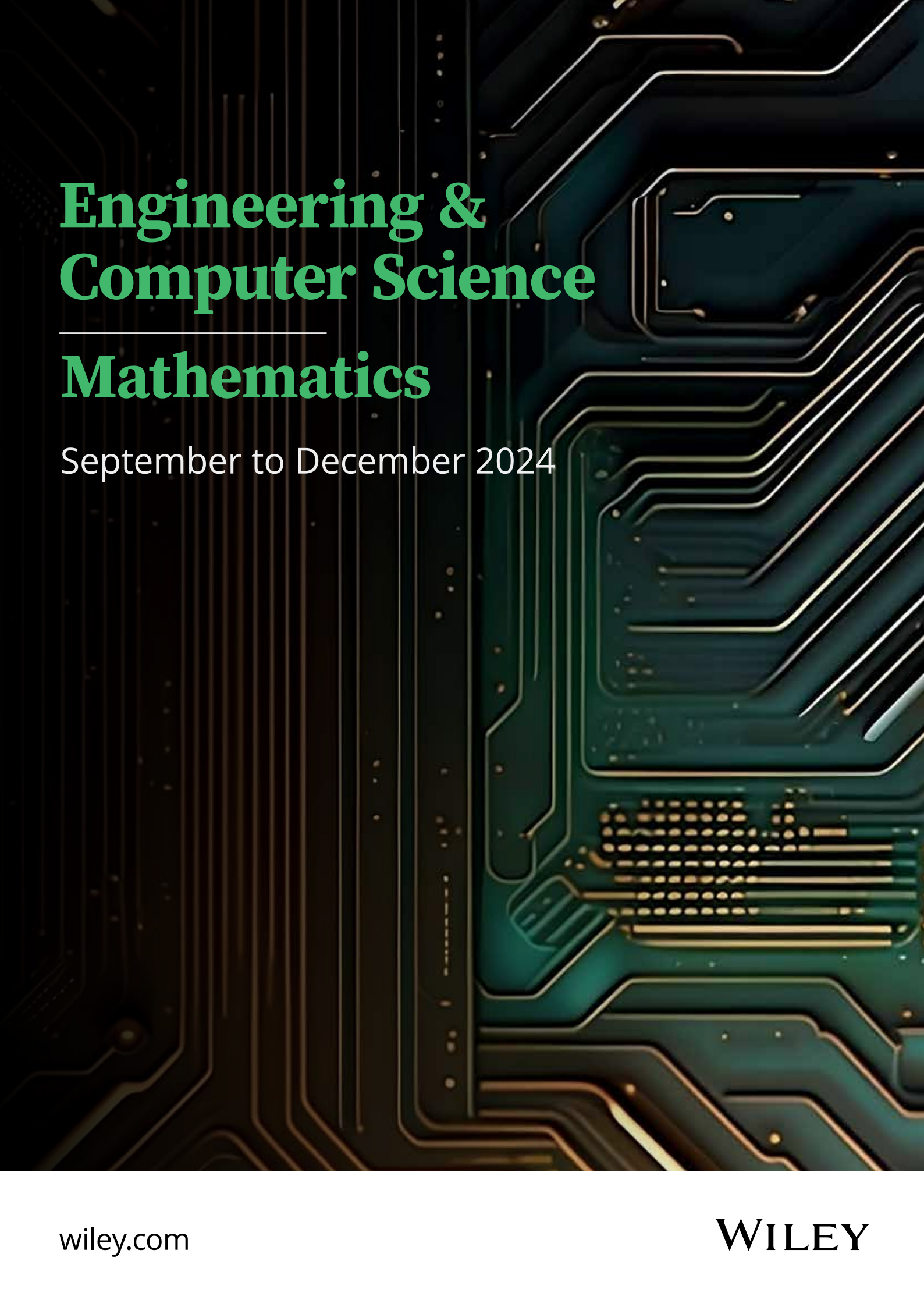




Engineering & Computer Science

Mathematics

September to December 2024

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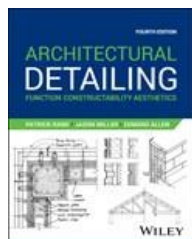
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Architectural Detailing: Function Constructability Aesthetics (4th Edition)

Patrick Rand, Jason Miller, Edward Allen

The industry-standard guide to designing well-performing buildings

Aesthetics are a vital part of good design. Great design emerges from a deep understanding of the functionality and constructability of details. Good details provide clear, complete, and correct information to the wide variety of users that need them. Architects guide a project from design idea to buildable reality by working with other building industry professionals and creating a set of details that show how things are put together.

Architectural Detailing systematically describes the

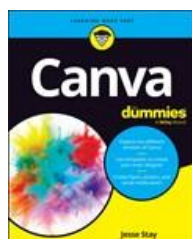
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Architecture / Design,
Drafting, Drawing &
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The Allegorical Architectural Machine

Daniel K. Brown, Michael Chapman

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Canva For Dummies

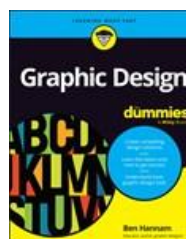
Jesse Stay

The essential guide to the popular, beginner-friendly graphic design platform

Canva For Dummies is a beautiful full-color reference, covering everything you need to create dazzling visual materials in Canva Free and Pro versions. Discover all tools, templates, and features at the ready, plus utilize expert tips and tricks to improve your design and visual communication skills.

Start with basic functionalities and graphic design principles, and then work your way up to more complex design tasks with ease. *Canva For Dummies* also covers Canva's new AI tool, Magic Studio, so you'll be up to speed

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Computers / Design,
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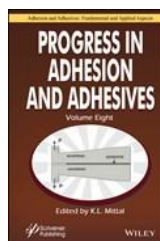
Graphic Design For Dummies

Ben Hannam

The complete, full-color graphic design guide for beginners

The field of graphic design is constantly evolving, with new design tools, methods, technology, and modes of expression being introduced all the time. *Graphic Design For Dummies* will teach you how to get started, introducing you to basic design principles as well as the latest best practices, software, and trends. You'll learn how to successfully plan and execute compelling design projects, even if you're not a trained designer. This fun and friendly book will empower you with the information you need to create design solutions. You'll...

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Design / Graphic Arts /
Illustration



Progress in Adhesion and Adhesives, Volume 8

K. L. Mittal

Keep up-to-date with the latest on adhesion and adhesives from an expert group of worldwide authors.

The book series "Progress in Adhesion and Adhesives" was conceived as an annual publication and the premier volume made its debut in 2015. The series has been well-received as it is unique and provides substantive and curated review chapters on subjects that touch many disciplines.

