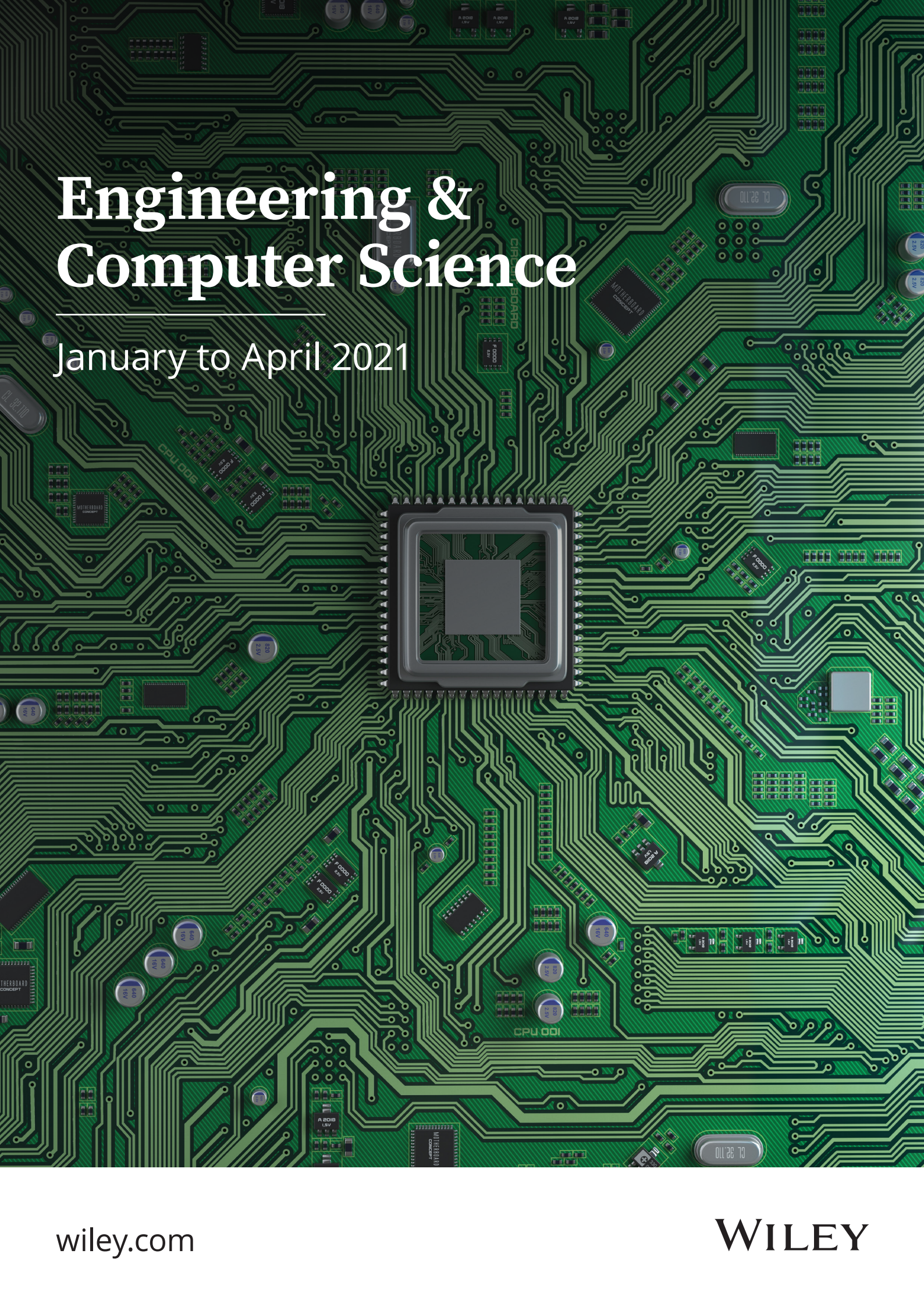




Engineering & Computer Science

January to April 2021



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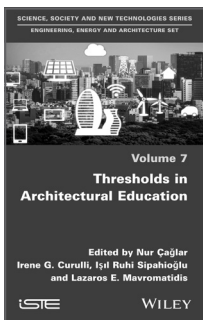
Lead Title



Adoptable Textbook

All information are correct at press time but are subject to change without prior notice.

ARCHITECTURE SPECIAL TOPICS



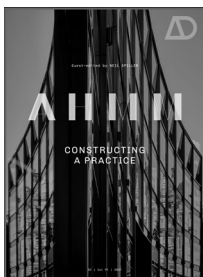
Thresholds in Architectural Education

Nur Caglar, Irene G. Curulli, Isil Ruhi Sipahioglu & Lazaros Mavromatidis

The book explores, discusses, and considers new and innovative perspectives on the crossings, interactions, and transformations of non-formal, informal learning, and formal learning within or prior to FADS and Internship. The contributions provide a wider perspective on the alternating Final Architectural Design Studios and Internship programs as interfaces and interaction zones among different learning experiences that lead to professional and intellectual qualification.

Reference • Wiley-ISTE • 9781786306494 • Sep 2020 • Cloth • TBA • US\$164.95

BUILDING DESIGN



AHMM

Constructing a Practice

Neil Spiller

AHMM is a premier international architectural practice. Established over 30 years ago, it has won numerous awards including the Stirling Prize. Through the contributions of journalists, clients, fellow professionals and academics, this AD issue celebrates the practices achievements in all areas of architectural production, featuring archive material, new works and unparalleled access to the AHMM organisation, revealing new insights into their work and urban philosophies.

Trade • Wiley • 9781119717485 • Apr 2021 • Paper • 136pp • US\$45.00

Building Codes Illustrated

Building Codes Illustrated

A Guide to Understanding the 2021 International Building Code, 7th Edition

Francis D. K. Ching & Steven R. Winkel

This unique reference to the 2021 International Building Code marries the graphic skills of bestselling author Frank Ching with the code expertise of Steven Winkel, FAIA. It pulls out portions of the building code that are most relevant for the architect and provides an easy-to-understand interpretation in both words and illustrations. This new edition will include three new chapters: Plumbing Fixture Counts, Elevators, and Special Construction, and an extensively expanded chapter on Existing Buildings.

Trade • Wiley • 9781119772408 • Apr 2021 • Paper • 480pp • US\$67.95 • Previous ed: 9781119480358

Building Codes Illustrated

Building Codes Illustrated

The Basics

Francis D. K. Ching & Steven R. Winkel

A student-centric introduction to the 2021 International Building Code in Frank Ching's signature style. This all-new, *Building Codes Illustrated: The Basics* has been restructured and condensed to be a companion textbook for students in architecture, construction management and engineering programs. Only the most important topics for an introductory codes course are included in this visual guide.

Trade • Wiley • 9781119772514 • Mar 2021 • Paper • 224pp • US\$49.95



Guide to the BIM Body of Knowledge

Guide to the BIM Body of Knowledge

Metrics, KSAs, and Learning Outcomes for Developing BIM Talent

Wei Wu, Glenda Mayo, Tamera McCuen, Raymond Issa & Dana K. Smith

A BIM implementation guide that provides a systematic approach to BIM teaching and training for students and professionals pursuing BIM careers—cultivating core BIM competencies and a global BIM culture.

Trade • Wiley • 9781119687283 • Mar 2021 • Paper • 304pp • US\$98.95



Multiform

Architecture in an Age of Transition

Owen Hopkins & Erin McKellar

This issue brings together a range of architects and critical voices to reflect on these questions and offer some answers. Essays by historians and critics situate practice in relation to postmodernism and its legacies. Following these will be essays by architects situating their work in relation to the ideas posited by the thematic introduction, and the broader contexts in which it operates and proceeds. The issue will be completed by interviews with early career architects, reflecting on their work thus far, its influences, pressures and future directions.

Trade • Wiley • 9781119717669 • Feb 2021 • Paper • 136pp • US\$39.95

Simplified Engineering for Architects and Builders

Simplified Engineering for Architects and Builders

13th Edition

James E. Ambrose & Patrick Tripeny

For eighty years *Simplified Engineering for Architects and Builders* has been the gold standard for the industry and the reference of choice for designers and construction professionals. The extensive revisions and updates in this new Thirteenth Edition reflect the most current practices for designing structures, including advanced topics in wood engineered buildings and extended coverage of ASD and LRFD methods.

Trade • Wiley • 9781119523055 • Mar 2021 • Paper • 464pp • US\$TBA • Previous ed: 9781118975046



Zinc Surfaces

Zinc Surfaces

A Guide to Alloys, Finishes, Fabrication and Maintenance in Architecture and Art

L. William Zahner

Zinc, the fifth book in Zahner's *Architectural Metals Series*, is a comprehensive and authoritative treatment of zinc applications in architecture and art. This visual, full-color guide offers architecture and design professionals the information they need to ensure proper maintenance and fabrication techniques. Zahner's approach to the use of zinc in architecture and art covers everything from the history of the metal and choosing the right alloy, to detailed information on a variety of surface and chemical finishes and corrosion resistance.

Trade • Wiley • 9781119541615 • Mar 2021 • Paper • 208pp • US\$TBA

GENERAL & INTRODUCTORY ARCHITECTURE

Lean Architecture

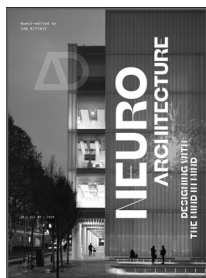
Lean Architecture

Excellence in Project Delivery

Michael F. Czap & Gregory T. Buchanan

Lean Architecture is a lean implementation guide for design firm leadership, project managers, and architecture professionals. This guide to the building blocks of Lean for design firms outlines important metrics and time-tested implementation strategies for firms of all sizes, presents relatable examples highlighting successful Lean application and describes how to avoid common obstacles in introducing and integrating Lean practice across a design firm.

Trade • Wiley • 9781119686934 • Mar 2021 • Cloth • 224pp • US\$74.95



Neuroarchitecture

Designing with the Mind in Mind

Ian Ritchie

Addresses the growing interest in neuroarchitecture from the design community, providing a rich, deep insight into the role it can play in future building design, and illustrates the tools available to architects to improve occupiers experience of architecture, to deliver positive reactions and responses.

Trade • Wiley • 9781119685371 • Nov 2020 • Paper • 136pp • US\$39.95 • Previous ed: 9781119617563

PROFESSIONAL PRACTICE

The Architect's Guide to Developing and Managing an International Practice

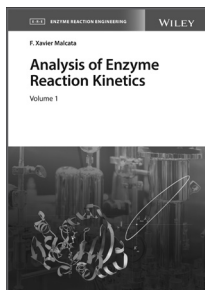
The Architect's Guide to Developing and Managing an International Practice

Bradford Perkins

The Architect's Guide to Developing and Managing an International Practice is a practical guide for architects considering or are already engaged in international work, that offers guidance on the full-spectrum of international practice; from recruiting and licensing to strategic planning and expansion. This guide offers exclusive insights and case studies from experienced architects working around the world. Written by Bradford Perkins, Co-founder and Chairman of the 1,000-person global architecture firm Perkins Eastman.

Trade • Wiley • 9781119630166 • Feb 2021 • Cloth • 336pp • US\$89.95

CHEMICAL ENGINEERING



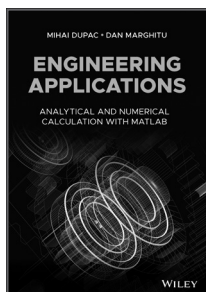
Analysis of Enzyme Reaction Kinetics

2 Volume Set

F. Xavier Malcata

Analysis of Enzyme Reaction Kinetics is the second set in a unique eleven-volume collection on Enzyme Reactor Engineering. It comprehensively introduces readers to modelling of rate of enzymatic reactions and describes rate expressions pertaining to enzymatic reactions, including modulation by physicochemical factors, as well as tools for prediction and control of how fast substrates are transformed to products.

Reference • Wiley-Blackwell • 9781119490241 • Apr 2021 • Cloth • 1472pp • US\$425.00



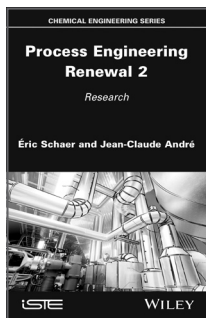
Engineering Applications

Analytical and Numerical Calculation with MATLAB

Mihai Dupac & Dan Marghitu

Mechanical Engineering Applications presents a comprehensive text to the fundamental principles and applications of the statics and mechanics of materials in the design of complex mechanical systems. The book uses the modern tool of MATLAB to help solve problems with numerical and analytical calculations.

Reference • Wiley • 9781119093626 • Apr 2021 • Cloth • 360pp • US\$130.00



Process Engineering Renewal 2

Research

Éric Schaer & Jean-Claude André

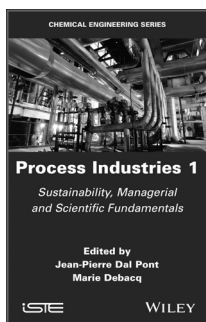
Process engineering emerged at the beginning of the 20th Century and has become an essential scientific discipline for the matter and energy processing industries. Its success is incontrovertible, with the exponential increase in techniques and innovations. Rapid advances in new technologies such as artificial intelligence, as well as current societal needs – sustainable development, climate change, renewable energy, the environment – are developments that must be taken into account in industrial renewal.

Reference • Wiley-ISTE • 9781786305541 • Sep 2020 • Cloth • TBAp • US\$164.95

Also available:

Process Engineering Renewal 3: Prospects

Reference • Wiley-ISTE • 9781786305572 • Sep 2020 • Cloth • TBAp • US\$164.95



Process Industries 1

Sustainability, Managerial and Scientific Fundamentals

Jean-Pierre Dal Pont & Marie Debacq

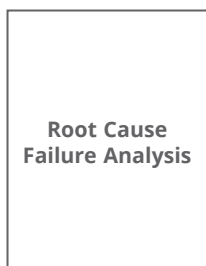
Of crucial economic and societal importance, process industries transform matter by chemical, physical or biological means. They cover broad fields such as chemistry, oil, pharmacy, metallurgy and agri-food, to name a few. *Process Industries* is the result of knowledge exchange between the academic and industrial worlds—to find solutions to overcome the challenges, through process engineering technologies, as well as in the ability to renew management models.

