF CLIMATE CHANGE ON BIODIVERSITY
Edited by Ashok Kumar Rathoure & Pawan Kumar Chauhan
Nov 2019 330pp
9781799812265 Hardback £212.00 / €248.00
Provides research on biological systems and how climate change influences their health. While highlighting topics such as genetic diversity, economic valuation, and climatic conditions, this publication explores the effects of climate change as well as the methods of sustainable management within ecosystems.

DECISION SUPPORT METHODS FOR ASSESSING FLOOD RISK AND VULNERABILITY
Edited by Ahmed Karmaoui
Nov 2019 325pp
9781522597711 Hardback £203.00 / €237.00
Provides research on the application of effective models and tools focused on the diagnosis of vulnerability to flooding risks, and evaluates and measures the impact of floods on socio-economic wellbeing. Highlighting topics such as hydrological events, and flood vulnerability, this publication explores methods of identifying adaptation strategies.

EFFECTS OF EMERGING CHEMICAL CONTAMINANTS ON WATER RESOURCES AND ENVIRONMENTAL HEALTH
Edited by Victor Shikuku
Dec 2019 350pp
9781799818717 Hardback £212.00 / €248.00
Provides research on current issues regarding the occurrence, toxicology, and abatement of emerging contaminants in water sources. The book highlights topics such as remediation techniques, pollution minimization, and technological developments.

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EMERGING DEVELOPMENTS AND ENVIRONMENTAL IMPACTS OF ECOLOGICAL CHEMISTRY
Edited by Gheorghe Duca & Ashok Vaseashta
Dec 2019 390pp
9781799812418 Hardback £212.00 / €248.00
Discusses the process of chemical contributions and their behaviour within the environment. Featuring research on topics such as organic pollution, biochemical technology, and food quality assurance, this book is ideally designed for environmental professionals, researchers, scientists, graduate students, academics, and policymakers.

ENVIRONMENTAL AND AGRICULTURAL INFORMATICS
Concepts, Methodologies, Tools, and Applications
Edited by Information Resources Management Association
Nov 2019 1700pp
9781522596219 Hardback £2150.00 / €2300.00
Examines the design, development, and implementation of complex agricultural and environmental information systems to quickly process and access environmental data in order to make informed decisions for the protection of the environment.

HANDBOOK OF RESEARCH ON ENVIRONMENTAL AND HUMAN HEALTH IMPACTS OF PLASTIC POLLUTION
Edited by Khursheed Ahmad Wani, Lutfah Ariana & S.M. Zuber
Nov 2019 475pp
9781522594529 Hardback £269.00 / €314.00
Assesses the negative impacts of plastic on the environment, human health, and ecosystems, and explores biotechnological approaches to solve plastic pollution. Highlighting topics including medical wastes, biodegradability, and phthalate exposure, this publication presents the latest solutions for reducing the burden of plastic on the environment.

HANDBOOK OF RESEARCH ON RESOURCE MANAGEMENT FOR POLLUTION AND WASTE TREATMENT
Edited by Augustine Chioma Affam & Ezerie Henry Ezechi
Nov 2019 575pp
9781799803690 Hardback £279.00 / €325.00
Presents research that examines waste and pollution treatment methods that can be adopted at local and international levels, and examines appropriate resource management strategies for environmentally related issues. The book features coverage on a range of topics, including soil washing, bioremediation, and runoff handling.

IMPACT OF TEXTILE DYES ON PUBLIC HEALTH AND THE ENVIRONMENT
Edited by Khursheed Ahmad Wani, Nirmala Kumari Jangid & Rajmal Jat
Nov 2019 290pp
9781799803119 Hardback £231.00 / €270.00
Focuses on the environmental impact and social responsibility of the dyeing industry. The book highlights topics such as toxicology, bleaching, and greenhouse gases, and is aimed at professionals, environmentalists, fashion designers, clothes manufacturers, scientists, academics, researchers, students, and practitioners.

IMPLEMENTATION AND EVALUATION OF GREEN MATERIALS IN TECHNOLOGY DEVELOPMENT
Emerging Research and Opportunities
Edited by M.T. Mastura & S. M. Sapuan
Nov 2019 215pp
9781799813743 Hardback £165.00 / €193.00
Provides emerging research exploring the theoretical and practical aspects of environmentally friendly resources and applications within technology. The book features coverage on a broad range of topics, including life cycle analysis, nanomaterials, and environment management.

INNOVATIVE WASTE MANAGEMENT TECHNOLOGIES FOR SUSTAINABLE DEVELOPMENT
Edited by Rouf Ahmad Bhat et al
Nov 2019 315pp
9781799800316 Hardback £184.00 / €215.00
Discusses management of different types of wastes and provides relevant theoretical frameworks about new waste management technologies for the control of air, water, and soil pollution. The publication also explores the innovative concept of waste-to-energy and its application in safeguarding the environment.
NANO-PHYTOREMEDIATION TECHNOLOGIES FOR GROUNDWATER CONTAMINATES
Emerging Research and Opportunities
Khushboo Chaudhary, Suphiya Khan & Pankaj Kumar Saraswat
Nov 2019 150pp
9781522590163 Hardback £156.00 / €182.00
Presents research on the methods and applications of the use of plants for remediating metal-contaminated soil and water. The book highlights a broad range of topics, including molecular mechanisms, nutrient interference, and fluoride accumulation.

WASTE MANAGEMENT TECHNIQUES FOR IMPROVED ENVIRONMENTAL AND PUBLIC HEALTH
Edited by Sang-Bing Tsai et al
Dec 2019 350pp
9781799819660 Hardback £212.00 / €248.00
Provides innovative insights into the advancing methods and technologies of reducing pollution and promoting sustainable development. The book examines a range of topics, including ecological technologies, risk assessment, and green operation.

IK International Pvt. Ltd

SUSTAINABLE INFRASTRUCTURE
Breakthroughs in Research and Practice
Edited by Information Resources Management Association
Nov 2019 1000pp, two volumes
9781799809487 Hardback £468.00 / €544.00
Examines sustainable development through the lens of transportation, waste management, land use planning, and governance. The book highlights a range of topics, including sustainable development, transportation planning, and regional and urban infrastructure planning.

ENVIRONMENTAL SCIENCE
Kamal Kant Joshi & Deepak Kumar
Nov 2019 278pp
9789386768681 Paperback £31.50 / €36.00
Presents scientific knowledge about the concept of environment and its components. The book comprises of ten chapters, beginning with an introduction and the importance of environmental science, then moving on to the physics of natural resources, the structure and functions of ecosystem, biodiversity and conservation.

