

Engineering & Computer Science

September to December 2020





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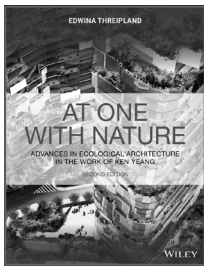


Lead Title



Textbook

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



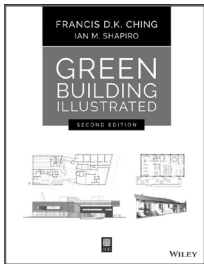
At One with Nature

Advances in Ecological Architecture in the Work of Ken Yeang, 2nd Edition

Ken Yeang

At One with Nature will provide an overview of Yeang's current thinking on the theory and practice of ecological design, including his technical ideas, design interpretations, aesthetic concepts for an ecological architecture, and images of Yeang's completed works. The primary aim and scope of the book is to present the current thinking and developments on the topic of ecological architecture and ecomasterplanning carried out by Ken Yeang in his research, theoretical and design work. This volume will discuss the implications of their recent developments, progressed since the 1st Edition of this book, published in 2011.

Reference • 9781119528036 • Nov 2020 • Cloth • 300pp • US\$90.00



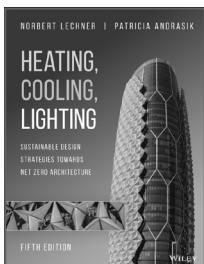
Green Building Illustrated

2nd Edition

Francis Ching & Ian M. Shapiro

In the tradition of *Building Construction Illustrated*, Francis D.K. Ching and Ian M. Shapiro offer a fully illustrated guide to the theory and practice of sustainable design. This guide provides architects, designers, and builders in the green design professional community a framework and detailed strategies for designing substantively green buildings. With a focus on sustainable sites, approaching and reaching net-zero energy, low and zero-water usage, minimum-impact materials and superior indoor environmental quality, this guide explains why we need to build green, as well as green building theory and advancements in the industry. This Second Edition includes all-new case studies featuring geographically diverse buildings with proven zero energy performance; practical guidance for the schematic design of high-performance buildings; advanced strategies, such as the concept of shape efficiency, and the optimal location for stairwells in buildings, affordability in green design and construction; and updated references to the latest codes and standards.

Trade • 9781119653967 • Nov 2020 • Paper • 336pp • US\$49.95 • Previous ed: 9781118562376



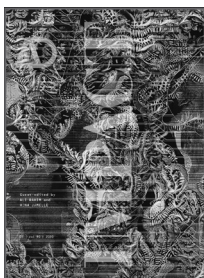
Heating, Cooling, Lighting

Sustainable Design Strategies Towards Net Zero Architecture, 5th Edition

Norbert Lechner & Patricia Andrasik

Heating, Cooling, Lighting, the leading guide to environmental control systems design for over 25 years, provides future architects and practicing professionals with the knowledge and tools needed to design a sustainable built environment at the schematic design stage. Responding to current industry trends, this Fifth Edition has been completely restructured based on net zero design strategies. Reflecting the latest developments in codes, standards, and rating systems for energy efficiency, this Fifth Edition includes three new chapters: Retrofits – best practices for efficient energy optimization in existing buildings, Integrated Design – strategies for synergizing passive and active design, and Design Tools – how to utilize the best tools to benchmark a building's sustainability and net zero potential; as well as an extensively updated Lighting chapter.

Trade • 9781119585749 • Nov 2020 • Cloth • 752pp • US\$140.95 • Previous ed: 9781118582428



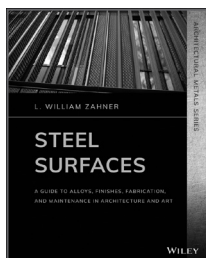
Impact

Revenge of the Digital

Ali Rahim & Hina Jamelle

This issue of *AD* explores the working discipline of architecture as it impacts the material culture within which it is always embedded. An architecture of impact uses advanced digital techniques in such a way that its material assembly supersedes its use of the digital. Architectural projects that are more subversive in how they are created and that lose their digital signature have greater potential to be at the forefront of the discipline's new materialisations. This issue illustrates these ideas and their architectural impact. Featured architects: Archi-Union, Contemporary Architecture Practice, HDA-X, Heatherwick Studio, Herzog & de Meuron, Ishida Rehm Studio, Pininfarina, SHoP Architects, SU-11, UNStudio, and Young & Ayata, and Zaha Hadid Architects.

Trade • 9781119651581 • Nov 2020 • Paper • 144pp • US\$45.00



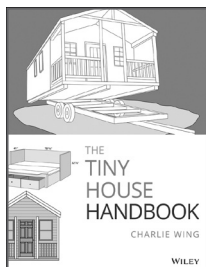
Steel Surfaces

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

L. William Zahner

Steel Surfaces, fourth in Zahner's *Architectural Metals Series*, provides a comprehensive and authoritative treatment of steel applications in architecture and art. It offers architecture and design professionals the information they need to ensure proper maintenance and fabrication techniques through detailed information and full-color images. It 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. The book also features case studies that offer strategies for designing and executing successful projects using steel. *Steel Surfaces* is filled with illustrated case studies that present comprehensive coverage of how steel is used in creating surfaces for building exteriors, interiors, and art finishes.

Trade • 9781119541622 • Oct 2020 • Paper • 384pp • US\$74.95



The Tiny House Handbook

Charlie Wing

The Tiny House Handbook is a comprehensive guide to everything you need to know to construct your very own tiny house. Produced in Charlie Wing's signature «visual handbook» style and jam-packed with full-color illustrations and diagrams, this book includes step-by-step instructions for building a tiny house as well as information on cost estimating and design requirements. Based on 2018 International Residential Code (IRC) Appendix Q, this book includes sample construction drawings and floor plans for a variety of tiny home styles, including Mobile (wide trailers and RVs), Movable and Site-built homes. Rather than being just another inspirational collection of tiny home photographs, *The Tiny House Handbook* constitutes a complete and fulsome reference for anyone seeking to build their own tiny home. From seasoned construction vets to total novices, this book will walk you through the process of designing and building a tiny house from start to finish.

Trade • 9781119581871 • Sep 2020 • Paper • 240pp • US\$29.95

DESIGN, DRAWING & PRESENTATION

Digital Sketching

Digital Sketching

Computer-Aided Conceptual Design

John Bacus

A summary of the table of contents: 1-Sketching for Conceptual Design • 2-The Elements of Design • 3-Representations of Space • 4-Sketching in 2D • 5-Sketching in 3D • 6-Sketching in Code • 7-From Sketch to Production • 8-Epilogue • Appendix 1-What computer should I buy.docx • Appendix 2-Integrated Development Environments (IDEs) for Architect • Appendix 3-Sketching in Virtual Reality

Trade • 9781119640769 • Nov 2020 • Paper • 256pp • US\$54.95

PLANNING

International Journal of Urban and Regional Research, Volume 44, Issue 5

International Journal of Urban and Regional Research, Volume 44, Issue 5

Mustafa Dikeç, Ananya Roy & Fulong Wu

Since its foundation in 1977 *IJURR* has been at the cutting-edge of critical urban scholarship. *IJURR* is taking forward its commitment to interdisciplinary and international urban research, connecting with new audiences and debates, consolidating its position as a leading publication in the field.

Reference • 9781119706595 • Oct 2020 • Paper • 208pp • US\$17.99

Also available:

International Journal of Urban and Regional Research, Volume 44, Issue 6

Reference • 9781119706601 • Dec 2020 • Paper • 208pp • US\$17.99

Retrofitting Case Studies

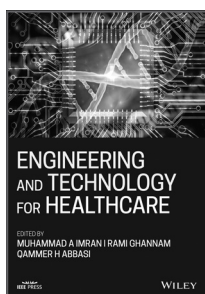
Retrofitting Case Studies

Ellen Dunham-Jones & June Williamson

Architects and developers are proving that the retrofitting drive is making a big difference in how we improve our world. Focusing on the essential challenges for redevelopment in the 21st century, this fully-illustrated, colorful book showcases exemplary built case studies from around the globe and highlights the solutions that have been realized. Filled with examples of successful suburban projects that have been redeveloped, re-inhabited, and regreened for the betterment of the community and the environment, *The Retrofitting Suburbia Case Studies: Designs for 21st-Century Challenges* starts by introducing readers to the subject. It then continues with enlightening chapter coverage of case studies involving: Redesigning Water; Innovating Energy Planning; Reducing Auto-Dependency; Improving Public Health; Retrofitting for an Aging Population; Ramping Affordability; International Challenges; Financing Change; and Design Inspiration.

Trade • 9781119149170 • Nov 2020 • Cloth • 272pp • US\$64.95

GENERAL & INTRODUCTORY BIOMEDICAL ENGINEERING



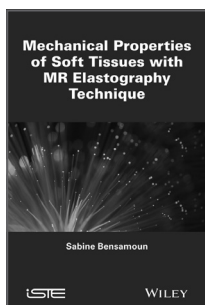
Engineering and Technology for Healthcare

Muhammad Imran, Rami Ghannam & Qammer H. Abbasi

Innovation in healthcare is currently a “hot” topic. Innovation allows us to think differently, to take risks and to develop ideas that are far better than existing solutions. Currently, there is no single book that covers all topics related to microelectronics, sensors, data, system integration and healthcare technology assessment in one reference. This book aims to critically evaluate current state-of-the-art technologies and provide readers with insights into developing new solutions. With contributions from a fully international team of experts across electrical engineering and biomedical fields, the book discusses how advances in sensing technology, computer science, communications systems and proteomics/genomics are influencing healthcare technology today.

Reference • 9781119644248 • Dec 2020 • Cloth • 300pp • US\$120.00 • Imprint: Wiley-IEEE Press

TISSUE, CELL, AND GENETIC ENGINEERING



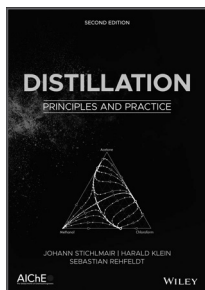
Mechanical Properties of Soft Tissues with MR Elastography Technique

Sabine Bensamoun

The principle of magnetic resonance elastography (MRE) is the focus of this book. The functional and structural properties of the skeletal muscle (in passive and active conditions), the liver and the kidney are characterized in particular. Viscoelastic properties are calculated with multifrequency MRE tests and rheological models and results are compared between MR and ultrasound elastography techniques. MRE is applied to pathological muscles and fibrotic livers to follow the effects of the treatment. The authors also analyze MRE post-processing, a key stage in diagnosis. In later chapters a phantom mimicking the soft tissues is created and a FE model is developed in order to simulate wave displacement.

Reference • 9781848215481 • Nov 2020 • Cloth • 144pp • US\$84.95 • Imprint: Wiley-ISTE

CHEMICAL ENGINEERING



Distillation

Principles and Practice, 2nd Edition

Johann Stichlmair, Harald Klein & Sebastian Rehfeldt

Distillation Principles and Practice Second Edition covers all the main aspects of distillation including the thermodynamics of vapor/liquid equilibrium, the principles of distillation, the synthesis of distillation processes, the design of the equipment, and the control of process operation. Most textbooks deal in detail with the principles and laws of distilling binary mixtures. When it comes to multi-component mixtures, they refer to computer software nowadays available. One of the special features of the second edition is a clear and easy understandable presentation of the principles and laws of ternary distillation. The right understanding of ternary distillation is the link to a better understanding of multi-component distillation. Ternary distillation is the basis for a conceptual process design, for separating azeotropic mixtures by using an entrainer, and for reactive distillation, which is a rapidly developing field of distillation.

Reference • 9781119414667 • Oct 2020 • Cloth • 688pp • US\$194.95 • Previous ed: 9780471252412 • Imprint: Wiley-AIChE



Engineering Solutions for CO₂ conversion

Engineering Solutions for CO₂ Conversion

Tomas Reina, Jose A Odriozola & Harvey Arellano-Garcia

Despite the global efforts in reducing CO₂ emissions after Kyoto's Protocol, we are still far to meet the emissions levels requirements. This trend makes necessary an immediate response from the scientific community to develop solutions to face this global challenge to minimize the environmental impact of greenhouse gas (GHG) emissions from fossil fuels. This book comprises a complete overview of the current technologies to tackle CO₂ emissions ranging from CO₂ capture to CO₂ utilization approaches. The book is presented as a multidisciplinary toolkit covering all the different aspects of CO₂ conversion strategies including chemical, physical, engineering and economical facets and therefore it is an excellent resource for researchers and students working in chemistry, chemical engineering and environmental sciences.

Reference • 9783527346394 • Nov 2020 • Cloth • 800pp • US\$470.00 • Imprint: Wiley-VCH



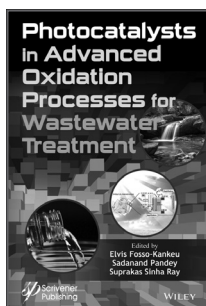
Packaging Technology and Engineering

Pharmaceutical, Medical and Food Applications

Dipak Sarker

This book covers the chemistry, physics, materials science, engineering, and therapeutic aspects of many different types of packaging materials, emphasizing throughout the applicability of various aspects of packaging science and technology. It also provides a simultaneous discussion of interrelated fields, and addresses the universal issues within these fields' application areas. Intended as a technical reference and as a study aid, it is relevant to anyone who studies or uses packaging or packaging materials.

Reference • 9781119213918 • Jul 2020 • Cloth • 544pp • US\$190.00

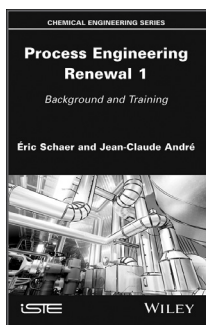


Photocatalysts in Advanced Oxidation Processes for Wastewater Treatment

Sadanand Pandey, Elvis Fosso-Kankeu & Suprakas Sinha Ray

Photocatalysts in Advanced Oxidation Processes for Wastewater Treatment comprehensively covers a range of topics aiming to promote the implementation of photocatalysis at large scale through provision of facile and green methods for catalysts synthesis and elucidation of pollutants degradation mechanisms. This book is divided into two main parts namely "Synthesis of effective photocatalysts" (Part I) and "Mechanisms of the photocatalytic degradation of various pollutants" (Part II). The first part focuses on the exploration of various strategies to synthesize sustainable and effective photocatalysts. The second part of the book provides an insights into the photocatalytic degradation mechanisms and pathways under ultraviolet and visible light irradiation, as well as the challenges faced by this technology and its future prospects.

Reference • 9781119631392 • May 2020 • Cloth • 320pp • US\$224.95 • Imprint: Wiley-Scrivener • Print-on-demand



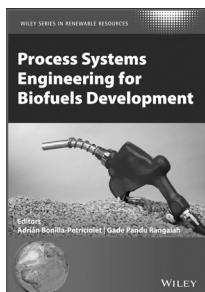
Process Engineering Renewal 1

Background and Training

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. *Process Engineering Renewal 1* focuses on training, demonstrating the need for innovation in order for the field to have a framework that is sustainable, in a highly changeable world.

Reference • 9781786305534 • May 2020 • Cloth • 342pp • US\$154.95 • Imprint: Wiley-ISTE

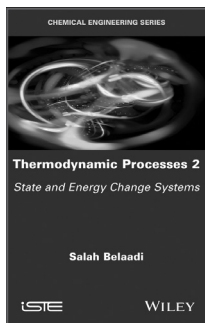


Process Systems Engineering for Biofuels Development

Adrián Bonilla–Petriciolet, Gade Pandu Rangaiah & Christian V. Stevens

Process Systems Engineering for Biofuels Development brings together the latest and most cutting-edge research on the production of biofuels. As the first book specifically devoted to process systems engineering for the production of biofuels, *Process Systems Engineering for Biofuels Development* covers theoretical, computational and experimental issues in biofuels process engineering. Written for researchers and postgraduate students working on biomass conversion and sustainable process design, as well as industrial practitioners and engineers involved in process design, modeling and optimization, this book is an indispensable guide to the newest developments in areas including enzyme-catalyzed biodiesel production; process analysis of biodiesel production; the use of ultrasonication in biodiesel production; thermochemical processes for biomass transformation to biofuels; and production of alternative biofuels.

Reference • 9781119580270 • Oct 2020 • Cloth • 544pp • US\$180.00



Thermodynamic Processes 2

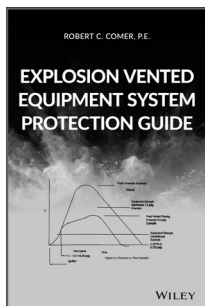
State and Energy Change Systems

Salah Belaadi

Thermodynamic Processes 2 is devoted to the study of equilibrium between phases in the case of the four changes of physical state: fusion, boiling or vaporization, sublimation and allotropy or transition. It also includes a section that addresses energy's relationship to the zero sum aspect of exergy and thermal cycles. This second volume presents scientific and technical examples – both theoretical and industrial – which are the result of a careful selection, accrued over more than three decades of teaching thermodynamics and in collaboration with the industry sector. The didactic exercises and the practical problems are entirely dedicated to the understanding of this science, and the potential applications for the industrial world.

Reference • 9781786305145 • May 2020 • Cloth • 234pp • US\$134.95 • Imprint: Wiley-ISTE

PROCESS DEVELOPMENT

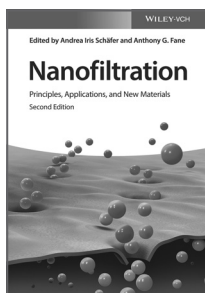


Explosion Vented Equipment System Protection Guide

Robert Comer

This book provides complete step by step instruction, practical examples, guidance, and worksheets to meet the needs of a company licensed or competent unlicensed engineer that, by education or experience, understands the concepts presented in this book. *Explosion Vented Equipment System Protection Guide* will help engineers ensure that their company is in compliance with the new standard of dust collection systems by mitigating the exposed risks. The data is presented in tables and graphs along with examples that are based on actual, proven, practical designs to clearly illustrate application of the information provided.

Reference • 9781119640035 • Nov 2020 • Cloth • 224pp • US\$134.95



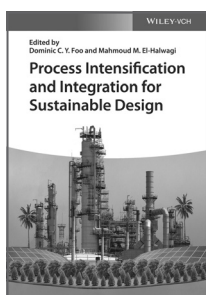
Nanofiltration

Principles, Applications, and New Materials, 2nd Edition

Andrea Iris Schäfer & Anthony G. Fane

This book provides a comprehensive overview of the growing field of nanofiltration. Nanofiltration is a membrane filtration process that is used for removing small particles from liquids. Traditionally nanofiltration has been used for water treatment. Nowadays it is used in a wide range of industries, including milk and juice production as well as the pharmaceutical and chemical industries. The principles of the technology or described, along with a thorough overview of the industrial applications. New materials for nanofiltration are discussed.

Reference • 9783527346905 • Oct 2020 • Cloth • 700pp • US\$224.15 • Imprint: Wiley-VCH



Process Intensification and Integration for Sustainable Design

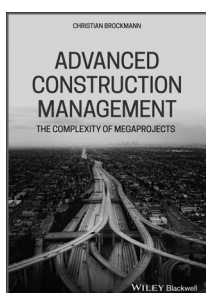
Dominic Foo & Mahmoud M. El-Halwagi

The book discusses developments in process intensification and integration with a focus on increased sustainability. Drawing from fundamental techniques and recent industrial experiences, the overarching topics of this book are Sustainable Manufacturing, Energy Saving Technologies and Resource Conservation and Pollution Prevention Techniques.

Ir. Dr. Dominic Foo is a Professor of Process Design and Integration at the University of Nottingham Malaysia Campus, and is the Founding Director for the Centre of Excellence for Green Technologies. He is a Professional Engineer with the Board of Engineer Malaysia (BEM), as well as the past chairman for the Chemical Engineering Technical Division of the Institution of Engineers Malaysia (IEM). He is a world leading researcher in process integration for resource conservation, and has won multiple awards including Young Engineer Award 2010 of IEM, Outstanding Young Malaysian Award 2012 of Junior Chamber International (JCI), the SCEJ (Society of Chemical Engineers, Japan) Award for Outstanding Asian Researcher and Top Research Scientist Malaysia 2016 (Academy of Science Malaysia).

Reference • 9783527345472 • Oct 2020 • Cloth • 352pp • US\$190.00 • Imprint: Wiley-VCH

CONSTRUCTION



Advanced Construction Management

The Complexity of Megaprojects

Christian Brockmann

Advanced Construction Management covers all aspects of megaproject management from the contractor's perspective, providing all stakeholders with a better understanding of the complexity of megaprojects and contractors with better concepts and tools for achieving impeccable implementation. It describes the structure, mechanics and dynamics of megaprojects and the management activities required, as well as giving the reader appropriate tools for the management of megaprojects and for managing stakeholder integration.