Reference • Wiley-ISTE • 9781786304421 • Oct 2020 • Cloth • 272pp • US\$164.95 • Print-on-demand

Also available:

Process Industries 2: Digitalization, a New Key Driver for Industrial Management

Reference • Wiley-ISTE • 9781786305626 • Oct 2020 • Cloth • 288pp • US\$164.95 • Print-on-demand



Root Cause Failure Analysis

A Guide to Improve Plant Reliability

Trinath Sahoo

Root Cause Failure Analysis presents a clear understanding of the degradation mechanisms that process equipment could be subjected to over their operating life, how to identify, predict, and determine their impact, and appropriate measures that can be taken to prevent and control the resultant damage. The book also describes how proper design, operation, and maintenance of the equipment help to enhance their reliability.

Reference • Wiley • 9781119615545 • Mar 2021 • Cloth • TBAp • US\$149.95

Agitator Design for Gas-Liquid Fermenters and Bioreactors

Agitator Design for Gas-Liquid Fermenters and Bioreactors

Gregory T Benz

This resource presents the basic principles and concepts on the design of agitation systems for gas-liquid mechanically agitated fermenters and bioreactors. It covers mass transfer, heat transfer, and power cost issues, as well as the essentials of mechanical design needed to ensure a sound installation. Procedures for minimizing net energy consumption per unit, mass of product, and criteria for vendor evaluation are also included.

Reference • Wiley-AIChE • 9781119650492 • Mar 2021 • Cloth • 416pp • US\$124.95

Driving Continuous Process Safety Improvement from Investigated Incidents

Driving Continuous Process Safety Improvement From Investigated Incidents

CCPS (Center for Chemical Process Safety)

This book contains new perspectives on the lessons learned from publicly investigated incidents, building on the traditional method used by companies for determining the lessons from their often confidential, internal incidents. It provides learning model guidance and techniques when using the public incident reports and videos. Readers will be able to use these lessons learned to support their own incident investigation recommendations and ongoing communications.

Reference • Wiley-AIChE • 9781119768661 • Mar 2021 • Cloth • 304pp • US\$139.95

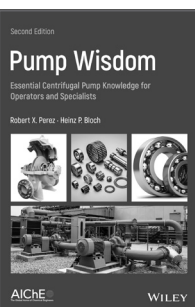
Guidelines for Process Safety in Chemical Laboratories and Pilot Plants

Guidelines for Process Safety in Chemical Laboratories and Pilot Plants

CCPS (Center for Chemical Process Safety)

This book is the first related to laboratory and pilot plant safety that focuses on risk based process safety management concepts and best practices. Many of the risk management best practices in chemical process safety that have proven effective in chemical manufacturing facilities can also be effective in helping manage risks in laboratories and pilot plant to prevent loss of containment events and to mitigate consequences should releases occur.

Reference • Wiley-AIChE • 9781119010135 • Feb 2021 • Cloth • 400pp • US\$124.95



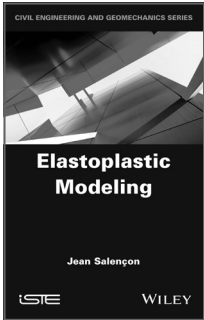
Pump Wisdom

Problem Solving for Operators and Specialists, 2nd Edition

Robert X. Perez & Heinz P. Bloch

Pump Wisdom was compiled to explain the elusive causes of premature failures. Some have to do with pump selection, while others have to do with overlooked installation criteria or are simply the result of small deviations that add up. The second edition expands coverage to additional areas critical to achieving best in class pump reliability: pump startup and surveillance tips, operator best practices, and repair versus replace considerations.

Reference • Wiley • 9781119748182 • Mar 2021 • Cloth • 288pp • US\$89.95 • Previous ed: 9781118041239



Elastoplastic Modeling

Jean Salençon

Elastoplastic behavior has long been part of the constitutive models incorporated in most computer codes, used in the design of civil and mechanical engineering structures. *Elastoplastic Modeling* offers a compact presentation of the fundamentals of classical elastoplastic modeling, the basis for many engineering applications currently implemented.

Reference • Wiley-ISTE • 9781786306234 • Sep 2020 • Cloth • TBA • US\$164.95

CONSTRUCTION

Asset Management of Physical Infrastructure

Asset Management of Physical Infrastructure

Managerial Frameworks, Policy, and Practice

Steven Male & Krisen Moodley

By bringing together international best practice and research, together with critically related knowledge domains that underpin the landscape of the discipline, the intent of *Asset Management of Physical Infrastructure* is to address the development of asset management capabilities within organisations and the challenges of deploying asset management skills in organisations.

Reference • Wiley-Blackwell • 9781119501695 • Mar 2021 • Cloth • 512pp • US\$120.00

Building Procurement

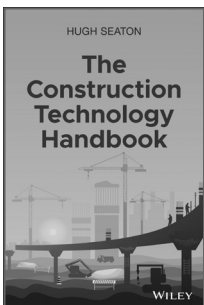
Building Procurement

3rd Edition

Roy Morledge, Adrian J. Smith & Samuel Y. Appiah

Construction projects are frequently beset with problems, many of which can be traced back to the procurement phase. This book examines current procurement practices in the major construction markets and shows procurement strategies and objectives that support the project business case significantly enhance the probability of project success.

Reference • Wiley-Blackwell • 9781119609490 • Feb 2021 • Paper • 384pp • US\$75.00 • Previous ed: 9780470672433



The Construction Technology Handbook

Hugh Seaton

This book will transform the thinking of construction professionals from one of apprehension and discomfort with technology to one of confidence. It will provide case studies and frameworks that organize emerging technologies as well as tools to onboard or reject these technologies. It will also give the general contractor, subcontractor, tech vendor and worker the context to understand where they sit in the broader evolution of construction technology.

Trade • Wiley • 9781119719953 • Dec 2020 • Cloth • 224pp • US\$44.95



Total Facility Management

Total Facility Management

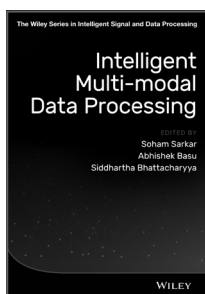
5th Edition

Brian Atkin & Adrian Brooks

An accessible text showing how the theory of facilities management can be implemented in practice. It deals with many issues known to cause concern and continually emphasises the link between facilities management practice and an organisation's business objectives.

Reference • Wiley • 9781119707943 • Apr 2021 • Paper • 416pp • US\$65.00 • Previous ed: 9781118655382

DATA PROCESSING



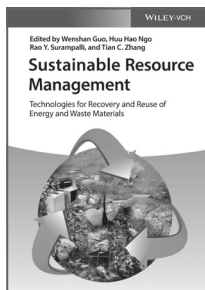
Intelligent Multi-Modal Data Processing

Soham Sarkar, Abhishek Basu & Siddhartha Bhattacharyya

This book offers contributions on intelligent approach towards emerging areas in signal and data processing. Each chapter is expected to be self-contained and cover an in-depth analysis of state-of-the-art applications of signal and data. The book is aimed to encompass the following broad topics viz., (i) Image Processing, (ii) Audio Processing (iii) Video Processing (iv) Multimedia Data Security.

Reference • Wiley • 9781119571384 • Mar 2021 • Cloth • 350pp • US\$135.00

ENVIRONMENTAL ENGINEERING



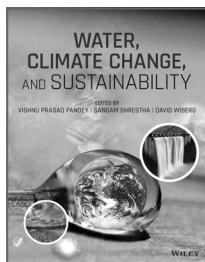
Sustainable Resource Management

Technologies for Recovery and Reuse of Energy and Waste Materials, 2 Volumes

Wenshan Guo, Huu Hao Ngo, Rao Y. Surampalli & Tian C. Zhang

This excellent state-of-the-art reference not only contains rich knowledge on the principles but also provides in-depth understanding and comprehensive information of current advanced waste treatment and resource recovery technologies toward research directions and development.

Reference • Wiley-VCH • 9783527347223 • Apr 2021 • Cloth • 768pp • US\$470.00



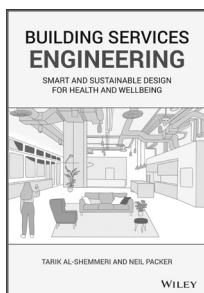
Water, Climate Change, and Sustainability

Vishnu Prasad Pandey, Sangam Shrestha & David Wiberg

Securing a reliable water supply—critical for achieving Sustainable Development Goals (SDGs)—requires understanding of the relation between finite water resources, climate variability/change, and various elements of sustainability. *Water, Climate Change, and Sustainability* is a timely and in-depth examination of the concept of sustainability as it relates to water resources management in the context of climate change risks.

Vishnu Prasad Pandey is a Research Fellow at Asian Institute of Technology (AIT), Thailand, and International Water Management Institute (IWMI). **Sangam Shrestha** is an Associate Professor at the Asian Institute of Technology (AIT), Thailand.

Reference • Wiley • 9781119564447 • Mar 2021 • Cloth • 304pp • US\$TBA



Building Services Engineering

Smart and Sustainable Design for Health and Wellbeing

Tarik Al-Shemmeri & Neil Packer

Building Services Engineering covers the design practices of existing engineering building services and how these traditional methods integrate with newer, smarter developments. These new developments include areas such as smart ventilation, smart glazing systems, smart batteries, smart lighting, smart soundproofing, smart sensors and meters. Combined, these all amount to a healthier lifestyle for the people living within these indoor climates.

Reference • Wiley • 9781119722854 • Feb 2021 • Cloth • 450pp • US\$130.00

Design of Composite Structures

Design of Composite Structures

Eurocode 4 – Design of Composite Steel and Concrete Structures Part 1-1 - General Rules and Rules for Buildings

ECCS – European Convention for Constructional Steelwork

This book elucidates the design rules for composite structures according to Eurocodes 3 and 4. Numerous examples facilitate the application of the standards. The ECCS (European Convention for Constructional Steelwork) is the only organization in the field of steel construction on a European level. The members of the ECCS are the national steel construction associations of 18 European countries.

Reference • Ernst & Sohn • 9783433030080 • Jan 2021 • Paper • 350pp • US\$75.00

Design of Highway Bridges

Design of Highway Bridges

An LRFD Approach, 4th Edition

Richard M. Barker & Jay A. Puckett

Fully updated to incorporate the 8th Edition of the AASHTO Load and Resistance Factor Design Specifications, this invaluable resource offers civil engineering students and practitioners a comprehensive introduction to the latest construction methods and materials in bridge design, including Accelerated Bridge Construction (ABC), ultra high-performance concrete (UHPC), and Practical 3D Rigorous Analysis.

Trade • Wiley • 9781119646297 • Feb 2021 • Cloth • 576pp • US\$186.95 • Previous ed: 9780470900666



Evidence and Procedures for Boundary Location

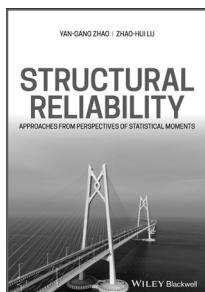
Evidence and Procedures for Boundary Location

7th Edition

Donald A. Wilson, Charles A. Nettleman & Walter G. Robillard

For nearly 60 years, *Evidence and Procedures for Boundary Location* has offered guidance on the principles of land boundary law and evidence for accurate boundary determination to professional surveyors, students in surveying programs, and those studying for the Fundamentals of Land Surveying licensure exam offered by NCEES. This classic text has been updated to include new case law examples throughout, the latest in forensic investigation in the discovery of obscured evidence, and an all-new chapter on emerging technology in the field of boundary surveying.

Trade • Wiley • 9781119719397 • Feb 2021 • Cloth • TBA • US\$155.95 • Previous ed: 9780470404782



Structural Reliability

Approaches from Perspectives of Statistical Moments

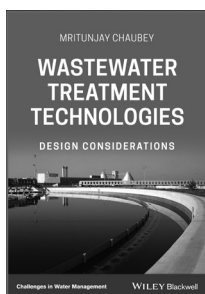
Yan-Gang Zhao & Zhao-Hui Lu

The authors and his colleagues have devoted to the topics in the book for more than 30 years. Their findings cover the topics in this area from the reliability evaluation to performance control of the structural systems, including successful applications to some practical large key engineering projects.

Yan-Gang Zhao is currently professor and chair of Dept. of Architecture and Building engineering, graduate school of Engineering, Kanagawa University. He has significant contributions to the development of methods of high order moments for system reliability theory, dynamic reliability evaluation and structural reliability analysis.

Reference • Wiley • 9781119620815 • Mar 2021 • Cloth • 420pp • US\$125.00

HYDROLOGY (CIVIL ENGINEERING)



Wastewater Treatment Technologies

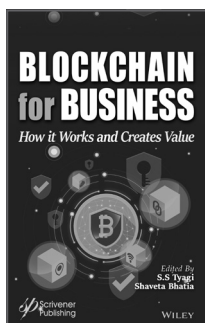
Design Considerations

Mritunjay Chaubey

Summary of Content: List of Abbreviations • Glossary • Global Perspective of Wastewater Treatment • Wastewater Characteristics • Wastewater Characteristics of Various Industries • Wastewater Characteristics & Measuring Methodology • Wastewater Treatment Technologies • Design Considerations • Ludge Dewatering • Zero Liquid Discharge • Advance Sustainable Wastewater Treatment Technologies • Zero Liquid Discharge • Wastewater Treatment Plant Operational Excellence

Reference • Wiley-Blackwell • 9781119765226 • Mar 2021 • Cloth • 256pp • US\$120.00

ARTIFICIAL INTELLIGENCE



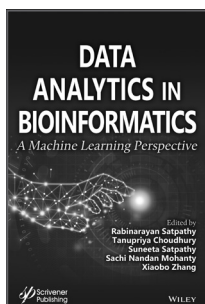
Blockchain for Business

How it Works and Creates Value

S. S. Tyagi & Shaveta Bhatia

The book gives insight to blockchain in business and covers the conceptual and technical fundamentals of blockchain, demonstrates the use cases of blockchain in business, start-ups, enterprises and institutions/ organizations and also focuses on the potential and threats of blockchain along with the economic impacts in corporate and other sectors.