River Publishers

SUSTAINABLE WASTE MANAGEMENT CHALLENGES IN DEVELOPING COUNTRIES
Edited by Agamuthu Pariatamby, Fauziah Shahul Hamid & Mehran Sanam Bhatti
Nov 2019 360pp
9781799801986 Hardback £212.00 / €248.00
Discusses the challenges and strategies of waste management practices and the unique waste issues faced by developing countries that prevent them from achieving the goal of integrated waste management. The book highlights a range of topics, including e-waste, transboundary movement, and consumption patterns.

Waste Management
Concepts, Methodologies, Tools, and Applications
Edited by Information Resources Management Association
Dec 2019 1700pp, three volumes
9781799812104 Hardback £1830.00 / €2050.00
Examines the management of different types of wastes and provides relevant theoretical frameworks about new waste management technologies for the control of air, water, and soil pollution. The book covers a range of topics, including contaminant removal, landfill treatment, and recycling.

River Publishers Series in Chemical, Environmental, and Energy Engineering

BIOTECHNOLOGY FOR TREATMENT OF RESIDUAL WASTES CONTAINING METALS
Edited by Norma G. Rojas Avelizapa
Nov 2019 250pp
9788770221146 Hardback £81.95 / €95.00
Addresses various aspects related to different wastes that have a metallic content and represent a serious risk for the environment and human health. This text discusses some of the different biotechnological alternatives that have been applied for the reduction and/or recovery of metal contamination.
ENGINEERING EDUCATION
FOR SUSTAINABILITY
Edited by João Paulo Davim
Aug 2019 200pp
9788770221047 Hardback £77.50 / €90.00
River Publishers Series in Management Sciences and Engineering

The integration of sustainability in engineering education is a relatively new phenomenon, and presenting information about engineering education for sustainability is of great interest to improve communication between professors, researchers and students at universities, institutes and research laboratories.

United Nations Publications

THE UNITED NATIONS WORLD WATER DEVELOPMENT REPORT 2019
Leaving No One Behind
Scientific and Cultural Organization United Nations Educational
Nov 2019 200pp
9789231003097 Paperback £59.50 / €68.00

Informs policy and decision-makers, inside and outside the water community, about how improvements in water resources management and access to water supply and sanitation services are essential to overcoming poverty and addressing various other social and economic inequities.

BESTSELLERS

American Water Works Association

WATER OPERATOR CERTIFICATION EXAM PREP HANDBOOK
American Water Works Association
2018 400pp
9781625762641 Paperback £96.50 / €115.00

AWWA’s most popular operator training aid, this study guide is specially designed to give water operators and students practice in answering questions that are similar in format and content to the questions that appear on state certification exams.

MV Learning

WATER RESOURCES AND ENVIRONMENTAL SUSTAINABILITY
Gangadhar Banerjee & Sarda Ganguly
2018 260pp
9789387692855 Paperback £24.50 / €29.00

Outlines issues concerning water in the 21st century, revisits water resources management policy, critically analyses the water crisis agenda, addresses generic and region-specific issues, assesses the reasons for market failure in water resources planning, and incidences of massive water crisis.

RE-USE AND RECYCLING OF MATERIALS
Solid Waste Management and Water Treatment
Edited by Ange Nzihou et al
2019 300pp
9788770220583 Hardback £81.95 / €95.00

Helps readers to understand the current status in the field of waste management, as well as the research taking place.

World Bank Group Publications

WHAT A WASTE
Global Snapshot to 2050
Kaza Silpa & Lisa Congyuan Yao
2018 100pp
9781464813290 Paperback £32.95 / €39.00

Urban Development

Presents national and urban waste management data from around the world, highlighting key trends and the need for urgent action on the pressing global crisis of waste.
THE ESRI GUIDE TO GIS ANALYSIS, VOLUME 1
Geographic Patterns and Relationships, Second Edition
Andy Mitchell
Jan 2020 300pp
9781589485792 Paperback £54.50 / €63.00
With easier to read maps and text, The Esri Guide to GIS Analysis dives beneath the surface of mapping beyond displaying data to using it to reveal geographic insights. Learn the basic concepts of spatial analysis and GIS. Build on that understanding with essential map-building skills to unveil and display patterns and relationships.

ESRI PRESS

ESRI MAP BOOK VOLUME 34
Linda Peters & Chris Brigham, Esri
Nov 2019 200pp
9781589485419 Paperback £27.50 / €32.00
Showcases maps and applications that use ArcGIS to evaluate the sustainability of resources, determine efficient transportation routes, mitigate the effects of natural disasters, and much more. Each map or application incudes a description of its purpose and how it was produced.

GIS FOR SCIENCE
Applying Mapping and Spatial Analytics
Edited by Christian Harder & Dawn J. Wright
Nov 2019 300pp
9781589485303 Paperback £43.50 / €50.00
Presents a collection of real-world stories about modern science and a cadre of scientists who use mapping and spatial analytics to expand their understanding of the world. These stories present GIS ideas and inspiration that users can apply across many disciplines, making this volume relevant to a diverse scientific audience.

Mapping the Nation
GIS - Intelligent Nervous System for Government
Esri
Feb 2020 200pp
9781589485914 Paperback £21.95 / €25.00
Mapping the Nation
The annual book of GIS success stories in federal government. This book contains examples of federal agencies using GIS effectively to make decisions. The book is divided into various government sectors (health, public safety, national security, environment, etc.) to demonstrate how GIS can be applied to a multitude of tasks and missions.

Mapping with Altitude
Designing 3D Maps
Nathan C. Shephard
Dec 2020 350pp
9781589485532 Paperback £65.50 / €75.00
Helps you deliver clear, compelling cartographic representations in 3D that are both eye-catching and informative. Understand scale, surfaces, base heights, texturing, and lighting models. Discover new twists on well-defined 2D cartographic principles, such as size, colour, and text. Consider ways to convey time.

METHODS AND APPLICATIONS OF GEOSPATIAL TECHNOLOGY IN SUSTAINABLE URBANISM
Edited by José António Tenedório & Rossana Estanqueiro
Mar 2020
97817998222493 Hardback £178.00 / €214.00
A collection of innovative research that combines theory and practice on analyzing urban environments and applying sustainability principles to them. This book highlights a wide range of topics including geographic information systems, internet mapping technologies, and green urbanism.
Esri Press

**GIS TUTORIAL FOR CRIME ANALYSIS**

*Second Edition*
Wilpen L. Gorr, Kristen S. Kurland & Zan M. Dodson
2018 270pp
9781589485167 Paperback £89.50 / €106.00

Presents state-of-the-art methods that can be incorporated into any police department’s standard practices. This second edition builds upon the first edition by updating tutorials, adding a new chapter on building and evaluating predictive models using ModelBuilder and ArcGIS’s hot spot analysis tools, and adding a capstone project on hot spot modeling.