Reference • 9781119554769 • Dec 2020 • Cloth • 288pp • US\$115.00



Fundamentals of Construction Claims

A 10-Step Guide for General Contractors, Subcontractors, Architects and Engineers

William McConnell

Preparing and presenting claims is foundational knowledge for construction professionals as construction projects are bigger and more complex than ever before, and the roles and responsibilities of key players involved in construction projects are rapidly changing and intertwining. *Fundamentals of Affirmative Construction Claims* the complexity of claims preparation for construction professionals by offering a simple, step-by-step methodology that will help avoid costly dispute resolution. This guidebook includes entitlement requirements for various types of claims, including differing site conditions, added scope, weather delays, and more. It offers procedures for calculating delay impacts through forensic scheduling analysis and defines, in detail, four simple ways to prove damages.

Trade • 9781119679905 • Dec 2020 • Cloth • 400pp • US\$119.95



Modern Construction Management

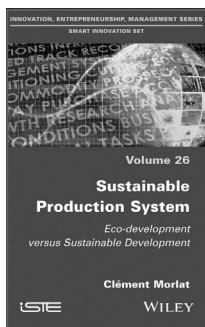
8th Edition

Ronald McCaffer & Frank Harris

While the construction process still requires traditional skills, the dynamic nature of construction demands of its managers improved understanding of modern business, production and contractual practices. This well established, core undergraduate textbook reflects current best practice in the management of construction projects, with particular emphasis given to supply chains and networks, value and risk management, BIM, ICT, project arrangements, corporate social responsibility, training, health and welfare and environmental sustainability.

Reference • 9781119488347 • Nov 2020 • Paper • 608pp • US\$60.00 • Previous ed: 9780470672174





Sustainable Production System

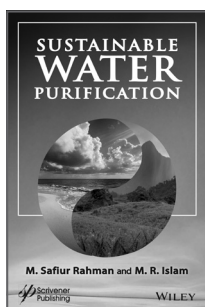
Eco-development versus Sustainable Development

Clément Morlat

Wealth is no longer just an ability to live well in a world shaped by human activities. It is also an ability to push back or defer the limits of a world in biological and climatic closure. This book examines the theoretical conflicts and the power plays which often oppose the socio-political and technical-financial practices of recognition of what intervenes in the production of this wealth – i.e. of what has value. It lays down the principles of a contributory modeling method, allowing debates around the concept of development; the building of scenarios; the negotiation of their implementation; and a cross-sectoral reading of their social, ecological and economic costs. This method, called Dynamic Modeling of Cost Systems, is based on a territorial communication device which articulates political, contractual and accounting innovations using deliberative and normative digital tools. It combines different local representations of value, in order to approach wealth through an integrated analysis of micro-, meso- and macro- issues.

Reference • 9781786303325 • May 2020 • Cloth • 310pp • US\$154.95 • Imprint: Wiley-ISTE

ENVIRONMENTAL ENGINEERING



Sustainable Water Purification

M. Safiur Rahman & M. R. Islam

Water management is one of the most important topics facing the world today, and new techniques that introduce green or zero-waste elements are a huge step forward for the industry and the world. As many predict the onslaught of “water wars” in the coming decades, *Sustainable Water Purification* turns this crisis on its head and shows the source of the water crisis. The science behind the water cycle is described in clear language, without resorting to dogmatic assertions and spurious assumptions. The role of the sun, natural carbon dioxide (CO₂) and water and the need to maintain natural processes free from artificial chemicals are discussed in detail. The book makes it clear how most of the currently used purification techniques violates the natural cycle involving sunlight, CO₂ and water, and thus become unsustainable. A series of water purification techniques, as usable for drinking, agricultural and industrial applications are presented. The advantages of these techniques and their long-term sustainability are highlighted, with discussion on improvements in the future. Whether for the engineer or scientist working in the field or laboratory or the student, this is a must-have for any engineer, scientist, student, or policymaker.

Reference • 9781119650997 • Aug 2020 • Cloth • 352pp • US\$224.95 • Imprint: Wiley-Scrivener

GENERAL & INTRODUCTORY CIVIL ENGINEERING & CONSTRUCTION

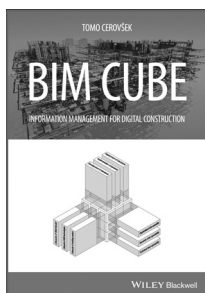
A Handbook for the Sustainable Use of Timber in Construction

A Handbook for the Sustainable Use of Timber in Construction

Jim Coulson

There is a growing interest in the use of wood in new building, not least because it has low embodied energy and it is an infinitely renewable resource. When used correctly, wood is an excellent building material but when inappropriately specified or used, it may cause problems. Poor understanding of the properties of wood and the many species and grades that are commercially available can result in this versatile material performing below expectation, and certainly less well than could have been achieved with greater understanding about how best to use it. *How Wood Works* is a combination of the author's two previous books, into one comprehensive volume. Revised and updated material to deal with the essentials of structural design and building in timber, in a sustainable manner while reflecting on changes in Standards and other Regulations and expanding on certain technical areas — such as more detailed wood science and wood structure.

Reference • 9781119701095 • Dec 2020 • Cloth • 288pp • US\$95.00



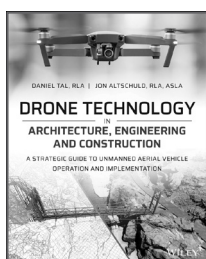
BIM Cube

Information Management for Digital Construction

Tomo Cerovsek

This book explains why and how the development and advancement of BIM is a key ingredient of digital construction with historic potential to transform the construction industry. The threefold framework (standardization, lifecycle and interoperability) with embedded systems thinking targets the advancements in digital construction. It guides readers to BIM proficiency and positive ROI by way of thorough understanding of key methodologies and challenges. The book facilitates comprehension by providing end-of-chapter body of knowledge reviews.

Reference • 9781119242901 • Dec 2020 • Cloth • 320pp • US\$110.00



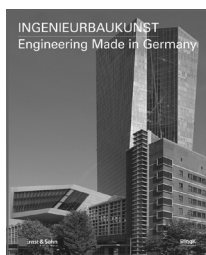
Drone Technology in Architecture, Engineering and Construction

A Strategic Guide to Unmanned Aerial Vehicle Operation and Implementation

Daniel Tal & John Altschuld

Drone Technology in Architecture, Engineering and Construction: A Strategic Guide to Unmanned Aerial Vehicle Operation and Implementation is the only process-driven, step-by-step handbook to implement drone technology in AEC workflows. It provides a comprehensive and practical roadmap for architecture, engineering, and construction firms to incorporate drones into their design and construction processes. The book offers extensive information on drone data processing, and includes guidance on how to acquire, manipulate and use the various data types produced from drone flights. The creation of three-dimensional data and visualizations are covered in-depth. *Drone Technology* reviews how to select and fly drones based on data needs and initial costs, and how to collect and maintain required flight logs, licenses, and permits.

Trade • 9781119545880 • Dec 2020 • Paper • 192pp • US\$64.95



Ingenieurbaukunst

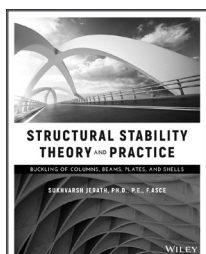
Engineering Made in Germany

Bundesingenieurkammer

The book presents recent outstanding buildings and structures in Europe and worldwide made by engineers from Germany. Edited by the Federal Chamber of Engineers, the compendium celebrates Ingenieurbaukunst – Engineering made in Germany.

Reference • 978343303265 • Sep 2020 • Paper • 180pp • US\$65.00 • Imprint: Ernst & Sohn

STRUCTURAL THEORY & STRUCTURAL MECHANICS



Structural Stability Theory and Practice

Buckling of Columns, Beams, Plates, and Shells

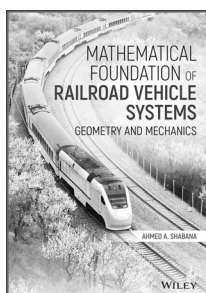
Sukhvarsh Jerath

Existing structural stability titles are overcomplicated with an overabundance of math, do not cover structures like plates and shells, and are outdated with respect to today's professional practice. While the math cannot be avoided, this book provides patiently developed mathematical derivations and thorough explanations to support comprehension of this difficult subject. This book makes connections between theory, design specifications, and solutions. *Structural Stability Theory and Practice: Buckling of Columns, Beams, Plates, and Shells* is primarily a textbook for senior undergraduates and graduate students in courses on Structural Stability or Buckling of Structures. Practicing professionals in Civil, Mechanical, and Aerospace Engineering will find it useful as a reference because each chapter has practical solved examples that connects theory and design specifications.

Trade • 9781119694526 • Oct 2020 • Cloth • 624pp • US\$129.95



TRANSPORTATION ENGINEERING



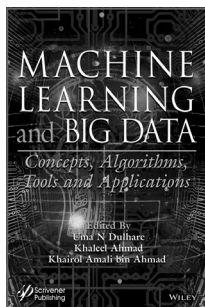
Mathematical Foundation of Railroad Vehicle Systems

Geometry and Mechanics

Ahmed Shabana

Mathematical Foundation of Railroad Vehicle Systems: Geometry and Mechanics develops the mathematical foundation of railroad vehicle systems with emphasis placed on the integration of geometry and mechanics. This geometry/mechanics integration is necessary for developing a sound mathematical foundation, accurate formulation of the nonlinear dynamic equations, and general computational algorithms that can be effectively used in the virtual prototyping, analysis, design, and performance evaluation of railroad vehicle systems. The book introduces basic concepts, formulations and computational algorithms used in railroad vehicle system dynamics. It also discusses new problems and issues to be addressed in this area, and describes how geometry and mechanics approaches can be used in studying derailments.

Reference • 9781119689041 • Nov 2020 • Cloth • 450pp • US\$140.00



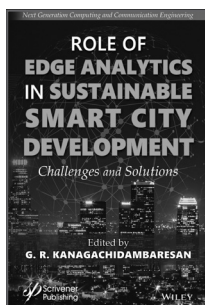
Machine Learning and Big Data

Concepts, Algorithms, Tools and Applications

Uma Dulhare, Khaleel Ahmad & Khairul Amali Bin Ahmad

Combining BD with ML will provide powerful, largely unexplored application areas that will revolutionize practice in Videos Surveillance, Social Media Services, Email Spam and Malware Filtering, Online Fraud Detection, and so on. It is very important to continuously monitor and understand these effects from safety and societal point of view. Hence, the main purpose of this book is for researchers, software developers and practitioners, academicians and students to showcase novel use-cases and applications, present empirical research results from user-centered qualitative and quantitative experiments of these new applications, and facilitate a discussion forum to explore the latest trends in big data and machine learning by providing algorithms which can be trained to perform interdisciplinary techniques such as statistics, linear algebra, and optimization and also create automated systems that can sift through large volumes of data at high speed to make predictions or decisions without human intervention.

Reference • 9781119654742 • Aug 2020 • Cloth • 544pp • US\$224.95



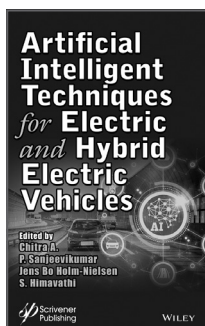
Role of Edge Analytics in Sustainable Smart City Development

Challenges and Solutions

G. R. Kanagachidambaresan

Efficient Single Board Computers (SBCs) and advanced VLSI systems have resulted in edge analytics and faster decision making. The QoS parameters like energy, delay, reliability, security, and throughput should be improved on seeking better intelligent expert systems. The resource constraints in the Edge devices, challenges the researchers to meet the required QoS. Since these devices and components work in a remote unattended environment, an optimum methodology to improve its lifetime has become mandatory. Continuous monitoring of events is mandatory to avoid tragic situations; it can only be enabled by providing high QoS. The applications of IoT in digital twin development, health care, traffic analysis, home surveillance, intelligent agriculture monitoring, defense and all common day to day activities have resulted in pioneering embedded devices, which can offer high computational facility without much latency and delay. The book address industrial problems in designing expert system and IoT applications. It provides novel survey and case study report on recent industrial approach towards Smart City development.

Reference • 9781119681281 • Jul 2020 • Cloth • 352pp • US\$224.95 • Imprint: Wiley-Scrivener

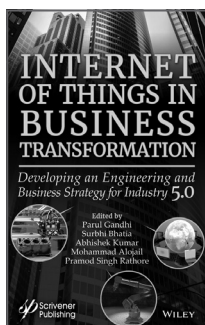


Artificial Intelligent Techniques for Electric and Hybrid Electric Vehicles

S. Himavathi, Chitra A., P. Sanjeevikumar & Jens Bo Holm-Nielsen

The book brings together the research that is being carried out in the field of EV/HEV whose leading role is by optimization techniques with artificial intelligence (AI). Other featured research includes green drive schemes which involve the possible renewable energy sources integration to develop eco-friendly green vehicles, as well as Internet of Things (IoT)-based techniques for EV/HEVs. Electric vehicle research involves multi-disciplinary expertise from electrical, electronics, mechanical engineering and computer science. Consequently, this book serves as a point of convergence wherein all these domains are addressed and merged and will serve as a potential resource for industrialists and researchers working in the domain of electric vehicles.

Reference • 9781119681908 • Jul 2020 • Cloth • 288pp • US\$194.95 • Imprint: Wiley-Scrivener



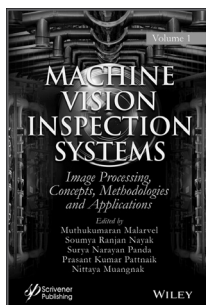
Internet of Things in Business Transformation

Developing an Engineering and Business Strategy for Industry 5.0

Parul Gandhi, Surbhi Bhatia, Abhishek Kumar, Mohammad Ali Ajojail & Pramod Singh Rathore

The objective of this book is to teach what IoT is, how it works, and how it can be successfully utilized in business. This book helps to develop and implement a powerful IoT strategy for business transformation as well as project execution. Digital change, business creation/change and upgrades in the ways and manners in which we work, live, and engage with our clients and customers, are all enveloped by the Internet of Things which is now named "Industry 5.0" or "Industrial Internet of Things. The sheer number of IoT (a billion+), demonstrates the advent of an advanced business society led by sustainable robotics and business intelligence. This book will be an indispensable asset in helping businesses to understand the new technology and thrive.

Reference • 9781119711124 • Oct 2020 • Cloth • 320pp • US\$224.95 • Imprint: Wiley-Scrivener



Machine Vision Inspection Systems

Image Processing, Concepts, Methodologies, and Applications

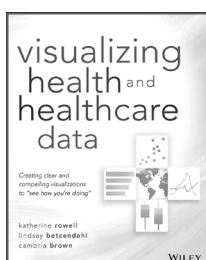
Muthukumaran Malarvel, Soumya Ranjan Nayak, Surya Narayan Panda, Prasant Kumar Pattnaik & Nittaya Muangnak

This edited book brings together leading researchers, academic scientists and research scholars to put forward and share their experiences and research results on all aspects of an inspection system for detection analysis for various machine vision applications. It also provides a premier interdisciplinary platform to present and discuss the most recent innovations, trends, methodology, applications, and concerns as well as practical challenges encountered and solutions adopted in the inspection system in terms of image processing and analytics of machine vision for real and industrial application.

Nittaya Muangnak is a lecturer at Kasetsart University Chalermphrakiat Sakon Nakhon Province Campus in Thailand. For her Ph.D. study, she has been working on medical image analysis, particularly contributed retinal fundus image at Sirindhorn International Institute of Technology, Thammasat University in Thailand.

Reference • 9781119681809 • Jun 2020 • Cloth • 256pp • US\$194.95 • Print-on-demand

BUSINESS DATA PROCESSING



Visualizing Health and Healthcare Data

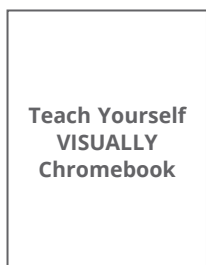
Creating Clear and Compelling Visualizations to "See how You're Doing"

Katherine Rowell, Lindsay Betzendahl & Cambria Brown

Data Visualization for Health and Healthcare Professionals is a one-of-a-kind book for health and healthcare professionals to learn the best practices of data visualization specific to their field. This book provides a high-level summary of health and healthcare data, an overview of relevant visual intelligence research, strategies and techniques to gather requirements, and instruction on how to build strong teams with the expertise required to create dashboards and reports that people love to use. Clear and detailed explanations of data visualization best practices will help you understand the how and the why.

Trade • 9781119680888 • Sep 2020 • Paper • 224pp • US\$39.95

COMPUTER HARDWARE



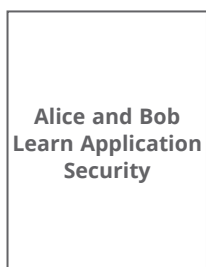
Teach Yourself VISUALLY Chromebook

Guy Hart-Davis

Teach Yourself VISUALLY Chromebook is your ultimate guide to getting the most out of your Chromebook! Designed for ease of use and portable functionality, Chromebook is the device of choice for children, teens, and adults alike. Learn to setup and use your new Chromebook by configuring essential settings and connecting external devices. This guide will also teach you tips and tricks for how to share content with others from your Chromebook and how to download, run, and manage your applications! Chromebook is designed to be one of the most feature-rich and user-friendly solutions that allows users the portable functionality of a laptop and tablet running Chrome OS with the ability to run Android apps and Linux desktop apps.

Trade • 9781119762966 • Oct 2020 • Paper • 384pp • US\$29.95 • Imprint: Visual

COMPUTER SECURITY & CRYPTOGRAPHY

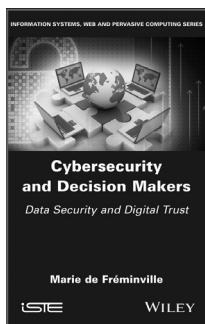


Alice and Bob Learn Application Security

Tanya Janca

Tanya "SheHacksPurple" Janca is was awarded Woman Hacker of the Year 2019 Award from Cybersecurity Woman of the Year, and is one of the best-known next-generation of AppSec expert, and her new book *Alice and Bob Learn Application Security* teaches any programmer how to build security into projects from the start. This book covers all the basic subjects such as threat modeling and security testing, but also dives deep into more complex and advanced topics for securing modern software systems and architectures. Throughout, the book offers analogies, stories of the characters Alice and Bob, real-life examples, technical explanations and diagrams to ensure maximum clarity of the many abstract and complicated subjects.

Trade • 9781119687351 • Oct 2020 • Paper • 300pp • US\$49.95



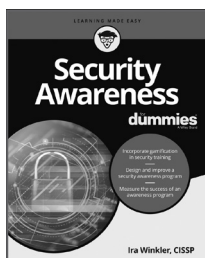
Cybersecurity and Decision Makers

Data Security and Digital Trust

Marie De Fréminville

Cyber security is a key issue affecting the confidence of Internet users and the sustainability of businesses. It is also a national issue with regards to economic development and resilience. As a concern, cyber risks are not only in the hands of IT security managers, but of everyone, and non-executive directors and managing directors may be held to account in relation to shareholders, customers, suppliers, employees, banks and public authorities. The implementation of a cybersecurity system, including processes, devices and training, is essential to protect a company against theft of strategic and personal data, sabotage and fraud. *Cybersecurity and Decision Makers* presents a comprehensive overview of cybercrime and best practice to confidently adapt to the digital world; covering areas such as risk mapping, compliance with the General Data Protection Regulation, cyber culture, ethics and crisis management.

Reference • 9781786305190 • May 2020 • Cloth • 220pp • US\$134.95 • Imprint: Wiley-ISTE

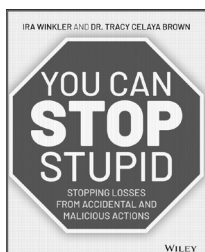


Security Awareness For Dummies

Ira Winkler

Security Awareness For Dummies addresses the subject from that of a practitioner attempting to design and implement their own security awareness program. The book is extremely pragmatic and practical to allow for readers of any skill level to pick up the book and apply the material immediately, to either create or improve their own awareness programs. It book will cover some of the fundamental scientific principles involved with creating awareness program, but only from the perspectives of providing guidance to ensuring the resulting programs are effective and providing a scientific foundation to the program target audience or to the authorities over the awareness manager.

Trade • 9781119720928 • Nov 2020 • Paper • 320pp • US\$29.95



You CAN Stop Stupid

Stopping Losses from Accidental and Malicious Actions

Ira Winkler & Dr. Tracy Celaya Brown

Around the world, users cost organizations billions of dollars due to simple errors and malicious actions. They believe that there is some deficiency in the users. In response, organizations believe that they have to improve their awareness efforts and making more secure users. The reality is that it takes a multilayered approach that acknowledges that users will inevitably make mistakes or have malicious intent, and the failure is in not planning for that. It takes a holistic approach to assessing risk combined with technical defenses and countermeasures layered with a security culture and continuous improvement. Only with this kind of defense in depth can organizations hope to prevent the worst of the cybersecurity breaches and other user-initiated losses.