The current book contains nine chapters on topics that include multi-component theories in surface

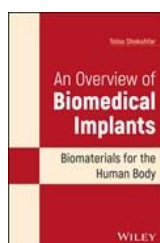
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Films, Surfaces &
Interfaces

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3D Printing in the Healthcare Industry: Novel Applications

Rishabha Malviya, Rishav Sharma

9781394234202
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310 pages • Hardcover
Computers / Artificial
Intelligence



An Overview of Biomedical Implants: Biomaterials for the Human Body

Tolou Shokuhfar

This book describes cases of innovations in biomaterials used for in major biomedical implants for human body contributing to advancement of tissue regeneration and/or regenerative medicine for the enhancement of human life. These biomaterials are either in the laboratory stage ready for marketing or at the industrial stage where they are commercially implemented, or in the development stage. The cases cover all scales from nanoscale to molecules, processes, industrial sites, regions, the world and most industries. For each case the contribution of that specific biomaterial to development of t...

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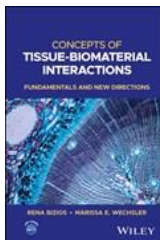
Deep Learning Applications in Medical Image Segmentation: Overview, Approaches, and Challenges

Sajid Yousuf Bhat, Aasia Rehman, Muhammad Abulaish

Apply revolutionary deep learning technology to the fast-growing field of medical image segmentation

Precise medical image segmentation is rapidly becoming one of the most important tools in medical research, diagnosis, and treatment. The potential for deep learning, a technology which is already revolutionizing practice across hundreds of subfields to impact medical image segmentation, is immense. The prospect of using deep learning to address the traditional shortcomings of image

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Concepts of Tissue-Biomaterial Interactions: Fundamentals and New Directions

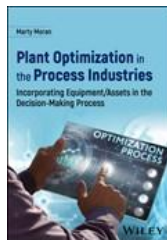
Rena Bizios, Marissa E. Wechsler

Biology and engineering meet in this groundbreaking and growing discipline

Biomedical engineering is an established interdisciplinary research and training area, combining various aspects of physiology, biology, materials science and engineering. Biomedical engineering programs and courses are integral parts of pertinent curricula, generating an urgent need for textbooks which can introduce this fundamental subject to new generations of students, researchers and practicing professionals.

The textbook *Concepts of Tissue-Biomaterial Interactions*

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Science / Biotechnology



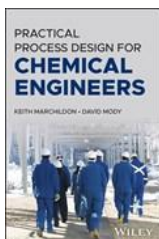
Plant Optimization in the Process Industries: Incorporating Equipment/Assets in the Decision-Making Process

Marty Moran

Optimize asset decisions and improve the financial and technical operation of process plants

The process industries, particularly the refining and petrochemical industries, are comprised of capital-intensive business whose assets are valued in the trillions. Optimizing the function of refining and petrochemical plants is therefore not simply a process decision, but a business one, with even small improvements in efficiency potentially providing enormous margins. There is an urgent need for businesses to assess how the asset side of

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Practical Process Design for Chemical Engineers

Keith Marchildon, David Mody

In-depth and practical textbook resource on chemical engineering processes, ranging from fundamentals to advanced aspects

Process and Facility Design for Chemical Engineers presents an extensive overview of the fundamental and advanced aspects of chemical engineering processes. Spanning 20 chapters, the book delves into various processes, equipment, and methodologies essential for modern chemical engineering, from basic principles to specific applications such as reactors, separations, and process integration.

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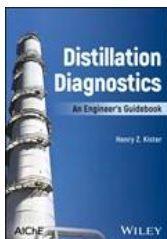
Process Gas Chromatographs: Application, Optimization and Troubleshooting

Tony Waters

Understand a key tool for optimizing the gas stage of industrial processes

Process gas chromatography is a method used to separate and analyze chemical compounds in the gas phase of an industrial process. First established in the middle of the twentieth century, it aims to return analytical results rapidly enough that they can be incorporated rapidly into optimized processes. It is a complex process which demands meticulous training on the part of process gas chromatograph engineers and operators.

Process Gas Chromatographs: Application, Optimization



Distillation Diagnostics: An Engineer's Guidebook

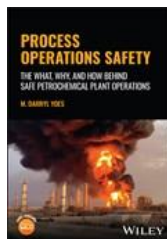
Henry Z. Kister

Thorough guide on how to use various diagnostic techniques to troubleshoot problems in distillation columns

Distillation Diagnostics familiarizes the reader with the multitude of tools available for diagnosing distillation and absorption tower problems and provides the reader with application guidelines derived from 40+ years of real-world experiences of the author.

The book describes the capabilities and limitations of each tool, explains the strength and weakness of each diagnostic technique, provides guidance on how different

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/ Chemical & Biochemical



Process Operations Safety: The What, Why, and How Behind Safe Petrochemical Plant Operations

Darryl M. Yoes

Provides crucial lessons in process safety operations, drawing from 100 global case studies

Written from an operator's perspective, *Process Operations Safety* provides valuable information and education on the fundamentals of process operations safety by providing background on process safety and key leading operational management and equipment failures that have led to catastrophic process safety incidents, including loss of life. Written by an expert with more than five decades of industry experience, this book enables readers to learn

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Advanced Distillation Technologies: Design, Control and Applications

Anton A. Kiss

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Constructing Change: The Impact of Digital Fabrication on Sustainability

Ena Lloret-Fritsch, Selen Ercan Jenny, David Jenny

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Architecture

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Construction Planning, Programming and Control (4th Edition)

Brian Cooke, Peter Williams

An essential introduction to the management of building projects

Construction management is a complex discipline with many facets. The essence of construction management is the delivery of construction projects to meet the client's goals whilst recognising the commercial interests of the many designers, consultants and contractors involved. Balancing the expected quality outcomes, the highest safety standards and time and budget pressures is not an easy task. Therefore, students and practitioners looking to understand these core principles of construction

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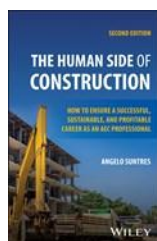
Architectural Design and Management in the Digital Age: International Perspectives

Bob Giddings, Silvio Melhado, Jennifer Barrett

Critical appraisal of architectural design and management in the digital age through international perspectives

Architectural Design and Management in the Digital Age delivers an evaluation of digitalisation in the evolving processes of architecture, providing a holistic treatment of the subject in terms of technologies, human context, emerging concepts, and the management of digital projects.

This book includes analysis of:



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Business & Economics /
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The Human Side of Construction: How to Ensure a Successful, Sustainable, and Profitable Career as an AEC Professional (2nd Edition)

Angelo G. Surtres

An incisive guide to navigating the construction industry and dealing with the people who work in it

In the newly revised second edition of *The Human Side of Construction: How to Ensure a Successful, Sustainable and Profitable Career as an AEC Professional*, renowned construction professional Angelo Surtres delivers an insightful discussion of the root cause of many of the issues plaguing the construction industry today—the lack of human connection. Surtres explains that, in an industry undergoing dramatic changes driven by technology,

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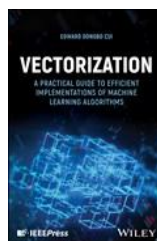
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Construction Graphics: A Practical Guide to Interpreting Working Drawings (3rd Edition)

Keith A. Bisharat

Learn how managers of the construction process use construction graphics to analyze, evaluate, and organize the labor, equipment, and materials required to fulfill the design professionals' instructions regarding a project.