**GETTING TO KNOW ARCGIS DESKTOP**

*Fifth Edition*
Michael Law & Amy Collins
2018 748pp
9781589485105 Paperback £105.00 / €124.00

Provides a comprehensive introduction to the features and tools of ArcGIS Desktop. Through hands-on exercises, readers will discover, use, make, and share maps with meaningful content. They will also learn how to build geodatabases, query data, analyze geospatial data, and more.

**GIS TUTORIAL 1 FOR ARCGIS PRO**

*A Platform Workbook*
Wilpen L. Gorr & Kristen S. Kurland
2017 650pp
9781589484665 Paperback £105.00 / €124.00

An introductory text for learning ArcGIS Pro, the premier professional desktop GIS application. In-depth exercises that use ArcGIS Pro, ArcGIS Online, and other ArcGIS apps feature the latest GIS technology, show readers how to make maps, how to create and analyse spatial data, and how to manage systems with GIS.

**INTRODUCTION TO ADVANCED MANUFACTURING**

Ramy Hank & Thorsten Wuest
Nov 2019 218pp
9780680393278 Paperback £130.00 / €150.00

Written by two experienced and passionate engineers whose mission is to make the subject of advanced manufacturing easy to understand and a practical solution to everyday problems. Hank and Wuest have combined their expertise to develop both an applied manual and a theoretical reference that addresses many different needs.

SAE International

**GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS)**

*Eighth Revised Edition*
United Nations Economic Commission for Europe
Nov 2019 570pp
978921171996 Paperback £133.00 / €153.00

Addresses classification and labelling of chemicals by types of hazards. This publication provides the basis for worldwide harmonization of rules and regulations on chemicals and enhances the protection of human health and the environment during their handling, transport and use.

United Nations Publications
FUNDAMENTALS OF MANUFACTURING TECHNOLOGY
Ren Xiaozhong
Jan 2020 324pp
9781783325368 Hardback £74.95 / €94.00

As a basic specialty course, the primary content of this book includes rudimentary knowledge, principal theories and basic approaches of both traditional and advanced manufacturing technologies and equipment. Thus, the fundamental hierarchy of manufacturing technology is constructed in this textbook.

INTRODUCTION TO CHEMICAL THERMODYNAMICS
Rose Marie O. Mendoza
Nov 2019 290pp
9781774072547 Paperback £96.50 / €111.00

Introduces the concept of thermodynamics, including history, laws, chemical thermodynamics and its origin and principles. The book provides insights in to thermodynamics equilibrium, the thermodynamics of chemical mixtures and the biological systems with respect to chemical thermodynamics.

INTRODUCTION TO MODERN INSTRUMENTATION METHODS AND TECHNIQUES
SachchidaNand Shukla
Nov 2019 290pp
9781774073704 Hardback £171.00 / €198.00

Discusses the instrumentation methods used for the purpose of analysis. The book includes the classification of instrumentation and fundamental function of techniques. It also offers a detailed description of mass spectrometry and the experimental methods used for optical spectroscopy.

CHROMATOGRAPHY IN FOOD SCIENCE AND TECHNOLOGY
Edited by Valeria Severino
Nov 2019 290pp
9781774072608 Hardback £166.00 / €192.00

Discusses the emerging point-of-care technologies for the analysis of food safety. The book gives insight into basic concepts of chromatography techniques related to food science and technology so as to understand the major role and application of chromatographic techniques for the analysis of authenticity and integrity of food.

MODERN TECHNIQUES OF COATING AND DRYING IN SURFACE ENGINEERING
Edited by Maria Emilova Velinova
Nov 2019 290pp
9781774071991 Hardback £171.00 / €198.00

Introduces the processes of coating and drying, and the surface defects involved in coating. The book also discusses the preparation of feed for the process of coating, and the concept of roll coating.

GREEN NANOTECHNOLOGY
Edited by Mulmudi Hemant Kumar
Nov 2019 290pp
9781774073360 Hardback £171.00 / €198.00

Discusses the fundamental field of green nanotechnology and the major challenges associated with it. The book also includes green synthesis, characterization and catalytic activity of natural bentonite-supported copper nanoparticles and stem cell tracking by using iron oxide nanoparticles.

SUSTAINABLE MANUFACTURING
Edited by Harinirina Randrianarisoa
Nov 2019 290pp
9781774072745 Hardback £171.00 / €198.00

Offers an introduction to the process of sustainable manufacturing. Coverage includes the application of nanotechnology for sustainable manufacturing, and the challenges involved in sustainable manufacturing. The book also explores the importance of sustainable manufacturing for global value creation.
CONTINUOUS-DISCONTINUOUS FIBER-REINFORCED POLYMERS
An Integrated Engineering Approach
Edited by Thomas Böhlke et al
Nov 2019 348pp
9781569906927 Hardback £145.00 / €169.00
Explores both continuous and discontinuous fiber processing strategies. Specific design strategies for advanced composite reinforcement are provided with an integrated and holistic approach for composites material selection, product design, and mechanical properties.
Not for sale in Austria, Germany and Switzerland

CO-ROTATING TWIN-SCREW EXTRUDERS
Fundamentals
Edited by Klemens Kohlgrüber
Nov 2019 432pp
9781569907474 Hardback £172.00 / €199.99
Derived from the classic, bestselling work Co-Rotating Twin Screw Extruders, this book brings much of the content up to date, with an expanded focus on the fundamentals of co-rotating twin-screw extrusion, including functional zones in the extruder, screw elements, material behaviour, flow properties, and performance behaviour.
Not for sale in Austria, Germany and Switzerland

ELASTIC BEHAVIOR OF POLYMER MELTS
Rheology and Processing
Helmut Münstedt
Aug 2019 296pp
9781569907542 Hardback £160.00 / €179.00
Understanding the elastic properties of polymer melts is necessary for ensuring successful polymer processing and thus producing high-quality plastic parts. This book is the first to focus on this important topic.
Not for sale in Austria, Germany and Switzerland

EVOLVED GAS ANALYSIS
Hyphenated Techniques
Nicolas Fedelich
Nov 2019 214pp
9781569908099 Hardback £86.50 / €99.99
Evolved gas analysis is often used in direct combination with chemical analysis techniques such as gas chromatography, IR spectroscopy, or mass spectrometry, and/or with thermogravimetric analysis. This book focuses on these “hyphenated techniques”, which allow a great deal of chemical information about a sample to be revealed quickly.
Not for sale in Austria, Germany and Switzerland

EXTRUSION OF POLYMERS
Theory & Practice
Chan I. Chung
Nov 2019 512pp
9781569906095 Hardback £129.00 / €149.99
Presents single-screw extrusion technology together with the relevant polymer fundamentals, with an emphasis on screw design. The presentation begins on a physical level, providing an in-depth conceptual understanding, followed by an analytical level with mathematical models. Practical applications of the models are illustrated with examples.
Not for sale in Austria, Germany and Switzerland

THE PHYSICS OF POLYMER INTERACTIONS
A Novel Approach. Application to Rheology and Processing
Jean Pierre Ibar
Nov 2019 464pp
9781569907108 Hardback £155.00 / €179.99
Understanding of polymer interactions is important for effective processing of plastics and their blends, mixing with nanoparticles, and understanding of their mechanical and physical properties. This book describes a physics of interactions in polymers that challenges existing theories, and explains the concept of entanglement in a different way.
Not for sale in Austria, Germany and Switzerland
Covers the entire spectrum of the plastics technology/engineering, from raw material to finished plastic products. The book is intended not just for university/college students in plastics technology and other engineering disciplines but also for beginners to the field in general.