Trade • 9781119621980 • Nov 2020 • Paper • 300pp • US\$34.95

DATABASE & DATA WAREHOUSING TECHNOLOGIES

Data Center Handbook

Data Center Handbook

Plan, Design, Build, and Operations of a Smart Data Center, 2nd Edition

Hwaiyu Geng

This second edition of the handbook will expand the content with fundamentals, latest technologies, and best practices to design, build, construct, and operate data centers. Exponential growth of cloud computing and data analytics from the Internet of Things, Artificial Intelligence, and smart everything demands for more advanced and mission critical data centers. This handbook provides not only needed knowledge to plan, design, build, and operate a data center, but also the knowledge to work with other professions in an advanced data center environment. This handbook is also an excellent textbook to cover fundamentals of data centers. Technologies contained in this handbook could also be utilized in high energy users such as super computers laboratories, semiconductor fabrication facilities as well as construction sector who wants to know how to build a data center.

Reference • 9781119597506 • Nov 2020 • Cloth • 738pp • US\$171.95 • Previous ed: 9781118436639

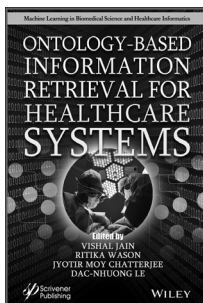
Machine Learning for Time Series Forecasting with Python

Machine Learning for Time Series Forecasting with Python

Francesca Lazzeri

Machine Learning for Time Series Forecasting with Python is an incisive and straightforward examination of one of the most crucial elements of decision-making in finance, marketing, education, and healthcare: time series modeling. Despite the centrality of time series forecasting, few business analysts are familiar with the power or utility of applying machine learning to time series modeling. Author Francesca Lazzeri, a distinguished machine learning scientist and economist, corrects that deficiency by providing readers with comprehensive and approachable explanation and treatment of the application of machine learning to time series forecasting.

Trade • 9781119682363 • Oct 2020 • Paper • 250pp • US\$59.95



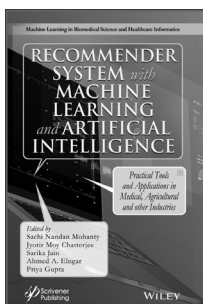
Ontology-Based Information Retrieval for Healthcare Systems

Vishal Jain, Ritika Wason, Jyotir Moy Chatterjee & Dac-Nhuong Le

With the advancements of semantic web, ontology has become the crucial mechanism for representing concepts in various domains. For research and dispersal of customized healthcare services, a major challenge is to efficiently retrieve and analyze individual patient data from a large volume of heterogeneous data over a long time span. This requirement demands effective ontology-based information retrieval approaches for clinical information systems so that the pertinent information can be mined from large amount of distributed data. This unique and groundbreaking book highlights the key advances in ontology-based information retrieval techniques being applied in the healthcare domain.

Dr. Dac-Nhuong Le, PhD is the Head-Deputy of Faculty of Information Technology, Haiphong University, Vietnam. His research interests span the optimization and algorithmic mathematics underpinnings of Network Communication, Security and Vulnerability, Network Performance Analysis, and Cloud Computing.

Reference • 9781119640486 • Jul 2020 • Cloth • 384pp • US\$224.95 • Imprint: Wiley-Scrivener



Recommender System with Machine Learning and Artificial Intelligence

Practical Tools and Applications in Medical, Agricultural and Other Industries

Sachi Nandan Mohanty, Jyotir Moy Chatterjee, Sarika Jain, Ahmed A. Elngar & Priya Gupta

This book is a multi-disciplinary effort that involves world-wide experts from diverse fields, such as artificial intelligence, human computer interaction, information technology, data mining, statistics, adaptive user interfaces, decision support systems, marketing, and consumer behavior. It comprehensively covers the topic of recommender systems, which provide personalized recommendations of items or services to the new users based on their past behavior. Recommender system methods have been adapted to diverse applications including social networking, movie recommendation, query log mining, news recommendations, and computational advertising.

Reference • 9781119711575 • Jun 2020 • Cloth • 448pp • US\$224.95 • Imprint: Wiley-Scrivener • Print-on-demand

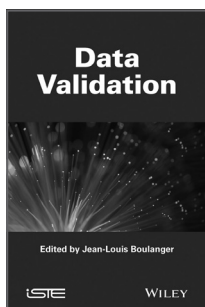


Reports, Dashboards and Apps Using Microsoft Power Platform

Sivakumar Harinath, Tessa Hurr, Amanda Rivera & Will Thompson

Microsoft Power Platform enables users to visualize data and share insights throughout an entire organization. Able to connect to any source on-premises or in the cloud, this powerful business analytics solution is rated as a leader in Gartner's Business Intelligence Magic Quadrant—ranking ahead of Tableau and Qlik. *Reports, Dashboards and Apps Using Microsoft Power Platform* helps readers understand the Power Platform suite, adopt and adapt the products based on their business needs, and transform how their organizations gain insights about business process optimization. Written by members of the Microsoft team that built Power Platform, this authoritative book instructs readers on the effective, hands-on use of these technologies. Excel users seeking to upgrade for better analysis and visualization and Tableau or Qlikview users looking to integrate with Power Platform more easily will find the information invaluable.

Trade • 9781119609186 • Sep 2020 • Paper • 500pp • US\$49.95

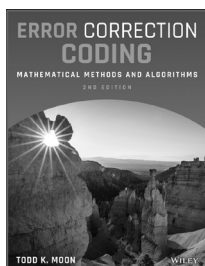


Data Validation

Jean-Louis Boulanger

Embedded systems are becoming more numerous, and to be able to develop them more simply, they use data setting. The purpose of this book is to present the data preparation process (the development of the necessary production data embedded in the software) and the process of verification and validation (v&v) of data, the process of v&v cover verification of data generated, and the validation of the software with this data

Reference • 9781848217348 • Nov 2020 • Cloth • 250pp • US\$144.95 • Imprint: Wiley-ISTE



Error Correction Coding

Mathematical Methods and Algorithms, 2nd Edition

Todd Moon

Error Correction Coding: Mathematical Methods and Algorithms, 2nd Edition provides a comprehensive introduction to classical and modern methods of error correction. The presentation provides a clear, practical introduction to using a lab-oriented approach. Readers are encouraged to implement the encoding and decoding algorithms with explicit algorithm statements and the mathematics used in error correction, balanced with an algorithmic development on how to actually do the encoding and decoding. Both block and stream (convolutional) codes are discussed, and the mathematics required to understand them are introduced on a “just-in-time” basis as the reader progresses through the book. The second edition increases the impact and reach of the book, updating it to discuss recent important technological advances.

Reference • 9781119567479 • Oct 2020 • Cloth • 1008pp • US\$155.95 • Previous ed: 9780471648000

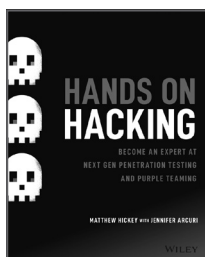


Hacking Multifactor Authentication

Roger Grimes

Most people who use multifactor authentication (MFA) have been told that it is far less hackable than other types of authentication, or even that it is unhackable. You might be shocked to learn that all MFA solutions are actually *easy* to hack. In fact, most can be hacked at least five different ways. *Hacking Multifactor Authentication* will show you how MFA works behind the scenes and how poorly linked multi-step authentication steps allows MFA to be hacked and compromised. This book covers over two dozen ways that various MFA solutions can be hacked, including the methods (and defenses) common to all MFA solutions. You'll learn about the various types of MFA solutions, their strengths and weaknesses, and how to pick the best, most defensible MFA solution for your (or your customers') needs. Finally, this book reveals a simple method for quickly evaluating your existing MFA solutions.

Trade • 9781119650799 • Oct 2020 • Paper • 464pp • US\$39.95

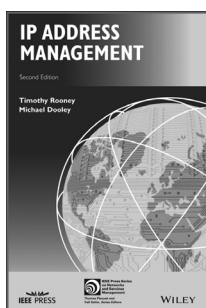


Hands on Hacking

Matthew Hickey & Jennifer Arcuri

A fast hands-on introduction for those looking to understand penetration testing and ethical hacking - written by world-renowned cybersecurity experts and trainers - this book holds no punches and explains the tools, tactics and procedures used by ethical hackers and criminal crackers alike. *Hands on Hacking* takes you on a journey through a hacker's perspective when focused on the computer infrastructure of a target company, exploring how to access the servers and data. Once the information gathering stage is complete, you'll look for flaws and their known exploits—including tools developed by real-world government financed state-actors. The book covers the fundamental basics of how computer networks are inherently vulnerable to attack, teaching you how to apply hacking skills to uncover vulnerabilities; and delves into the basics of exploitation with real-world practical examples.

Trade • 9781119561453 • Aug 2020 • Paper • 608pp • US\$39.95



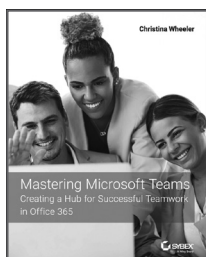
IP Address Management

2nd Edition

Timothy Rooney & Michael Dooley

This new edition discusses IP address management (IPAM) needs and methods that have evolved over the past decade. Such evolution includes mainstream use of private and public cloud services, maturation of IPv6 implementations, increased interest in DNS security approaches, and proliferation of Internet of Things (IoT) devices. These broad trends are serving to broaden the IPAM purview of network managers. The book begins with a basic overview of IP networking, including a discussion of protocol layering, addressing, and routing. After a review of the IP address management (IPAM) technologies, the book introduces the major components, motivation, benefits, and basic approaches of IPAM.

Reference • 9781119692270 • Dec 2020 • Cloth • 592pp • US\$134.95 • Previous ed: 9780470585887 • Imprint: Wiley-IEEE Press



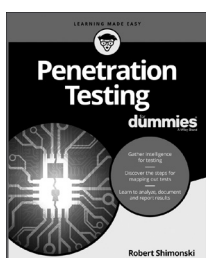
Mastering Microsoft Teams

Creating a Hub for Successful Teamwork in Office 365

Christina Wheeler

Microsoft's new chat-based collaboration software has many rich features that enable teams to be more efficient and save valuable time and resources. The author, a Microsoft MVP, starts by giving an introduction to Microsoft Teams and its architecture followed by optimizing the Teams experience where she describes how organizations can prepare for Teams and enhance existing services. She also shows you how to manage and control the Microsoft Teams experience along with its capabilities and enhancements. You'll learn how to migrate from Skype for Business to Microsoft Teams. Finally, the author offers troubleshooting tips and best practices. This book has detailed coverage that helps you exploit every capability Microsoft Teams has to offer.

Trade • 9781119697886 • Dec 2020 • Paper • 384pp • US\$44.95

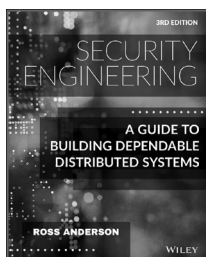


Penetration Testing For Dummies

Robert Shimonski

Pen Testing is necessary for companies looking to target, test, analyze, and patch the security vulnerabilities from hackers attempting to break into and compromise their organizations data. It takes a person with hacking skills to look for the weaknesses that make an organization susceptible to hacking. *Pen Testing For Dummies* aims to equip IT enthusiasts at various levels with the basic knowledge of pen testing. It is the go-to book for those who have some IT experience but desire more knowledge of how to gather intelligence on a target, learn the steps for mapping out a test, and discover best practices for analyzing, solving, and reporting on vulnerabilities.

Trade • 9781119577485 • May 2020 • Paper • 256pp • US\$29.95



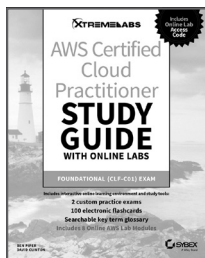
Security Engineering

A Guide to Building Dependable Distributed Systems, 3rd Edition

Ross Anderson

Security Engineering provides comprehensive and authoritative guidance on designing, implementing, and testing complete systems to be reliable in the face of technical, procedural, and physical attacks and mistakes. Best-selling author Ross Anderson updates this important book that reviewers consistently laud. This third edition brings it up to date for 2020. As people now go online from phones more than laptops, most servers are in the cloud, online advertising drives the Internet and social networks have taken over much human interaction, many patterns of crime and abuse are the same, but the methods have evolved. Ross Anderson explores what security engineering means in 2020, including how the basic elements of cryptography, protocols, and access control in the new world; who the attackers are and what they do; security psychology; the economics of security and dependability; and how to manage security and safety engineering in a world of agile development.

Trade • 9781119642787 • Nov 2020 • Cloth • 1000pp • US\$69.95 • Previous ed: 9780470068526

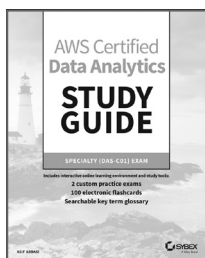


AWS Certified Cloud Practitioner Study Guide with Online Labs CLF–C01 Exam

Ben Piper & David Clinton

Virtual, hands-on learning labs allow you to apply your technical skills in realistic environments. So Sybex has bundled AWS labs from XtremeLabs with our popular *AWS Certified Cloud Practitioner Study Guide* to give you the same experience working in these labs as you prepare for the Certified Cloud Practitioner Exam that you would face in a real-life application. The *AWS Certified Cloud Practitioner Study Guide: Exam CLF–C01* provides a solid introduction to this industry-leading technology, offering complete and thorough treatment of all topics included in the exam, beginning with a discussion of what the AWS cloud is and its basic global infrastructure and architectural principles. Other chapters dive into the technical, exploring core characteristics of deploying and operating in the AWS Cloud Platform, as well as basic security and compliance aspects and the shared security model.

Trade • 9781119756705 • Jul 2020 • Paper • 304pp • US\$149.95

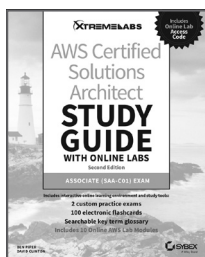


AWS Certified Data Analytics Study Guide Specialty (DAS–C01) Exam

Asif Abbasi

This comprehensive study guide will help assess your technical skills and prepare for the updated AWS Certified Data Analytics exam. Earning this AWS certification will confirm your expertise in designing and implementing AWS services to derive value from data. The *AWS Certified Data Analytics Study Guide: Specialty (DAS–C01) Exam* is designed for business analysts and IT professionals who perform complex Big Data analyses. This guide gets you ready for certification testing with expert content, real-world knowledge, key exam concepts, and topic reviews. In addition to the guide's content, you'll have access to an online learning environment and test bank that offers practice exams, a glossary, and electronic flashcards.

Trade • 9781119649472 • Sep 2020 • Paper • 408pp • US\$59.95

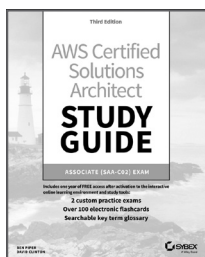


AWS Certified Solutions Architect Study Guide with Online Labs Associate (SAA–C01) Exam

Ben Piper & David Clinton

Virtual, hands-on learning labs allow you to apply your technical skills in realistic environments. So Sybex has bundled AWS labs from XtremeLabs with our popular *AWS Certified SysOps Administrator Study Guide* to give you the same experience working in these labs as you prepare for the Certified SysOps Administrator Exam that you would face in a real-life application. This comprehensive book guides readers through the role of a SysOps Administrator and helps prepare candidates to take the updated AWS Certified SysOps Administrator—Associate (SOA–C01) Exam. It not only prepares readers for the AWS exam, but it makes sure the reader is ready to perform the duties expected of SysOps Administrators. In addition, this volume offers 6 months unlimited access to XtremeLabs AWS Certified SysOps Administrator Labs, one year of free access to the Sybex interactive online learning environment and test bank, providing a suite of robust study tools including an assessment test, chapter tests, bonus practice exam, electronic flashcards, and a glossary of key terms.

Trade • 9781119756125 • Jun 2020 • Paper • 416pp • US\$149.95

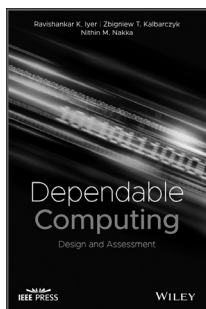


AWS Certified Solutions Architect Study Guide Associate SAA–C02 Exam, 3rd Edition

Ben Piper & David Clinton

This is your opportunity to take the next step in your career by expanding and validating your skills on the AWS Cloud. AWS has been the frontrunner in cloud computing products and services, and the UPDATED *AWS Certified Solutions Architect Study Guide, Third Edition*, for the Associate SAA–C02 Exam will get you fully prepared. Readers will have access to Sybex's superior online interactive learning environment and test bank, including hundreds of test questions, bonus practice exams, electronic flashcards, and a glossary of key terms.

Trade • 9781119713081 • Dec 2020 • Paper • 408pp • US\$59.95 • Previous ed: 9781119504214



Dependable Computing

Design and Assessment

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

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

Reference • 9781118709443 • Dec 2020 • Cloth • 400pp • US\$149.95

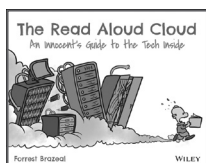
Emerging Trends
and Roles of Fog,
Edge and
Pervasive
Computing in
Intelligent IoT
Driven
Applications

Emerging Trends and Roles of Fog, Edge and Pervasive Computing in Intelligent IoT Driven Applications

Deepak Gupta & Aditya Khamparia

This book describes the different techniques of intelligent systems from a practical point of view: solving common life problems. It also brings a valuable point of view to engineers and businessmen that work in companies, trying to solve practical, economical, or technical problems in the field of their company activities or expertise. The pure practical approach helps to transmit the idea and the aim of the author to communicate the way to approach and to cope with problems that would be intractable in any other way. This book solicits contributions which include theory, applications, and design methods of intelligent systems, Ubiquitous techniques, trends of fog, edge and cloud applications as embedded in the fields of engineering, computer science, mathematics and life sciences, as well as the methodologies behind them.

Reference • 9781119670070 • Nov 2020 • Cloth • 448pp • US\$119.95 • Imprint: Wiley-IEEE Press



The Read Aloud Cloud

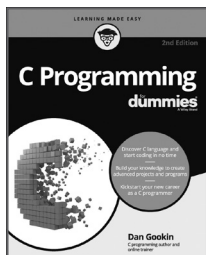
An Innocent's Guide to the Tech Inside

Forrest Brazeal

Cloud technologies are reaching a critical mass, and the demand for educational content in this space is exploding! Dive into tech by learning from the Dr. Seuss of the cloud, an industry respected speaker and developer! Forrest is a professional explainer whose highly-rated conference talks and viral cartoon graphics have been teaching engineers to cloud for years. He knows that a picture is worth a thousand words. But he has plenty of words, too. As a graduation gift (call it "Oh the Places You'll Go" for engineering students), a cubicle conversation starter, or just a delightfully nerdy bedtime story for your kids, "The Read-Aloud Cloud" will be the definitive introduction to the technologies that everyone uses and nobody understands. You can even read it silently if you want. But good luck with that.

Trade • 9781119677628 • Aug 2020 • Paper • 176pp • US\$24.95

PROGRAMMING & SOFTWARE DEVELOPMENT



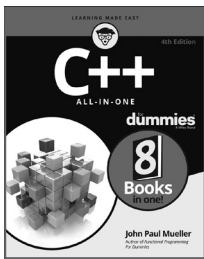
C Programming For Dummies

3rd Edition

Dan Gookin

C Programming For Dummies, 3rd Edition covers everything you need to begin writing C programs. It explains the entire development cycle—designing and developing the program, writing source code, compiling the code, linking the code to create the executable program, debugging, and deployment. It explains all the intricacies of writing the code—the basic and not-so-basic building blocks that make up the source code.

Trade • 9781119740247 • Oct 2020 • Paper • 432pp • US\$29.95 • Previous ed: 9780764570681



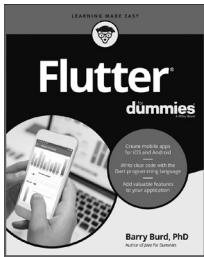
C++ All-in-One For Dummies

4th Edition

John Paul Mueller

Your comprehensive and updated guide to one of the world's most popular programming languages is here! Whether you're a novice or expert, you'll find what you need to get going with the latest features of C++20. The workhorse of programming languages, C++ gives you the utmost control of data usage and interface and resource allocation. If your job involves data, proficiency in C++ means you're indispensable! This edition gives you 8 books in 1 for total C++ mastery. Inside, internationally renowned expert John Paul Mueller takes you from the fundamentals of working with objects and classes to writing applications that use paradigms not normally associated with C++, such as those used for functional programming strategies. The book also includes online resources such as source code.

Trade • 9781119601746 • Dec 2020 • Paper • 888pp • US\$39.95 • Previous ed: 9781118823781



Flutter For Dummies

Barry Burd

Flutter is an app developer's dream come true. With Google's open source toolkit, you can easily build beautiful apps that work across platforms using a single codebase. This flexibility allows you to get your work out to the widest possible audience. *Flutter for Dummies* is your friendly, ground-up route to creating multi-platform apps. From how to construct your initial frameworks to writing code in Dart, you'll find the essentials you need to ride the Flutter revolutionary wave to success. This book includes guidance on how to create an intuitive and stunning UI, add interactivity, and easily pull in data. You'll also see how Flutter features like Hot Reload—providing sub-second refreshes as you refine your work—help you make sure your app is a delight to use.