Reference • Wiley-Scrivener • 9781119711049 • Feb 2021 • Cloth • 400pp • US\$174.95



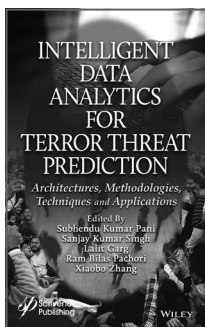
Data Analytics in Bioinformatics

A Machine Learning Perspective

Rabinarayan Satpathy, Tanupriya Choudhury, Suneeta Satapathy, Sachi Nandan Mohanty & Xiaobo Zhang

This book covers a wide range of subjects in applying machine learning approaches for bioinformatics projects. It succeeds by introducing the most widely used machine learning approaches and discusses, with evaluations from case studies. The theoretical parts and the practical parts are well integrated for readers to follow the existing procedures in individual research study.

Reference • Wiley-Scrivener • 9781119785538 • Jan 2021 • Cloth • 544pp • US\$224.95



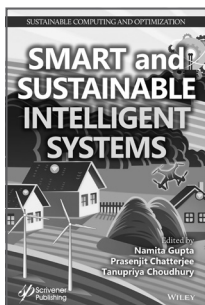
Intelligent Data Analytics for Terror Threat Prediction

Architectures, Methodologies, Techniques, and Applications

Subhendu Kumar Pani, Sanjay Kumar Singh, Lalit Garg, Ram Bilas Pachori & Xiaobo Zhang

This book provides innovative insights that will help obtain interventions to undertake emerging dynamic scenarios of criminal activities. Furthermore, it presents emerging issues, challenges and management strategies in public safety and crime control development across various domains.

Reference • Wiley-Scrivener • 9781119711094 • Jan 2021 • Cloth • 348pp • US\$224.95

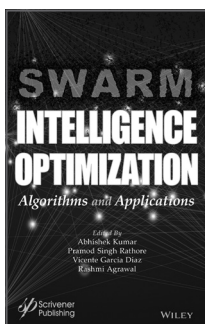


Smart Sustainable Intelligent Systems

Namita Gupta, Prasenjit Chatterjee & Tanupriya Choudhury

Provides a forum for the state-of-the-art research and development in the fields of smart intelligent computing systems and its applications in a range of applications for practical solutions for a sustainable future. The theme of the book broadly focuses on various innovation paradigms in system knowledge, intelligence and sustainability that may be applied to provide realistic solution to varied problems in society, environment and industries.

Reference • Wiley-Scrivener • 9781119750581 • Jan 2021 • Cloth • 576pp • US\$248.95



Swarm Intelligence Optimization

Algorithms and Applications

Abhishek Kumar, Pramod Singh Rathore, Vicente Garcia Diaz & Rashmi Agrawal

The idea behind this book was to simplify the journey of those who aspire to understand resource optimization in the IoT. Included in this book are various real-time/offline applications and algorithms/case studies in the fields of engineering, computer science, information security, and cloud computing, along with the modern tools and various technologies used in systems, leaving the reader with a high level of understanding of various techniques and algorithms used in resource optimization.

Reference • Wiley-Scrivener • 9781119778745 • Dec 2020 • Cloth • 384pp • US\$224.95

COMPUTER ARCHITECTURE

Understanding Infrastructure Edge Computing

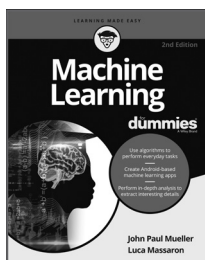
Understanding Infrastructure Edge Computing

Concepts, Technologies, and Considerations

Alex Marcham

A comprehensive examination of a key set of emerging technologies which will directly impact several areas of computer technology over the next five years, including data centers, 5G networks, artificial intelligence and cyber-physical systems.

Reference • Wiley • 9781119763239 • Apr 2021 • Cloth • 400pp • US\$130.00



Machine Learning For Dummies

2nd Edition

John Paul Mueller & Luca Massaron

Unlike most machine learning books, the fully updated edition of *Machine Learning For Dummies* doesn't assume you have years of experience using programming languages such as Python, but lets you in on the ground floor, covering the entry-level materials that will get you up and running building models you need to perform practical tasks. It takes a look at the underlying—and fascinating—math principles that power machine learning but also shows that you don't need to be a math whiz to build fun new tools and apply them to your work and study.

Trade • For Dummies • 9781119724018 • Jan 2021 • Paper • 432pp • US\$29.95 • Previous ed: 9781119245513

COMPUTER SECURITY & CRYPTOGRAPHY

Blue Fox

Blue Fox

Arm Assembly Internals and Binary Analysis of Mobile and IoT Devices

Maria Markstedter & Matt Tait

Blue Fox is an introduction to modern ARMv8-A instruction sets (A32 and A64) and reverse engineering. The book starts with an introduction to all three flavors of ARM: 32-bit, Thumb, and 64-Bit, and at writing assembly, data types and registers, instruction sets and processor modes, instructions, operations, and branches, and how programs are loaded by the OS. It also dives deep into reversing ARM binaries, and explores disassembling ARM binaries on Linux.

Trade • Sybex • 9781119745303 • Apr 2021 • Paper • 400pp • US\$44.95

Building Secure Cars

Building Secure Cars

Assuring the Automotive Software Development Lifecycle

Dennis Kengo Oka

There can now be more than 100 million lines of code in a modern car, making the vehicle highly vulnerable to hacking and other cybersecurity attacks. Written by a seasoned automotive expert with international industry expertise, this book introduces readers to the different types of security solutions, with the aim of helping software development and test teams identify vulnerabilities quickly and efficiently.

Dennis Kengo Oka is a Senior Solutions Architect at Synopsis, Japan, and he has been involved in automotive security since 2006.

Reference • Wiley • 9781119710745 • Mar 2021 • Cloth • 275pp • US\$130.00



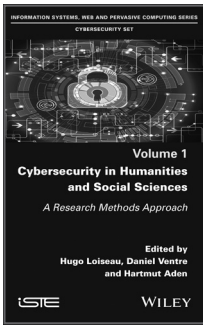
CCSP Certified Cloud Security Professional The Official (ISC)² CCSP CBK Reference

3rd Edition

(ISC)²

The only official body of knowledge for CCSP—the most popular cloud security credential—fully revised and updated. Certified Cloud Security Professional (CCSP) certification validates the advanced technical skills needed to design, manage, and secure data, applications, and infrastructure in the cloud. The new third edition of *The Official (ISC)² CCSP CBK Reference* is the authoritative, vendor-neutral common body of knowledge for cloud security professionals.

Trade • Sybex • 9781119603436 • Apr 2021 • Cloth • 600pp • US\$79.95 • Previous ed: 9781119276722



Cybersecurity in Humanities and Social Sciences

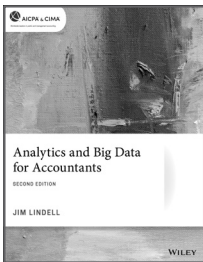
A Research Methods Approach

Hugo Loiseau, Daniel Ventre & Hartmut Aden

What methods should be used for the study of cybersecurity? Should these traditional methods of research be adapted to the reality of cyberspace? Is cybersecurity relevant to all humanities and social sciences disciplines? What added value can the humanities and social sciences bring to the study of cybersecurity in a multidisciplinary setting? All of these questions are discussed in this book.

Reference • Wiley-ISTE • 9781786305398 • Oct 2020 • Cloth • 240pp • US\$164.95 • Print-on-demand

DATABASE & DATA WAREHOUSING TECHNOLOGIES



Analytics and Big Data for Accountants

2nd Edition

Jim Lindell

This book will help accountants and financial managers better understand big data and analytics, including its history and current trends. It dives into the platforms and operating tools that will help you measure program impacts and ROI, visualize data and business processes, and uncover the relationship between key performance indicators.

Trade • Wiley • 9781119784623 • Nov 2020 • Paper • 224pp • US\$107.95 • Previous ed: 9781119512332

Foundations of Data Intensive Applications

Foundations of Data Intensive Applications

Large Scale Data Analytics under the Hood

Supun Kamburugamuva & Saliya Ekanayake

This book defines the foundational components of large scale, distributed data processing systems and go into details independently of specific frameworks. It draws examples of current systems to explain how these principles are used in practice. Major design decisions around these foundational components define the performance, type of applications supported and usability.

Trade • Wiley • 9781119713029 • Mar 2021 • Paper • 500pp • US\$54.95

Responsible Data Science

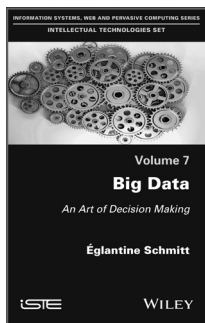
Responsible Data Science

Grant Fleming & Peter C. Bruce

This is the first book on ethical data science that provides hand-on practical technical steps practitioners and managers can take to fix the ethical and fairness issues arising from large data sets in data science. The book sets the stage with a review of the types of ethical challenges posed by the increasing use of data science methods to make decisions previously made by humans.

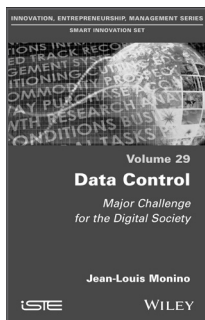
Trade • Wiley • 9781119741756 • Apr 2021 • Paper • 300pp • US\$39.95

INFORMATION TECHNOLOGIES

**Big Data****An Art of Decision Making***Eglantine Schmitt*

Big Data is based on an inquiry of several years within Proxem, a software publisher specializing in big data processing. The book examines how data scientists explore, interpret and visualize our digital traces to make sense of them, and to produce new knowledge. Grounded in epistemology and science and technology studies, *Big Data* offers a reflection on data in general, and on how they help us to better understand reality and decide on our daily actions.

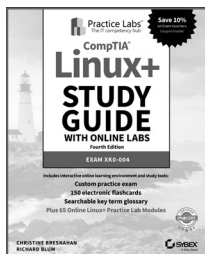
Reference • Wiley-ISTE • 9781786305558 • Oct 2020 • Cloth • 288pp • US\$164.95 • Print-on-demand

**Data Control****Major Challenge for the Digital Society***Jean-Louis Monino*

The accumulation of data of all kinds is generating new activities designed to analyze these huge amounts of information. It is therefore necessary to adapt and try new approaches, methods, new knowledge and new ways of working. This leads to new properties and new issues as a logical reference must be created and implemented. At the company level, this mass of data is difficult to manage; interpreting it is the predominant challenge.

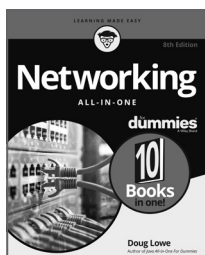
Reference • Wiley-ISTE • 9781786305503 • Oct 2020 • Cloth • 224pp • US\$164.95 • Print-on-demand

NETWORKING

**CompTIA Linux+ Study Guide with Online Labs****Exam XK0-004, 4th Edition***Christine Bresnahan*

Sybex has bundled CompTIA Linux+ labs from Practice Labs, the IT Competency Hub, with our popular *CompTIA Linux+ Study Guide, Fourth Edition*. Working in these labs gives you the same experience you need to prepare for the CompTIA Linux+ Exam XK0-004 that you would face in a real-life setting. Used in addition to the book, the labs are a proven way to prepare for the certification and for work in the IT and cybersecurity fields where Linux is fundamental to modern systems and security.

Trade • Sybex • 9781119784241 • Oct 2020 • Paper • 928pp • US\$149.95 • Previous ed: 9781119556039

**Networking All-in-One For Dummies****8th Edition***Doug Lowe*

Networking All-in-One For Dummies serves as the perfect beginner's guide as well as the professional's ideal reference book. Whether you're in charge of a small network or a large network, this All-in-One contains every bit of information that is necessary to set up a network and keep it functioning. Minibooks cover essential, up to date information for networking in systems such as Windows 10 and Linux, as well as best practices for security, mobile networking, and much more.

Trade • For Dummies • 9781119689010 • Mar 2021 • Paper • 960pp • US\$44.95 • Previous ed: 9781119471608



The Pentester BluePrint

Starting a Career as an Ethical Hacker

Phillip L. Wylie & Kim Crawley

The Pentester BluePrint offers readers a chance to delve deeply into the world of the ethical, or “white-hat” hacker. Accomplished pentester and author Phillip L. Wylie and cybersecurity researcher Kim Crawley walk you through the basic and advanced topics necessary to understand how to make a career out of finding vulnerabilities in systems, networks, and applications.

Trade • Wiley • 9781119684305 • Nov 2020 • Paper • 192pp • US\$29.95

OBJECT TECHNOLOGIES

Java Apprentice to Master

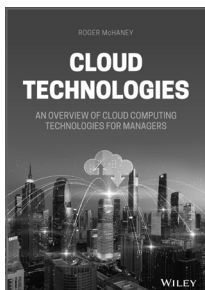
Java Apprentice to Master

Haythem Balti

Based on the weeks-long bootcamp from the Software Guild, *Java Apprentice to Master* gets new programmers quickly to a functional level of Java programming that they can apply to write useful real-world Java applications.