Not for sale in Austria, Germany and Switzerland

An introductory textbook on polymer science aimed at lecturers/professors, undergraduate and graduate students of polymer science and technology courses as well as engineering, chemistry, and physics. Each chapter starts from simple concepts and progressively gets more complex to help the reader decide how deep to go into each topic.

Not for sale in Austria, Germany and Switzerland

Now in its third edition, this is the first book to shed light on the critical role the melt delivery system plays in successful injection molding. This successful book will give you an immediate leg up by reducing mold commissioning times, increasing productivity, improving customer satisfaction, and achieving quality goals such as Six Sigma.

Not for sale in Austria, Germany and Switzerland

Troubleshooting extrusion problems is one of the most challenging tasks in extrusion operations, requiring a good understanding of the extrusion process and the material properties, good instrumentation, good analysis tools, and a systematic and logical approach. This book addresses all issues crucial in extrusion troubleshooting.

Not for sale in Austria, Germany and Switzerland

Many technical books about plastics are too theoretical and difficult to read. The intention of this book is to offer something different: it is easy to read with many examples taken from everyday life. It is suitable for readers at secondary school and university levels, and can be used for training activities in industry and self-study.

Not for sale in Austria, Germany and Switzerland

Presents research on the application of advanced manufacturing technologies in regards to production speed, quality, and innovation. Highlighting topics such as human-machine interaction, quality management, and sensor integration, this publication explores state-of-the-art technologies in robotics engineering and human-robot interaction.
SECURITY PHA REVIEW FOR CONSEQUENCE-BASED CYBERSECURITY
Edward M. Marszal & Jim McGlone
Aug 2019 168pp
9781643310008 Paperback £98.95 / €113.00
Reviews the most common methods for process hazard analysis (PHA) of process industry plants, and then explains how to supplement those methods with an additional security PHA review (SPR) study to determine if there are any cyberattack vectors that can cause significant physical damage to the facility.

ENGINEERING CHEMISTRY
N. Krishnamurthy, P. Vallinayagam & D. Madhavan
Nov 2019 224pp
9789389347005 Paperback £16.50 / €18.00
Presents the fundamental knowledge in water technology; applications of surface chemistry and the concept of nuclear energy and energy storage devices; alloys and phase rule; electrochemistry and principles involved in corrosion and its inhibition; and analysis of fuels and combustion.

INTRODUCTION TO NUMERICAL METHODS IN CHEMICAL ENGINEERING
Pradeep Ahuja
Nov 2019 520pp
9789389347166 Paperback £26.50 / €30.00
Provides an exhaustive presentation of the applications of numerical methods in chemical engineering. The book covers solving linear and non-linear algebraic equations, chemical engineering thermodynamics, initial value problems, boundary value problems, dispersion and diffusion, and steady and transient heat conduction.

BENEFICIATION OF PHOSPHATES
Sustainability, Critical Materials, Smart Processes
Edited by Patrick Zhang et al
Aug 2019 232pp
9780873354745 Paperback £150.00 / €173.00
This compilation from the 2018 Beneficiation of Phosphates Conference includes insights from dozens of internationally respected experts on key breakthroughs that will shape the industry in the years ahead. Learn from the best and the brightest in the industry.

ADVANCES IN JUTE RESEARCH
N. Gokarneshan, U. Dhatchayani & M. Maanvizhi
Aug 2019 297pp
9789385059452 Hardback £119.00 / €141.00
Woodhead Publishing India in Textiles
Reviews significant research in the area of Jute. Recent research has shown the possibilities for newer areas of jute application. One interesting aspect of jute research is that India has made major contributions in the area, and more particularly West Bengal.
GREEN APPARELS
A Sustainable Way of Apparel Manufacturing
M. Parthiban, M.R. Srikrishnan & P. Kandhavadivu
Aug 2019 236pp
9789385059513 Hardback £115.00 / €136.00
Woodhead Publishing India in Textiles
Explores the concept of developing environmentally friendly and sustainable clothing for the future. The book focuses on legal regulations, ecological considerations, and different standards recommended by various countries and certifying agencies.

BESTSELLERS
Hanser Publishers

3D PRINTING
Understanding Additive Manufacturing, Second Edition
Andreas Gebhardt, Julia Kessler & Laura Thurn
2018 230pp
9781569907023 Hardback £62.95 / €70.00
A clear and concise guide to Additive Manufacturing, now a well-established valuable tool for making models and prototypes, and also a manufacturing method for molds and final parts finding applications in industries such as medicine, car manufacturing, and aerospace engineering.

UNDERSTANDING POLYMER PROCESSING
Processes and Governing Equations, Second Edition
Tim A. Osswald
2017 362pp
9781569906477 Paperback £79.95 / €90.00
Provides the background needed to understand not only the wide field of polymer processing, but also the emerging technologies associated with the plastics industry in the 21st Century.

ISA

THE CONDENSED HANDBOOK OF MEASUREMENT AND CONTROL
Fourth Edition
N.E. Battikha
2018 561pp
9781945541384 Hardback £137.00 / €162.00
An authoritative resource for anyone who is responsible for selecting and implementing measurement and control devices for process automation applications. This volume covers ISA symbology; instrument and control valve selection criteria; conversion guidelines; maintenance of measurement and control devices; calibration of measurement and control devices; and consulting.

River Publishers

THE DIGITAL SHOPFLOOR: INDUSTRIAL AUTOMATION IN THE INDUSTRY 4.0 ERA
Performance Analysis and Applications
Edited by John Soldatos, Oscar Lazaro & Franco Cavadini
2019 250pp
9788770220415 Hardback £81.95 / €95.00
River Publishers Series in Automation, Control and Robotics
The Digital Shopfloor Alliance aims at providing leading edge and standards based digital automation solutions, along with guidelines and blueprints for their effective deployment. This book provides a comprehensive description of some of the most representative solutions.