Trade • 9781119612582 • Jul 2020 • Paper • 384pp • US\$29.95



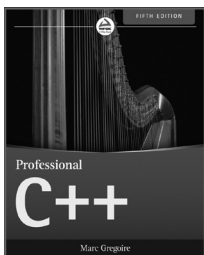
Hands-On NoSQL

A Practical Guide to Design and Implementation with Technical Case Studies

Arsames Qajar & Dan Sullivan

If you're a database designer or software engineer who uses NoSQL, this book can help you expand your knowledge. Learn advanced design patterns, grasp the performance implications of design choices, and prepare to support large-scale NoSQL databases in production. *Hands-On NoSQL: A Practical Guide to Design and Implementation with Technical Case Studies* provides detailed descriptions of design patterns and discusses why certain patterns are chosen. Design choices are discussed in reference to their limitations as well as their effects on implemented features. Case studies in the book highlight NoSQL databases, demonstrate how they're used, and address the challenges of operating them in production environments.

Trade • 9781119657392 • Sep 2020 • Paper • 350pp • US\$39.95



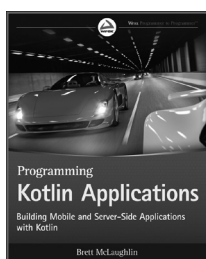
Professional C++

5th Edition

Marc Gregoire

Professional C++ is the advanced manual for C++ programming. Designed to help experienced developers get more out of the latest release, this book skims over the basics and dives right in to exploiting the full capabilities of C++20. Each feature is explained by example, each including actual code snippets that you can plug into your own applications. Case studies include extensive, working code that has been tested on Windows and Linux, and the author's expert tips, tricks, and workarounds can dramatically enhance your workflow. Even many experienced developers have never fully explored the boundaries of the language's capabilities; this book reveals the advanced features you never knew about, and drills down to show you how to turn these features into real-world solutions.

Trade • 9781119695400 • Dec 2020 • Paper • 1184pp • US\$64.95 • Previous ed: 9781119421306



Programming Kotlin Applications

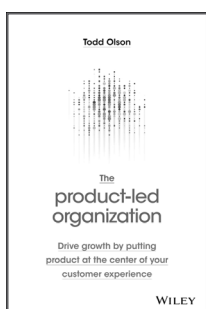
Building Mobile and Server-Side Applications with Kotlin

Brett McLaughlin

Kotlin is a fast-growing programming language that takes many cues from Java but improves upon and enhances the Java language. Ideal for mobile and back-end programming, you'll quickly learn how to get moving with Kotlin and take advantage of the language in your own projects. All without unnecessary fluff or unrealistic samples that don't translate into practical application. Readers will learn first-hand how to develop their first Kotlin project, understanding along the way how Kotlin securely protects and stores your information. This book will progressively give readers a means of advocating for using Kotlin in their own environments—professionally and personally. They'll understand Kotlin's goals, how to use Kotlin at its best, and when not using Kotlin is a good choice.

Trade • 9781119696186 • Dec 2020 • Paper • 450pp • US\$44.95

SOFTWARE ENGINEERING



The Product-Led Organization

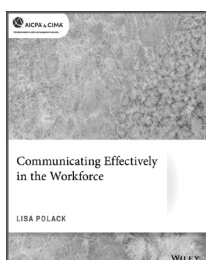
Drive Growth By Putting Product at the Center of Your Customer Experience

Todd Olson

There was a time when companies could get away with mediocre product experiences. But not any more. Today, consumers expect products that delight. Once someone begins using a digital product, their unique experience unfolds. How you shape that experience is integral to customer satisfaction and future sales. *The Data-Driven Product: How to Design, Build, and Evolve Software Customers Can't Live Without* guides product teams and their leaders in designing a delightful experience directly inside their web and mobile applications. The book explains why some software products fail to measure up in the eyes of the users—and how to avoid that fate. This book helps product managers, user experience designers, team leaders, and other stakeholders create software their customers love to use.

Trade • 9781119660873 • Sep 2020 • Cloth • 272pp • US\$34.95

TECHNICAL COMMUNICATION



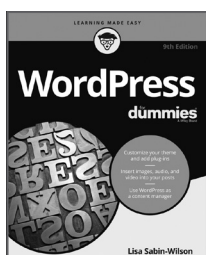
Communicating Effectively in the Workforce

Lisa Polack

If you do not understand how communication works, then you may become perplexed and frustrated by interactions in the workplace. However, if you understand how communication works, then you have a good chance of diagnosing and fixing communication problems. Best of all, you can influence and motivate your employees, make better decisions, negotiate more effectively, build better work teams, and accomplish business objectives. This book discusses the various forms of communication.

Trade • 9781119746171 • Jul 2020 • Paper • 144pp • US\$57.95

WEB SITE DEVELOPMENT



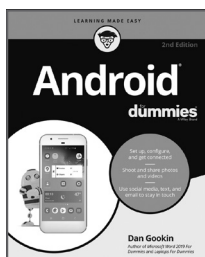
WordPress For Dummies

9th Edition

Lisa Sabin-Wilson

WordPress For Dummies, 9th Edition helps readers discover the power of the WordPress web content building tool. Web builders have created 75 million websites using WordPress and this book will show you how to add your blogs and websites to that count. Perfect for new bloggers, experienced bloggers converting to WordPress for the first time, and people accustomed to WordPress who want to learn more about the full potential of the technology, *WordPress for Dummies, 9th Edition* is an indispensable addition to the library of every blogger and webmaster.

Trade • 9781119696971 • Dec 2020 • Paper • 432pp • US\$29.95 • Previous ed: 9781119325925



Android For Dummies

2nd Edition

Dan Gookin

This book documents all the features of the Android phone and tablet, approaching them from the point of view of a smart person who is intimidated by the technology and baffled by the scant documentation and online support. All topics for the Android will be covered, from setup and configuration, to use of the phone features: texting, emailing, accessing the internet, maps, navigation, camera and video, synching with a PC, and expanding the device's potential with new software. As usual, humor is generously sprinkled throughout the text. The accessible and fun writing style provides relief but never gets in the way of the book's important content. The reader will end up keeping this book close, referring to it often as they explore the features of their Android phone or tablet. It covers all the updates to the OS through the latest version release.

Trade • 9781119711353 • Aug 2020 • Paper • 352pp • US\$29.95 • Previous ed: 9781119453857

iPhone For Dummies

iPhone For Dummies

Covers iPhone 'X', 14th Edition

Edward Baig & Bob LeVitus

The iPhone is a music player, a gaming system, a computer, and a mobile phone all wrapped up in one pocket-sized package. Your device can keep you in touch with friends and family, tell you what's going on in the world, and provide endless hours of entertainment. And those are just a few of its many capabilities! *iPhone For Dummies* offers the insight of two longtime Apple experts on how to make the most of your iPhone and its updated features.

Trade • 9781119730026 • Nov 2020 • Paper • 400pp • US\$29.95 • Previous ed: 9781119607960

iPhone For Seniors For Dummies

iPhone For Seniors For Dummies

10th Edition

Dwight Spivey

The iPhone is a hugely popular smartphone that offers many convenient features, including a camera, turn-by-turn directions, a calendar, and more. The easy-to-follow steps in this book will help you manage, personalize, and communicate using your new iPhone. You will discover how to do everything from shopping online and organizing appointments to taking and sharing pictures and downloading and listening to your favorite music.

Trade • 9781119730040 • Nov 2020 • Paper • 448pp • US\$29.95 • Previous ed: 9781119607618

Teach Yourself VISUALLY iPhone 12, 12 Pro, and 12 Pro Max

Teach Yourself VISUALLY iPhone 12, 12 Pro, and 12 Pro Max

Guy Hart-Davis

Teach Yourself VISUALLY iPhone is your ultimate guide to getting the most out of your iPhone! Apple's graphics-driven iOS is perfect for visual learners, so this book uses a visual approach to show you everything you need to know to get up and running—and much more. Full-color screen shots walk you step-by-step through setup, customization, and everything your iPhone can do. Whether you are new to the iPhone or have just upgraded to the 12, 12 Pro, or 12 Pro Max, this book helps you discover your phone's full functionality and newest capabilities. Stay in touch by phone, text, email, FaceTime Audio or FaceTime Video calls, or social media; download and enjoy books, music, movies, and more; take, edit, and manage photos; track your health, fitness, and habits; organize your schedule, your contacts, and your commitments; and much more!

Trade • 9781119763284 • Dec 2020 • Paper • 350pp • US\$24.95 • Previous ed: 9781119683889 • Imprint: Visual

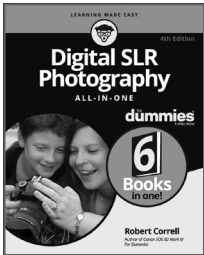
Canon EOS Rebel T8i/850D For Dummies

Canon EOS Rebel T8i/850D For Dummies

Julie Adair King

Photographers who desire full control over all aspects of their images turn to digital SLR cameras to fill their needs. The Canon EOS Rebel T8i/850D offers that level of control in a camera body designed to appeal to beginning and novice photographers. Add this book to that camera and you have the recipe for taking amazing photos. Author Julie Adair King shares her years of photography wisdom as she leads you on an exploration of camera controls, explains what each setting controls, and explains how to put them all together to get the shots every photographer wants in their portfolio.

Trade • 9781119716211 • Oct 2020 • Paper • 368pp • US\$34.95

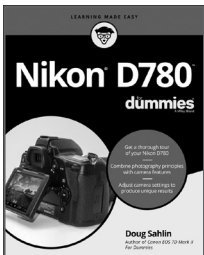


Digital SLR Photography All-in-One For Dummies 4th Edition

Robert Correll

Upgrading to a digital SLR camera is a sign that you're serious about becoming a better photographer. A dSLR offers you control over your photography that a smartphone or a point-and-shoot can never match. It takes some know-how to make all those features work. *Digital SLR Photography All-in-One For Dummies* offers a perfect starting place for getting a grasp on how to take charge of your dSLR. Look inside to get the lowdown on dSLR controls, interchangeable lenses, the science of taking photographs, and how to put them all together to get the images you want out of your camera.

Trade • 9781119711704 • Nov 2020 • Paper • 608pp • US\$44.95 • Previous ed: 9781119291398



Nikon D780 For Dummies

Doug Sahlin

Nikon D780 For Dummies provides Nikon D780 users and owners with in-depth knowledge and practical advice about how to get great shots with their powerful camera. Written by professional photographer Doug Sahlin, this book gives quick and convenient answers to Nikon D780 users most frequent and pressing questions. Written in the straightforward and pragmatic style known and loved by *For Dummies* readers around the world, *Nikon D780 For Dummies* is perfect for people just starting out with digital SLR photography as well as those who know their way around a camera.

Trade • 9781119716372 • Jul 2020 • Paper • 336pp • US\$34.95

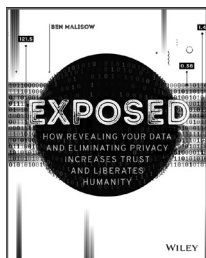
PHTS '2021' For Dummies

PHTS '2021' For Dummies

Barbara Obermeier & Ted Padova

Photoshop Elements has a reputation of being the little brother of Photoshop, a photo editor that doesn't have the muscle of its better-known sibling. The truth is the Elements version offers all the photo editing tools and power the vast majority of non-professional photographers and designers will ever need to get the results they want. This book helps even the absolute beginner get a grasp on the art of photo editing before sending them on their way to making common image fixes with a single click and taking full control of image layers to create a unique result.

Trade • 9781119724124 • Oct 2020 • Paper • 416pp • US\$34.95



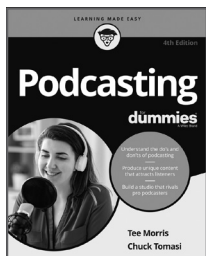
Exposed

How Revealing Your Data and Eliminating Privacy Increases Trust and Liberates Humanity

Ben Malisow

Privacy is a cherished notion especially in western society and democracies. But, what if the supposed benefits of privacy are wrong? Security expert Ben Malisow looks at why individuals and society at large are better with less privacy and not more. This controversial and counter-intuitive book flouts the conventional wisdom and tackles privacy advocates head-on.

Trade • 9781119741633 • Sep 2020 • Paper • 208pp • US\$19.95



Podcasting For Dummies

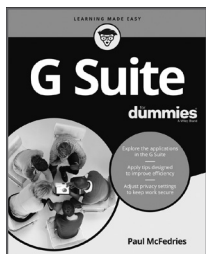
4th Edition

Tee Morris & Chuck Tomasi

With more and more people turning to podcasts for on-demand, mobile entertainment and information, the market for new podcasts has never been healthier—or more competitive. Big companies and A-list celebrities are starting to get in on the action, so it's more important than ever to produce content that sets you apart. Podcasting For Dummies, 4th Edition offers a fast and easy way to get the know-how you need to produce and distribute your own podcast. Written by a pair of podcasting pioneers, this book shares insight on the technology behind recording, editing, and sharing podcasts along with tips on how to produce a pro-level podcast and find your audience.

Trade • 9781119711810 • Oct 2020 • Paper • 416pp • US\$26.95 • Previous ed: 9781119412199

OFFICE PRODUCTIVITY- NON-MICROSOFT (GENERAL & SUITES)

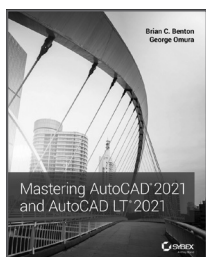


G Suite For Dummies

Paul McFedries

G Suite For Dummies is the fun guide to the productivity suite that's quickly winning over professional and personal users. This book shares the steps on how to collaborate in the cloud, create documents and spreadsheets, build presentations, and connect with chat or video. Written in the easy-to-follow *For Dummies* style, *G Suite For Dummies* covers the essential components of Google's popular software, helps navigate the G Suite payment plans and subscription options, as well as settings that ensure your own privacy and security while operating in the cloud.

Trade • 9781119742173 • Aug 2020 • Paper • 464pp • US\$29.95



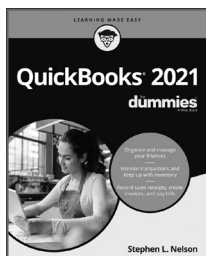
Mastering AutoCAD

2nd Edition

Brian Benton & George Omura

Each year, *Mastering AutoCAD* appears at the top of the AutoCAD book sales charts, and it is the world's all-time best-selling AutoCAD series, with more than a half million copies in print. *Mastering AutoCAD* and AutoCAD LT teaches AutoCAD essentials using concise explanations, focused examples, step-by-step instructions, and hands-on projects for both AutoCAD and AutoCAD LT. This detailed resource works as both a tutorial and stand-alone reference. Part I introduces the basics of the interface and drafting tools; Part II moves into such intermediate skills as effectively using hatches, fields, and tables; Part III details such advanced skills as attributes, dynamic blocks, drawing curves and solid fills; Part IV explores 3D modeling and imaging; and Part V discusses customization and integration. The supporting website includes all the project files necessary for the tutorials and other bonus content.

Trade • 9781119715351 • Oct 2020 • Paper • 1100pp • US\$69.95 • Previous ed: 9781119495000

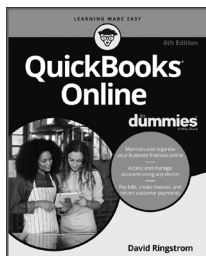


QuickBooks 2021 For Dummies

Stephen Nelson

QuickBooks 2021 For Dummies covers all of the key features of QuickBooks including setting up QuickBooks and getting started, populating QuickBooks lists, creating invoices and credit memos, recording a sales receipt, recording and paying bills, setting up inventory items, tracking business checkbook and credit cards, printing checks, processing payroll and preparing payroll tax returns, building a budget, going online with QuickBooks, balancing accounts, generating financial reports, job estimating, billing, and tracking, backing up your data, simplifying tax preparation, and more.

Trade • 9781119676799 • Oct 2020 • Paper • 408pp • US\$26.95 • Previous ed: 9781119589693



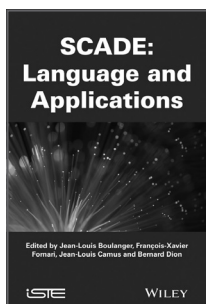
QuickBooks Online For Dummies

6th Edition

David Ringstrom

QuickBooks Online For Dummies, 6th Edition collects and provides the best and most current information available for those looking to get the most out of the leading QuickBooks Online software. Perfect for small business owners, managers, and employees, *QuickBooks Online For Dummies* delivers the newest and most up-to-date advice based on the latest versions of QuickBooks Online. The *6th Edition* is written by a seasoned author of more than seventy books.

Trade • 9781119679073 • Dec 2020 • Paper • 320pp • US\$29.95 • Previous ed: 9781119590668



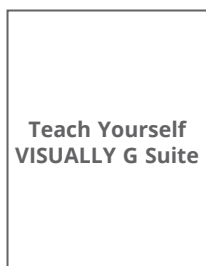
SCADE

Language and Applications

Jean-Louis Boulanger, Francois-Xavier Fornari, Jean-Louis Camus & Bernard Dion

The SCADE tool has been used from many years for the development of safety critical software in the nuclear, aeronautics and railways sectors. The language supported by this tool is also called SCADE and is based on the formal language LUSTRE. In this book, the authors present the SCADE language (syntax and semantics) along with some examples of use. Within the field of aeronautics, the SCADE tool is used by both Boeing and Airbus. In the railways sector, all the major companies throughout the world have used this tool. There are currently no books that present the SCADE language and tool, and thus this book will be the first to tackle this subject. It is especially useful as new versions of standards recommend that the language used in safety critical applications be formalized.

Reference • 9781848215573 • Oct 2020 • Cloth • 304pp • US\$99.95 • Imprint: Wiley-ISTE

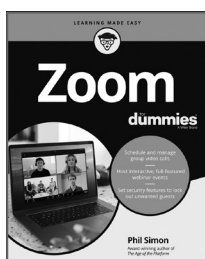


Teach Yourself VISUALLY G Suite

Guy Hart-Davis

Teach Yourself VISUALLY G Suite is your ultimate guide to getting the most out of G Suite! G Suite is Google's one stop shop to help users tackle a various number of productivity problems in today's busy work, school, or life environment. Offering solutions for email, word processing, spreadsheets, presentation decks, shared calendars, cloud storage, virtual conferencing, on a subscription-based model opening access for anyone interested in better organizing one's daily tasks.

Trade • 9781119763277 • Nov 2020 • Paper • 384pp • US\$24.95 • Imprint: Visual



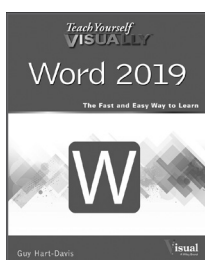
Zoom For Dummies

Phil Simon

Zoom For Dummies shows readers how to stay connected to their friends, family, colleagues, and peers with this explosively popular communication platform. Written by business professional Phil Simon, *Zoom For Dummies* allows you to take full advantage of Zoom's multi-faceted feature set, beyond just video conferencing. You'll be able to connect with people around the globe, record and replay video, share your screen with others, and use Zoom on your desktop, laptop, tablet, and mobile device. The book shows you how to follow best practices when it comes to Zoom's enhanced security features, as well as how to keep Zoom up to date.

Trade • 9781119742142 • Jul 2020 • Paper • 352pp • US\$26.95

OFFICE PRODUCTIVITY-MICROSOFT (GENERAL & OFFICE SUITE)



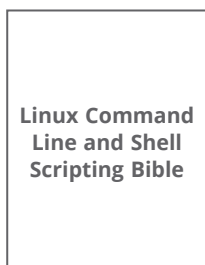
Teach Yourself VISUALLY Word 2019

Guy Hart-Davis

Teach Yourself VISUALLY: Word 2019 provides readers with a thorough and visual exploration of the 2019 edition of Microsoft Word. Written by the celebrated author of over 100 books on computing, Guy Hart-Davis, *Teach Yourself VISUALLY: Word 2019* allows you to quickly get up to speed with one of the most popular word processors on the planet. Newly updated to include the latest features of Microsoft Word, like how to collaborate on documents in real time, draw and write with the digital pen, new accessibility options and the new Resume Assistant, *Teach Yourself VISUALLY: Word 2019* belongs on the shelf of anyone who wants to improve their effectiveness with this essential word processor.

Trade • 9781119724483 • Jul 2020 • Paper • 352pp • US\$29.95 • Previous ed: 9781119074663 • Imprint: Visual

OPERATING SYSTEMS (GENERAL)



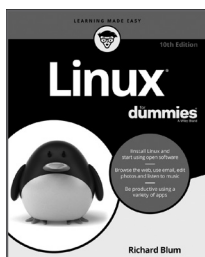
Linux Command Line and Shell Scripting Bible

4th Edition

Richard Blum

The fourth edition of the successful *Linux Command Line and Shell Scripting Bible* focuses on teaching basic and advanced shell scripting, and includes many more examples to guide readers through using shell scripting found in Linux environments. The updated core command line and shell scripting content reflects changes to new Linux versions, and more examples have been added to chapters covering Shell Scripting Basics. In addition, coverage of Advanced Shell Scripting includes new functional script examples.