Construction drawings are, in their essence, a set of goals, the graphic and written instructions provided by architects and engineers to construction professionals that adequately manifest the outcomes sought for a project. Construction professionals translate those instructions into discreet processes and sequences of work, to which



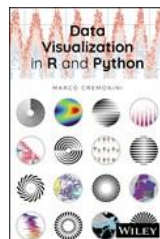
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Vectorization: A Practical Guide to Efficient Implementations of Machine Learning Algorithms

Edward DongBo Cui

Enables readers to develop foundational and advanced vectorization skills for scalable data science and machine learning and address real-world problems

Offering insights across various domains such as computer vision and natural language processing, *Vectorization* covers the fundamental topics of vectorization including array and tensor operations, data wrangling, and batch processing. This book illustrates how the principles discussed lead to successful outcomes in machine learning projects, serving as concrete examples for the theories



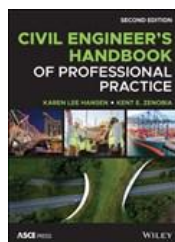
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Data Visualization in R and Python

Marco Cremonini

Communicate the data that is powering our changing world with this essential text

The advent of machine learning and neural networks in recent years, along with other technologies under the broader umbrella of 'artificial intelligence,' has produced an explosion in Data Science research and applications. Data Visualization, which combines the technical knowledge of how to work with data and the visual and communication skills required to present it, is an integral part of this subject. The expansion of Data Science is already leading to greater demand for new approaches to Data Visualization, ...



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Civil Engineer's Handbook of Professional Practice (2nd Edition)

Karen Lee Hansen, Kent E. Zenobia

A single-source guide to the professional practice of civil engineering

Civil Engineer's Handbook of Professional Practice assists students, practicing and professional engineers in addressing the many challenges they face. This guide expands on the practical skills defined by the American Society of Civil Engineers' (ASCE's) Civil Engineering Body of Knowledge (CEBOK) and provides illuminating techniques, quotes, example problems/solutions, case studies, and valuable information that engineers encounter in the real world. Including critical information on project



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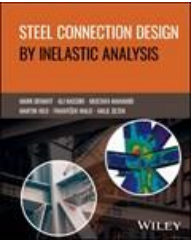
Management Essentials for Civil Engineers: A Practical Guide to Business, Communication, Ethics, and Risk

Cody A Pennetti, C. Kat Grimsley, Brian Grindall

The Civil Engineer's Guide to Effective Project Management

A project's success requires more than technical calculations and engineered designs. As this book details, effective management in civil engineering involves aligning operations with the broader context of stakeholder objectives.

Management Essentials for Civil Engineers is a comprehensive resource designed to help civil engineers enhance their project management and business



Steel Connection Design by Inelastic Analysis

IDEA StatiCa, Mustafa Mahamid, Mark Denavit, Ali Nassiri, Halil Sezen, Martin Vild

Comprehensive resource on the finite element method in structural steel connection design through verification with AISC 360 provisions

Steel Connection Design by Inelastic Analysis covers the use of the finite element method in structural steel connection design. Verification with AISC 360 provisions is presented, focusing on the Component-Based Finite Element Method (CBFEM), a novel approach that provides the global behavior and verification of resistance for the design of structural steel connections. This method is

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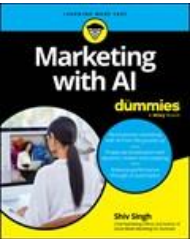
Hydraulics and Pneumatics in Environmental Engineering

S. David Graber

Bring the tools of hydraulics and pneumatics to bear on key environmental challenges

Hydraulics and pneumatics are essential tools in environmental engineering. Any area of engineering which deals with harnessing, managing, and controlling fluid and flow will find hydraulics and pneumatics indispensable, and environmental engineering is no exception. These two subjects, however, are rarely integrated in standard teaching and research resources, and there exists an urgent need for a work which brings them together.

Hydraulics and Pneumatics in Environmental Engineering



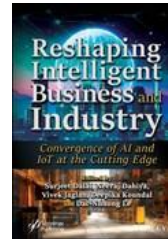
Marketing with AI For Dummies

Shiv Singh

Stay ahead in the marketing game by harnessing the power of artificial intelligence

Marketing with AI For Dummies is your introduction to the revolution that's occurring in the marketing industry, thanks to artificial intelligence tools that can create text, images, audio, video, websites, and beyond. This book captures the insight of leading marketing executive Shiv Singh on how AI will change marketing, helping new and experienced marketers tackle AI marketing plans, content, creative assets, and localized campaigns. You'll also learn to manage SEO and customer personalization with powerful...

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

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

This book covers a wide range of topics, including artificial intelligence concepts in IoT devices used in various domains. Additionally, it discusses the numerous challenges in implementing such systems, including algorithmic and design innovations to meet quality of service requirements. The contributors to this book provide knowledge of how IoT devices can redefine the way businesses, industries, and economies function. However, this immense amount of data from countless IoT

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Generative AI For Dummies

Pam Baker

Generate a personal assistant with generative AI

Generative AI tools capable of creating text, images, and even ideas seemingly out of thin air have exploded in popularity and sophistication. This valuable technology can assist in authoring short and long-form content, producing audio and video, serving as a research assistant, and tons of other professional and personal tasks. *Generative AI For Dummies* is your roadmap to using the world of artificial intelligence to enhance your personal and professional lives. You'll learn how to identify the best platforms for your needs and write the prompt...

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AI-Enabled Blockchain and Digital Twin Technologies for Smart Hospitals

Amit Kumar Tyagi

Artificial Intelligence-Enabled Blockchain Technology and Digital Twin for Smart Hospitals provides fundamental information on blockchain and digital twin as effective solutions in smart hospitals. Digital Twin technology enables the creation of real-time virtual replicas of hospital assets and patients, enhancing predictive maintenance, operational efficiency, and patient care. Blockchain technology provides a secure and transparent platform for managing and sharing sensitive data, such as medical records and pharmaceutical supply chains. By combining these technologies, smart hospitals can e...



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Artificial Intelligence-Enabled Digital Twin for Smart Manufacturing

Amit Kumar Tyagi, Shrikant Tiwari, Senthil Kumar Arumugam, Avinash Kumar Sharma

The book explores the convergence of AI and Digital Twin technologies to empower Smart Manufacturing initiatives. Through a comprehensive examination of principles, methodologies, and practical applications, the book explains the transformative potential of AI-enabled Digital Twins across various facets of the manufacturing lifecycle. From design and prototyping to production and maintenance, AI-enabled Digital Twins offer multifaceted advantages that redefine traditional paradigms. By leveraging AI algorithms for data analysis, predictive

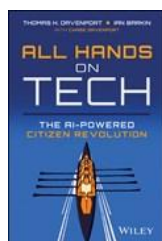


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Computers / Artificial
Intelligence

Digital Twin and Blockchain for Smart Cities

Amit Kumar Tyagi

Digital Twin and Blockchain for Smart Cities discusses the convergence of two transformative technologies: digital twins and blockchains. These technologies enhance developments to make cities more smart and sustainable. The book provides fundamental information on blockchain and digital twins and their uses in smart cities. The book will include key aspects of real-time city modeling, data security, and trust for storing sensitive urban data. By merging these technologies, cities can overcome existing challenges, encourage innovation, and create more livable connections and responsive urban s...