SME

THE HITCHHIKER’S GUIDE TO LEAN
Lessons from the Road
Jamie Flinchbaugh & Andy Carlino
2005 216pp
9780872638310 Hardback £32.50 / €38.00
Reveals the most critical lessons learned over the authors’ combined 30-plus years of exploring the lean highways. The book concludes with interviews of lean practitioners on the front lines of change.
**MECHANICAL ENGINEERING & MATERIALS SCIENCE**

**METAL FORMING TECHNOLOGY**
S. Venugopal Baldevraj  
Nov 2019 600pp  
9788184872606 Hardback £84.95 / €107.00  

Presents the latest developments in this important area. Articles on fundamentals, newer processes, novel ways of analysing and interpreting the results, peripheral areas, quality management, environmental aspects and advanced technologies on metal forming are all described in this book.

**Narosa Publishing House**  
*Only for sale in Eastern Europe*

**ULTRASONICS AND MATERIALS SCIENCE FOR ADVANCED TECHNOLOGY**
Giridhar Mishra et al  
Jan 2020 424pp  
9781783325467 Hardback £89.95 / €113.00  

Covers interdisciplinary ultrasonics and materials science in a broad spectrum. The book also presents recent advances in development of theory, experiments and industrial applications.

**Arcler Press**  
*Only for sale in Eastern Europe*

**MECHANICS OF ACCURACY IN ENGINEERING DESIGN OF MACHINES AND ROBOTS**
Volume 2, Stiffness and Metrology  
Vladimir T. Portman  
Nov 2019 332pp  
97807891861691 Hardback £152.00 / €175.00  

Accuracy provision, maintenance, and enhancement are hot problems in manufacturing and manufacturing science. This volume covers stiffness-compliance directly associated with the machine and robot accuracy through static deformations and computer-aided metrology aimed at final assessments of the accuracy-associated performance indexes.

**PRECISION PROGRAMMING OF ROVING ROBOTS**
Project-Based Fundamentals of Wheeled, Legged and Hybrid Mobile Robots  
Francis Nickols & Yueh-Jaw Lin  
Nov 2019 306pp  
9780789186192 Hardback £152.00 / €175.00  

A laboratory operations manual for fundamental mechatronics and robotics experiential and project-based learning. The book is ordered in that starting with the Tricycle Robot, students build up their knowledge and experience of programming to be able to tackle the Rickshaw Robot and finally the most complex robot.

**THERMAL DESIGN OF LIQUID COOLED MICROELECTRONIC EQUIPMENT**
Lian-Tuu Yeh  
Nov 2019 277pp  
97807891861936 Hardback £131.00 / €151.00  

Focuses on providing practical solutions to thermal issues related to high power systems where liquid cooling is required. The book serves as a general thermal design guide for any liquid cooled systems with the main focus on microelectronic equipment that includes digital and/or analogue devices.

**BIO-BASED PLASTICS**
Materials and Applications  
Edited by Navodita Bhatnagar  
Nov 2019 290pp  
9781774072776 Hardback £171.00 / €198.00  

Provides a detailed insight on the various applications and uses of bio-based plastics, highlighting the significance of such materials for future use, looking at and realizing the relevance of bio-materials in the future. The book presents the required information on bio-based plastics and the importance of such plastics today.
CREATIVE DESIGN OF MECHANICAL DEVICES
Edited by Nelson Bolivar
Nov 2019 290pp
9781774071595 Hardback £171.00 / €198.00
Deals with the fundamental concepts of mechanical design and engineering. The book includes the basic mechanism involved in the designing of mechanical devices and certain motion control systems. It also provides the fundamentals of mechanical design and engineering so as to analyse the basic mechanisms involved in mechanical devices.

ASM HANDBOOK, VOLUME 10
Materials Characterization
Edited by Thomas J. Bruno et al
Dec 2019 800pp
9781627082112 Hardback £320.00 / €370.00
Provides detailed technical information that will enable readers to select and use analytical techniques that are appropriate for their problem. Each article describing a characterization technique begins with an overview of the method in simplified terms and lists common applications as well as limitations.

ASM HANDBOOK, VOLUME 2B
Properties and Selection of Aluminum Alloys
Edited by Kevin Anderson, John Weritz & J. Gilbert Kaufman
Oct 2019 730pp
9781627082082 Hardback £320.00 / €370.00
Provides new and expanded coverage on the metallurgy, processing, fabrication, properties, and performance of aluminum alloys. The aluminum alloy datasheets are designed for easy look up with details on key alloy metallurgy, processing effects on properties, and fabrication characteristics.

ASM HANDBOOK VOLUMES 2A AND 2B
Aluminum Set
Edited by Kevin Anderson & John Weritz
Oct 2019 1520pp
Hardback £686.00 / €575.00
This set includes ASM Handbooks, Volume 2A: Aluminum Science and Technology and Volume 2B: Properties and Selection of Aluminum Alloys.

HANDBOOK OF CASE HISTORIES IN FAILURE ANALYSIS
Volume Three
ASM International
Dec 2019 735pp
9781627082396 Hardback £229.00 / €263.00
Examines more than 100 cases of failure and the process by which they were analyzed, diagnosed, and resolved. The book provides expert analysis and insight on a variety of materials, failure modes, root causes, and analytical techniques. It includes sections dedicated to specific components and industries.

CBS Publishers & Distributors Pvt Ltd, India

SHEET METAL PRESS TOOLS DESIGN AND MAKING
A Practical Approach
M. Luqman
Jan 2020 392pp
9788123925134 Paperback £11.50 / €13.00
Explains various materials of construction of tools, tools design, machining methods, assemblies and selection of power presses, automation, safety and quality aspects. Theoretical aspects are also discussed.

Oxford & IBH Publishers

Cognella Academic Publishing

INTRODUCTION TO VIBRATION IN ENGINEERING
Second Edition
Sung Lee & Norman Wereley
Nov 2019 220pp
9781516565146 Paperback £96.50 / €111.00
A concisely written text that helps students master the fundamentals of vibration. Students learn how to construct equations of motion using the energy approach, as well as the Newton’s second law, and how to use analytical and computational tools for vibration analysis.
ADDITIVE MANUFACTURING
Breakthroughs in Research and Practice
Edited by Information Resources Management Association
Jul 2019 525pp
9781522596240 Hardback £279.00 / €325.00
Examines trends, challenges, issues, and strategies related to 3D object scanners and computer-aided design software in manufacturing processes and its impact on materials manufacturing production. The book also explores the benefits of using additive manufacturing in industrial settings, and future outlooks for this technology.

APPLICATIONS AND TECHNIQUES FOR EXPERIMENTAL STRESS ANALYSIS
Edited by Karthik Selva Kumar Karuppasamy & Balaji P.S
Dec 2019 350pp
9781799816904 Hardback £231.00 / €270.00
Examines how experimental stress analysis supports the development and validation of analytical and numerical models, the progress of phenomenological concepts, the measurement and control of system parameters under working conditions, and identification of sources of failure or malfunction.