Trade • 9781119700913 • Dec 2020 • Paper • 768pp • US\$49.95 • Previous ed: 9781118983843



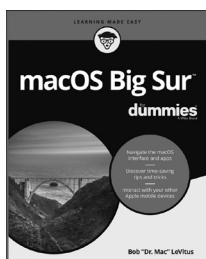
Linux For Dummies

10th Edition

Richard Blum

With an influx of first-time Linux users comes the need for guidance laid out in simple everyday terms. The *Linux For Dummies* series has provided the backbone for beginning Linux user information for years. This book expands on this history by providing up-to-date guidance and information about the current popular Linux distributions. *Linux For Dummies*, 10th Edition focuses on two types of Linux distributions currently popular with beginners: Ubuntu and Mint.

Trade • 9781119704256 • Sep 2020 • Paper • 456pp • US\$34.95 • Previous ed: 9780470467015



macOS Big Sur For Dummies

Bob LeVitus

Whether you're doing your computing on an old reliable Macbook or a brand new Mac desktop, you rely on macOS to help you get things done. It helps to have an equally reliable guidebook to steer you through the tasks and steps that make macOS run efficiently. This fun and friendly guide provides the direction you need to easily navigate macOS Big Sur. Longtime expert Bob "Dr. Mac" LeVitus shares his years of experience to help you better understand macOS and make it a timesaving tool in your life.

Trade • 9781119730101 • Oct 2020 • Paper • 528pp • US\$29.95



PowerShell 7 for IT Pros

Thomas Lee

PowerShell 7 for IT Pros is your guide to using PowerShell 7, the open source, cross-platform version of Windows PowerShell. Windows IT professionals can begin setting up automation in PowerShell 7, which features many improvements over the early version of PowerShell Core and Windows PowerShell. PowerShell 7 users can enjoy the high level of compatibility with the Windows PowerShell modules they rely on today. This book shows IT professionals—especially Windows administrators and developers—how to use PowerShell7 to engage in their most important tasks, such as managing networking, using AD/DNS/DHCP, leveraging Azure, and more.

Trade • 9781119644729 • Nov 2020 • Paper • 432pp • US\$49.95



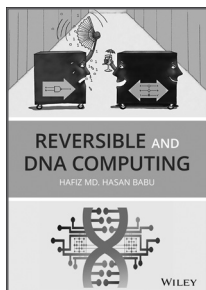
Ubuntu Linux Bible

David Clinton & Christopher Negus

Ubuntu Linux Bible (version 19.10) addresses the information needed for the complete spectrum of Ubuntu users, from desktop users to server administrators, including those new to Linux who may be setting up Linux servers for the first time. The book provides complete information presented in such a way that new users have all of the information that they need, while experienced Linux users can skip directly to the details that they require. Covering the recently released 19.10, as well as the previous version, this book will cover Getting Started with Ubuntu, Ubuntu for Desktop Users, and Ubuntu for System Administrators

Trade • 9781119722335 • Oct 2020 • Paper • TBA • US\$49.95

CIRCUIT THEORY & DESIGN

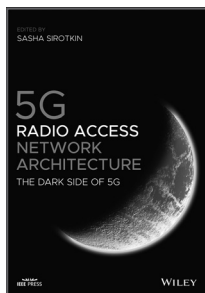


Reversible and DNA Computing

Hafiz Babu

Energy consumption is an important aspect of most computing systems today and this is especially true for embedded systems and battery-dependent computers. Reversible computing has the potential to reduce power consumption and heat dissipation. Moreover, traditional silicon computers consume much more power as compared to the computing systems based on Reversible Deoxyribonucleic Acid (DNA). *Reversible and DNA Computing* is the first effort to focus on reversible computing for graduate and post-graduate students, individual researchers, academicians, and industry professionals. This book elaborately discusses the reversible concept with appropriate examples which will help students, academicians and all levels of researchers find new dimensions of research in the energy efficient reversible and DNA computing paradigm. The book discusses from fundamentals to advanced levels of reversible circuits, reversible fault tolerant circuits and reversible DNA circuits.

Reference • 9781119679424 • Sep 2020 • Cloth • 456pp • US\$135.00



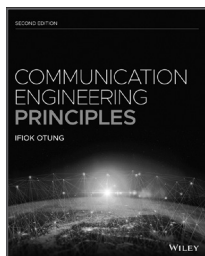
5G Radio Access Network Architecture

The Dark Side of 5G

Sasha Sirotkin

Written by an industry insider with state of the art research at their fingertips, this book describes the Radio Access Network (RAN) architecture, starting with currently deployed 4G, followed by the description of 5G requirements and why re-thinking of the RAN architecture is needed to support these. Based on these considerations, it explains how 5G network architecture, which is currently being defined, is likely to evolve. The aim is not merely to cover relevant standards and technologies as a purely academic exercise (although a significant part of the book will be dedicated to these), but to augment these by practical deployment, to illustrate why the RAN architecture is changing and where it is going. With 5G deployments on the horizon, there is a desire within companies to both re-think the RAN architecture and to change the proprietary nature of the RAN. Correspondingly, there is increased interest in academia, standards bodies and commercial entities involved in the area.

Reference • 9781119550884 • Dec 2020 • Cloth • 400pp • US\$135.00 • Imprint: Wiley-IEEE Press



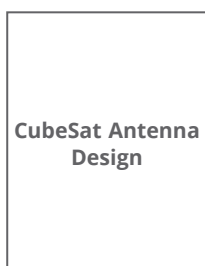
Communication Engineering Principles

2nd Edition

Ifiok Otung

A worldwide communication technology revolution has taken place in the last 20 years which has created a high demand in Industry for graduates with in-depth expertise in communication engineering techniques and a sound and complete understanding of their core principles. This is the timely second edition of the highly successful '*Communication Engineering Principles (CEP)*', first published in 2001 and adopted as a core textbook for teaching in many universities in the UK and abroad. Primarily intended for a first undergraduate degree course in Communication Engineering, *CEP* also proved to be an excellent background reading material on a range of MSc courses related to Telecommunication Engineering and for practicing engineers, media technology professionals and technical managers wishing to update their knowledge of the subject.

Reference • 9781119274025 • Nov 2020 • Cloth • 960pp • US\$110.00 • Previous ed: 9780333775226

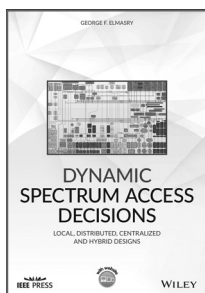


CubeSat Antenna Design

Nacer Chahat

This book surveys a variety of antenna designs used for CubeSat communication and radar by the Jet Propulsion Laboratory (JPL). The first chapter presents a brief introduction of CubeSats. The second chapter illustrates the telecommunication subsystem of Mars Cube One (MarCO) mission, with an emphasis on the antenna development. The third chapter describes the enabling technology of Radar in a CubeSat (RainCube): the 0.5m deployable mesh reflector. Chapter 4 presents the electrical and mechanical design of the largest reflectarray compatible with a 6U-class CubeSat: OMERA (one meter reflectarray antenna). Chapter 5 explains the development of a one-meter mesh reflector for telecommunication at X- and Ka-band for deep space missions. In Chapter 6, an inflatable antenna operating at X-band is shown from an electrical and mechanical point of view with all the challenges associated with operation in space. In Chapter 7, depicts how a novel patch array mainly made of metal is used on a CubeSat. Finally, Chapter 8 describes the design of multiple metasurface antennas.

Reference • 9781119692584 • Oct 2020 • Cloth • 336pp • US\$139.95



Dynamic Spectrum Access Decisions

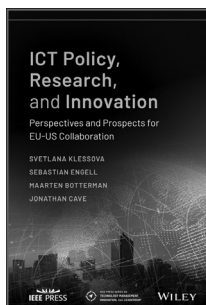
Local, Distributed, Centralized and Hybrid Designs

George Elmasry

Dynamic Spectrum Access Decisions prepares engineers to build optimum communications systems by describing at the outset what type of spectrum sensing capabilities are needed. Meant for anyone who has a basic understanding of wireless communications and networks and an interest in the physical and MAC layers of communication systems, this book has a tremendous range of civilian and military applications. The book provides fulsome discussions of cognitive radios and networks, as well as DSA technologies that operate outside the context of cognitive radios.

Reference • 9781119573760 • Oct 2020 • Cloth • 265pp • US\$135.00





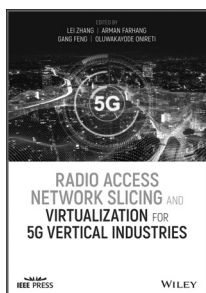
ICT Policy, Research, and Innovation

Perspectives and Prospects for EU-US Collaboration

Svetlana Klessova, Sebastian Engell, Maarten Botterman & Jonathan Cave

ICT Policy, Research, and Innovation provides a clearly readable overview of selected information and communication technology (ICT) and policy topics. Rather than deluge the reader with technical details, the distinguished authors provide just enough technical background to make sense of the underlying policy discussions. The book covers policy, research, and innovation topics on technologies including IoT, Cyber physical systems, 5G and Big data. It compares and contrasts the policy approaches taken by the EU and the US in a variety of areas and outlines the potential for future cooperation, and how the development of these new technologies is changing our conceptions of fundamental aspects of society.

Reference • 9781119632528 • Nov 2020 • Cloth • 480pp • US\$134.95 • Imprint: Wiley-IEEE Press

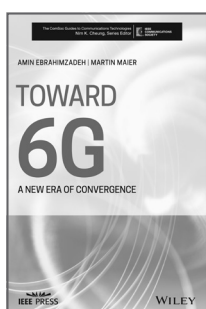


Radio Access Network Slicing and Virtualization for 5G Vertical Industries

Lei Zhang, Arman Farhang, Gang Feng & Oluwakayode Onireti

Future wireless communication systems are expected to provide services to various vastly different applications, ranging from Internet of Things (IoT), mobile broadband, to vehicle to vehicle (V2V) communications. This book explores recent advances in theory and practice of radio access network slicing for 5G and beyond communication system to support various industrial sectors including manufacturing, entertainment, public safety, public transport, healthcare, financial services, automotive and energy utilities. This timely book demonstrates how waveforms, mixed numerologies and RAN slicing can be served as the cornerstones to support all vertical sectors by a single 5G communication infrastructure efficiently and effectively. This is a pioneering research from radio air-interface perspective to achieve the true end-to-end configurable network slicing for the future diverse radio system.

Reference • 9781119652380 • Nov 2020 • Cloth • 400pp • US\$125.00 • Imprint: Wiley-IEEE Press



Toward 6G

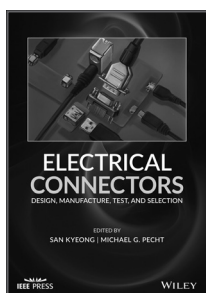
A New Era of Convergence

Martin Maier & Amin Ebrahimzadeh

Towards 6G describes the latest developments and recent progress on the key technologies enabling next-generation 6G mobile networks, paying particular attention to their seamless convergence. The book reviews the evolution of the mobile Internet and builds on the 6G vision. It describes the Tactile Internet's human-in-the-loop (HITL) centric design principles and haptic communications models, and presents an analytical framework to estimate the packet transmission delay and human-robot connection reliability. Specifically, the authors describe the implications of the transition from the current gadgets-based Internet to a future Internet that is evolving from bearables (e.g., smartphone), moves towards wearables (e.g., Google and Levi's smart jacket), and then finally progresses to nearables.

Reference • 9781119658023 • Dec 2020 • Paper • 250pp • US\$89.95 • Imprint: Wiley-IEEE Press

COMPONENTS & DEVICES



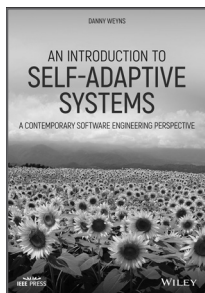
Electrical Connectors

Design, Manufacture, Test, and Selection

Michael Pecht & San Kyeong

This book covers everything required to design, manufacture and select a connector for any targeted application. It covers the science of contact physics, and the engineering involved in the choice and manufacture of contact materials, contact finishes, housing materials and the full connector assembly process. Test methods and performance and reliability concerns and guidelines are then given and various application requirements and selection considerations are discussed. This book is intended for a wide electrical engineering readership, and will appeal to both introductory and advanced levels.

Reference • 9781119679769 • Dec 2020 • Cloth • 400pp • US\$140.00 • Imprint: Wiley-IEEE Press



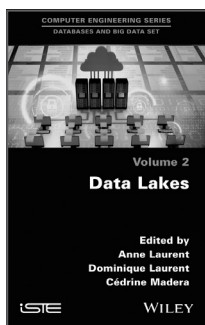
An Introduction to Self-adaptive Systems

A Contemporary Software Engineering Perspective

Danny Weyns

Self-adaptation enables a software-intensive system to adapt autonomously to achieve its goals, regardless of uncertainties the system faces during operation. Self-adaptation has been the subject of active research for over two decades, and has gained momentum only recently. As a result, there is now a broad consensus in the software engineering community that self-adaptation will be the key enabling feature to tackle the challenges of managing uncertainty of new emerging and future software-intensive systems. Currently, there is no comprehensive book available for students, researchers and engineers that introduces the foundations and engineering principles of self-adaptation. This book aims to close this gap. It is unique in taking a systematic and holistic approach, and includes a set of applications to illustrate the material with actual examples.

Reference • 9781119574941 • Oct 2020 • Cloth • 296pp • US\$99.00 • Imprint: Wiley-IEEE Press



Data Lakes

Anne Laurent

The concept of a data lake is less than 10 years old, but they are already hugely implemented within large companies. Their goal is to efficiently deal with ever-growing volumes of heterogeneous data, while also facing various sophisticated user needs. However, defining and building a data lake is still a challenge, as no consensus has been reached so far. *Data Lakes* presents recent outcomes and trends in the field of data repositories. The main topics discussed are the data-driven architecture of a data lake; the management of metadata – supplying key information about the stored data, master data and reference data; the roles of linked data and fog computing in a data lake ecosystem; and how gravity principles apply in the context of data lakes. A variety of case studies are also presented, thus providing the reader with practical examples of data lake management.

Reference • 9781786305855 • May 2020 • Cloth • 244pp • US\$134.95 • Imprint: Wiley-ISTE

Enabling the Internet of Things

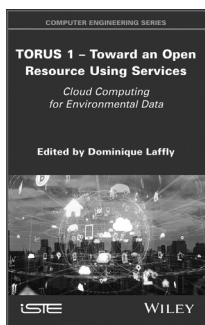
Enabling the Internet of Things

Fundamentals, Design and Applications

Muhammad Iqbal, Sajjad Hussain, Huanlai Xing & Muhammad A. Imran

IoT comprises of diversified technologies including pervasive computing, sensor technology, embedded systems, communication technologies, sensor networking, Internet protocols etc. IoT also benefits the economic growth of civilized societies. The objective of this book is to provide a good starting point to understand the fundamentals and design of IoT systems. Moreover, it is an effort to partially fill the gap associated with the understanding of IoT concepts through programming in an abstract way. Topics covered include IoT fundamentals, IoT hardware/software components, IoT protocol stack, security, IoT applications and their implementations, challenges, their possible solutions and future directions. Moreover, social aspects of smart things are also discussed.

Reference • 9781119701255 • Dec 2020 • Cloth • 220pp • US\$125.00



TORUS 1 – Toward an Open Resource Using Services

Cloud Computing for Environmental Data

Dominique Laffly

This title – presented in three volumes – examines 'environmental' disciplines in relation to major players in contemporary science: Big Data, artificial intelligence and cloud computing. Today, there is a real sense of urgency regarding the evolution of computer technology, the ever-increasing volume of data, threats to our climate and the sustainable development of our planet. As such, we need to reduce technology just as much as we need to bridge the global socio-economic gap between the North and South; between universal free access to data (open data) and free software (open source). This book aims to answer the question: in order to find a pattern in the data, how do we move from a traditional computing model-based world to pure mathematical research?

Reference • 9781786305992 • May 2020 • Cloth • 340pp • US\$154.95 • Imprint: Wiley-ISTE

Also available:

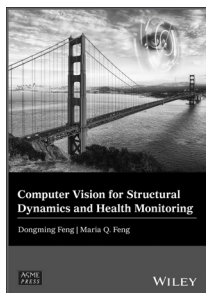
TORUS 2 – Toward an Open Resource Using Services: Cloud Computing for Environmental Data

Reference • 9781786306005 • May 2020 • Cloth • 318pp • US\$154.95 • Imprint: Wiley-ISTE

TORUS 3 – Toward an Open Resource Using Services: Cloud Computing for Environmental Data

Reference • 9781786306012 • May 2020 • Cloth • 260pp • US\$144.95 • Imprint: Wiley-ISTE

CONTROL SYSTEMS TECHNOLOGY

**Computer Vision for Structural Dynamics and Health Monitoring***Dongming Feng & Maria Q. Feng*

This book is the first to fill the gap between scientific research of computer vision and its practical applications for structural health monitoring (SHM). It provides a complete, state-of-the-art review of the collective experience that the SHM community has gained in recent years. It also extensively explores the potentials of the vision sensor as a fast and cost-effective tool for solving SHM problems based on both time and frequency domain analytics, broadening the application of emerging computer vision sensor technology in not only scientific research but also engineering practice.

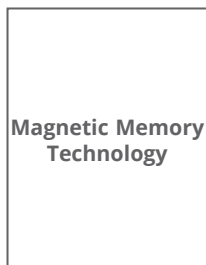
Reference • 9781119566588 • Oct 2020 • Cloth • 248pp • US\$140.00 • Imprint: Wiley-ASME Press

SCADA Security**SCADA Security****Machine Learning Concepts for Intrusion Detection and Prevention***Abdulmohsen Almalawi, Zahir Tari, Adil Fahad & Xun Yi*

This book investigates the security of Supervisory Control and Data Acquisition (SCADA) systems. It covers differing expert perspectives and ideas regarding Intrusion Detection Systems (IDS) and securing SCADA, and the relationship between the main components and three generations of SCADA systems. In addition the book explains the classification of a SCADA IDS based on its architecture and implementation.

Reference • 9781119606031 • Dec 2020 • Cloth • 250pp • US\$124.95

ELECTRONIC MATERIALS

**Magnetic Memory Technology****Spin-transfer-Torque MRAM and Beyond***Denny Tang*

This book first provides the basics of magnetism that electrical engineering students in the semiconductor curriculum can easily understand. Then, it goes one step forward to discuss electron spin. Following the above background discussion, readers are taught the physics of magnetic tunnel junction device (MTJ), the work horse of MRAM, for memory applications. At the end of this book, the author gives a comparison of emerging non-volatile memories (PCM, ReRAM, FeRAM and MRAM). The author also explores MRAM's unique quality among emerging memories, in that is the only one in which the atoms in the device do not move when switching states. This property makes it the most reliable and low power.

Reference • 9781119562238 • Dec 2020 • Cloth • 220pp • US\$139.95 • Imprint: Wiley-IEEE Press

GENERAL & INTRODUCTORY ELECTRICAL & ELECTRONICS ENGINEERING

**A Geek Girl's Guide to Electronics and the Internet of Things***Audrey O'Shea*

A Geek Girl's Guide to Electronics and the Internet of Things breaks down and simplifies electronics and the Internet of Things for the layperson. Written by a leading technical school instructor with a talent for bringing complex topics to everyday people, this book provides concrete examples and practical advice for anyone interested in building, repairing, or studying electronics and functional Internet of Things (IoT) devices. From Ohm's and Watt's Law to Motors and Pulse with Modulation, to enhancing circuits with Arduino, the book goes beyond theory to combine hands-on activities, video guides and solid pedagogy to enrich one's learning and ensure long-lasting retention for everyone.

Trade • 9781119683681 • Sep 2020 • Paper • 336pp • US\$39.95

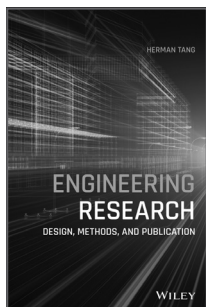
Basic Electrical and Instrumentation Engineering

Basic Electrical and Instrumentation Engineering

C Sharmeela, P. Sivaraman, R. Mahendran & A. Thaiyal Nayagi

Offering the most up-to-date coverage on the subject available, *Basic Electrical and Instrumentation Engineering* provides detailed concepts of AC circuits and power systems, transformers, DC machines, AC machines, measurement and instrumentation, and many other practical concepts for the engineer or engineering student. Covering all of the basic concepts, from three-phase power supply and its various types of connection and conversion, to power equation and discussions of the protection of power system, to transformers, voltage regulation, and many other concepts, this volume is the one-stop, “go to” for all of the engineer’s questions on basic electrical and instrumentation engineering.