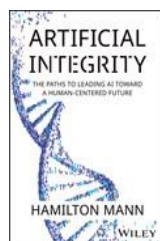
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Business & Economics /
Office Automation

All Hands on Tech: The AI-Powered Citizen Revolution

Thomas H. Davenport, Ian Barkin, Chase Davenport

Supercharge your organization's capacity for innovation

The greatest untapped asset in an enterprise today is the ingenuity of its people. Dive into a future of work where technology empowers everyone to be a creator and builder with *All Hands on Tech: The Citizen Revolution in Business Technology*. This pivotal book offers a comprehensive look into the role of citizen developers —business domain experts who are driving IT-enabled innovation using technology previously reserved for professional technologists. Through case studies of citizens



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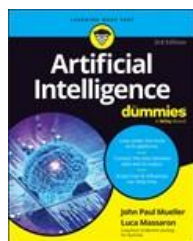
Artificial Integrity: The Paths to Leading AI Toward a Human-Centered Future

Hamilton Mann

Navigating the transitions to the future of AI—Integrity over Intelligence

Envision a world where artificial intelligence can deliver integrity-led outcomes seamlessly, adapting to diverse cultural context, value models, and situational nuances, countering subconscious biases, all while operating in an advanced human-centered manner. This is the promise of *Artificial Integrity*.

In *Artificial Integrity*, digital strategist, technologist, doctoral researcher, acclaimed management thinker, and seasoned business executive Hamilton Mann emphasizes that the



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368 pages • Paperback
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Intelligence / Expert
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Artificial Intelligence For Dummies (3rd Edition)

John Paul Mueller, Luca Massaron

Dive into the intelligence that powers artificial intelligence

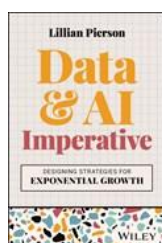
Artificial intelligence is swiftly moving from a sci-fi future to a modern reality. This edition of *Artificial Intelligence For Dummies* keeps pace with the lightning-fast expansion of AI tools that are overhauling every corner of reality. This book demystifies how artificial intelligence systems operate, giving you a look at the inner workings of AI and explaining the important role of data in creating intelligence. You'll get a primer on using AI in everyday life, and you'll also get a glimpse into possible AI-driven

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Prognostics and Health Management Handbook for Physical Assets

Jing Lin, Diego Galar, Haidong Shao, Liangwei Zhang



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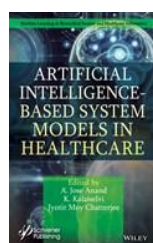
The Data & AI Imperative: Designing Strategies for Exponential Growth

Lillian Pierson

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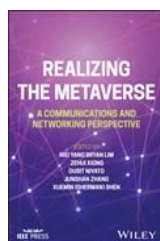


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Artificial Intelligence-Based System Models in Healthcare

A. Jose Anand, K. Kalaiselvi, Jyotir Moy Chatterjee

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Wei Yang Bryan Lim, Dusit Niyato, Junshan Zhang, Zehui Xiong, Xuemin Shen

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The Metaverse, a version of the internet in which online interactions take place in real time within fully realized virtual spaces, has been promised as the next frontier in wireless communication. It has drawn huge investment from Silicon Valley and widespread media attention. However, the technologies required to make the Metaverse a reality are still in their infancy, and significant barriers must be overcome if this massive step is to be



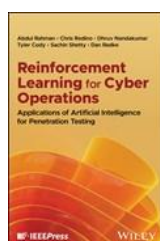
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Alex Khang, Namrata Dhanda, Rajat Verma

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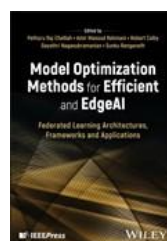
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Sandar Van Laan, Jared Matfess, Thomas Flock, Ann Reid

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Model Optimization Methods for Efficient and Edge AI: Federated Learning Architectures, Frameworks and Applications

Pethuru Raj Chelliah, Amir Masoud Rahmani, Robert Colby, Gayathri Nagasubramanian, Sunku Ranganath

Comprehensive overview of the fledgling domain of federated learning (FL), explaining emerging FL methods, architectural approaches, enabling frameworks, and applications

Model Optimization Methods for Efficient and Edge AI explores AI model engineering, evaluation, refinement, optimization, and deployment across multiple cloud environments (public, private, edge, and hybrid). It presents key applications of the AI paradigm, including



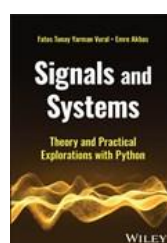
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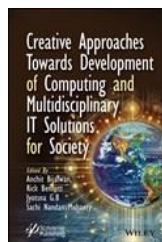
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Fatos Tunay Yarman Vural, Emre Akbas

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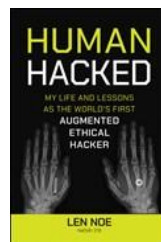
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Creative Approaches Towards Development of Computing and Multidisciplinary IT Solutions for Society

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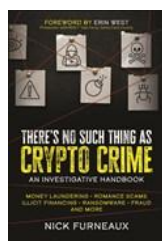
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Len Noe

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Hui Liu, Han Wang

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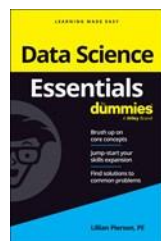
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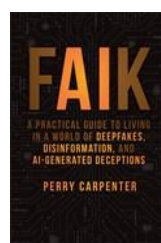
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Perry Carpenter

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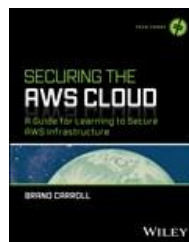
Open-Source Security Operations Center (SOC): A Complete Guide to Establishing, Managing, and Maintaining a Modern SOC

Alfred Basta, Nadine Basta, Waqar Anwar, Mohammad Ilyas Essar

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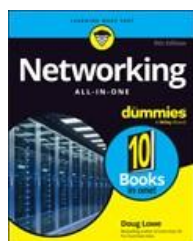
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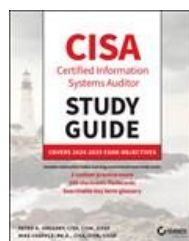
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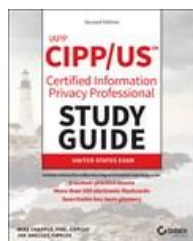
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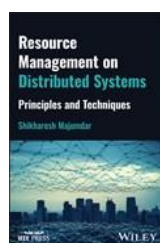
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Shikharesh Majumdar