Trade • Wiley • 9781119775645 • Apr 2021 • Paper • 600pp • US\$39.95

PARALLEL AND DISTRIBUTED COMPUTING



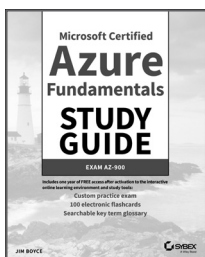
Cloud Technologies

An Overview of Cloud Computing Technologies for Managers

Roger McHaney

Introducing the reader to an overview of cloud computing, this book smoothly addresses and presents business related considerations such as Service Level Agreements, elasticity, security, audits, and other practical implementation issues. Furthermore, it covers additional topics such as automation, infrastructure as code, DevOps, and orchestration.

Reference • Wiley • 9781119769521 • Apr 2021 • Cloth • 250pp • US\$99.00



Microsoft Certified Azure Fundamentals Study Guide

Exam AZ-900

Jim Boyce

Microsoft Certified Azure Fundamentals Study Guide: Exam AZ-900 is a springboard certification for people considering a career as an Azure cloud administrator, but who aren't ready to take the higher level AZ-104 exam. The book covers foundational topics for the Microsoft AZ-900 certification exam, and is designed to quickly prepare technical and non-technical readers to pass the exam.

Trade • Sybex • 9781119770923 • Mar 2021 • Paper • 408pp • US\$49.95



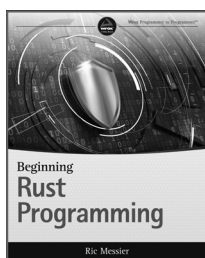
Which Cloud?

A Developer's and Architect's Guide to Comparing AWS, Microsoft Azure, and Google Cloud
Ed Price

A single resource for Developers and Architects who need to compare AWS, Microsoft Azure, and Google Cloud—the top three cloud platforms. This book will help you understand the cloud platforms, make the best decisions, convince others of your decisions, create cross-cloud solutions, migrate between the cloud platforms, and simply communicate to others who have more experience in a different cloud platform.

Trade • Wiley • 9781119760115 • Apr 2021 • Paper • 480pp • US\$49.95

PROGRAMMING & SOFTWARE DEVELOPMENT

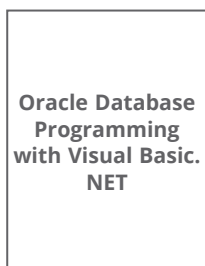


Beginning Rust Programming

Ric Messier

Rust – A language empowering programmers to build reliable and efficient software. Built around solving real problems, this book will help introduce you to computer science problems that can be built upon to create solutions for other problems. All of the programs covered will be based on a computer science problem or other interesting problems that can be used as a foundation for demonstrating language syntax, data types and structures, and other features or techniques for developing programs.

Trade • Wrox • 9781119712978 • Feb 2021 • Paper • 400pp • US\$49.95



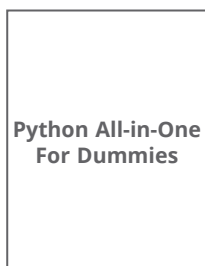
Oracle Database Programming with Visual Basic.NET

Concepts, Designs and Implementations

Ying Bai

This book guides the reader to learn fundamental knowledge and practical techniques in the designing and building of professional database programs used in commercial and industrial applications. The text utilizes the current version of Visual Basic.NET, Visual Basic.NET 2019 with Visual Studio.NET 2019. The most updated Oracle Express Edition database, Oracle 18c XE, is introduced and implemented.

Reference • Wiley-IEEE Press • 9781119734390 • Feb 2021 • Paper • 550pp • US\$84.95



Python All-in-One For Dummies

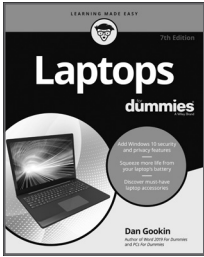
2nd Edition

John Shovic & Alan Simpson

From creating apps to building complex web sites to sorting big data, Python provides a way to get the work done. *Python All-in-One For Dummies* offers a starting point for those new to coding by explaining the basics of Python. Experienced coders looking for more than the basics can also find how Python can be applied to projects in the enterprise, including data analysis and other major undertakings.

Trade • For Dummies • 9781119787600 • Apr 2021 • Paper • 704pp • US\$39.95 • Previous ed: 9781119557593

COMPUTER HARDWARE (GENERAL)

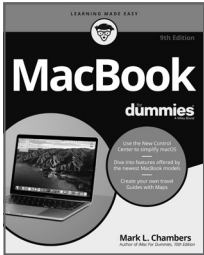
**Laptops For Dummies**

7th Edition

Dan Gookin

In this fully updated edition of *Laptops For Dummies*, bestselling tech writer Dan Gookin takes a friendly walk through everything you need to know, from the basics (if you're new to laptops) all the way up to the latest hardware and tech updates—including the recent release of Windows 10. Along the way you'll learn how to synchronize your laptop with other machines, coordinate email pickup across devices, and beef up your security.

Trade • For Dummies • 9781119740278 • Jan 2021 • Paper • 384pp • US\$29.95 • Previous ed: 9781119041801

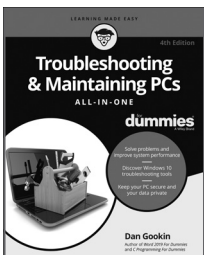
**MacBook For Dummies**

9th Edition

Mark L. Chambers

Make the most of your MacBook experience Your new MacBook is sleek and powerful, and this fully updated edition of *MacBook For Dummies* can show you how to navigate, personalize, and maximize all your MacBook can help you accomplish. From taking it out of the box and turning it on for the first time, to file storage and security, to downloading apps and working with iCloud, you'll discover everything your MacBook can do in this one book.

Trade • For Dummies • 9781119775669 • Apr 2021 • Paper • 432pp • US\$29.95 • Previous ed: 9781119607793

**Troubleshooting and Maintaining PCs All-in-One For Dummies**

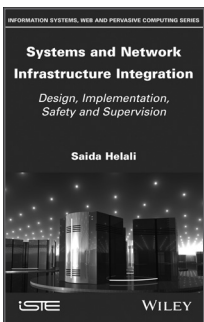
4th Edition

Dan Gookin

In his straightforward, friendly style, Dan Gookin—bestselling tech author and all-round Mr. Fixit—packs everything you need to know into 5-books-in-1, giving you the knowledge and process to hit on the right solution, fast. From identifying common problems to methodically narrowing down to the correct fix, you'll save hours of frustrating research. The content in this new edition is revised to include Windows 11, which is available July 2020.

Trade • For Dummies • 9781119740308 • Feb 2021 • Paper • 456pp • US\$39.95 • Previous ed: 9781119378358

COMPUTING SPECIAL TOPICS

**Systems and Network Infrastructure Integration**

Design, Implementation, Safety and Supervision

Saida Helali

IT infrastructures are now essential in all areas and sectors of human activity; they are the cornerstone of any information system. Thus, it is clear that the greatest of care must be given to their design, implementation, security and supervision in order to ensure optimum functionality and better performance. Within this context, *Systems and Network Infrastructure Integration* presents the methodological and theoretical principles necessary to successfully carry out an integration project for network and systems infrastructures.

Reference • Wiley-ISTE • 9781786305268 • Oct 2020 • Cloth • 208pp • US\$164.95 • Print-on-demand

LinkedIn For Dummies
LinkedIn For Dummies

6th Edition

Joel Elad

With *LinkedIn For Dummies*, you will have all of the latest tools, features, and information at your fingertips to help you do all of this and more. This book will teach you how to create an attractive profile that employers will notice, as well as ways to expand your network by making connections around the globe. You'll also learn how to best navigate the new profile user interface and updated activities, which include reactions, and job search, and recruitment tools.

Trade • For Dummies • 9781119695332 • Mar 2021 • Paper • 384pp • US\$26.95 • Previous ed: 9781119469933

OFFICE PRODUCTIVITY – NON-MICROSOFT (GENERAL & SUITES)

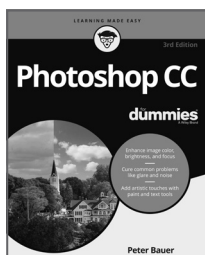
Adobe Creative Cloud All-in-One For Dummies
Adobe Creative Cloud All-in-One For Dummies

3rd Edition

Jennifer Smith

The only book on the market that helps you learn how to use multiple tools in the Adobe Creative Cloud suite. Fully updated to cover the latest features. There are seven detailed minibooks in *Adobe Creative Cloud All-in-One For Dummies* that cover the key features and tools photographers and graphic designers need to know about each individual application.

Trade • For Dummies • 9781119724148 • Feb 2021 • Paper • 768pp • US\$49.95 • Previous ed: 9781119420408

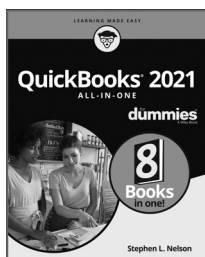
**Photoshop CC For Dummies**

3rd Edition

Peter Bauer

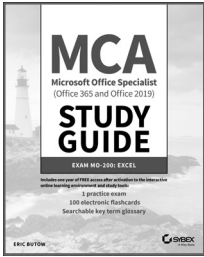
Written by a literal Photoshop Hall of Famer, the new edition of *Photoshop CC For Dummies* is your experienced guide to the technical terrain, slashing away the foliage for a clear picture of how to produce the perfectly framed and beautifully curated images you want.

Trade • For Dummies • 9781119711773 • Jan 2021 • Paper • 448pp • US\$34.95 • Previous ed: 9781119418115

**QuickBooks 2021 All-in-One For Dummies***Stephen L. Nelson*

QuickBooks 2021 All-in-One For Dummies contains eight information-rich mini-books that account for all your financial line-item asks, showing you step-by-step how to plan your perfect budget, simplify tax returns, manage inventory, create invoices, track costs, generate reports, and accurately check off every other accounting and financial-management task that comes across your desk!

Trade • For Dummies • 9781119676805 • Nov 2020 • Paper • 624pp • US\$34.95 • Previous ed: 9781119589808



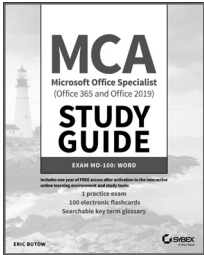
MCA Microsoft Office Specialist (Office 365 and Office 2019) Study Guide

Exam MO-200: Excel

Eric Butow

Major topics include the fundamentals of creating and managing worksheets and workbooks, creating cells and ranges, creating tables, applying formulas and functions, and creating charts and objects. This Study Guide also covers the ability to create and edit a workbook with multiple sheets and use a graphic element to represent data visually. Workbook examples include professional-looking budgets, financial statements, team performance charts, sales invoices, and data entry logs. Readers will also have access to Sybex's superior online test bank, including hundreds of practice questions, flashcards, and a glossary of important terms.

Trade • Sybex • 9781119718246 • Mar 2021 • Paper • 216pp • US\$24.95



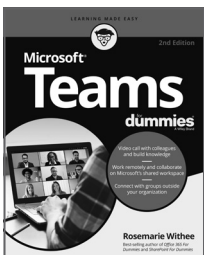
MCA Microsoft Office Specialist (Office 365 and Office 2019) Study Guide

Exam MO-100: Word

Eric Butow

The study guide is written in a straightforward and practical style which, when combined with the companion online Sybex resources, allows you to learn efficiently and effectively. The online resources include hundreds of practice questions, flashcards, and a glossary of key terms. In addition to preparing you for the realities of the Microsoft Office Specialist job role, this study guide covers all the subjects necessary to do well on the certifying exam.

Trade • Sybex • 9781119718260 • Dec 2020 • Paper • 208pp • US\$24.95



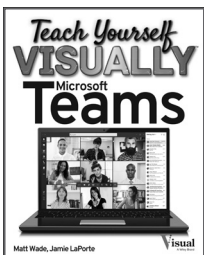
Microsoft Teams For Dummies

2nd Edition

Rosemarie Withee

Microsoft Teams has rocketed from 13 million to 75 million daily users in one year's time. *Microsoft Teams For Dummies* serves as the go-to guidebook for new users and those who want to be better at the all-in-one tool for remote work. This updated second edition catches up with the latest improvements and additions to the platform.

Trade • For Dummies • 9781119786221 • Apr 2021 • Paper • 304pp • US\$26.95 • Previous ed: 9781119660552



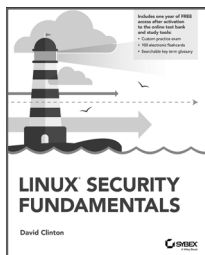
Teach Yourself VISUALLY Microsoft Teams

Matt Wade & Jamie LaPorte

Teach Yourself VISUALLY Microsoft Teams helps you understand and learn to use Microsoft's chat- and meeting-based communication and collaboration application. Teams provides many rich features that enable teams to be more efficient and save valuable time and resources. However, as with most applications, there is a learning curve as well as pitfalls that should be avoided, which this book helps you prepare for.

Trade • Visual • 9781119772545 • Jan 2021 • Paper • 336pp • US\$34.95

OPERATING SYSTEMS (GENERAL)



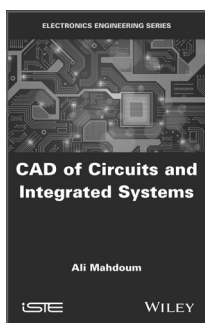
Linux Security Fundamentals

David Clinton

Linux Security Fundamentals covers all the IT security basics to help active and aspiring admins respond successfully to the modern threat landscape. You'll improve your ability to combat major security threats against computer systems, networks, and services. You'll discover how to prevent and mitigate attacks against personal devices and how to encrypt secure data transfers through networks, storage devices, or the cloud.