Reference • 9781119764465 • Oct 2020 • Cloth • 350pp • US\$224.95 • Imprint: Wiley-Scrivener



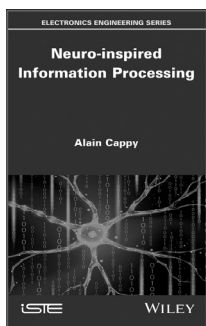
Engineering Research

Design, Methods, and Publication

Herman Tang

This book offers a descriptive yet concise guide on how to properly conceive and, eventually, execute research project within a generic engineering field. It covers most aspects of research development, from the conception of an idea to disseminating the results of the ensuing project. The contents are arranged in a common sequence of the activities for carrying out a research project. Accordingly, the book is organized in three main parts with eight chapters. This includes an overview section which covers proposal development and literature review, followed by a section on data and methods that explores quantitative and qualitative experiments, and ends with a section on presentation and publication.

Reference • 9781119624486 • Oct 2020 • Cloth • 464pp • US\$134.95

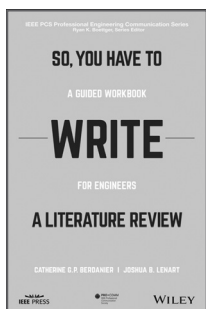


Neuro-inspired Information Processing

Alain Cappy

With the end of Moore’s law and the emergence of new application needs such as those of the Internet of Things (IoT) or artificial intelligence (AI), neuro-inspired, or neuromorphic, information processing is attracting more and more attention from the scientific community. Its principle is to emulate in a simplified way the formidable machine to process information which is the brain, with neurons and artificial synapses organized in network. These networks can be software – and therefore implemented in the form of a computer program – but also hardware and produced by nanoelectronic circuits. The ‘material’ path allows very low energy consumption, and the possibility of faithfully reproducing the shape and dynamics of the action potentials of living neurons (biomimetic approach) or even being up to a thousand times faster (high frequency approach). This path is promising and welcomed by the major manufacturers of nanoelectronics, as circuits can now today integrate several million neurons and artificial synapses.

Reference • 9781786304728 • May 2020 • Cloth • 240pp • US\$134.95 • Imprint: Wiley-ISTE



So, You Have to Write a Literature Review

A Guided Workbook for Engineers

Catherine Berdanier & Joshua Lenart

This book is focused on the writing of literature reviews, a difficult genre to master and one that is typically not addressed at the undergraduate or graduate levels. The content for the book is driven through exercises and activities that facilitate the writing progress. Grounded in English (composition, rhetoric, and writing studies), engineering education, and technical communication research, this book teaches writing from a genre theory lens. This lens allows writers to focus on how the purpose of sentences or paragraphs interacts with the other content and with the disciplinary expectations for writing for specific audiences. The text is organized so that readers can customize their learning pace. The authors outline how readers can write an effective LR as part of a 2-day workshop or within a 2-, 8-, or 16-week period. This scalable model makes the text ideal for independent learning or as part of a graduate writing workshop.

Reference • 9781119555025 • Sep 2020 • Paper • 144pp • US\$59.95 • Imprint: Wiley-IEEE Press

Electromagnetic Imaging using Synthetic Aperture Radar



Electromagnetic Imaging using Synthetic Aperture Radar

Laurent Ferro-Famil

Electromagnetic Imaging presents the methods and purposes of electromagnetic imaging with aperture synthesis. The book introduces the fundamentals of radar operation, 2D focusing techniques by spectral and/or spatial diversity, and their relevance in engineering applications. With examples and explanations of 2D SAR, interferometric, tomographic, or polarimetric imaging, and the imaging of natural or artificial environments, this volume is a detailed tool for scientists, researchers, and engineers.

Reference • 9781848216181 • Nov 2020 • Cloth • 256pp • US\$104.95 • Imprint: Wiley-ISTE

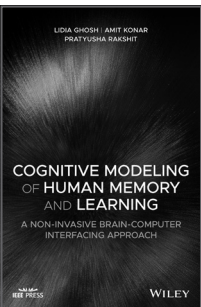
Cellular V2X for Connected Automated Driving

Cellular V2X for Connected Automated Driving

Mikael Fallgren, Markus Dillinger, Toktam Mahmoodi & Tommy Svensson

Cellular V2X for Connected Automated Driving offers a unique examination of the challenges faced on the way to fully automated vehicles, from expert industry and academia perspectives. Cellular assisted Vehicles to Everything (C-V2X) technologies in connected automated vehicles will enable information sharing between vehicles, and allow them to communicate both with the network and with each other using highly reliable and responsive, secure, and high capacity communication links. Enabling such connectivity will leverage disruptive new applications, business services resulting in advance driving support, additional road safety, and ultimately, fully automated vehicles widely spread at large scale. On the path to fully automated vehicles, there are significant challenges in serving the mix of vehicles at different automation levels, both for the network and for the vehicles.

Reference • 9781119692645 • Dec 2020 • Cloth • 320pp • US\$120.00



Cognitive Modeling of Human Memory and Learning

A Non-invasive Brain-Computer Interfacing Approach

Lidia Ghosh, Amit Konar & Pratyusha Rakshit

This book models human memory from a cognitive standpoint by utilizing brain activations acquired from the cortex by electroencephalographic (EEG) and functional near-infrared-spectroscopic (f-NIRs) means. It begins with an overview of the early models of memory. The authors then propose a simplistic model of Working Memory (WM) built with fuzzy Hebbian learning. A second perspective of memory models is concerned with Short-Term Memory (STM)-modeling in the context of 2-dimensional object-shape reconstruction from visually examined memorized instances. A third model assesses the subjective motor learning skill in driving from erroneous motor actions. Other models introduce a novel strategy of designing a two-layered deep Long Short-Term Memory (LSTM) classifier network and also deal with cognitive load assessment in motor learning tasks associated with driving. The book ends with concluding remarks based on principles and experimental results acquired in previous chapters.

Reference • 9781119705864 • Sep 2020 • Cloth • 288pp • US\$134.95 • Imprint: Wiley-IEEE Press

Multi-Agent Coordination

Multi-Agent Coordination

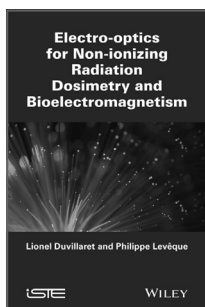
A Reinforcement Learning Approach

Arup Kumar Sadhu & Amit Konar

Multi-Agent Coordination covers the topic of cooperative interaction among multiple agents in an equilibria-based reinforcement learning framework. It presents two models for loosely- and tightly-coupled multi-robot systems, and includes experiments that validate proposed concepts in simulated and practical multi-agent robotic platforms (here Khepera-environment). The authors propose an alternative solution with hybridizing the Firefly Algorithm (FA) and the Imperialist Competitive (ICA) meta-heuristic algorithms to improve the precision in the solution of high dimension optimization problems, and examines future direction of research.

Reference • 9781119699033 • Oct 2020 • Cloth • 320pp • US\$134.95

PHOTONICS & LASERS

**Electro-optics for Non-ionizing Radiation Dosimetry and Bioelectromagnetism***Lionel Duvillaret & Philippe Leveque*

This book addresses metrology problems in the fields of dosimetry and bioelectromagnetism as well as presenting a novel type of ultra wideband and non-perturbative sensor based on electro-optics.

The exponential growth of wireless signals and their potential benefits or adverse effects on living organisms has become a major social issue nowadays as it directly concerns human health. This question will only be answered when clear causal relationships between expositions of living cells and induced effects are demonstrated. For that purpose, not only do in situ thermal effects have to be measured, but also the actual in situ electromagnetic field. This book addresses these problems and introduces novel measurement methods based on electro-optics.

Reference • 9781848215825 • Oct 2020 • Cloth • 320pp • US\$144.95 • Imprint: Wiley-ISTE

POWER ELECTRONICS

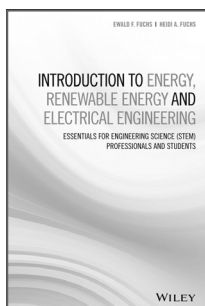
**Arc Flash Hazard
Analysis and
Mitigation**
Arc Flash Hazard Analysis and Mitigation

2nd Edition

J Das

The book is a guide for electrical engineers engaged in the design, operation and maintenance, consulting engineers, facility managers and safety professionals. The calculations of short-circuits, protective relaying and varied electrical system configurations in industrial power systems are addressed. The text covers protection systems that address differential relays, arc flash sensing relays, protective relaying coordination, current transformer operation and saturation and applications to major electrical equipment from the arc flash considerations. The book also explores current technologies and strategies for arc flash mitigation. Review questions and references follow each chapter.

Reference • 9781119709749 • Nov 2020 • Cloth • 24pp • US\$144.95 • Previous ed: 9781118163818 • Imprint: Wiley-IEEE Press

**Introduction to Energy, Renewable Energy and Electrical Engineering**

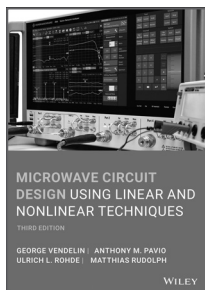
Essentials for Engineering Science (STEM) Professionals and Students

Ewald Fuchs & Heidi A Fuchs

A great resource for beginner students and professionals alike. *Introduction to Energy, Renewable Energy and Electrical Engineering* brings together the fundamentals of Carnot's laws of thermodynamics, Coulomb's law, electric circuit theory, and semiconductor technology. The book is the perfect introduction to energy-related fields for undergraduates and non-electrical engineering students and professionals with knowledge of Calculus III. It's unique combination of foundational concepts and advanced applications delivered with focused examples serves to leave the reader with a practical and comprehensive overview of the subject.

Reference • 9781119448334 • Sep 2020 • Cloth • 732pp • US\$134.95

RF / MICROWAVE THEORY & TECHNIQUES

**Microwave Circuit Design Using Linear and Nonlinear Techniques**

3rd Edition

Ulrich Rohde, George D. Vendelin, Anthony M. Pavio & Matthias Rudolph

This is the third edition of a successful book on microwave circuit design. The book covers all aspects of transistors, from their intrinsic and circuit properties to circuit design techniques for maximizing their performance in communication and radar systems. This edition places specific emphasis on CMOS technology. GaN, SiC and related materials on frequency range and feedback power amplifiers will be extended and updated to the millimeter range region. Includes a new chapter on microelectromechanical systems (MEMS), a new section on CMOS, GaN, and SiC noise models, and new sections on Leeson's and SiC-based power oscillator models and applications to real circuits.

Reference • 9781118449752 • Nov 2020 • Cloth • 1088pp • US\$198.95 • Previous ed: 9780471414797



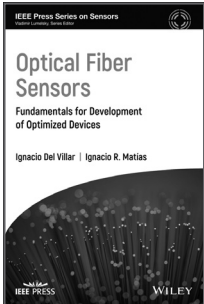


Antenna and Sensor Technologies in Modern Medical Applications

Yahya Rahmat-Samii & Erdem Topsakal

This book presents cutting-edge research advancements in the rapidly growing area of wireless medical telemetry and sensing using both wearable and implantable antenna and sensor technologies. On the wearable side, the book covers various integrated devices. These include various types of sensors wired within a wearable garment that can be paired with external devices. These include the likes of sensor-integrated clothing which are synonymous with athletic apparel with electronics built into them. On the implantable side, the book covers technologies that utilize both inductive coupling and far field propagation. These include minimally invasive microwave ablation antennas, wireless targeted drug delivery, and more.

Reference • 9781119683308 • Oct 2020 • Cloth • 500pp • US\$154.95 • Imprint: Wiley-IEEE Press



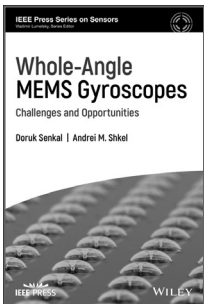
Optical Fiber Sensors

Fundamentals for Development of Optimized Devices

Ignacio Del Villar & Ignacio R. Matias

The book acts as a guide and a reference for a wide audience, ranging from graduate students to researchers and engineers in the world of fiber optic sensors. It provides fundamentals as well as some examples to aid understanding of both the working principles of fiber optic sensors and their possible applications. Some first sections are devoted to the explanation of how light propagates through the basic elements of the sensor setup: the optical source, the detector, light coupling, splices, etc. In addition to this, different detection techniques are detailed, including intensity modulation, polarimetric detection, phase modulation and wavelength modulation. Also, distributed sensing with Rayleigh, Raman and Brillouin scattering methods are presented. Finally the book provides some chapters on optimized applications such as biomechanical sensing, gas and volatile organic compound sensors, health care and clinical diagnosis.

Reference • 9781119534761 • Oct 2020 • Cloth • 560pp • US\$139.95 • Imprint: Wiley-IEEE Press



Whole-Angle MEMS Gyroscopes

Challenges and Opportunities

Doruk Senkal & Andrei M. Shkel

Whole-Angle Gyroscopes: Challenges and Opportunities presents the mathematical framework, technical language, and control systems know-how needed to design, develop, and instrument micro-scale whole-angle gyroscopes. This comprehensive reference covers the technical fundamentals, mathematical framework, and common control strategies for degenerate mode gyroscopes, which are used in high-precision navigation applications. It explores various energy loss mechanisms and the effect of structural imperfections, along with requirements for continuous rate integrating gyroscope operation. It also provides information on the fabrication of MEMS whole-angle gyroscopes and the best methods of sustaining oscillations.

Reference • 9781119441885 • May 2020 • Cloth • 176pp • US\$139.95 • Imprint: Wiley-IEEE Press • Print-on-demand



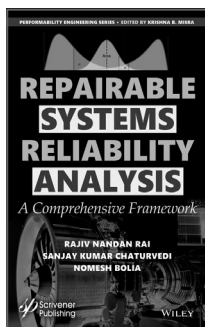
Reliability Engineering

3rd Edition

Elsayed Elsayed

This book divides the engineering reliability process into multiple parts. Part I focuses on system reliability estimation for time independent and time dependent models, helping engineers create a “firm” design. Part II presents the concept of constructing the likelihood function and its use in estimating the parameters of a failure time distribution. This aids the reader in assembling necessary components and configures them to achieve desired reliability objectives, conducting reliability tests on components and using field data from similar components. Part III addresses Physics of Failures, Mechanical Reliability and System Resilience. Finally, Part IV of the book focuses on ensuring reliability objectives by providing preventive and scheduled maintenance and warranty policies.

Reference • 9781119665922 • Nov 2020 • Cloth • 1000pp • US\$164.95 • Previous ed: 9781118137192



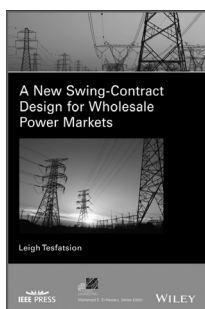
Repairable Systems Reliability Analysis

Rajiv Nandan Rai, Sanjay K. Chaturvedi & Nimesh Bolia

This unique book provides a comprehensive framework for the modeling and analysis of repairable systems considering both the non-parametric and parametric approaches to deal with the failure data. The book presents MCF based non-parametric approach with several illustrative examples and the generalized renewal process (GRP) based arithmetic reduction of age (ARA) models along with its applications to the systems failure data from aviation industry. The book also covers various multi-criteria decision-making (MCDM), integrated with repairable systems reliability analysis models to provide a much better insight into imperfect repair and maintenance data analysis. A complete chapter on an integrated framework for procurement process is added which will of a great assistance to the readers in enhancing the potential of their respective organization. This book also presents FMEA methods tailored for GRP based repairs.

Reference • 9781119526278 • Oct 2020 • Cloth • 450pp • US\$TBA • Imprint: Wiley-Scrivener

ELECTRIC POWER SYSTEMS

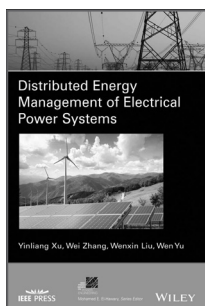


A New Swing-Contract Design for Wholesale Power Markets

Leigh Tesfatsion

This book reconsiders the current design of wholesale electric power markets in view of these concerns. Four design principles are stressed: (i) Wholesale electric power markets must necessarily be forward markets due to the speed of real-time operations; (ii) Only one type of product can effectively be offered in a wholesale electric power market: namely, reserve, an insurance product offering availability of net-load balancing services during future real-time operations; (iii) Net-load balancing services offered into wholesale electric power markets primarily take the form of power paths that can be dispatched over time at specific grid locations; (iv) All dispatchable resources should be permitted to compete for the provision of power paths without regard for irrelevant underlying technological differences. If these four principles are accepted, current trade and settlement arrangements for wholesale electric power markets need to be fundamentally altered.

Reference • 9781119670124 • Dec 2020 • Cloth • 272pp • US\$134.95 • Imprint: Wiley-IEEE Press

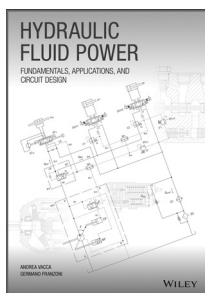


Distributed Energy Management of Electrical Power Systems

Yinliang Xu, Wei Zhang, Wenxin Liu & Wen Yu

This book focuses on fully distributed approaches for control, operation management and optimization of electrical power systems with high distributed renewable generation penetration level. The authors follow an evolutionary course in presenting topics. Particularly, the foundational technologies and background knowledge are introduced first for each topic, and then the technical advances and the specific and emerging technologies are elaborated. In the control aspects, system-level coordinated control and optimization of active and reactive power in power grids are presented. In the energy management aspect, the coordinated control of distributed generation, elastic load and energy storage systems are introduced with the consideration of maximizing overall social welfare.

Reference • 9781119534884 • Nov 2020 • Cloth • 336pp • US\$134.95 • Imprint: Wiley-IEEE Press



Hydraulic Fluid Power

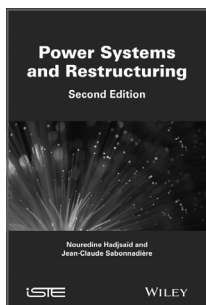
Fundamentals, Applications, and Circuit Design

Andrea Vacca & Germano Franzoni

This book presents an original educational approach to hydraulic technology by focusing on the design of complete hydraulic systems. The initial introductory chapters are dedicated to the description of the basic physical components and principles of hydraulics. The bulk of the book concentrates on the most practical and useful system concepts for controlling hydraulic functions that can be found in the state of the art. These concepts are classified, analyzed, presented, and compared on a system level. The focus is the energy performance and the control features of each design architecture. The goal is to provide the reader with the tools to understand how a hydraulic circuit design affects the operation of the equipment where it is applied, and to select the best solution for the application.

Reference • 9781119569114 • Dec 2020 • Cloth • 784pp • US\$140.00





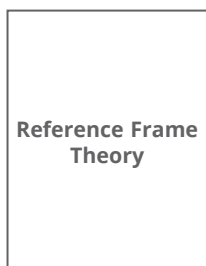
Power Systems and Restructuring

2nd Edition

Nouredine Hadjsaid & Jean-Claude Sabonnadiere

The scope of this book is to provide fundamental concepts of the physics and operation of transmission and distribution lines, which is the content of Part 1, followed by the models and tools for the description and simulation of large electrical grids for steady state and transient operation. These advanced tools allow the physics and technology of power systems to be described and the algorithms of Ybus and Zbus matrices to be built for various studies such as short-circuit studies and load flow or transient phenomena analysis. Part 3 deals with the new organization concepts in the frame of deregulated markets. In this part the restructuring of the power industry is presented where various actors interact together through market places or bilateral contracts. A large number of exercises and problems disseminated throughout the book with solutions at the end enable the reader to check his understanding of the content at any time.

Reference • 9781848217393 • Nov 2020 • Cloth • 432pp • US\$181.95 • Previous ed: 9781848211209 • Imprint: Wiley-ISTE



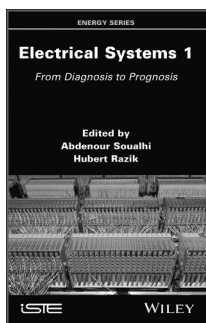
Reference Frame Theory

Paul Krause

This book sets forth the work the author has done over the last sixty years in reference frame theory from the arbitrary reference frame, to the coining of the title of reference frame theory, to the recent establishing of the basis of reference frame theory. It begins with introduction to Tesla's rotating magnetic field that is then integrated into reference frame theory. The author moves on to describe the link between reference frame theory and symmetrical induction machines and synchronous machines. Subsequent chapters explore the field orientation of brushless dc drives and induction machine drives. The book concludes with an exploration of applications that utilize reference frame theory.