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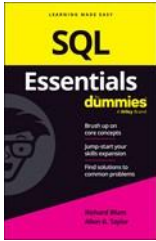
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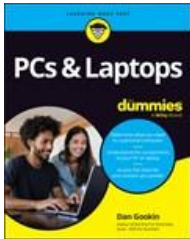
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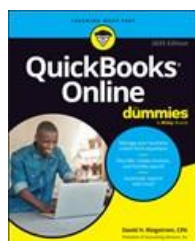
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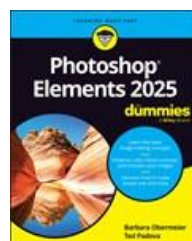
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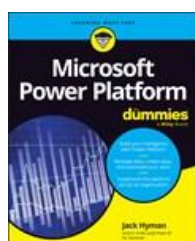
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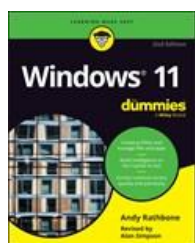
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Marc Saltzman

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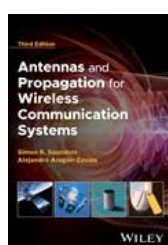
Micro Electromechanical Systems (MEMS): Practical Lab Manual

Sanket Goel, Sanjeet Kumar, Manish Bhaiyya, Khairunnisa Amreen, Pavar Sai Kumar, Abhishek Kumar

Practical lab manual on the stepwise description of the experimental procedures of micro electromechanical systems (MEMS) devices

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Antennas and Propagation for Wireless Communication Systems (3rd Edition)

Simon R. Saunders, Alejandro A. Aragón-Zavala

Comprehensive resource describing both fundamentals and practical industry applications of antennas and radio propagation employed in modern wireless communication systems

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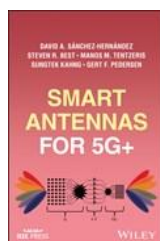
MIMO Antenna Systems for 5G and Beyond

Xiaoming Chen, Jack Soh, Mohammad S. Sharawi

Discover current design practices and performance metrics in this comprehensive guide to the latest methods of developing MIMO antenna systems

Multiple-input multiple-output (MIMO) antenna systems use multiple sets of antennas to increase the capacity of a radio link, or to send and receive multiple simultaneous data signals over the same radio channel. It's become an increasingly integral part of wireless and mobile data networks, from the earliest generations of wireless internet to cutting-edge 5G systems. The coming 6G networks will also rely on 6G antenna systems, making it all the more C...

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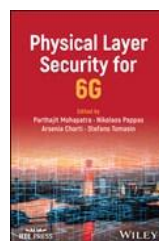
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Smart Antennas for 5G+

David A. Sánchez-Hernández, Steven R. Best, Manos M. Tentzeris, Sungtek Kahng, Gert Frolund Pedersen

Comprehensive reference text for the development of advanced antenna systems for 5G and beyond

Smart Antennas for 5G+ addresses the transformation that simple, conventional antennas have gone through to fulfill the complex and challenging performance expectations of 5G wireless communications and beyond. It also describes the 5G physical layer including the gNodeB, basics of the propagation channel, and user equipment (UE) specific antenna aspects. The authors present various broadband antennas covering mmW bands for 5G+ and B5G applications, explore recent



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Physical Layer Security for 6G

Parthajit Mohapatra, Nikolaos Pappas, Arsenia Chorti, Stefano Tomasin

Meet the wireless security challenges of the future with this key volume

The 6th generation of wireless communication technology—known as 6G—promises to bring both revolutionary advances and unique challenges. Secure communications will be harder than ever to achieve under the new integrated ground, air, and space networking paradigm; increased connectivity creates the potential for increased vulnerability. Physical layer security, which draws upon the physical properties of the channel or network to secure information, has emerged as a promising solution to these



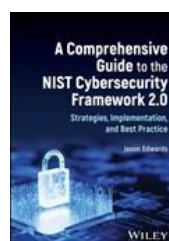
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Rui Han, Jingjing Wang, Lin Bai, Jianwei Liu

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A Comprehensive Guide to the NIST Cybersecurity Framework 2.0: Strategies, Implementation, and Best Practice

Jason Edwards

Learn to enhance your organization's cybersecurity through the NIST Cybersecurity Framework in this invaluable and accessible guide

The National Institute of Standards and Technology (NIST) Cybersecurity Framework, produced in response to a 2014 US Presidential directive, has proven essential in standardizing approaches to cybersecurity risk and producing an efficient, adaptable toolkit for meeting cyber threats. As these threats have multiplied and escalated in recent years, this framework has evolved to meet new



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Hybrid Communication Systems for Future 6G and Beyond: Visible Light Communication and Radio over Fiber Technology

Rao Kashif

Comprehensive guide to hybrid communication systems using visible light communication, radio over fiber, and auto channel switching technologies

Hybrid Communication Systems for Future 6G and Beyond explores the future of wireless communication and discusses how we can create more efficient and reliable ways to communicate by unlocking the potential of three specific technologies: visible light communication (VLC), radio over fiber (RoF) technology, and auto channel switching.



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Dwight Spivey

The perfect guide for seniors who want to stay connected

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Guy Hart-Davis

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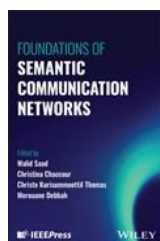
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Communication Systems Engineering with GNU Radio: A Hands-on Approach

Jean-Michel Friedt, Herve Boeglen

An approachable guide to an invaluable radiofrequency communication toolkit

Software-defined radio (SDR), which emerged in the 1990s, has become a core development method in certain high-profile fields, including military and space communications. High cost and problems with hardware availability, however, prevented this technology from being widely disseminated. The advent of low-cost hardware beginning in the 2010s, however, has made GNU Radio—the leading open-source software toolkit for developing SDR systems—an increasingly viable and even



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Foundations of Semantic Communication Networks

Walid Saad, Christina Chaccour, Christo Kurisummoottil
Thomas, Merouane Debbah

Comprehensive overview of the principles, theories, and techniques needed to build end-to-end semantic communication systems, with case studies included.