Trade • Sybex • 9781119781462 • Oct 2020 • Paper • 192pp • US\$39.95

CIRCUIT THEORY & DESIGN



CAD of Circuits and Integrated Systems

Ali Mahdoun

This book addresses the difficulty of obtaining a quality solution, that is, pre optimal or even optimal, in a reasonable time from a central processing unit (CPU). As polynomial problems can be treated by exact methods, the problem posed concerns non-polynomial problems, for which it is necessary to develop efficient algorithms based on heuristics or meta-heuristics.

Reference • Wiley-ISTE • 9781786305978 • Sep 2020 • Cloth • TBA • US\$164.95

COMMUNICATION TECHNOLOGY

**Advanced
Antenna Array
Engineering for
6G and Beyond
Wireless
Communications**

Advanced Antenna Array Engineering for 6G and Beyond Wireless Communications

Yingjie Jay Guo & Richard W. Ziolkowski

This book presents recent advances in 5G antenna array design used in the next phase of cellular technology development. It includes a review of the popular multi-beam feed networks for 5G, the latest breakthroughs in 2D Butler matrix configurations, and provides solutions to deploying multi-beam massive antenna arrays in a cost effective manner.

Reference • Wiley-IEEE Press • 9781119712909 • Apr 2021 • Cloth • 400pp • US\$134.95

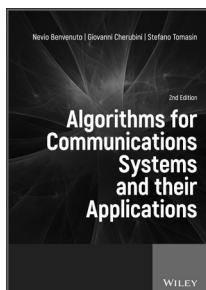
**Aero-Optical
Effects and Their
Mitigation**

Aero-Optical Effects and Their Mitigation

Stanislav Gordeyev, Eric Jumper & Matthew Whiteley

Aero-Optical Effects and Their Mitigation describes the sources, characteristics, measurement approaches, and mitigation means to reduce the phenomenology known as aero-optics wavefront error, and presents the applications of aero-optics as they relate to such topics as directed energy and high-speed communications.

Reference • Wiley • 9781119037170 • Apr 2021 • Cloth • 300pp • US\$129.95



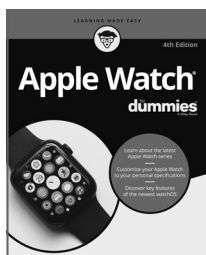
Algorithms for Communications Systems and their Applications

2nd Edition

Nevio Benvenuto, Giovanni Cherubini & Stefano Tomasin

Algorithms for Communications Systems and their Applications presents the logical arithmetical or computational procedures within communications systems that will ensure the solution to various problems. The authors comprehensively introduce the theoretical elements which are at the basis of the field of algorithms for communications systems. Various applications of these algorithms are then illustrated with a focus on wired and wireless network access technologies.

Reference • Wiley • 9781119567967 • Jan 2021 • Cloth • 1200pp • US\$160.00 • Previous ed: 9780470843895



Apple Watch For Dummies

4th Edition

Marc Saltzman

Apple Watch For Dummies is the top-selling reference for the Apple Watch, and the rising popularity of the device indicates this book will continue to be in high demand. This fourth edition helps Watch owners navigate the newest series and OS of this mini-computer.

Trade • For Dummies • 9781119776826 • Dec 2020 • Paper • 368pp • US\$26.95 • Previous ed: 9781119658665

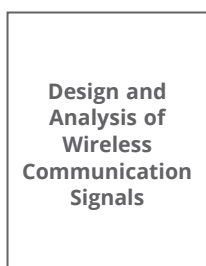


Backscattering and RF Sensing for Future Wireless Communication

Qammer H. Abbasi, Hasan Tahir Abbas, Akram Alomainy & Muhammad Ali Imran

Presents a concise picture of the future trends of increasing the efficiency and performance of a wireless communication network. *Backscattering and RF Sensing for Future Wireless Communication* provides in-depth coverage of the fundamental physics behind these intelligent planar structures, and assesses the enhancement of the performance of a communication network in challenging environments such as a densely populated urban area.

Reference • Wiley • 9781119695653 • Apr 2021 • Cloth • 250pp • US\$130.00



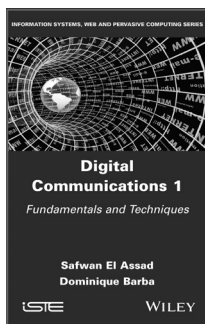
Design and Analysis of Wireless Communication Signals

A Laboratory-based Approach

Huseyin Arslan

This book describes wireless communication systems and concepts from modeling, simulation, testing, and wireless systems analyzing (along with wireless circuits) using modern instrumentation and computer aided design software. Readers learn how to model, simulate, test, and analyze wireless systems using modern instrumentation and computer aided design software.

Reference • Wiley • 9781119764410 • Apr 2021 • Cloth • 400pp • US\$134.95



Digital Communications 1 Fundamentals and Techniques

Safwan El Assad & Dominique Barba

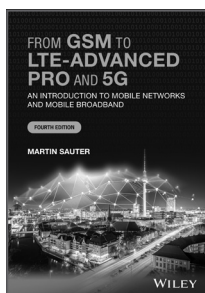
This is a complete training in digital communications with all the aspects involved in such training: courses, tutorials with many typical problems targeted with detailed solutions, practical work concretely illustrating various aspects of technical implementation implemented. It breaks down into three parts: the Theory of information itself; the Technical aspects of transmission; and finally, the Transmissions with digital modulation of carriers used in radio transmissions but also on electric cables.

Reference • Wiley-ISTE • 9781786305411 • Dec 2020 • Cloth • 336pp • US\$164.95

Also available:

Digital Communications 2: Directed and Practical Work

Reference • Wiley-ISTE • 9781786305428 • Nov 2020 • Cloth • 336pp • US\$164.95 • Print-on-demand



From GSM to LTE-Advanced Pro and 5G

An Introduction to Mobile Networks and Mobile Broadband, 4th Edition

Martin Sauter

The revised and updated fourth edition of *From GSM to LTE-Advanced Pro and 5G* offers an authoritative guide to the technical descriptions of the various wireless technologies currently in use. The author—a noted expert on the topic—explains the rationale behind their differing mechanisms and implementations while exploring the advantages and limitations of each technology.

Reference • Wiley • 9781119714675 • Feb 2021 • Cloth • 500pp • US\$135.00 • Previous ed: 9781119346869

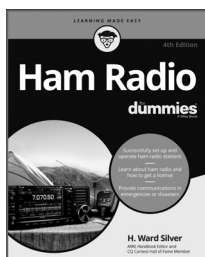
Game Theory and Machine Learning for Cyber Security

Game Theory and Machine Learning for Cyber Security

Charles A. Kamhoua, Christopher D. Kiekintveld, Fei Fang & Quanyan Zhu

This book describes a comprehensive suite of solutions to a broad range of technical issues in applying game theory and machine learning to solve cyber security challenges. It provides expert insights on applying these new methods to address cyber autonomy, 5G security, blockchain technology, attack graphs, sensor manipulation, fault injection, moving target defense, Cyber-Physical Systems (CPS), Internet-of-Battle- Things (IoBT), multi-domain battle.

Reference • Wiley-IEEE Press • 9781119723929 • Apr 2021 • Cloth • 500pp • US\$139.95



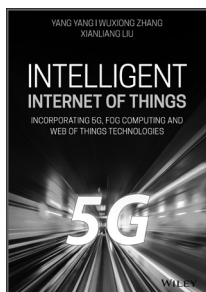
Ham Radio For Dummies

4th Edition

H. Ward Silver

Ham radio, or Amateur radio has been a popular pastime for years, and its popularity continues to grow. *Ham Radio For Dummies* is your guide to everything there is to know about ham radio. This updated edition provides new and additional information on digital mode operating, as well as use of amateur radio in student science and new operating events.

Trade • For Dummies • 9781119695608 • Mar 2021 • Paper • 384pp • US\$29.95 • Previous ed: 9781119454847



Intelligent IoT for the Digital World

Yang Yang, Xu Chen, Rui Tan & Yong Xiao

Intelligent IoT for the Digital World explores a unique type of Internet of Things (IoT) architecture, for example, the Web of Things (WoT) with its open character that breaks the barriers among various IoT vertical applications. The authors examine and compare key technologies from physical to platform level, especially the Narrow Band Internet of Things (NB-IoT) technology. The text also describes the requirements of WoT applications on 5G and includes detailed information on WoT technologies.

Reference • Wiley • 9781119593546 • Apr 2021 • Cloth • 300pp • US\$125.00

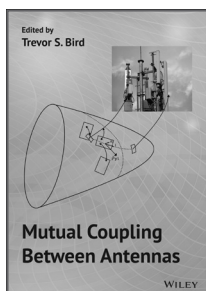
Management of Data Center Networks

Management of Data Center Networks

Nadjib Ait Saadi

This book examines different aspects of Data Center Networks (DCNs) and describes the special techniques in managing this kind of network. DCN becomes increasingly popular with the advent of cloud computing and multimedia social networks employing new transmission technologies such as 5G wireless and wireless fiber. The book begins with the lead editor setting the stage in the introduction and first chapter, followed by chapters written by other experts covering the various aspects of DCN.

Reference • Wiley-IEEE Press • 9781119647423 • Apr 2021 • Cloth • 200pp • US\$109.95



Mutual Coupling Between Antennas

Trevor S. Bird

An up-to-date description of the physical effects of mutual coupling for a variety of antennas and for techniques for analysing and assessing its effects. Practical aspects of mutual coupling will be presented as well as applications to show where the performance is impacted both positively and negatively by taking it into account. The book is directed at technical specialists, researchers and students working on problems connected with mutual interaction between antennas.

Reference • Wiley • 9781119564980 • Apr 2021 • Cloth • 500pp • US\$145.00

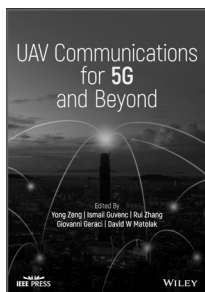
Substrate-Integrated Millimeter-Wave Antennas for 5G/B5G Communications and Next-generation Radars

Substrate-Integrated Millimeter-Wave Antennas for 5G/B5G Communications and Next-generation Radars

Zhi Ning Chen & Xianming Qing

This book covers mmW (millimeter wave) topics from fundamental concepts, design methods, prototyping, and experimental setup and testing. After addressing design issues, the authors also highlight applications of the antennas in 5G wireless communication and next-generation radar systems. The book describes concepts such as substrate-integrated waveguides, loss analysis, surface wave and its suppression, and more.

Reference • Wiley-IEEE Press • 9781119611110 • Mar 2021 • Cloth • 250pp • US\$129.95



UAV Communications for 5G and Beyond

Yong Zeng, Ismail Guvenc, Rui Zhang, Giovanni Geraci & David W. Matolak

To advantageously plan and design for the explosive near-future increase in the number of unmanned aerial vehicles (UAVs) and their demanding applications, integration of UAVs into cellular communication systems has seen increasing interest. This book provides a timely and comprehensive overview of the recent research efforts and results of unmanned aerial vehicles (UAVs)-integrated cellular network communications.

Editor **Rui Zhang** is Associate Professor & Dean's Chair at National University of Singapore. He has authored over 300 papers, and has been listed as a Highly Cited Researcher by Thomson Reuters since 2015.

Reference • Wiley-IEEE Press • 9781119575696 • Jan 2021 • Cloth • 650pp • US\$145.00

Wireless Coexistence

Wireless Coexistence

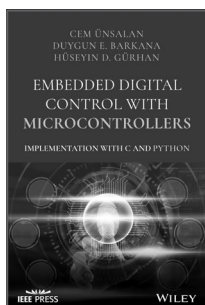
Standards, Challenges, and Intelligent Solutions

Daniel Chew, Andrew L. Adams & John Uher

Wireless Coexistence explains the motivation for wireless coexistence, explores the standards enabling wireless coexistence, and analyzes the various technologies employed for compliance with those standards.

Reference • Standards Information Network • 9781119584186 • Apr 2021 • Cloth • 300pp • US\$134.95

COMPUTER ENGINEERING



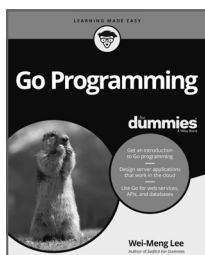
Embedded Digital Control with Microcontrollers

Implementation with C and Python

Cem Unsalan, Duygun E. Barkana & Huseyin D. Gurhan

This book introduces implementation methods and theory of digital control systems on microcontrollers by focusing on real-life issues. Guided in three phases, the reader first learns how to implement prototype digital control systems via Python programming language; then utilizes C programming language based digital control system implementation on an actual microcontroller; and finally merges the theoretical and practical issues on digital control system implementation through real-life applications.

Reference • Wiley-IEEE Press • 9781119576525 • Jan 2021 • Cloth • 384pp • US\$134.95



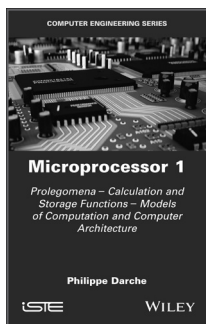
Go Programming Language For Dummies

Wei-Meng Lee

Go is one of the newer tools programmers are adding to their development toolboxes. Designed to improve readability, usability, and efficiency, the language has proven to be a strong choice for developers creating applications for the cloud-based world we live in. This book offers the first steps to joining the growing numbers of developers using Go to create 21st century solutions.

Wei-Meng Lee is a technologist and founder of Developer Learning Solutions, Singapore, and he is often quoted in the media such as DevX.com, MobiForge.com, and CoDe Magazine.

Trade • For Dummies • 9781119786191 • Apr 2021 • Paper • 432pp • US\$34.95



Microprocessor 1

Prolegomena – Calculation and Storage Functions – Models of Computation and Computer Architecture

Philippe Darche

Since its commercialization in 1971, the microprocessor, a modern and integrated form of the central processing unit, has continuously broken records in terms of its integrated functions, computing power, low costs and energy saving status. Sound knowledge of its internal mechanisms and programming is essential for electronics and computer engineers to understand and master computer operations and advanced programming concepts. This book in five volumes focuses more particularly on the first two generations of microprocessors, those that handle 4- and 8-bit integers.