DIVERSE APPLICATIONS OF ORGANIC-INORGANIC NANOCOMPOSITES
Emerging Research and Opportunities
Edited by Gabriele Clarizia & Paola Bernardo
Nov 2019 235pp
9781799815303 Hardback £184.00 / €215.00
Provides vital research on the application of organic-inorganic nanocomposite materials within various professional disciplines and in different human activities. The book highlights a range of topics, including photocatalysis, atomistic modelling, and membrane separation.

ENHANCED HEAT TRANSFER MECHANISM OF NANOFUID MQL COOLING GRINDING
Emerging Research and Opportunities
Changhe Li & Hafiz Muhammad Ali
Nov 2019 350pp
9781799815464 Hardback £222.00 / €259.00
Provides emerging research exploring the theoretical and practical aspects of nanofluid lubrication and its application within grinding flow and green manufacturing. The book features coverage on a broad range of topics, including airflow distribution, morphology analysis, and lubrication performance.

HANDBOOK OF RESEARCH ON ADVANCED MECHATRONIC SYSTEMS AND INTELLIGENT ROBOTICS
Edited by Maki K. Habib
Nov 2019 400pp
9781799801375 Hardback £279.00 / €325.00
Presents research on the methods and applications of knowledge in both theoretical and practical skills of intelligent robotics and mechatronics. Highlighting topics including green technology, machine learning, and virtual manufacturing, this book is designed for researchers, students, engineers, and computer practitioners.

HANDBOOK OF RESEARCH ON RECENT DEVELOPMENTS IN ELECTRICAL AND MECHANICAL ENGINEERING
Edited by Jamal Zbitou, Catalin Iulian Pruncu & Ahmed Errkik
Nov 2019 400pp
9781799801177 Hardback £241.00 / €281.00
Featuring research on topics such as materials manufacturing, microwave photons, and wireless power transfer, this book is aimed at graduate students, researchers, engineers, manufacturing managers, and academicians seeking coverage on the works and experiences achieved in electrical and mechanical engineering.

RECENT DEVELOPMENTS AND TRENDS IN INDUSTRIAL AND MATERIALS ENGINEERING
Edited by Prasanta Sahoo
Nov 2019 370pp
9781799818311 Hardback £279.00 / €325.00
Presents innovative research on the theoretical and practical aspects of integrated systems within engineering. This book provides a forum for professionals to understand the advancing methods of engineering. It highlights a range of topics, including operations management, decision analysis, and communication technology.

ELEMENTS OF MACHINE DESIGN
H.G. Patil et al
Nov 2019 1240pp
9789384588502 Paperback £110.00 / €128.00
Presents the fundamentals of machine design. Each chapter contains theory and a number of solved examples. Chapters one to five deal with the basic principles of machine design. The remainder of the book covers the design procedures for individual machine elements.
Mechanical maintenance engineering is increasing in importance due to rising number of equipment, systems, machineries and infrastructure. Maintenance is to ensure a unit is fit for purpose, with maximum availability at minimum costs. This book provides an introduction to the subject.

AN INTRODUCTION TO LIQUID CRYSTALS
Gregory A DiLisi
Edited by James J. DeLuca
Sep 2019 80pp
9781643276816 Paperback £39.95 / €42.00
9781643276854 Hardback £59.95 / €70.00
Practically every display technology in use today relies on the flat, energy-efficient construction made possible by liquid crystals. These displays provide visually-crisp, vibrantly-colored images that a short time ago were thought only possible in science fiction. This volume provides an introduction to liquid crystals.

OPEN-CHANNEL MICROFLUIDICS
Fundamentals and Applications
Jean Berthier, Ashleigh B. Theberge & Erwin Berthier
Nov 2019 170pp
9781643276618 Paperback £69.95 / €82.00
9781643276656 Hardback £91.50 / €105.00
Open-channel microflow is a flow at the micro-scale, guided by solid structures, and having at least a free boundary (with air or vapour) other than the advancing meniscus. This book is devoted to the study of open-channel microfluidics which (contrary to paper or thread or droplet microfluidics) is still very sparsely documented.

RELIABILITY-BASED MECHANICAL DESIGN
Xiaobin Le
Volume 1, Component Under Static Load
Nov 2019 263pp
9781681736594 Paperback £91.50 / €105.00
9781681736617 Hardback £110.00 / €128.00
Synthesis Lectures on Mechanical Engineering
Volume 2, Component Under Cyclic Load and Dimension Design with Required Reliability
Nov 2019 255pp
9781681736624 Paperback £91.50 / €105.00
9781681736648 Hardback £110.00 / €128.00
Synthesis Lectures on Mechanical Engineering
A component will not be reliable unless it is designed with required reliability. This book uses reliability to link all design parameters of a component together to form a limit state function for mechanical design. This design methodology uses the reliability to replace the factor of safety as a measure of the safe status of a component.

TRANSFORMATIONS OF MATERIALS
Dimitri D. Vvedensky
Sep 2019 183pp
9781643276715 Paperback £81.50 / €93.00
9781643276722 Hardback £100.00 / €116.00
After a review of thermodynamics, this book covers Brownian motion and the diffusion equation, diffusion in solids based on transition-state theory, spinodal decomposition, nucleation and growth, instabilities in solidification, and diffusionless transformations. Each chapter includes exercises whose solutions are available in a separate manual.
PHI Learning

ROBOTICS
Mechanics and Control
K.R. Guruprasad
Nov 2019 244pp
9789388028615 Paperback £16.95 / €19.00
Focuses on one of the important classes of robots - manipulators or robotic arms - and provides a thorough treatment of its kinematics, dynamics, and control. The book also covers the problem of trajectory generation and robot programming.

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American Society of Mechanical Engineers

THE ELEMENTS OF MECHANICAL DESIGN
James G. Skakoon
2008 104pp
9780791802670 Paperback £33.50 / €36.00
Written by one of the authors of The Unwritten Laws of Engineering and The Unwritten Laws of Business, this book is suitable for professionals interested in the basic principles and practices of good mechanical design.

PIPE STRESS ENGINEERING
Liang-Chuan Peng & Tsen-Looong Peng
2009 500pp
9780791802854 Hardback £159.00 / €172.00

ASM International

METALLURGY FOR THE NON-METALLURGIST
Second Edition
Edited by Arthur C. Reardon
2011 450pp
9781615038213 Hardback £195.00 / €225.00
This revised second edition provides a solid understanding of the basic principles and current practices of metallurgy and is for anyone who uses, makes, buys or tests metal products.

STEEL METALLURGY FOR THE NON-METALLURGIST
Dr. John Verhoeven
2007 228pp
9780871708588 Hardback £136.00 / €156.00
Explains the metallurgy of steel and its heat treatment for non-metallurgists, starting with the basics and then gradually introducing more complex concepts involved in heat treatment of most types of steel.