In this rapidly evolving landscape, the integration of connected intelligence applications highlights the pressing need for networks to gain intelligence in a non-siloed and ad hoc manner. The traditional incremental approach to network design is no longer sufficient to support the diverse and dynamic requirements of these emerging



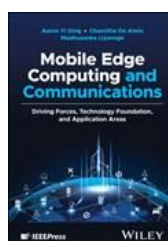
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Edge Computing Acceleration: From 5G to 6G and Beyond

Patrick Hung, Hongwei Kan, Greg Knopf

Discover the latest advances in computer architecture and software at the dawn of the 5G/6G era

In *Edge Computing Acceleration from 5G to 6G and Beyond*, distinguished researchers Dr. Patrick Hung, Hongwei Kan, and Greg Knopf deliver a comprehensive overview of personal computer architecture and software design usage in the upcoming 5G decade. The authors begin by introducing key components and exploring different hardware acceleration architectures. They move on to discuss 5G data security and data integrity and offer



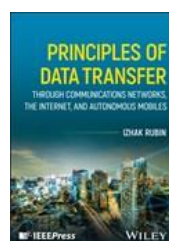
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Mobile Edge Computing and Communications: Driving Forces, Technology Foundation, and Application Areas

Aaron Yi Ding, Chamitha De Alwis, Madhusanka Liyanage

An up-to-dated and comprehensive guide to mobile edge computing and communications

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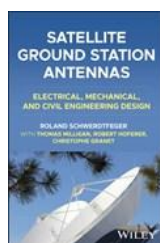
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Principles of Data Transfer Through Communications Networks, the Internet, and Autonomous Mobiles

Izhak Rubin

Understand the principles and practical basis of global telecommunications and data communications networks with this essential text.

Our increasingly connected world is more reliant than ever on data transport and the communication networking technologies of the moment. Ever-expanding wireless communications and the Internet of Things have brought connectivity into more areas of our lives than ever before. Virtually every workplace and industry is now reliant at some level on data transfer.



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Satellite Ground Station Antennas: Electrical, Mechanical, and Civil Engineering Design

Roland Schwerdtfeger, Thomas A. Milligan, Robert Hoferer,
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Understand all aspects of ground station design with this groundbreaking volume

A satellite ground station is a terrestrial station built to communicate or receive signals from spacecraft and other astronomical and interplanetary sources. Since ground stations are subject to weather and other terrestrial conditions, their operations can be unpredictable, and their design offers numerous challenges for engineers.

Satellite Ground Station Antennas constitutes the first-ever comprehensive overview of these challenges and the tools

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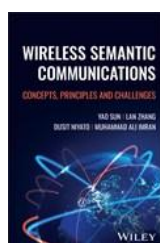
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Wireless Semantic Communications: Concepts, Principles and Challenges

Yao Sun, Muhammad Ali Imran, Dusit Niyato, Lan Zhang

Understand the cutting-edge technology of semantic communications and its growing applications

Semantic communications constitute a revolution in wireless technology, combining semantic theory with wireless communication. In a semantic communication, essential semantic information is encoded at the source, drastically reducing the required data usage, and then decoded at the destination in such a way that all key information is recovered, even if transmission is damaged or incomplete. Enhancing the correspondence between



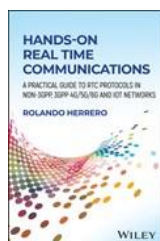
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Massive MIMO for Future Wireless Communication Systems: Technology and Applications

Agbotiname Lucky Imoize, Weibert Montlouis

Authoritative resource discussing the development of advanced massive multiple input multiple output (MIMO) techniques and algorithms for application in 6G

Massive MIMO for Future Wireless Communication Systems analyzes applications and technology trends for massive multiple input multiple output (MIMO) in 6G and beyond, presenting a unified theoretical framework for analyzing the fundamental limits of massive MIMO that considers several practical constraints. In addition, this



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Hands-On Real Time Communications: A Practical Guide to RTC Protocols in Non-3GPP, 3GPP 4G/5G/6G and IoT Networks

Rolando Herrero

Understand and deploy RTC protocols for any kind of communications system

Since the emergence of Voice over IP (VoIP) communications in the late 1990s, a set of real time communication (RTC) protocols has evolved that together now support an immense range of technologies and systems architectures. Whether it's 5G networks (and beyond) or Internet of Things architectures, RTC protocols are indispensable to modern telecommunications. An understanding of these protocols and their design and

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Artificial Intelligence for Future Networks

Mohammad A. Matin, Sotirios K. Goudos, George K. Karagiannidis

An exploration of connected intelligent edge, artificial intelligence, and machine learning for B5G/6G architecture

Artificial Intelligence for Future Networks illuminates how artificial intelligence (AI) and machine learning (ML) influence the general architecture and improve the usability of future networks like B5G and 6G through increased system capacity, low latency, high reliability, greater spectrum efficiency, and support of massive internet of things (mIoT).

The book reviews network design and management



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Srinivasan Balasubramanian

Understand the role of network communications in the private sector with this timely guide

4G and 5G wireless communication technologies have come to dominate network communications in recent years, and their expansion is only continuing. Most existing treatments of this key subject, however, deal with large-scale public networks, not the private networks whose deployment constitutes one of the major current growth areas in wireless technology. There is an urgent need for a guide to network communication deployment specifically for private enterprises.



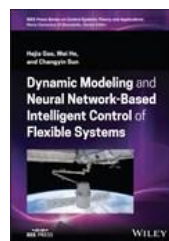
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Sridhar Iyer, Anshuman Kalla, Onel Alcaraz Lopez, Chamitha De Alwis

Forward-thinking reference on spectrum sharing and resource management for 5G, B5G, and 6G wireless networks

Blockchain and AI-Enabled Intelligent Spectrum Sharing and Infrastructure Management explores various aspects of spectrum sharing and resource management in 5G, beyond 5G, and the envisaged 6G networks. The book offers an in-depth exploration of intelligent and secure sharing of spectrum and resource management in existing and future mobile networks.



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Dynamic Modeling and Neural Network-Based Intelligent Control of Flexible Systems

Hejia Gao, Changyin Sun, Wei He

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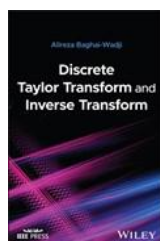
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Rafael Goncalves Licursi de Mello

Understand the metasurface revolution in electronic warfare

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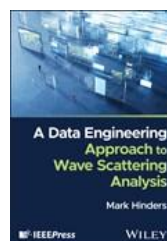
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Alireza Baghai-Wadji

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Transform and inverse transform techniques, such as the Fourier transform and the Laplace transform, enable scientists and engineers to conduct research and design in transformed domains where the work is simpler, after which the results can be converted back into the real domain where they can be applied or actualized. This latter stage in the process, the inverse transform, ordinarily poses significant challenges. New transform/inverse transform techniques carry extraordinary potential to



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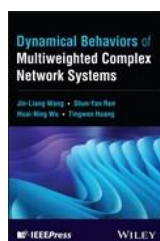
Future-Oriented Technology Assessment: A Manager's Guide with Case Applications

Haydar Yalcin, Tugrul U. Daim

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The first three chapters include studies which utilize technology gap analysis, multiple criteria decision analysis



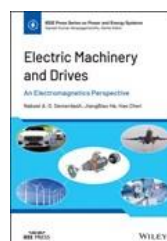
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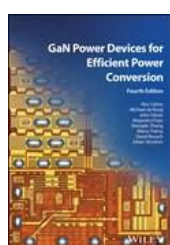
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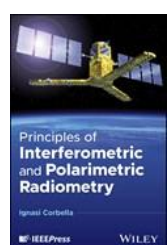
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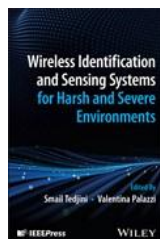
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Principles of Interferometric and Polarimetric Radiometry