Reference • 9781119721635 • Nov 2020 • Cloth • 150pp • US\$124.95 • Imprint: Wiley-IEEE Press

GENERAL ENERGY



Electrical Systems 1

From Diagnosis to Prognosis

Abdenour Soualhi & Hubert Razik

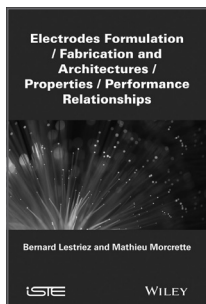
Methods of diagnosis and prognosis play a key role in the reliability and safety of industrial systems. Failure diagnosis requires the use of suitable sensors, which provide signals that are processed to monitor features (health indicators) for defects. These features are required to distinguish between operating states, in order to inform the operator of the severity level, or even the type, of a failure. Prognosis is defined as the estimation of a system's lifespan, including how long remains and how long has passed. It also encompasses the prediction of impending failures. This is a challenge that many researchers are currently trying to address. *Electrical Systems*, a book in two volumes, informs readers of the theoretical solutions to this problem, and the results obtained in several laboratories in France, Spain and further afield.

Reference • 9781786304650 • May 2020 • Cloth • 240pp • US\$134.95 • Imprint: Wiley-ISTE

Also available:

Electrical Systems 2: From Diagnosis to Prognosis

Reference • 9781786306081 • May 2020 • Cloth • 224pp • US\$134.95 • Imprint: Wiley-ISTE



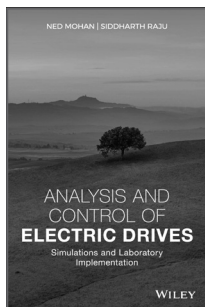
Electrodes Formulation

Fabrication and Architectures / Properties / Performance Relationships

Bernard Lestriez & Mathieu Morcrette

Li-ion battery technology is based on the reversible insertion of lithium in the active material structure. In the electrode, powder of active material must be combined with various additives, such as polymeric binders and electronically conductive agents, which give the electrode the suitable mechanical and electrical properties for the operations of assembly of the film electrode with other battery cells (separator, second electrode) and its operation during the life of the battery. These additives shall remain in small quantities in the electrode so as not to excessively reduce the energy density of the battery. From these considerations was born the issue of formulation of electrodes which is to determine the optimal combination of additives to achieve the best performance of the active material. This requires technological objective to analyze the influence of the development of the electrode to its architecture process, understand all the interactions between the different constituents of the electrode under the action of various stimuli (mechanical, chemical, electric), and requires a multidisciplinary and multi-scale with the development of sophisticated characterization techniques, both the electrodes are complex composites.

Reference • 9781848217294 • Nov 2020 • Cloth • 128pp • US\$89.95 • Imprint: Wiley-ISTE



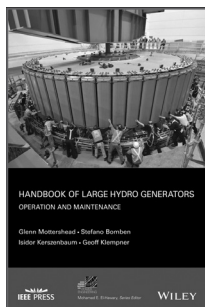
Vector Control in Electric Drives

Analysis, Simulation and Practical Implementation for Electric Vehicles, Wind Turbines and Robotics

Ned Mohan & Siddharth Raju

This book offers a practical approach to understanding electric drives and their industrial applications with real-world applications in electric vehicles and wind turbines. The first two introductory chapters describe the common knowledge and background required to understand electric drives. They include pertinent material that analyzes DC and AC machines in steady state using a unique physics-based approach, such that the book is complete and standalone. After that, the following chapters introduce the equations to analyze induction machine operation under dynamic conditions, assisted by Space Vectors. For discussion of all topics, computer simulations using MATLAB/Simulink® are provided to enhance student learning.

Reference • 9781119584537 • Aug 2020 • Cloth • 560pp • US\$144.95



Handbook of Large Hydro Generators

Operation and Maintenance

Stefano Bomben, Glenn Mottershead, Geoff Klempner & Isidor Kerszenbaum

This book is a practical handbook for engineers and maintenance staff responsible for the upkeep of large salient-pole hydro generators used in electric power plants. Focusing on the physics and maintenance of large vertical salient pole generators, it offers readers real-world experience, problem description, and solutions, while teaching them about the design, modernization, inspections, maintenance, and operation of salient pole machines. *Handbook of Large Hydro Generators: Operation and Maintenance* provides an introduction to the principles of operation of synchronous machines. It then covers design and construction, auxiliary systems, operation and control, and monitoring and diagnostics of generators. Generator protection, inspection practices and methodology and auxiliaries inspections are also examined. The final two chapters are dedicated to maintenance and testing, and maintenance philosophies, upgrades, and updates. The handbook includes over 420 color photos and 180 illustrations, forms, and tables to complement the topics covered in the chapters.

Reference • 9780470947579 • Sep 2020 • Cloth • 656pp • US\$164.95 • Imprint: Wiley-IEEE Press

RENEWABLE ENERGY

Analysis, Design and Installation of Photovoltaic Power Systems

Analysis, Design and Installation of Photovoltaic Power Systems

Ismail Kasikci, Mohamed Darwish & Engin Cetin

The book provides practice-oriented information on analysis, design and installation of photovoltaic power systems. It starts with a brief overview of large-scale photovoltaic technology and the power electronics devices used in current state-of-the-art systems. The main part of the book is devoted to the setup of and electrical installation in photovoltaic power plants according to international standards and regulations with a focus on achieving safe operation by proper implementation of protection measures, e.g., against overvoltages and overcurrents. The last part deals with simulation and test procedures and presents design case studies.

Reference • 9783527413737 • Aug 2020 • Cloth • 550pp • US\$215.00

Chalcogenide Photovoltaics

Chalcogenide Photovoltaics

Physics, Technologies, and Thin Film Devices, 2nd Edition

Roland Scheer

Retaining the proven concept of its predecessor, this second edition has been thoroughly revised and updated to reflect recent developments and features 15% new content. The book covers the physics and technology of chalcogenide-based photovoltaics, explaining in detail which properties are required for novel, superior materials in the future. The latest semiconductor heterojunction models are discussed in detail, and modern heterojunction analysis concepts are presented. Thin film technology for chalcogenide materials is explained with an emphasis on current and future techniques for mass production, with much of the book being concerned with device analysis, closing with a compendium of failure analysis of photovoltaic thin film modules.

Reference • 9783527339235 • Dec 2020 • Cloth • 420pp • US\$205.00 • Previous ed: 9783527314591

Green Energy

Green Energy

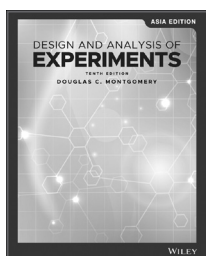
Fundamentals, Concepts, and Applications

Suman Lata Tripathi & Umashankar Subramaniam

Green energy technology has not only proved the concept of clean energy but also reduces the dependencies on fossil fuel for electricity generation through smart power electronics integration. Also, endless resources have more potential to cope with the requirements of smart building and smart city concepts. *Green Energy* – written and edited by a global team of experts – provides a thorough, comprehensive reference for anyone working in green energy, engineers, scientists, chemists and students in many fields. This is a key tool for researchers and designers in scoping parameters for future processes and equipment relating to green energy. The book outlines the practical applications of green energy across many different industries and fields, including advanced electronic systems, and covers the international standards for green energy technology.

Reference • 9781119760764 • Dec 2020 • Cloth • 350pp • US\$224.95 • Imprint: Wiley-Scrivener

GENERAL & INTRODUCTORY INDUSTRIAL ENGINEERING

**Design and Analysis of Experiments**

10th Edition, Asia Edition

Douglas Montgomery

Design and Analysis of Experiments provides a rigorous introduction to product and process design improvement through quality and performance optimization. Clear demonstration of widely practiced techniques and procedures allows readers to master fundamental concepts, develop design and analysis skills, and use experimental models and results in real-world applications. Detailed coverage of factorial and fractional factorial design, response surface techniques, regression analysis, biochemistry and biotechnology, single factor experiments, and other critical topics offer highly-relevant guidance through the complexities of the field.

Textbook • 9781119590835 • Jun 2020 • Paper • 688pp • US\$195.00



INDUSTRIAL ENGINEERING / MANUFACTURING

Smart Digital Manufacturing

Smart Digital Manufacturing

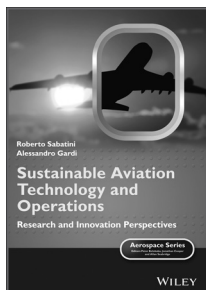
A Guide for Digital Transformation with Real Case Studies Across Industries

Subba Rao, Rene Wolf & Raffaello Lepratti

This book offers first-hand insights into Siemens's deep knowledge and experience as a manufacturer and as a digital industries software provider, through a concept called "Smart Digital Manufacturing," – a stepwise approach to realizing the promise of the Fourth Industrial Revolution. The Smart Digital Manufacturing roadmap provides guidance and enables low-risk, high-reward adoption of new manufacturing software technologies through a series of tipping-point investment decisions that result in optimized manufacturing performance. *Smart Digital Manufacturing* provides readers with a clear understanding of what digital technology has to offer them, and how and when to invest in these essential components of tomorrow's factories.

Reference • 9783527348626 • Oct 2020 • Paper • 100pp • US\$34.95

AERONAUTIC & AEROSPACE ENGINEERING

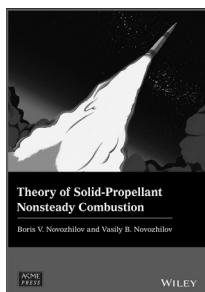
**Sustainable Aviation Technology and Operations**

Research and Innovation Perspectives

Roberto Sabatini & Alessandro Gardi

Sustainable Aviation Engineering and Operations provides an updated outlook of the main research and development initiatives currently ongoing in the aeronautics and air transport domain, with emphasis on the overall environmental objectives and current achievements. The book discusses some of the most promising advances in aviation sustainability including multidisciplinary design approaches and multi-objective operational optimisation methods. Representative air transport business models are also covered, starting from operational cost breakdown analysis and including key drivers associated with commercial flight. *Sustainable Aviation Technology and Operations* features important research and industrially relevant contributions from world-class experts and application case studies, and would be essential reading for students, researchers and practitioners in sustainable aviation engineering and operations.

Reference • 9781118932582 • Dec 2020 • Cloth • 550pp • US\$140.00



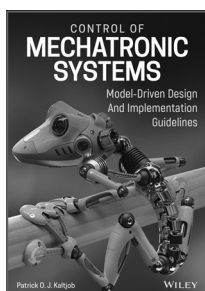
Theory of Solid-Propellant Nonsteady Combustion

Vasily Novozhilov & Boris V. Novozhilov

Despite significant developments and widespread theoretical and practical interest in the area of Solid-Propellant Nonsteady Combustion for the last fifty years, a comprehensive and authoritative text on the subject has not been available. *Theory of Solid-Propellant Nonsteady Combustion* fills this gap by summarizing theoretical approaches to the problem within the framework of the Zeldovich-Novozhilov (ZN-) theory. This book contains equations governing unsteady combustion and applies them systematically to a wide range of problems of practical interest. Theory conclusions are validated, as much as possible, against available experimental data. *Theory of Solid-Propellant Nonsteady Combustion* provides an accurate up-to-date account and perspectives on the subject and is also accompanied by a website hosting solutions to problems in the book.

Reference • 9781119525707 • Oct 2020 • Cloth • 432pp • US\$140.00 • Imprint: Wiley-ASME Press

CONTROL PROCESS & MEASUREMENTS



Control of Mechatronic Systems

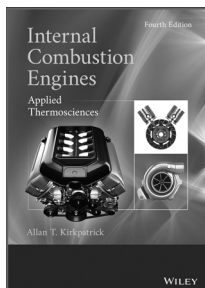
Model-Driven Design and Implementation Guidelines

Patrick Kaltjeb

Implementing digital control within mechanical-electronic (mechatronic) systems is essential to respond to the growing demand for high-efficiency machines and processes. In practice, the most efficient digital control often integrates time-driven and event-driven characteristics within a single control scheme. However, most of the current engineering literature on the design of digital control systems presents discrete-time systems and discrete-event systems separately. *Control Of Mechatronic Systems: Model-Driven Design And Implementation Guidelines* unites the two systems, revisiting the concept of automated control by presenting a unique practical methodology for whole-system integration. With its innovative hybrid approach to the modeling, analysis, and design of control systems, this text provides material for mechatronic engineering and process automation courses, as well as for self-study across engineering disciplines. Real-life design problems and automation case studies help readers transfer theory to practice, whether they are building single machines or large-scale industrial systems.

Reference • 9781119505808 • Sep 2020 • Cloth • 504pp • US\$130.00

FLUID MECHANICS



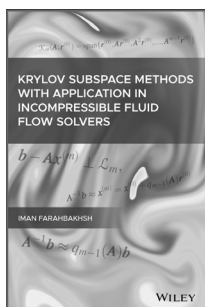
Internal Combustion Engines

Applied Thermosciences, 4th Edition

Allan Kirkpatrick

A comprehensive resource covering the foundational thermal-fluid sciences and engineering analysis techniques used to design and develop internal combustion engines, *Internal Combustion Engines: Applied Thermosciences, Fourth Edition* combines the foundational thermal-fluid sciences with engineering analysis techniques for modeling and predicting the performance of internal combustion engines. This significantly updated edition expands the combined analytical and numerical approaches used successfully in the previous editions, and discusses new engine technologies and concepts, including camless engines, rotary engines, electric superchargers. The book includes examples of integration of IC engines into new application areas such as hybrid vehicle power systems, unmanned aerial vehicles and portable power. Each chapter includes MATLAB programs and examples showing how to perform detailed engineering computations, and end of chapter homework problems.

Reference • 9781119454502 • Nov 2020 • Cloth • 560pp • US\$130.00 • Previous ed: 9781118533314

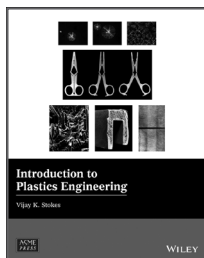


Krylov Subspace Methods with Application in Incompressible Fluid Flow Solvers

Iman Farahbakhsh

A succinct and complete explanation of Krylov subspace methods for solving matrices *Krylov Subspace Methods with Application in Incompressible Fluid Flow Solvers* is the most current and complete guide to the implementation of Krylov subspace methods for solving systems of equations with different types of matrices. Written in the simplest language possible and eliminating ambiguities, the text is easy to follow for post-grad students and applied mathematicians alike. The book covers a breadth of topics, including: The different methods used in solving the systems of equations with ill-conditioned and well-conditioned matrices. The behavior of Krylov subspace methods in the solution of systems with ill-posed singular matrices. The book includes executable subroutines and main programs that can be applied in CFD codes as well as appendices that support the results provided throughout the text.

Reference • 9781119618683 • Oct 2020 • Cloth • 200pp • US\$130.00

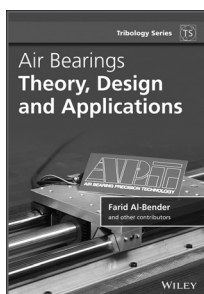


Introduction to Plastics Engineering

Vijay Stokes

The authoritative introduction to all aspects of plastics engineering — offering both academic and industry perspectives in one complete volume. *Introduction to Plastics Engineering* provides a self-contained introduction to plastics engineering. A unique synergistic approach explores all aspects of material use — concepts, mechanics, materials, part design, part fabrication, and assembly — required for converting plastic materials, mainly in the form of small pellets, into useful products. Thermoplastics, thermosets, elastomers, and advanced composites, the four disparate application areas of polymers normally treated as separate subjects, are covered together.

Reference • 9781119536574 • May 2020 • Cloth • 1064pp • US\$180.00 • Imprint: Wiley-ASME Press



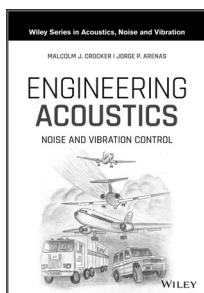
Air Bearings

Theory, Design and Applications

Farid Al-Bender

This book treats the fundamental aspects of gas bearings of different configurations (thrust, radial, circular, conical) and operating principles (externally pressurized, self-acting, hybrid, squeeze), guiding the reader throughout the design process from theoretical modelling, design parameters, numerical formulation, through experimental characterisation and practical design and fabrication. The book devotes a substantial part to the dynamic stability issues (pneumatic hammering, sub-synchronous whirling, active dynamic compensation and control), treating them comprehensively from theoretical and experimental points of view.

Reference • 9781118511497 • Nov 2020 • Cloth • 500pp • US\$160.00



Engineering Acoustics

Noise and Vibration Control

Malcolm Crocker & Jorge P. Arenas

A comprehensive evaluation of the basic theory for acoustics, noise and vibration control together with fundamentals of how this theoretical material can be applied to real world problems in the control of noise and vibration in aircraft, appliances, buildings, industry, and vehicles. The basic theory is presented in elementary form and only of sufficient complication necessary to solve real practical problems. In addition to the fundamental material discussed, chapters are included on human hearing and response to noise and vibration, acoustics and vibration transducers, instrumentation, noise and vibration measurements, and practical discussions concerning: community noise and vibration, interior and exterior noise of aircraft, road and rail vehicles, machinery noise and vibration sources, noise and vibration in rapid transit rail vehicles, automobiles, trucks, off road vehicles, and ships.

Reference • 9781118496428 • Oct 2020 • Cloth • 512pp • US\$140.00



Machine Design with CAD & Optimization

Sayed M Metwalli

This book is designed to provide the new Computer Aided Design and Optimization tools and skills to generate real design synthesis of machine elements and systems on solid ground for better products and systems. This work provides the tool to directly obtain the synthesized real optimization tools to define the geometry and the particular selection of material. This is a new approach and a straightforward paradigm. It is divided into the following four parts:– Introduction and Design Considerations – Knowledge-based design: Introduction to the new Machine Element Design Synthesis – Introduction to computer aided design and optimization as tools used for Synthesis– Design of machine elements: rigorous traditional detailed design requirements.

Reference • 9781119156642 • Dec 2020 • Cloth • 960pp • US\$130.00



Product
Realization

Product Realization
Going from One to a Million
Anna Thornton

Most of the literature on product realization is scattered in blogs, individual chapters of books, and internal company documents. Until now, there has been no single text that covers the whole launch process from end-to-end. The challenge of product realization is the interactions between the various activities and deliverables. *Product Realization* is based on first-hand experience with many companies comprising different sizes, technologies, and product development timelines. This book brings together fundamental theories and product development tools with the reality of what it takes to work in industry. Includes examples and stories from industry to illustrate and bring the material alive.

Reference • 9781119649533 • Dec 2020 • Cloth • 300pp • US\$84.95

SOLID MECHANICS

Vibrations of
Linear
Piezostructures

Vibrations of Linear Piezostructures
Andrew Kurdila & Pablo A. Tarazaga

Vibrations of Linear Piezostructures is a self-contained and introductory text providing a focused and concise account of the general theory of vibrations of linear piezostructures. The book deals with the fundamental principals, starting with a review of mathematics, continuum mechanics and elasticity, and continuum electrodynamics as they are applied to electromechanical piezostructures. It continues by developing the work related to linear constitutive laws of piezoelectricity. Following this, it addresses modeling of linear piezostructures via Newton's approach and consequently via Variational Methods. And in the end it presents a general discussion of weak and strong forms of the equations of motion, Galerkin approximation methods for the weak form, Fourier or modal methods, and finite element methods.

Reference • 9781119393405 • Dec 2020 • Cloth • 240pp • US\$120.00 • Imprint: Wiley-ASME Press

THERMODYNAMICS

Thermal
Energy
Storage



Thermal Energy Storage
Xavier Py

The book describes all thermal energy storage (TES) aspects including basic involved mechanisms, functionalities, conventional and advanced storage materials, envelopes and heat transfer fluids, systems and their integration. All those issues are presented through practical examples of domestic and industrial applications of actual interest in order to highlight major limitations and needs in future innovations. The illustrative applications (three per basic mechanisms) have been selected in such a way to cover a wide range of temperature, capacity and power ranges.

Reference • 9781848216662 • Sep 2020 • Cloth • 256pp • US\$104.95 • Imprint: Wiley-ISTE

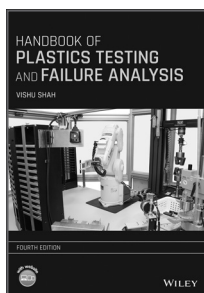
Transcritical CO2
Heat Pump

Transcritical CO2 Heat Pump
Fundamentals and Applications
Xin-Rong Zhang & Hiroshi Yamaguchi

Transcritical CO2 Heat Pump is a timely and comprehensive introduction to CO2 heat pump theory and usage, authored by leading scientists in the field. CO2 is a hot topic due to concerns over global warming and the 'greenhouse effect'. Its disposal and application has attracted considerable research and governmental interest. This book explores the basic theories, devices, systems and cycles and real application designs for varying applications, ensuring comprehensive coverage of a current topic. CO2 heat transfer has everyday applications including water heaters, air-conditioning systems, residential and commercial heating systems, and cooling systems.

Dr Hiroshi Yamaguchi is Professor in the Department of Mechanical Engineering at Doshisha University, Japan, and is currently Director at the Energy Conversion Research Center in Doshisha.