Hanser Publishers

MATERIALS SCIENCE OF POLYMERS FOR ENGINEERS
Third Edition
Tim A. Osswald & Georg Menges
2012 595pp
9781569905142 Hardback £88.50 / €99.90
Covers the basic principles, influence of processing on properties, and engineering design properties.
Not for sale in Austria, Germany and Switzerland
Read what industry thought leaders are saying about research and advancements in ground control science. This proceedings from the 38th International Conference includes 43 peer-reviewed research papers from industry experts covering topics of importance for today and the future.

**RAPID EXCAVATION AND TUNNELING CONFERENCE 2019 Proceedings**
Edited by Christopher D. Hebert & Scott W. Hoffman
Jul 2019 1280pp
9780873354707 Hardback £212.00 / €254.00
Covers contracting practices, design and planning, geotechnical considerations, hard-rock tunnel boring machines, new and innovative technologies, pressure-face TBM case histories, and tunneling for sustainability. The papers will inform, challenge, and stimulate each reader.

**RECOMMENDED CONTRACT PRACTICES FOR UNDERGROUND CONSTRUCTION**
Second Edition
Edited by Sarah H. Wilson
Jul 2019 232pp
9780873354592 Paperback £135.00 / €161.00
The recommendations contained in this edition are intended to guide owners and their engineers in developing and administering contracts and to give contractors a better understanding of the rationale behind contract provisions. The goal is that more underground projects can be best projects.

It is important for coal preparation engineers and practitioners to be aware of advances in technology to improve plant efficiency and productivity in cost-effective ways. This book provides both a domestic and international perspective on these new technologies and includes papers from industry leaders in the US, Australia and South Africa.

**CHALLENGES AND OPPORTUNITIES IN COAL PREPARATION**
Edited by Mark S. Klima, Barbara J. Arnold & Peter J. Bethell
Nov 2019 144pp
9780873354776 Paperback £89.95 / €104.00
This book provides both a domestic and international perspective on these new technologies and includes papers from industry leaders in the US, Australia and South Africa.
**BESTSELLERS**

**Society for Mining, Metallurgy & Exploration**

**HOW MINING WORKS**  
W. Scott Dunbar  
2015 224pp  
9780873353991 Paperback £110.00 / €133.00  
Explains complex mining concepts in a way simple enough for those who are not familiar with the industry, yet thorough enough to be useful to long-time professionals.

**PROJECT MANAGEMENT FOR MINING**  
Handbook for Delivering Project Success  
Robin J. Hickson, Terry L. Owen  
2015 816pp  
9780873354035 Hardback £222.00 / €265.00  
Written by two hands-on, in-the-trenches mining project managers with decades of experience who bring some of the world’s most successful, profitable mines into operation on time, within budget, and ethically, Project Management for Mining gives you step-by-step instructions in every process you are likely to encounter.

**SME MINING ENGINEERING HANDBOOK**  
Third Edition  
Edited by Peter Darling  
2011 1984pp, two volumes  
9780873352642 Hardback £290.00 / €346.00  
Distils the body of knowledge that characterizes mining engineering as a disciplinary field and has subsequently helped to inspire and inform generations of mining professionals.

**TRANSPORTATION & LOGISTICS**

**IGI Global**

**GLOBAL ADVANCEMENTS IN CONNECTED AND INTELLIGENT MOBILITY**  
Emerging Research and Opportunities  
Edited by Fatma Outay, Ansar-Ul-Haque Yasar & Elhadi Shakshuki  
Jun 2019 270pp  
9781522590194 Hardback £184.00 / €215.00  
Discusses the recent advances, safety, and efficiency in connected vehicles, as well as the next generation of communication network development. The book includes research on topics such as vehicular networks, telematics, and context-aware intelligence.

**United Nations Publications**

**RECOMMENDATIONS ON THE TRANSPORT OF DANGEROUS GOODS**  
Model Regulations Vol. I & II, 21st Revised Edition  
United Nations Economic Commission for Europe  
Nov 2019 890pp  
English edition  
9789211391688 Paperback £192.00 / €220.00  
French edition  
9789211391695 Paperback £192.00 / €220.00  
Recommendations on the Transport of Dangerous Goods: Model Regulations  
Covers the classification of dangerous goods and their listing, the use, construction, testing and approval of packagings and portable tanks, and the consignment procedures (marking, labelling, placarding and documentation).

**REVIEW OF MARITIME TRANSPORT 2019**  
United Nations Conference on Trade and Development  
Jan 2020 124pp  
9789211129588 Paperback £91.50 / €106.00  
Provides a concise update of key data relating to the maritime transport sector, spanning demand and supply, performance, and transversal issues ranging from regulatory and legal developments affecting maritime transport and technological developments/innovation, with the theme being ‘Sustainable Shipping’.
WORLD FORUM FOR HARMONIZATION OF VEHICLE REGULATIONS (WP.29)

How it works - How to join it
United Nations Economic Commission for Europe
Nov 2019 136pp
9789211171891 Paperback £39.50 / €46.00

Provides precise and updated information on the World Forum for Harmonization of Vehicle Regulations (WP.29) serviced by the UNECE Sustainable Transport Division: on its historical background, its administrative and legal framework with a user’s guide, and the three international UN Agreements administered by the World Forum.

BESTSELLER

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR)

Applicable as from 1 January 2019
United Nations Economic Commission for Europe
2018 1,200pp, 2 volume set
Paperback £175.00 / €195.00
9789211391633 English
9789212391434 French
9789216390228 Russian
9789211391657 USB Flash Drive £165.00 + VAT / €185.00 + VAT

Intended to increase the safety of international transport of dangerous goods by road, this regularly amended and updated agreement contains the conditions under which dangerous goods may be carried internationally. This version has been prepared on the basis of amendments applicable as from 1 January 2019.

NEW EDITION OF BESTSELLER

THE UNWRITTEN LAWS OF ENGINEERING
Second Edition
W.J. King
Nov 2019 60pp
9780791861567 Paperback £16.95 / €19.00

On the 75th anniversary of its original publication, this new, second edition of the 1944 classic serves as a crucial compilation of “house rules”, or a professional code. The book addresses three areas what the beginner needs to learn at once; “laws” relating chiefly to engineering executives, and purely personal considerations for engineers.

American Society of Mechanical Engineers

WILLY LEY

Prophet of the Space Age
Jared S. Buss
Mar 2020 336pp, 10 b&w photos
9780813068244 Paperback £27.50 / €32.00

Willy Ley inspired young rocket scientists and would-be astronauts around the world to imagine a future of interplanetary travel long before space shuttles existed. This is the first biography of the science writer and rocketeer who predicted and boosted the rise of the Space Age.