Reference • Wiley-ISTE • 9781786305633 • Oct 2020 • Cloth • 224pp • US\$164.95 • Print-on-demand

Also available:

Microprocessor 2: Basic Concepts: Communication in a Digital System

Reference • Wiley-ISTE • 9781786305640 • Nov 2020 • Cloth • 208pp • US\$164.95 • Print-on-demand

Microprocessor 3: Software Aspects

Reference • Wiley-ISTE • 9781786305657 • Nov 2020 • Cloth • 240pp • US\$164.95

CONTROL SYSTEMS TECHNOLOGY

Handbook of Marine Craft Hydrodynamics and Motion Control

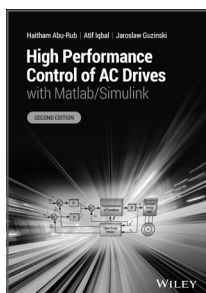
Handbook of Marine Craft Hydrodynamics and Motion Control

2nd Edition

Thor I. Fossen

A comprehensive and extensive study of the latest research in hydrodynamics, guidance, navigation and control systems for marine craft. Establishes how the implementation of mathematical models and modern control theory can be used for simulation and verification of control systems, decision-support systems and situational awareness systems.

Reference • Wiley-IEEE Press • 9781119575054 • Mar 2021 • Cloth • 700pp • US\$185.00 • Previous ed: 9781119991496



High Performance Control of AC Drives with Matlab/Simulink

2nd Edition

Haitham Abu-Rub

The second edition of this popular graduate text will include some new and popular topics related to AC motor drive systems, including a chapter dedicated to "Medium Voltage Drives", which will cover the state-of-the-art and new challenges in the industrial drive system. In present practice, high power, medium voltage drive is popular in industries.

Reference • Wiley-Blackwell • 9781119590781 • Apr 2021 • Cloth • 600pp • US\$120.00 • Previous ed: 9780470978290



ELECTROMAGNETIC THEORY

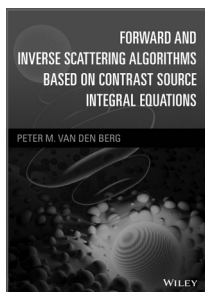
Electromagnetic Pulse Simulations Using Finite-Difference Time-Domain Method

Electromagnetic Pulse Simulations Using Finite-Difference Time-Domain Method

Shahid Ahmed

This book provides a practical approach for the in-depth understanding of electromagnetic pulse (EMP) via computer simulation. It includes a dedicated chapter to numerical methods used in electromagnetics and a guideline to selecting an appropriate computational method, as well as a self-consistent, three-dimensional, time-domain study for detailed simulations of radiation leakage.

Reference • Wiley • 9781119526179 • Apr 2021 • Cloth • 600pp • US\$149.95

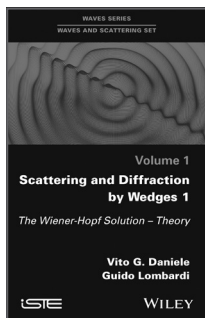


Forward and Inverse Scattering Algorithms Based on Contrast Source Integral Equations

Peter M. van den Berg

This book, written for applied scientists and engineers, explores wave-field computational methods based on contrast source type of integral equations and the computational implementation in wave-field based imaging methods.

Reference • Wiley • 9781119741541 • Mar 2021 • Cloth • 544pp • US\$149.95



Scattering and Diffraction by Wedges 1

The Wiener-Hopf Solution – Theory

Vito G. Daniele & Guido Lombardi

This book, comprising two volumes, has a dual purpose. The first – Volume 1 – is to introduce a general methodology for solving diffraction problems in geometries constituted of angular regions. The second in Volume 2 is to offer the solutions of some canonical problems in modern electromagnetic engineering and other physics. The general mathematical methodology, based on the Wiener-Hopf technique, is particularly ingenious and original. The method focuses on sophisticated procedures, exploiting properties of analytic functions.

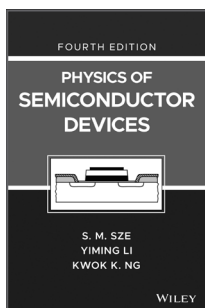
Reference • Wiley-ISTE • 9781786302632 • Oct 2020 • Cloth • 240pp • US\$164.95

Also available:

Scattering and Diffraction by Wedges 2: The Wiener-Hopf Solution – Advanced Applications

Reference • Wiley-ISTE • 9781786306647 • Oct 2020 • Cloth • 240pp • US\$164.95 • Print-on-demand

ELECTRONIC MATERIALS



Physics of Semiconductor Devices

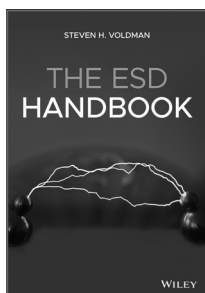
4th Edition

Simon M. Sze, Yiming Li & Kwok K. Ng

This classic reference provides detailed information on the underlying physics and operational characteristics of all major bipolar, unipolar, special microwave, and optoelectronic devices. It integrates nearly 1,000 references to important original research papers and review articles, and includes more than 650 high-quality technical illustrations and 25 tables of material parameters for device analysis.

Dr. Simon M. Sze is Honorary Chair Professor, NCTU National Chiao Tung University. He has served as Visiting Professor to many academic institutions including the University of Cambridge, Delft University, Soochow University, Stanford University, and Tokyo Institute of Technology.

Reference • Wiley • 9781119429111 • Jan 2021 • Cloth • 944pp • US\$134.95 • Previous ed: 9780471143239



The ESD Handbook

Steven H. Voldman

The ESD Handbook offers a comprehensive reference that explores topics relevant to ESD design in semiconductor components and explores ESD in various systems. Electrostatic discharge is a common problem in the semiconductor environment and this reference fills a gap in the literature by discussing ESD protection. Written by a noted expert on the topic, the text offers a topic-by-topic reference that includes illustrative figures, discussions, and drawings.

Reference • Wiley • 9781119965176 • Apr 2021 • Cloth • 1024pp • US\$295.00

IMAGING SYSTEMS & TECHNOLOGY

Introduction to the Physics and Techniques of Remote Sensing
Introduction to the Physics and Techniques of Remote Sensing

3rd Edition

Charles Elachi & Jakob J. van Zyl

Introduction to the Physics and Techniques of Remote Sensing is a comprehensive overview of the basics behind remote-sensing physics, techniques, and technology. This third edition builds on that and the previous edition's overview through extensive updates, additions, and expansions in content and the replacement of almost 50% of the color photographs.

Reference • Wiley • 9781119523017 • Mar 2021 • Cloth • 550pp • US\$149.95 • Previous ed: 9780471475699

**Inverse Synthetic Aperture Radar Imaging With MATLAB Algorithms**

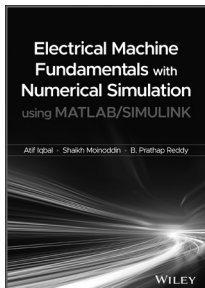
2nd Edition

Caner Ozdemir

This book is an updated edition covering in greater detail the fundamentals of inverse synthetic aperture radar (ISAR). Theoretical as well as practical aspects of ISAR are presented and illustrative examples are used to describe the signal processing algorithms used for ISAR imaging. The topics presented in each chapter are supported by MATLAB codes to assist the users in better understanding the ISAR imaging principles.

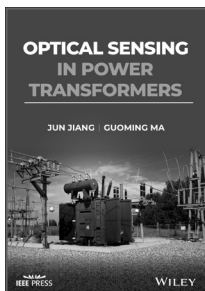
Reference • Wiley • 9781119521334 • Feb 2021 • Cloth • 560pp • US\$134.95 • Previous ed: 9780470284841

POWER ELECTRONICS

**Electrical Machine Fundamentals with Numerical Simulation using MATLAB / SIMULINK***Atif Iqbal, Shaikh Moinoddin & B. Prathap Reddy*

Electrical Machine Fundamentals with Numerical Simulation using MATLAB / SIMULINK focuses on the basic understanding of the concept of electrical machines (working principles, equivalent circuit, and analysis) and provides the simulation models of every type of machine described in the book. The book will elaborate on the fundamental concepts of electrical machines along with several numerical problems and simulation models using Matlab/Simulink.

Reference • Wiley • 9781119682639 • Mar 2021 • Cloth • 550pp • US\$145.00

**Optical Sensing in Power Transformers***Junfeng Jiang & Guoming Ma*

In this comprehensive text, the authors present a scholarly review of the various cutting-edge optical principles and methodologies adopted for online monitoring of power transformers. Grounded in the authors' extensive research, the book examines optical techniques and high-voltage equipment testing and provides the foundation for further application, prototype, and manufacturing.

Reference • Wiley-IEEE Press • 9781119765288 • Jan 2021 • Cloth • 300pp • US\$135.00

Real-Time Electromagnetic Transient Simulation of AC-DC Networks

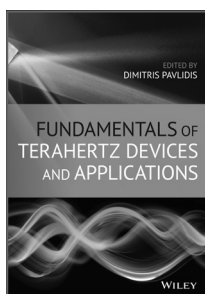
Real-Time Electromagnetic Transient Simulation of AC-DC Networks

Venkata Dinavahi & Ning Lin

This book provides a comprehensive treatment of the technologies, modeling, and numerical methods used for digital-time-domain real-time simulation of electrical energy systems. Case studies provided in the book range from small didactic test circuits to realistic-sized large-scale AC-DC grids.

Reference • Wiley-IEEE Press • 9781119695448 • Apr 2021 • Cloth • 620pp • US\$149.95

RF / MICROWAVE THEORY & TECHNIQUES

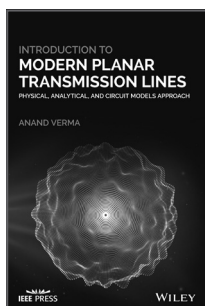


Fundamentals of Terahertz Devices and Applications

Dimitris Pavlidis

THz technology relates to applications that span in frequency from a few hundred GHz to more than 1000 GHz. They require devices for signal generation, detection and treatment the characteristics of which have been reported in various publications but their in-depth understanding is often lacking or requires the consultation of multiple references. This book aims to address the above topics in a way that both the beginner and advanced reader can obtain a better understanding of device operation and use.

Reference • Wiley • 9781119460718 • Feb 2021 • Cloth • 600pp • US\$135.00



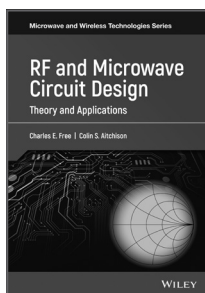
Introduction To Modern Planar Transmission Lines

Physical, Analytical, and Circuit Models Approach

Anand Verma

Planar transmission lines form the core of the modern high-frequency communication, computer, and other related technology. This advanced text gives a complete overview of the technology and acts as a comprehensive tool for radio frequency (RF) engineers that reflects a linear discussion of the subject from fundamentals to more complex arguments.

Reference • Wiley-IEEE Press • 9781119632276 • Feb 2021 • Cloth • 800pp • US\$149.95



RF and Microwave Circuit Design

Theory and Applications

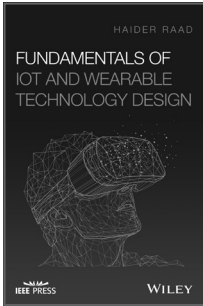
Charles Free & Colin Aitchison

This textbook covers a typical modern syllabus in radio frequency or microwave design at final year undergraduate or first year postgraduate level. The content has been chosen to include all of the basic topics necessary to give a rigorous introduction to high-frequency technology. The material is presented from first principles, and relies only on students having a reasonable grasp of basic electronic principles.

Reference • Wiley • 9781119114635 • Apr 2021 • Cloth • 400pp • US\$95.00



SENSORS, INSTRUMENTATION & MEASUREMENT

**Fundamentals of IoT and Wearable Technology Design***Haider Raad*

This book provides a comprehensive guide to the design and prototyping of wearable technology and internet of things (IoT), in addition to their various components, applications, and practical considerations. The book also offers detailed design and prototyping of vital examples of these technologies covering all practical considerations.

Reference • Wiley-IEEE Press • 9781119617532 • Dec 2020 • Cloth • TBAp • US\$124.95

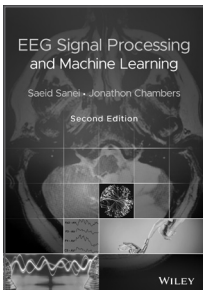
Sensing Technologies for Real Time Monitoring of Water and Food Quality

Sensing Technologies for Real Time Monitoring of Water and Food Quality*Ravinder Dahiya, Libu Manjakkal, Leandro Lorenzelli & Magnus Willander*

This book covers a complete set of sensing technologies for water and food (aquaculture) quality monitoring, particularly in relation with the real time monitoring. *Sensing Technologies for Real Time Monitoring of Water and Food Quality* highlights potential capabilities and critical limitations of various sensing technologies and wireless systems, and explores common characteristics, ideas and approaches implemented for water quality and quantity management including Circular Economy Initiatives and reduced carbon footprint techniques.

Reference • Wiley-IEEE Press • 9781119775812 • Apr 2021 • Cloth • 350pp • US\$134.95

SIGNAL PROCESSING

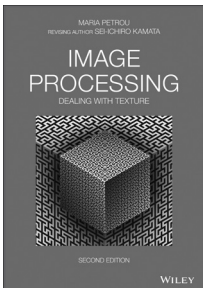
**EEG Signal Processing and Machine Learning**

2nd Edition

Saeid Sanei & Jonathon A. Chambers

The book aims at describing new techniques and outcomes in electroencephalogram (EEG) research mainly in analysis, processing and decision making about various brain states, abnormalities, and disorders by means of advance signal processing and machine learning techniques respectively.