Reference • 9781118380048 • Dec 2020 • Cloth • TBA • US\$140.00



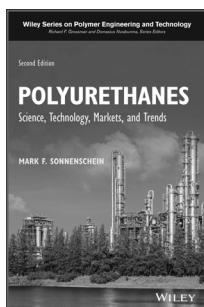
Handbook of Plastics Testing and Failure Analysis

4th Edition

Vishu Shah

Written in easy-to-read and -use format, this book remains the most complete, comprehensive resource on plastics testing. It provides a strong training resource and reference for product designers using plastics in their products – helping them identify, quantify, and confirm whether problems are related to product design or process. Updates in the new edition include data analysis techniques and examples and an expanded coverage of failure analysis, key because of increased litigation related to product liability.

Reference • 9781118717110 • Nov 2020 • Cloth • 496pp • US\$144.95 • Previous ed: 9780471671893



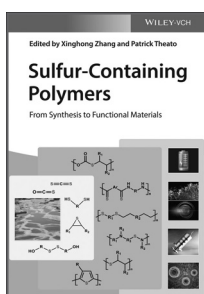
Polyurethanes

Science, Technology, Markets, and Trends, 2nd Edition

Mark Sonnenschein

This book provides a comprehensive overview of all aspects of the science and technology on polyurethanes. Written by a single author with supreme breadth and depth of experience, this book has a flow and continuity that gives readers a launching point to understanding more detailed polyurethane information found elsewhere. The second edition updates content to include new research, current markets and trend analysis based on recent patent activity, and it includes two new chapters on PU recycling and PU hybrids.

Reference • 9781119669418 • Nov 2020 • Cloth • 512pp • US\$84.95 • Previous ed: 9781118737835



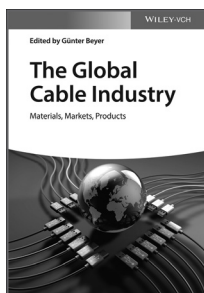
Sulfur-containing Polymers

From Synthesis to Functional Materials

Xinghong Zhang & Patrick Theato

This book focuses on the state-of-the-art synthesis of various sulfur-containing polymers from low-cost sulfur resources such as elemental sulfur, carbon disulfide (CS₂), carbonyl sulfide (COS) and mercaptan. In-depth mechanistic understanding related to the synthesis is presented in each chapter. Importantly, various types of sulfur-containing polymers, including poly(thioester)s, poly(thioether)s and poly(thiocarbonate)s and poly(thiourethane)s with linear or hyperbranched (dendrimer) architectures have also been included. The structure–property relationship and applications of sulfur-containing polymers are also presented. This book provides the latest developments of sulfur-containing polymers in a timely manner, which will be beneficial for both fundamental research and application-oriented development in this area.

Reference • 9783527346707 • Dec 2020 • Cloth • 400pp • US\$205.00



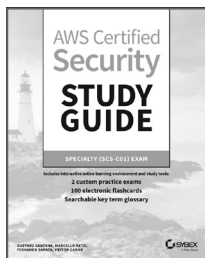
The Global Cable Industry

Materials, Markets, Products

Günter Beyer

The book gives an overview of the state-of-the-art for automotive cables, nuclear power station cables, undersea cables, coaxial cables, optical wires, medium- and high-voltage cables. It presents material developments for polymers, crosslinked elastomers and flame retardant non-halogen cable compounds. In addition, technologies to crosslink polymers, an overview of foam polymers and field experiences of the new cable fire test within the CPR (Construction Product Regulation) framework are presented. The book also reviews economic questions related to the cable industry with a focus on materials, market segments and countries.

Reference • 9783527346271 • Dec 2020 • Cloth • 384pp • US\$174.00

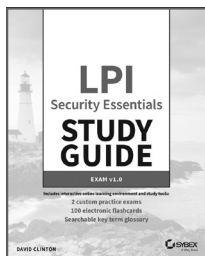


AWS Certified Security Study Guide Specialty (SCS-C01) Exam

Gustavo Santana, Marcello Neto, Fernando Sapata & Heitor Carmo

By earning the AWS Certified Security Specialty certification, IT professionals can gain valuable recognition as cloud security experts. The *AWS Certified Security Study Guide: Specialty (SCS-C01) Exam* helps cloud security practitioners prepare for success on the certification exam. It's also an excellent reference for professionals, covering security best practices and the implementation of security features for clients or employers. Architects and engineers with knowledge of cloud computing architectures will find significant value in this book, which offers guidance on primary security threats and defense principles. Amazon Web Services security controls and tools are explained through real-world scenarios. These examples demonstrate how professionals can design, build, and operate secure cloud environments that run modern applications.

Trade • 9781119658818 • Dec 2020 • Paper • 408pp • US\$59.95

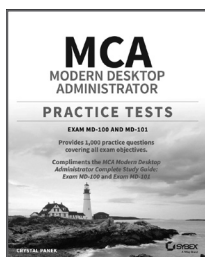


LPI Security Essentials Study Guide Exam v1.0

David Clinton

The new global standard for foundation security essentials, *LPI Linux Professional Institute Security Essentials Study Guide*, provides the tools needed to achieve your global LPI certification. A definitive study guide for LPI Security, this new release covers basic IT security knowledge to help novices expand their skills and build a better understanding of security best practices. For those looking to learn how to combat major security threats against computing systems, networks, and services, this essential study guide helps you approach issues through foundational thinking and prevent security threats from happening in the future. The included online interactive learning environment features sample tests, practice exams, flashcards, and key study terms. Use the provided tools to gain the knowledge you need to pass your LPI Security exam.

Trade • 9781119658566 • Sep 2020 • Paper • 192pp • US\$49.95

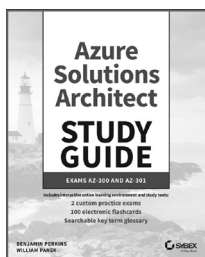


MCA Modern Desktop Administrator Practice Tests Exam MD-100 and MD-101

Crystal Panek

The new MCA Modern Desktop Administrator certification is designed to prepare administrators to deploy, configure, secure, manage, and monitor devices and client applications in an enterprise environment. Candidates manage identity, access, policies, updates, and apps. As an administrator, candidates typically collaborate with the Microsoft 365 Enterprise Administrator to design and implement a device strategy that meets the business needs of a modern organization. Candidates must be familiar with Microsoft 365 workloads and must be proficient and experienced in deploying, configuring. The *MCA Modern Desktop Administrator Practice Tests* guides readers through the NEW Exam MD-100, Windows 10, and NEW Exam MD-101, Managing Modern Desktops.

Trade • 9781119712930 • Sep 2020 • Paper • 400pp • US\$39.95

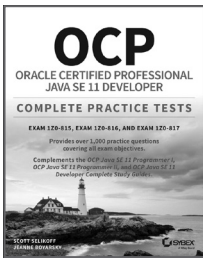


Microsoft Azure Architect Technologies and Design Complete Study Guide Exams AZ-303 and AZ-304

Benjamin Perkins & William Panek

Azure certifications are critical to the millions of IT professionals Microsoft has certified as MCSE and MCSA in Windows Server in the last 20 years. All of these professionals need to certify in key Azure exams to stay current and advance in their careers. Exams AZ-303 and AZ-304 are the key solutions architect exams that experienced Windows professionals will find most useful at the intermediate and advanced points of their careers. *Microsoft Azure Architect Technologies and Design Complete Study Guide Exams AZ-303 and AZ-304* covers the two critical Microsoft Azure exams that intermediate and advanced Microsoft IT professionals will need to show proficiency as their organizations move to the Azure cloud.

Trade • 9781119559535 • Dec 2020 • Paper • 940pp • US\$79.95



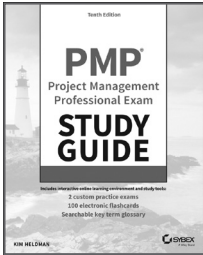
OCP Oracle Certified Professional Java SE 11 Developer Complete Practice Tests

Exam 1Z0-815 and Exam 1Z0-816

Scott Selikoff & Jeanne Boyarsky

Organized in two parts, this book provides 28 chapter tests, covering all the OCP Java SE 11 Programmer I and Programmer II objective domains. PLUS it offers two additional BONUS practice exams, for a total of over a 1000 practice test questions. This book helps you gain the confidence you need for taking the OCP Java SE 11 Programmer I and Programmer II exams. Readers get access to the online test bank that provides all the questions in electronic format. The practice test questions prepare you for test success!

Trade • 9781119696131 • Nov 2020 • Paper • 576pp • US\$39.95 • Previous ed: 9781119363392



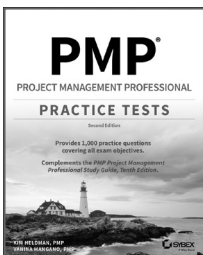
PMP Project Management Professional Exam Study Guide

2021 Update, 10th Edition

Kim Heldman

This study guide serves as a comprehensive resource for those who plan on taking the Project Management Professional (PMP) certification exam administered by PMI. The book helps you prepare for the exam, and it will continue to serve project managers as an on-the-job reference book. The *PMP Project Management Professional Exam Study Guide, Tenth Edition* is fully updated to include recent changes to the exam. New content covers the integral role that Agile and other iterative practices have in project management. Updates also address the pivotal responsibilities of the project manager and the skill sets required for this position. The study guide was written to reflect the Project Management Process and Procedures found in the revised *A Guide to the Project Management Body of Knowledge — PMBOK® Guide, 6th Edition*.

Trade • 9781119658979 • Oct 2020 • Paper • 1104pp • US\$69.95 • Previous ed: 9781119420903



PMP Project Management Professional Practice Tests

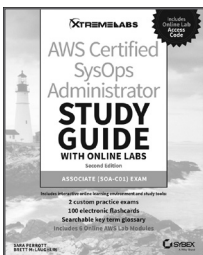
2nd Edition

Kim Heldman & Vanina Mangano

Boost your confidence through preparation before you take the new Project Management Professional (PMP) exam. The *PMP Project Management Professional Practice Tests* is the hands-on way to prepare for the exam and achieve your certification. Prepare with study questions that cover the three PMP performance domains, practice with a total of 1,000 unique test questions, and test your knowledge with three additional bonus exams. This confidence-building guide also connects you to an interactive online learning environment and test bank including all the practice exam questions. Get help reaching your professional goals with the right PMP tools!

Trade • 9781119669845 • Oct 2020 • Paper • 368pp • US\$39.95 • Previous ed: 9781119421153

MISC (OTHER) CERTIFICATIONS



AWS Certified SysOps Administrator Study Guide with Online Labs

Associate SOA-C01

Brett McLaughlin & Sara Perrott

Virtual, hands-on learning labs allow you to apply your technical skills in realistic environments. So Sybex has bundled AWS labs from XtremeLabs with our popular *AWS Certified SysOps Administrator Study Guide* to give you the same experience working in these labs as you prepare for the Certified SysOps Administrator Exam that you would face in a real-life application. These labs in addition to the book are a proven way to prepare for the certification and for work as an AWS SysOps Administrator. This comprehensive book guides readers through the role of a SysOps Administrator and helps prepare candidates to take the updated AWS Certified SysOps Administrator—Associate (SOA-C01) Exam. The AWS Certified SysOps Administrator—Associate certification validates technical expertise in deployment, management, and operations on the AWS platform.

Trade • 9781119756699 • Jul 2020 • Paper • 512pp • US\$149.95

Engineering & Computer Sciences

September to December 2020 New Titles

Title	Author	ISBN	Page Reference	Bind	Prices (US\$)	Quantity
5G Radio Access Network Architecture: The Dark Side of 5G	Sirotkin	9781119550884	25	Cloth	135.00	
A Geek Girl's Guide to Electronics and the Internet of Things	O'Shea	9781119683681	28	Paper	39.95	
A Handbook for the Sustainable Use of Timber in Construction	Coulson	9781119701095	7	Cloth	95.00	
A New Swing-Contract Design for Wholesale Power Markets	Tesfatsion	9781119670124	33	Cloth	134.95	
Advanced Construction Management: The Complexity of Megaprojects	Brockmann	9781119554769	6	Cloth	115.00	
Air Bearings: Theory, Design and Applications	Al-Bender	9781118511497	38	Cloth	160.00	
Alice and Bob Learn Application Security	Janca	9781119687351	10	Paper	49.95	
An Introduction to Self-adaptive Systems: A Contemporary Software Engineering Perspective	Weyns	9781119574941	27	Cloth	99.00	
Analysis, Design and Installation of Photovoltaic Power Systems	Kasikci, Darwish, Cetin	9783527413737	35	Cloth	215.00	
Android For Dummies, 2nd Edition	Gookin	9781119711353	19	Paper	29.95	
Antenna and Sensor Technologies in Modern Medical Applications	Rahmat-Samii, Topsakal	9781119683308	32	Cloth	154.95	
Arc Flash Hazard Analysis and Mitigation, 2nd Edition	Das	9781119709749	31	Cloth	144.95	
Artificial Intelligent Techniques for Electric and Hybrid Electric Vehicles	Himavathi, Chitra A., Sanjeevikumar, Holm-Nielsen	9781119681908	9	Cloth	194.95	
At One with Nature: Advances in Ecological Architecture in the Work of Ken Yeang, 2nd Edition	Yeang	9781119528036	1	Cloth	90.00	
AWS Certified Cloud Practitioner Study Guide with Online Labs: CLF-C01 Exam	Piper, Clinton	9781119756705	15	Paper	149.95	
AWS Certified Data Analytics Study Guide: Specialty (DAS-C01) Exam	Abbasi	9781119649472	15	Paper	59.95	
AWS Certified Security Study Guide: Specialty (SCS-C01) Exam	Santana, Neto, Sapata, Carmo	9781119658818	41	Paper	59.95	
AWS Certified Solutions Architect Study Guide with Online Labs: Associate (SAA-C01) Exam	Piper, Clinton	9781119756125	15	Paper	149.95	
AWS Certified Solutions Architect Study Guide: Associate SAA-C02 Exam, 3rd Edition	Piper, Clinton	9781119713081	15	Paper	59.95	
AWS Certified SysOps Administrator Study Guide with Online Labs: Associate SOA-C01	McLaughlin, Perrott	9781119756699	42	Paper	149.95	
Basic Electrical and Instrumentation Engineering	Sharmeela, Sivaraman, Mahendran, Nayagi	9781119764465	29	Cloth	224.95	
BIM Cube: Information Management for Digital Construction	Cerovsek	9781119242901	7	Cloth	110.00	
C Programming For Dummies, 3rd Edition	Gookin	9781119740247	16	Paper	29.95	
C++ All-in-One For Dummies, 4th Edition	Mueller	9781119601746	17	Paper	39.95	
Canon EOS Rebel T8i/850D For Dummies	King	9781119716211	20	Paper	34.95	
Cellular V2X for Connected Automated Driving	Fallgren, Dillinger, Mahmoodi, Svensson	9781119692645	30	Cloth	120.00	
Chalcogenide Photovoltaics: Physics, Technologies, and Thin Film Devices, 2nd Edition	Scheer	9783527339235	35	Cloth	205.00	
Cognitive Modeling of Human Memory and Learning: A Non-invasive Brain-Computer Interfacing Approach	Ghosh, Konar, Rakshit	9781119705864	30	Cloth	134.95	
Communicating Effectively in the Workforce	Polack	9781119746171	18	Paper	57.95	
Communication Engineering Principles, 2nd Edition	Otung	9781119274025	25	Cloth	110.00	

Title	Author	ISBN	Page Reference	Bind	Prices (US\$)	Quantity
Computer Vision for Structural Dynamics and Health Monitoring	Feng, Q. Feng	9781119566588	28	Cloth	140.00	
Control of Mechatronic Systems: Model-Driven Design and Implementation Guidelines	Kaltjob	9781119505808	37	Cloth	130.00	
CubeSat Antenna Design	Chahat	9781119692584	25	Cloth	139.95	
Cybersecurity and Decision Makers: Data Security and Digital Trust	De Fréminville	9781786305190	11	Cloth	134.95	
Data Center Handbook: Plan, Design, Build, and Operations of a Smart Data Center, 2nd Edition	Geng	9781119597506	11	Cloth	171.95	
Data Lakes	Laurent	9781786305855	27	Cloth	134.95	
Data Validation	Boulanger	9781848217348	13	Cloth	144.95	
Dependable Computing: Design and Assessment	Iyer, Kalbarczyk, Nakka	9781118709443	16	Cloth	149.95	
Design and Analysis of Experiments, 10th Edition, Asia Edition	Montgomery	9781119590835	36	Paper	195.00	
Digital Sketching: Computer-Aided Conceptual Design	Bacus	9781119640769	2	Paper	54.95	
Digital SLR Photography All-in-One For Dummies, 4th Edition	Correll	9781119711704	20	Paper	44.95	
Distillation: Principles and Practice, 2nd Edition	Stichlmair, Klein, Rehfeldt	9781119414667	3	Cloth	194.95	
Distributed Energy Management of Electrical Power Systems	Xu, Zhang, Liu, Yu	9781119534884	33	Cloth	134.95	
Drone Technology in Architecture, Engineering and Construction: A Strategic Guide to Unmanned Aerial Vehicle Operation and Implementation	Tal, Altschuld	9781119545880	8	Paper	64.95	
Dynamic Spectrum Access Decisions: Local, Distributed, Centralized and Hybrid Designs	Elmasry	9781119573760	25	Cloth	135.00	
Electrical Connectors: Design, Manufacture, Test, and Selection	Pecht, Kyeong	9781119679769	26	Cloth	140.00	
Electrical Systems 1: From Diagnosis to Prognosis	Soualhi, Razik	9781786304650	34	Cloth	134.95	
Electrical Systems 2: From Diagnosis to Prognosis	Soualhi, Razik	9781786306081	34	Cloth	134.95	
Electro-optics for Non-ionizing Radiation Dosimetry and Bioelectromagnetism	Duvillaret, Leveque	9781848215825	31	Cloth	144.95	
Electrodes Formulation: Fabrication and Architectures / Properties / Performance Relationships	Lestriez, Morcrette	9781848217294	34	Cloth	89.95	
Electromagnetic Imaging using Synthetic Aperture Radar	Ferro-Famil	9781848216181	30	Cloth	104.95	
Emerging Trends and Roles of Fog, Edge and Pervasive Computing in Intelligent IoT Driven Applications	Gupta, Khamparia	9781119670070	16	Cloth	119.95	
Enabling the Internet of Things: Fundamentals, Design and Applications	Iqbal, Hussain, Xing, Imran	9781119701255	27	Cloth	125.00	
Engineering Acoustics: Noise and Vibration Control	Crocker, Arenas	9781118496428	38	Cloth	140.00	
Engineering and Technology for Healthcare	Imran, Ghannam, Abbasi	9781119644248	3	Cloth	120.00	
Engineering Research: Design, Methods, and Publication	Tang	9781119624486	29	Cloth	134.95	
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Error Correction Coding: Mathematical Methods and Algorithms, 2nd Edition	Moon	9781119567479	13	Cloth	155.95	
Explosion Vented Equipment System Protection Guide	Comer	9781119640035	5	Cloth	134.95	
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Flutter For Dummies	Burd	9781119612582	17	Paper	29.95	

Title	Author	ISBN	Page Reference	Bind	Prices (US\$)	Quantity
Fundamentals of Construction Claims: A 10-Step Guide for General Contractors, Subcontractors, Architects and Engineers	McConnell	9781119679905	6	Cloth	119.95	
G Suite For Dummies	McFedries	9781119742173	21	Paper	29.95	
Green Building Illustrated, 2nd Edition	Ching, Shapiro	9781119653967	1	Paper	49.95	
Green Energy: Fundamentals, Concepts, and Applications	Tripathi, Subramaniam	9781119760764	36	Cloth	224.95	
Hacking Multifactor Authentication	Grimes	9781119650799	13	Paper	39.95	
Handbook of Large Hydro Generators: Operation and Maintenance	Bomben, Mottershead, Klempner, Kerszenbaum	9780470947579	35	Cloth	164.95	
Handbook of Plastics Testing and Failure Analysis, 4th Edition	Shah	9781118717110	40	Cloth	144.95	
Hands on Hacking	Hickey, Arcuri	9781119561453	13	Paper	39.95	
Hands-On NoSQL: A Practical Guide to Design and Implementation with Technical Case Studies	Qajar, Sullivan	9781119657392	17	Paper	39.95	
Heating, Cooling, Lighting: Sustainable Design Strategies Towards Net Zero Architecture, 5th Edition	Lechner, Andrasik	9781119585749	1	Cloth	140.95	
Hydraulic Fluid Power: Fundamentals, Applications, and Circuit Design	Vacca, Franzoni	9781119569114	33	Cloth	140.00	
ICT Policy, Research, and Innovation: Perspectives and Prospects for EU-US Collaboration	Klessova, Engell, Botterman, Cave	9781119632528	26	Cloth	134.95	
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Ingenieurbaukunst: Engineering Made in Germany	Bundesingenieurkammer	9783433033265	8	Paper	65.00	
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