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H.W. Wilson

**NEW FRONTIERS IN SPACE**
*Edited by H.W. Wilson*
Nov 2019 277pp
9781642652222 Paperback £76.50 / €87.00

*Reference Shelf*

Examines the evolving issues of space science and technology, providing periodical articles that provide perspective of America’s past, present, and future in the realm of space exploration.

IGI Global

**ADVANCED TECHNOLOGY-ASSISTED PROBLEM SOLVING IN ENGINEERING EDUCATION**
*Emerging Research and Opportunities*
*Manjit Singh Sidhu*
Nov 2019 225pp
9781799804659 Hardback £184.00 / €215.00

Examines the development and use of interactive multimedia and mixed reality applications that are used to support engineering pedagogy and curriculum. Containing leading international findings, this publication delivers quality research using learning and consultancy for developing tactics to decipher dilemmas within the field.

**DESIGN OF EXPERIMENTS FOR CHEMICAL, PHARMACEUTICAL, FOOD, AND INDUSTRIAL APPLICATIONS**
*Edited by Eugenia Gabriela Carrillo-Cedillo et al*
Dec 2019 350pp
9781799815181 Hardback £241.00 / €281.00

A reference source that seeks to increase the use of design of experiments to optimize and improve analytical methods and productive processes in order to use less resources and time. The book highlights topics such as multivariate methods, factorial experiments, and pharmaceutical research.

**PATTERN RECOGNITION APPLICATIONS IN ENGINEERING**
*Edited by Diego Alexander Tibaduiza Burgos, Maribel Anaya Vejar & Francesc Pozo*
Dec 2019 300pp
9781799818397 Paperback £203.00 / €237.00

Discusses various strategies of pattern recognition algorithms within industrial and research applications and provides examples of results in different professional areas, including electronics, computation, and health monitoring. The book features research on topics such as condition monitoring, data normalization, and bio-inspired developments.

IK International Pvt. Ltd

**INDUSTRIAL ENGINEERING AND MANAGEMENT**
*Kaushik Kumar & Divya Zindini*
Nov 2019 520pp
9789386768506 Paperback £34.95 / €41.00

Explores the principles of optimizing the complex systems and processes of an organisation. Coverage includes industrial engineering and management; productivity and ways to increase it; work measurement through time study; entrepreneurial development; inspection and statistical quality control; and production planning and control.

Morgan & Claypool Publishers

**GENERATING FUNCTIONS IN ENGINEERING AND THE APPLIED SCIENCES**
*Rajan Chattamvell & Ramalingam Shanmugam*
Aug 2019 111pp
9781681736389 Paperback £44.95 / €53.00
9781681736402 Hardback £64.95 / €76.00

*Synthesis Lectures on Engineering*

Offers an introduction to generating functions (GFs) and their applications. The book discusses commonly encountered GFs in engineering and applied sciences, such as ordinary generating functions and exponential generating functions. Some new GFs, like Pochhammer generating functions for both rising and falling factorials, are also introduced.
From whale oil to kerosene, from the colonial period to the end of the US Civil War, modern, industrial lights brought wonderful improvements and incredible wealth to some. But for most workers, free and unfree, human and nonhuman, these lights were catastrophes. This book tells their stories.

HOW TO SELL ENGINEERED PRODUCTS
Chris Kapp
Jul 2019 200pp
9781593704919 Hardback £92.50 / €109.00
Combines sales tactics and company strategy in a unique way and shows how they must complement each other for true success. Building on real world turbo-machinery examples in the Energy industries, business theory as well as engineering tips and tricks are woven together to form a holistic picture of how to execute business correctly.

PLUNKETT'S ENGINEERING & RESEARCH INDUSTRY ALMANAC 2020
Jack W. Plunkett
May 2020 255pp
9781628315318 Paperback £305.00 / €345.00
Plunkett's Industry Almanacs
A complete guide to the trends and leading companies in the engineering, research, design, innovation and development business fields, covering those firms that are dominant in engineering-based design and development, as well as leaders in technology-based research and development.

SOCIAL LIFE OF BIOMETRICS
George C. Grinnell
May 2020 244pp
9781978809062 Paperback £24.95 / €30.00
Considers the social and cultural life of biometrics by examining what it is asked to do, imagined to do, and its intended and unintended effects. As a human-focused account of technology, the book contends that biometrics needs to be understood as a mode of thought that informs how we live and understand one another.

USA IN SPACE
Fourth Edition
Edited by Salem Press
Nov 2019 277pp
9781642653137 Hardback £297.00 / €340.00
Includes over 300 essays on the major space topics, including programmes, piloted and robotic missions, satellites, space centres, space planes, and other relevant issues from the earliest missions to the present day. This new edition includes significant updated to existing essays, but also covers new firsts and significant accomplishments in space occurring in the 13 years since the last edition.

GEOGRAPHY'S QUANTITATIVE REVOLUTIONS
Edward A. Ackerman and the Cold War Origins of Big Data
Elvin Wyly
Nov 2019 168pp
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Traces the recent history of geography, information, and technology through the biography of Edward A. Ackerman, an important figure in geography’s “quantitative revolution”. The book argues that Ackerman’s work helped encode the hidden logics of a distorted philosophical heritage into the network architectures of surveillance capitalism.
American Society of Civil Engineers

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Steven K. Starrett, Amy L. Lara & Carlos Bertha
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Provides in-depth analysis with extended discussions and study questions of case studies that are based on real work situations.

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Shoots Veis
2017 132pp
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ASCE Press
Takes readers step by step through the process of preparing for a presentation. Shoots Veis breaks the main topics into component pieces and explains the range of choices, emphasizing the importance of understanding your audience.

**WOMEN IN ENGINEERING**
Pioneers and Trailblazers
Edited by Margaret E. Layne
2010 260pp
9780784409800 Paperback £46.50 / €50.00
ASCE Press
Places the significant contributions women have made to engineering, in areas as diverse as construction management, environmental protection, and industrial efficiency, in their proper historical context.

American Society of Mechanical Engineers

**TECHNICAL WRITING A-Z**
A Commonsense Guide to Engineering Reports and Theses
Trevor M. Young
2005 240pp
British English Edition
9780791802373 Paperback £33.50 / €36.00
U.S. English Edition
9780791802366 Paperback £33.50 / €36.00
ASCE Press
Provides guidelines, advice, and technical information for preparing formal documents. This guide covers topics such as: the format and content of reports and theses; copyright and plagiarism; print and Internet reference citation; abbreviations; units and conversion factors; and, significant figures.

Rutgers University Press

**IGNITION!**
An Informal History of Liquid Rocket Propellants
John D. Clark
2018 302pp
9780813595832 Paperback £20.95 / €25.00
Tells the story of the search for a rocket propellant which could be trusted to take man into space. Acclaimed scientist and sci-fi author John D. Clark writes with irreverent and eyewitness immediacy about the development of the explosive fuels strong enough to negate the relentless restraints of gravity.
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