Reference • Wiley • 9781119386940 • Apr 2021 • Cloth • 380pp • US\$135.00 • Previous ed: 9780470025819

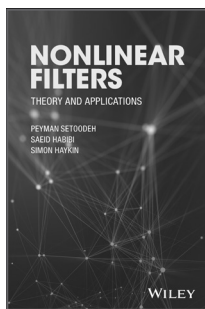
**Image Processing**

Dealing with Texture, 2nd Edition

Maria M. P. Petrou & Sei-ichiro Kamata

This welcome update brings the original into the 21st century, without abandoning the foundational essentials of this milestone work. Revising author Sei-ichiro Kamata has provided a sympathetic and respectful revision of the late Maria Petrou's original, and delivers an extensive and exhaustive reappraisal worthy of her memory.

Reference • Wiley • 9781119618553 • Feb 2021 • Cloth • TBAp • US\$140.00 • Previous ed: 9780470026281



Nonlinear Filters

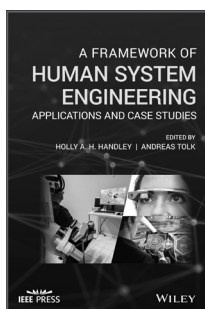
Theory and Applications

Peyman Setoodeh, Saeid Habibi & Simon Haykin

A comprehensive reference on nonlinear filtering, presenting the popular nonlinear filters that have stood the test of time, with their advantages and limitations. The book is rooted in probability theory, stochastic processes, signal processing, information theory, optimization, and control theory.

Reference • Wiley • 9781118835814 • Apr 2021 • Cloth • 400pp • US\$134.95

SYSTEMS ENGINEERING & MANAGEMENT



A Framework of Human System Engineering

Applications and Case Studies

Holly A. Handley & Andreas Tolk

Human System Engineering (HSE) focuses on identifying and improving methods to integrate human concerns into the conceptualization and design of systems. This book provides a wide variety of example applications to show the breadth and versatility of HSE practices and illustrate its value in system development.

Reference • Wiley-IEEE Press • 9781119698753 • Dec 2020 • Cloth • 304pp • US\$124.95



Design for Maintainability

Louis J. Gullo & Jack Dixon

Design for Maintainability offers engineers a wide range of tools and techniques for incorporating maintainability into the design process for complex systems. With contributions from noted experts on the topic, the book explains how to design for optimum maintenance capabilities while simultaneously minimizing the time to repair equipment.

Reference • Wiley • 9781119578512 • Mar 2021 • Cloth • 352pp • US\$140.00

E-CARGO and Role-Based Collaboration

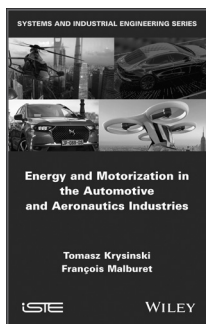
E-CARGO and Role-Based Collaboration

Modeling and Solving Problems in the Complex World

Haibin Zhu

This book systematically describes the fundamental understanding of collaboration, collaboration systems, and complex systems and then propose solutions to the related problems with the assistance of the model and methodology. The structure follows a typical technology development document that begins with an introduction to collaboration and problem solving, then provide a thorough survey of the fundamental concept role.

Reference • Wiley-IEEE Press • 9781119693062 • Apr 2021 • Cloth • 300pp • US\$124.95

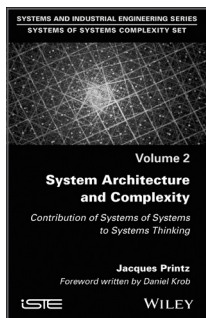


Energy and Motorization in the Automotive and Aeronautics Industries

Tomasz Kryszinski & François Malburet

The book is intended for students in engineering school or university, young engineers or newcomers in the automotive industry or aeronautics. The objective is to describe in a simple and clear way the problem of energy and motorization for the automobile, helicopters or airplanes.

Reference • Wiley-ISTE • 9781786305725 • Oct 2020 • Cloth • 336pp • US\$164.95 • Print-on-demand



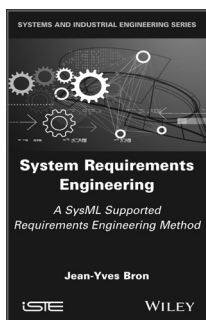
System Architecture and Complexity

Contribution of Systems of Systems to Systems Thinking

Jacques Printz

System modeling is developing a more robust, resilient vision for entities that are themselves systems in their own right, and that are obliged to cooperate with each other and with their users. *System Architecture and Complexity* presents this new semantic notion that has emerged at the heart of systems: interoperability. The information exchange model within the system of systems, which has emerged from this, is the main subject of this book.

Reference • Wiley-ISTE • 9781786305619 • Sep 2020 • Cloth • TBAp • US\$164.95



System Requirements Engineering

A SysML Supported Requirements Engineering Method

Jean-Yves Bron

System requirements engineering is a key feature of complex systems engineering. This book proposes a method inspired by the best practices of system engineering standards: it favors a model-based systems engineering approach using the system modeling language SysML. Part 1 of *System Requirements Engineering* defines the context, definitions and main concepts of requirements engineering; Part 2 illustrates the methods used by treating a case study to define the needs of the stakeholders and the system requirements.

Reference • Wiley-ISTE • 9781786305947 • Sep 2020 • Cloth • TBAp • US\$164.95

ELECTRIC POWER SYSTEMS

Probabilistic
Power System
Expansion
Planning with
Renewable
Energy Resources
and Energy
Storage Systems

Probabilistic Power System Expansion Planning with Renewable Energy Resources and Energy Storage Systems

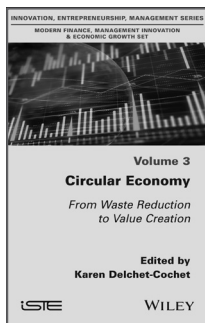
Jaeseok Choi & Kwang Y. Lee

This book presents innovative approaches to the probabilistic planning of generation and transmission systems under uncertainties. It includes renewables and energy storage calculations in using probabilistic and deterministic reliability techniques to assess system performance from a long-term expansion planning viewpoint.

Jaeseok Choi, PhD, is a Full Professor at Gyeongsang National University. Dr. Choi is a senior member of the Korean Institute of Electrical Engineers (KIEE) since 2005 and is a fellow plus member of KIEE since 2018.

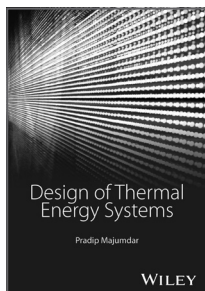
Reference • Wiley-IEEE Press • 9781119684138 • Apr 2021 • Cloth • 1000pp • US\$159.95

GENERAL ENERGY

**Circular Economy****From Waste Reduction to Value Creation***Karen Delchet-Cochet*

As part of the draft law on the circular economy in France, the authors—researchers and experts—analyze the data and the reflections and base their arguments on real examples in order to propose solutions and recommendations for a green economy. It gives an updated overview of the reflections and practices around the circular economy. The book covers three areas: The company and its functions, innovative business models; The institutional, legislative and normative framework; and Some sectors of activity with the prism of the circular economy.

Reference • Wiley-ISTE • 9781786305732 • Oct 2020 • Cloth • 272pp • US\$164.95 • Print-on-demand

**Design of Thermal Energy Systems***Pradip Majumdar*

Design of Thermal Energy Systems covers the fundamentals and applications in thermal energy systems and components, including conventional power generation and cooling systems, renewable energy systems, heat recovery systems, heat sinks and thermal management. Practical examples are used throughout and are drawn from solar energy systems, fuel cell and battery thermal management, electrical and electronics cooling, engine exhaust heat and emissions, and manufacturing processes.

Reference • Wiley • 9781118956939 • Mar 2021 • Cloth • 600pp • US\$145.00

NATURAL GAS & PETROLEUM PRODUCTS

Coal-Fired Power Generation Handbook**Coal-Fired Power Generation Handbook**

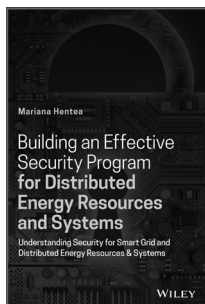
2nd Edition

James G. Speight

Now revised and expanded, this is the most complete and up-to-date handbook on power generation from coal, covering all of today's new, cleaner methods for creating electricity from coal, the environmental challenges and concerns involved in its production, and developing technologies.

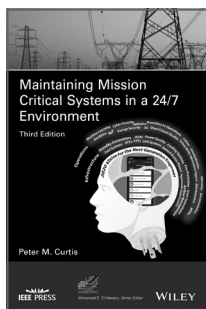
Reference • Wiley-Scrivener • 9781119510109 • Jan 2021 • Cloth • 778pp • US\$248.95 • Previous ed: 9781118208465

POWER TECHNOLOGY & POWER ENGINEERING

**Building an Effective Security Program for Distributed Energy Resources and Systems***Mariana Hentea*

This book provides a methodology for building an effective security program for distributed energy resources (DERs). The author describes the differences between the security requirements of a traditional IT system and those of industrial control systems, including SCADA systems. She provides a unified approach for building a security program for smart grid systems and applications using systems engineering techniques, standards, and best practices.

Reference • Wiley • 9781118949047 • Apr 2021 • Cloth • 576pp • US\$144.95



Maintaining Mission Critical Systems in a 24/7 Environment

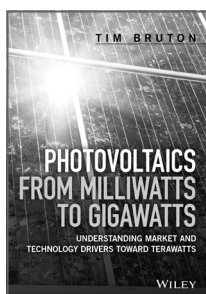
3rd Edition

Peter M. Curtis

"Mission critical" refers to ultra-high reliability and availability requirements for electrical and mechanical systems that must meet stringent operating criteria. This reference is a critical, all-inclusive training guide to the operation, management, and maintenance of all types of mission critical equipment.

Reference • Wiley-IEEE Press • 9781119506119 • Dec 2020 • Cloth • 640pp • US\$134.95 • Previous ed: 9780470650424

RENEWABLE ENERGY



Photovoltaics from Milliwatts to Gigawatts

Understanding Market and Technology Drivers toward Terawatts

Tim Bruton

Photovoltaics from Milliwatts to Gigawatts covers the history of silicon based PV, from the earliest discoveries to present and future practice. This essential PV guide is aimed at researchers and students in electrical engineering and physical sciences through the rapid evolution of PV technology to commercial viability and the challenges ahead for increased performance, efficiency and global deployment.

Reference • Wiley • 9781119130048 • Mar 2021 • Cloth • 250pp • US\$60.00

Wind Energy Handbook

Wind Energy Handbook

3rd Edition

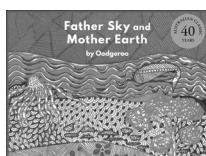
Tony L Burton, Nick Jenkins, Ervin Bossanyi & John Graham

Fully revised and updated, this third edition addresses key developments in the wind technology since the second edition was published in 2011. Completely new sections on model predictive control; use of estimators for fault detection and fatigue monitoring; active power control; and wind farm control. The text also reviews the development of wind energy projects with particular emphasis on environmental impact, and considers how wind turbines interact with the electrical power system.

Reference • Wiley-Blackwell • 9781119451099 • Apr 2021 • Cloth • 864pp • US\$135.00 • Previous ed: 9780470699751



GENERAL SCIENCE & ENGINEERING



Father Sky and Mother Earth

4th Edition

Oodgeroo Noonuccal

A beautifully illustrated story book by Australian Aboriginal poet and artist, Oodgeroo. Father Sky and Mother Earth created a beautiful world. They filled the world with plants and animals, and everyone lived in peace and happiness — until Human Animals came along with their noise, rubbish, smoke and oil. The animals ran away and plants began to die. Discover how the worried Human Animals stop the destruction. This fourth edition contains a vital message that is as relevant today as it was when the story was first published 40 years ago.

Trade • Wiley • 9780730391135 • Nov 2020 • Cloth • 48pp • US\$17.99 • Previous ed: 9780731407347

GRAPHIC DESIGN



Advertising by Design

Generating and Designing Creative Ideas Across Media, 4th Edition

Robin Landa

A real-world, comprehensive introduction to concept generation and design for advertising—updated with new interviews, case studies, and the latest information on conceiving integrated campaigns and building a strong portfolio.

Trade • Wiley • 9781119691495 • Mar 2021 • Paper • 264pp • US\$84.95 • Previous ed: 9781118971055



INDUSTRIAL ENGINEERING / PROJECT MANAGEMENT

How to Make
Change with
Transition
Engineering

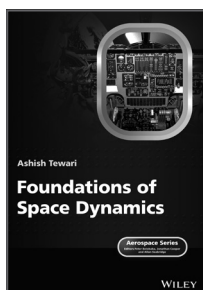
How to Make Change with Transition Engineering

Daniel Kenning

A highly practical and extensively illustrated overview of transition engineering (TE) helping the reader to use TE thinking in the development of sustainable solutions to a range of engineering challenges and problems.

Reference • Wiley-Blackwell • 9781119646792 • Mar 2021 • Paper • 288pp • US\$75.00

AERONAUTIC & AEROSPACE ENGINEERING



Foundations of Space Dynamics

Ashish Tewari

Foundations of Space Dynamics offers an authoritative text that combines a comprehensive review of both orbital mechanics and dynamics. The text provides an introduction to space dynamics in its entirety, including important analytical derivations and practical space flight examples. Written in an accessible and concise style, *Foundations of Space Dynamics* highlights analytical development and rigor, rather than numerical solutions via ready-made computer codes.