Ignasi Corbella

An overview of increasingly indispensable radiometric technologies

Microwave radiometers have become a central part of Earth observation and radioastronomy. Most existing reference works on the subject, however, largely omit two key types of radiometers: interferometric radiometers and polarimetric radiometers. The extensive applications of these two classes of radiometer and their potential for mapping distant celestial bodies and enhancing Earth observation has made it critical for the next generation of radiometric scientists and engineers to be familiar with this



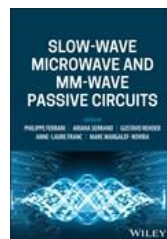
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Wireless Identification and Sensing Systems for Harsh and Severe Environments

Smail Tedjini, Valentina Palazzi

Comprehensive resource reviewing the state of the art in wireless identification and sensing systems, proposing several examples of applications

While complying with RF standard and regulations, *Wireless Identification and Sensing Systems for Harsh and Severe Environments* covers the recent advances in wireless and radio-frequency identification (RFID) systems where severe electromagnetic behavior and harsh conditions are taken into consideration, providing the reader with design rules and methodologies to obtain satisfactory performance and avoid the typical oversights



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Slow-wave Microwave and mm-wave Passive Circuits

Philippe Ferrari, Ariana Serrano, Gustavo Rehder, Anne-Laure Franc, Marc Margalef-Rovira

Comprehensive resource presenting the fundamentals and state of the art concepts, design examples, relevant components, and technology

Slow-wave Microwave and mm-wave Passive Circuits presents the fundamentals and state of the art concepts, design examples, relevant components, and technology of the subject, plus examples of circuit layout optimization using slow-wave circuits. In one volume, the recent advances in aspects of the slow-wave concept are covered. Potential applications include automotive radars,



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Biomedical Sensors: Advanced Materials, Approaches and Enhancement Strategies

Baljinder Kaur, Santosh Kumar, Brajesh Kumar Kaushik

Comprehensive resource covering new technologies, materials, strategies, and recent advancements in the field of biosensing

Biomedical Sensors summarizes cutting-edge technologies in biosensing, including gene editing (known as Clustered Regularly Interspaced Short Palindromic Repeat or CRISPR), quorum sensing utilizing inter and intra cell signals, two-dimensional (2D) materials and aptamer-mediated sensor designs, and more, with additional coverage of the latest materials, strategies, and advancements made in the field.



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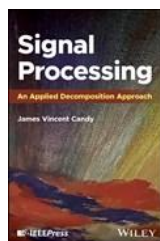
Coding Video: A Practical Guide to HEVC and Beyond

Iain E. Richardson

A fully up-to-date guide to transformative consumer technologies

Video compression – or video coding – has been at the centre of a revolution in the way video is produced, delivered, and consumed. It has made the switch from analogue to digital video possible and has enabled fundamental shifts in the way we now watch video. New video compression standards, together with adaptive streaming protocols, are used to deliver high-quality video to homes and workplaces around the world.

Coding Video provides a practical and comprehensive



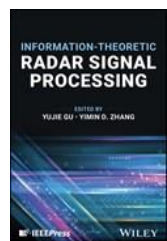
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Signal Processing: An Applied Decomposition Approach

James Vincent Candy

Separate signals from noise with this valuable introduction to signal processing by applied decomposition

The decomposition of complex signals into their sub-signals or individual components is a crucial tool in signal processing. It allows each component of a signal to be analyzed individually and enables the signal to be isolated from noise and processed in full. Decomposition processes have not always been widely adopted due to the difficult underlying mathematics and complex applications. This text simplifies these obstacles.



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Information-Theoretic Radar Signal Processing

Yujie Gu, Yimin Zhang

A comprehensive introduction to the emerging research in information-theoretic radar signal processing

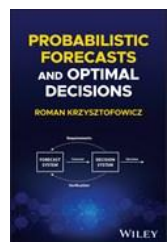
Signal processing plays a pivotal role in radar systems to estimate, visualize, and leverage useful target information from noisy and distorted radar signals, harnessing their spatial characteristics, temporal features, and Doppler signatures. The burgeoning applications of information theory in radar signal processing provide a distinctive perspective for tackling diverse radar signal processing challenges, including optimized waveform design,

Methods and Tools for Computer-aided Design of Multidimensional Filters in Signal Processing

Andrzej Handkiewicz

Understand and apply the tools of computer-aided design to analog signal processing

Signal processing is done mostly with digital circuits, but because the signals generated by our environment are themselves analog, some incorporation of analog circuitry is unavoidable. The design and construction of analog circuits is difficult and time-consuming out of all proportion to the number and prominence of these circuits in signal processing systems. In recent years, groundbreaking computer-aided tools have emerged to facilitate and



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Probabilistic Forecasts and Optimal Decisions

Roman Krzysztofowicz

Account for uncertainties and optimize decision-making with this thorough exposition

Decision theory is a body of thought and research seeking to apply a mathematical-logical framework to assessing probability and optimizing decision-making. It has developed robust tools for addressing all major challenges to decision making. Yet the number of variables and uncertainties affecting each decision outcome, many of them beyond the decider's control, mean that decision-making is far from a "solved problem". The tools created by decision theory remain to be refined and applied to

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Architecting Resilient Systems (2nd Edition)

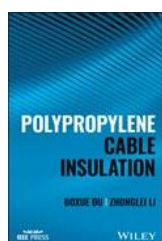
Scott Jackson

A comprehensive text that investigates a systematic approach to handling the design of resilient systems

Resilient systems are an essential bulwark against disaster capable of maintaining energy, water, and supply chains in the face of environmental stresses produced by climate change, natural disaster, or mass infection events. As societies face unprecedented environmental and pathological challenges, from global carbon emissions to pandemics like COVID-19, it has never been more essential to understand and create resilient systems.

Architecting Resilient Systems creates a comprehensive

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Polypropylene Cable Insulation

Boxue Du, Zhonglei Li

An introduction to a cutting-edge, environmentally friendly insulation material

The installation and maintenance of high-voltage cables is an infrastructure problem with potentially major environmental impacts. In recent years, polypropylene has emerged as an environmentally friendly material for insulating high-voltage cables, particularly HVDC power cables and HVAC power cables. *Polypropylene Cable Installation* begins with an introduction to high-voltage cables and the development of polypropylene insulation before describing the dielectric properties and applications of this insulation in b...