Reference • Wiley • 9781119455349 • Jan 2021 • Paper • 368pp • US\$99.95



COMPUTATIONAL / NUMERICAL METHODS

Finite Element
Analysis

Finite Element Analysis

Method, Verification and Validation, 2nd Edition

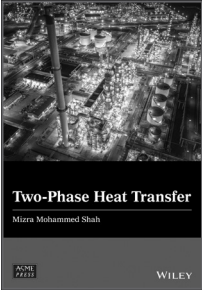
Barna Szabó & Ivo Babuška

Finite Element Analysis comprehensively covers the theoretical foundation of the of the finite element method with particular focus on the fundamentals of verification, validation and uncertainty quantification. It illustrates the techniques and procedures of quality assurance in numerical simulation through examples and exercises and describes the technical requirements for the formulation and application of design rules.

Reference • Wiley • 9781119426424 • Apr 2021 • Cloth • 425pp • US\$129.95 • Previous ed: 9780471502739



FLUID MECHANICS



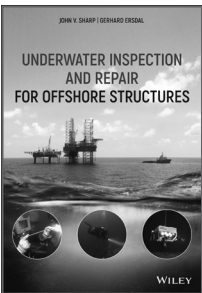
Two-Phase Heat Transfer

Mizra Mohammed Shah

This book is primarily intended for design and development engineers. The emphasis is therefore on information which is of practical use. Effort is made to provide the best available information for the design of heat exchangers in a clear and concise manner. This information includes experimental data, theoretical solutions, and empirical correlations. Accuracy and range of applicability of formulas/correlations presented is stated and clear recommendations are made for application of the methods presented.

Reference • Wiley-ASME Press • 9781119618614 • Feb 2021 • Cloth • TBA • US\$135.00

MECH ENGINEERING SPECIAL TOPICS



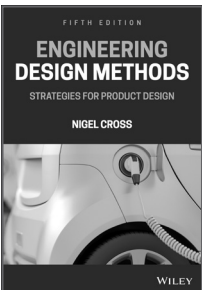
Underwater Inspection and Repair for Offshore Structures

John V. Sharp & Gerhard Ersdal

Underwater Inspection and Repair for Offshore Structures provides an overview of inspection and repair processes for offshore structures with emphasis on ageing structures. It includes the reasons why inspection is performed and how inspection is linked to the management of structural integrity, statutory requirements and types of damage. It will also address the long-term planning of inspection, tools and methods and their deployment underwater. The book focuses on both steel and concrete offshore oil and gas installations.

Reference • Wiley • 9781119633792 • Apr 2021 • Cloth • 364pp • US\$135.00

MECHANICAL ENGINEERING – DESIGN



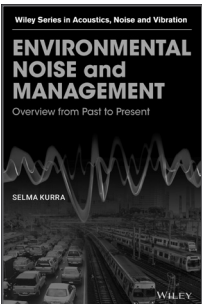
Engineering Design Methods

Strategies for Product Design, 5th Edition

Nigel Cross

Engineering Design Methods provides an overview of design activities and processes, detailed descriptions and examples of how to use key design methods, and outlines design project strategies and management techniques. This updated edition of the successful textbook now includes a new chapter on design ability, and new examples and a case study of a new city-car design by the ex-Formula One designer, Gordon Murray.

Reference • Wiley • 9781119724377 • Mar 2021 • Paper • 240pp • US\$58.25 • Previous ed: 9780470519264



Environmental Noise and Management

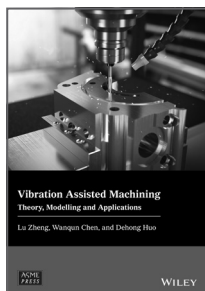
Overview from Past to Present

Selma Kurra

Environmental Noise and Management provides a comprehensive overview of environmental noise pollution. The book covers the fundamentals of noise and acoustics, major noise sources and prediction and evaluation techniques. Developments in noise measuring techniques, and mapping and improvement of legislation to control noise pollution are then discussed, and international regulations are presented.

Reference • Wiley • 9781118887400 • Sep 2020 • Cloth • 864pp • US\$160.00

SOLID MECHANICS



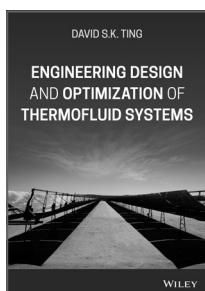
Vibration Assisted Machining Theory, Modelling and Applications

Dehong Huo, Wanqun Chen & Li-Rong Zheng

Vibration Assisted Machining comprehensively covers all key aspects of vibration assisted machining such as cutting kinematics and dynamics, effect of workpiece materials and wear of cutting tools and applications. Case studies with detailed guidance on design, modelling and tests of VAM systems, and machining experiment method are included and state-of-the-art research development on cutting force modelling and surface texture generation is considered.

Reference • Wiley-ASME Press • 9781119506355 • Jan 2021 • Cloth • 225pp • US\$140.00

THERMODYNAMICS



Engineering Design and Optimization of Thermofluid Systems

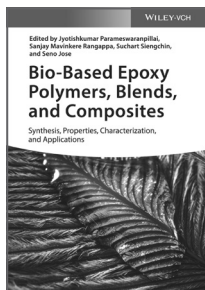
David S. K. Ting

This practical introduction to thermofluid systems design incorporates optimization more than other books on the market, helping students and practitioners understand real-world applications and best practices. Ideal for use in thermal systems design courses.

Trade • Wiley • 9781119701606 • Feb 2021 • Cloth • 288pp • US\$144.95



POLYMER SCIENCE & TECHNOLOGY



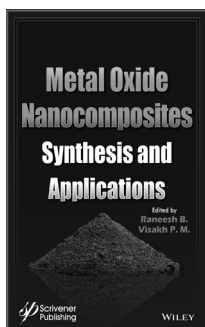
Bio-Based Epoxy Polymers, Blends and Composites Synthesis, Properties, Characterization and Applications

Jyotishkumar Parameswaranpillai, Sanjay M. Rangappa, Suchart Siengchin & Seno Jose

State-of-the-art overview on bioepoxy polymers as well as their blends and composites - covering all aspects from fundamentals to applications!

Editors **Jyotishkumar Parameswaranpillai** is Faculty member in the Center of Innovation in Design and Engineering for Manufacturing at the King Mongkut's University of Technology North Bangkok (KMUTNB); **Sanjay Mavinkere Rangappa** is Assistant Professor in the Department of Mechanical and Process Engineering at KMUTNB; and **Suchart Siengchin** is President of the King Mongkut's University of Technology North Bangkok, Thailand.

Reference • Wiley-VCH • 9783527346486 • Mar 2021 • Cloth • 450pp • US\$205.00

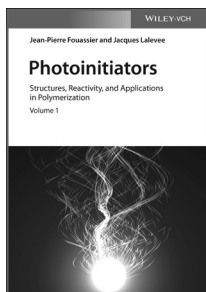


Metal Oxide Nanocomposites Synthesis and Applications

B. Raneesh & Visakh P. M.

Metal Oxide Nanocomposites summarizes many of the recent research accomplishments in the area of metal oxide-based nanocomposites. It provides an up-to-date record of the major findings and observations in the field, with chapters contributed by prominent researchers from industry, academia and government/private research laboratories across the world. Applications discussed include nanocomposites in photocatalysis, sensors, triboelectric nanogenerators and water purification.

Reference • Wiley-Scrivener • 9781119363576 • Jan 2021 • Cloth • 420pp • US\$224.95



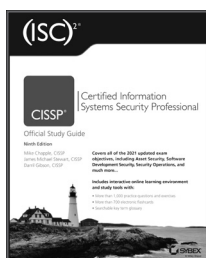
Photoinitiators of Polymerization

Jean-Pierre Fouassier & Jacques Lalevee

This is the most comprehensive insight into the emerging field of PIs—by two leading scientists in the field—covering everything from processes, mechanisms, PI systems and their role in different polymerization reactions, to examples of various applications from industry are included, too.

Reference • Wiley-VCH • 9783527346097 • Apr 2021 • Cloth • 784pp • US\$390.00

CERTIFICATION (MSCE, NOVELL, ETC.)



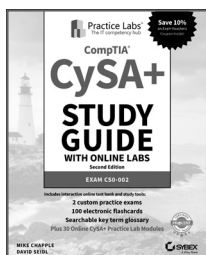
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9th Edition

Mike Chapple, James Michael Stewart & Darril Gibson

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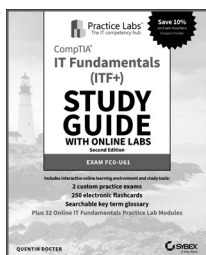
CompTIA CySA+ Study Guide with Online Labs

Exam CS0-002, 2nd Edition

Mike Chapple

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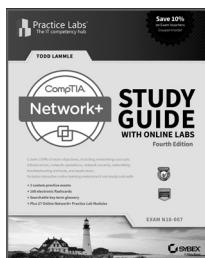
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Exam FC0-U61, 2nd Edition

Quentin Docter

This CompTIA IT Fundamentals Study Guide delivers 100% of the exam objectives in clear and concise language, and authoritatively provides you with all you need to know to succeed in the exam. With this edition you also get a registration code included with the book that gives you 6 months unlimited access to Practice Labs CompTIA IT Fundamentals Labs with 32 unique lab modules to practice your skills.

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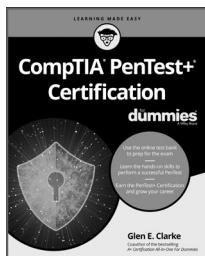
CompTIA Network+ Study Guide with Online Labs

N10-007 Exam, 4th Edition

Todd Lammle

An updated edition of the de facto standard for CompTIA Network+ candidates, revised for version of the Exam N10-007, and written by leading networking authority, Todd Lammle. Previous three editions have sold nearly 125,000 units to date. This new edition includes access to 27 hands-on learning labs.

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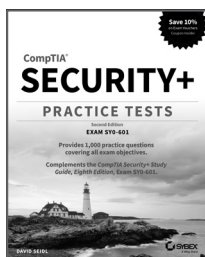


CompTIA PenTest+ Certification For Dummies

Glen E. Clarke

The CompTIA's PenTest+ Certification requires test takers to pass an 85-question exam in order to be certified, and this book-plus the online test bank-will help you reach your certification goal. *CompTIA PenTest+ Certification For Dummies* includes a map to the exams objectives and helps you get up to speed on planning and scoping, information gathering and vulnerability identification, attacks and exploits, penetration testing tools and reporting, and communication skills.

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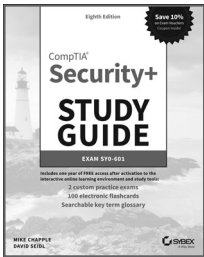
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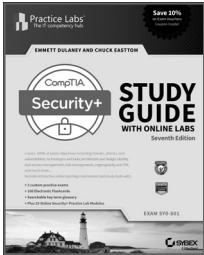
CompTIA Security+ Study Guide

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Accomplished authors and security experts Mike Chapple and David Seidl walk you through the fundamentals of crucial security topics, including the five domains covered by the SY0-601 Exam. This study guide comes with the Sybex online, interactive learning environment that includes a pre-assessment test, hundreds of review questions, practice exams, flashcards, and a glossary of key terms.

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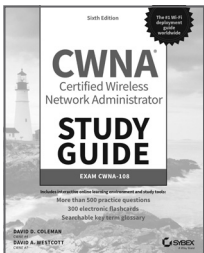
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Emmett Dulaney & Chuck Easttom

Expert Security+ SY0-501 exam preparation, endorsed by CompTIA—Now with 25 Online Lab Modules. The seventh edition of *CompTIA Security+ Study Guide*—written by a team of expert authors—covers 100% of the exam objectives with clear and concise explanations. Discover how to handle threats, attacks, and vulnerabilities using industry-standard tools and technologies, while gaining and understanding the role of architecture and design.

Trade • Sybex • 9781119784265 • Oct 2020 • Paper • 528pp • US\$149.95 • Previous ed: 9781118875070



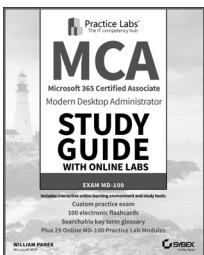
CWNA Certified Wireless Network Administrator Study Guide

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David D. Coleman & David A. Westcott

The #1 selling Wi-Fi networking reference guide by two of the most popular trainers on the topic. The *CWNA Certified Wireless Network Administrator Study Guide* is fully updated to align with the latest version of the exam. Each of the book's 20 chapters breaks down complex topics into easy to understand nuggets of useful information. Additionally, hands-on exercises allow you to practice applying CWNA concepts to real-world scenarios.

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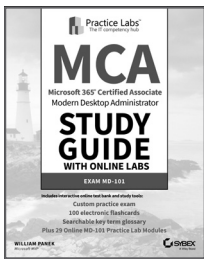
MCA Microsoft 365 Certified Associate Modern Desktop Administrator Study Guide with Online Labs

Exam MD-100

William Panek

The *MCA Modern Desktop Administrator Study Guide: Exam MD-100* is a must-have book for anyone preparing for certification. This clear and accurate study guide covers 100% of exam objectives—providing hands-on exercises, challenging review questions, full explanations, and real-world examples to deploy, configure, secure, manage, and monitor devices and client applications in an enterprise environment.

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William Panek

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Trade • Sybex • 9781119784326 • Oct 2020 • Paper • 384pp • US\$149.95

Engineering & Computer Sciences

January to April 2021 New Titles

Title	Author	ISBN	Page Reference	Bind	Prices (US\$)	Quantity
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A Framework of Human System Engineering: Applications and Case Studies	Handley, Tolk	9781119698753	29	Cloth	124.95	
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Advanced Antenna Array Engineering for 6G and Beyond Wireless Communications	Guo, Ziolkowski	9781119712909	19	Cloth	134.95	
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Beginning Rust Programming	Messier	9781119712978	15	Paper	49.95	
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