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Design of Shipboard Power System Grounding / Earthing

Norbert Doerry, Mohammed M. Islam, John Prousalidis

This book delves into the diverse prerequisites for grounding and earthing in contemporary ship power systems, addressing the evolving landscape of ship design influenced by power electronics

The introduction of transformative technologies such as variable frequency drives and electric propulsion systems has heightened the complexity of shipboard grounding systems. This complexity necessitates accommodation for robust electronic systems, extending the focus beyond traditional grounding aspects to include common mode grounding and its profound design implications. Engineers

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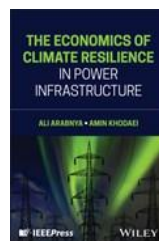
Smart Cyber-Physical Power Systems: Challenges and Solutions

Ali Parizad, Hamid Reza Baghaee, Saifur Rahman

Authoritative and highly comprehensive guide on how emerging technologies can address various challenges in different sectors of smart cyber-physical power systems

Smart Cyber-Physical Power Systems explores the transformative role of emerging technologies in addressing the multifaceted challenges within smart cyber-physical power systems. Employing cutting-edge techniques through artificial intelligence (AI), machine learning (ML), big data, blockchain, information theory, quantum computing, IoT, and beyond, this book offers insights into

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Ali Arabnya, Amin Khodaei

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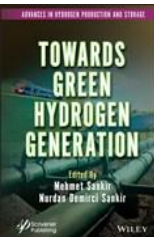
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Towards Green Hydrogen Generation

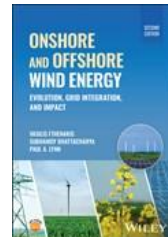
Mehmet Sankir, Nurdan Demirci Sankir

Readers will find a multidisciplinary approach elucidating all the important features of green hydrogen so that science researchers and energy engineers as well as those in economics, political science and international relations, will also find value.

Energy sources and generation is the foremost concern of all governments, NGOs, and activist groups. With Green New Deals and reduced or net zero emission goals being implemented on a global scale, the quest for economic, scalable, efficient, and sustainable energy systems has reached a fever pitch. No one energy source ticks all the



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Smart Grids as Cyber Physical Systems

O. V. Gnana Swathika, K. Karthikeyan, Sanjeevikumar Padmanaban

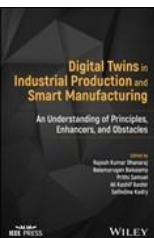
What makes a regular electric grid a "smart" grid? It basically comes down to digital technologies that enable two-way communication between a utility and its customers, as opposed to the traditional electric grid, where power flows in one direction. Based on statistics and available research, smart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

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Al Zeitoun

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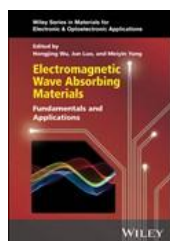


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Novel Anti-Corrosion and Anti-Fouling Coatings and Thin Films

Hari Murthy, Vinay Jha Pillai, Kukatlappalli Pradeep Kumar, Matthew Cowan

Nanomaterials and nanocomposite materials have been developed as corrosion inhibitors and are the most noble and effective alternatives to traditional organic corrosion inhibitors. Nanomaterials provide reasonably high anticorrosive activity in both aqueous and solution phases. A unified approach to this task is lacking, however, which highlights the role of all disciplines involved in the creation and use of corrosion protection coatings for metals. Fouling is the process of accumulating unwanted material that is mostly non-living and comprised of detritus and organic or



Electromagnetic Wave Absorbing Materials: Fundamentals and Applications

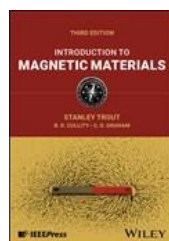
Hongjing Wu, Jun Luo, Meiyin Yang

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Electromagnetic Wave Absorbing Materials presents information on the most promising electromagnetic wave absorbing materials, with timely coverage of both conventional and novel materials including 1D, 2D, and 3D materials. This book enables readers to address the growing specification needs in the field through optimizing electromagnetic parameters and promoting interface polarization, two key properties for wireless technology in electronic applications.

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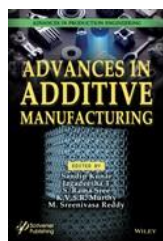


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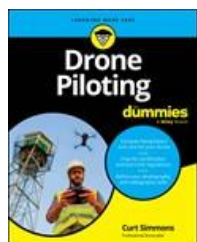
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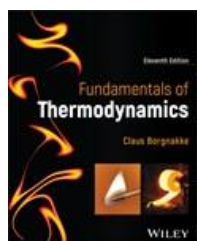
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Kiran Bhaganagar

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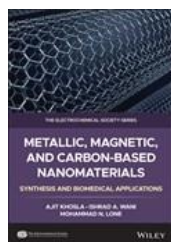
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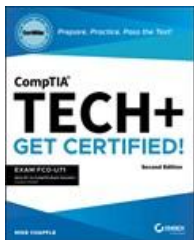
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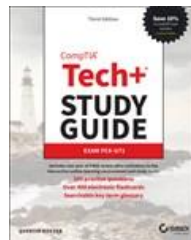
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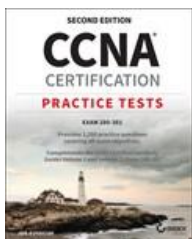


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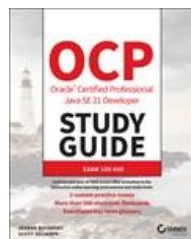
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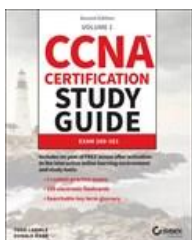
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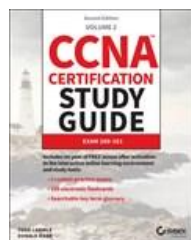
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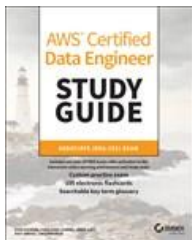
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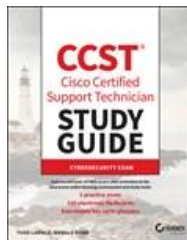
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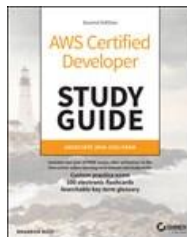
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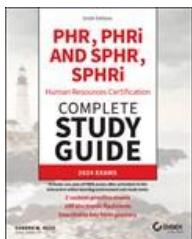
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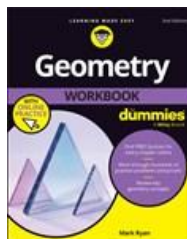
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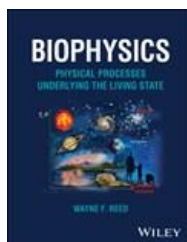
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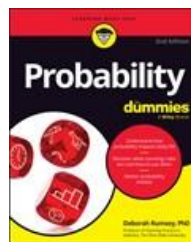
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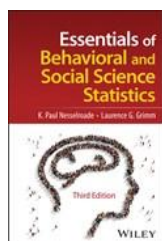
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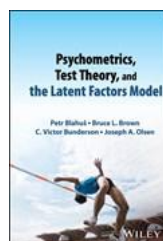
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