

Engineering & Computer Science

September to December 2023



Table of Contents

Architecture & Planning

Architecture Special Topics	1
Design, Drawing & Presentation	1
General & Introductory Architecture	1
Interior Design	1
Planning	1

Chemical Engineering

Chemical Engineering	1
----------------------	---

Civil Engineering & Construction

Civil Engineering & Construction Special Topics	2
Construction	2
Constructional Physics	3
General & Introductory Civil Engineering & Construction	3
Soil (Civil Engineering)	4
Transportation Engineering	4

Computer Science

Artificial Intelligence	4
Computer Security & Cryptography	6
Database & Data Warehousing Technologies	7
Information Technologies	7
Networking	7
Parallel and Distributed Computing	8
Programming & Software Development	8
Software Engineering	8

Computing

Computer Hardware (general)	8
Digital Cameras & Photography	8
Office Productivity- Non-Microsoft (General & Suites)	9

Electrical & Electronic Engineering

Circuit Theory & Design	9
Communication Technology	9
Components & Devices	11
Computer Engineering	11
Control Systems Technology	12
Electromagnetic Theory	12
General & Introductory Electrical & Electronics Engineering	13
Imaging Systems & Technology	13
Intelligent Systems & Agents	13
Power Electronics	14
RF / Microwave Theory & Techniques	14
Sensors, Instrumentation & Measurement	14
Signal Processing	14

General Energy

Electric Power Electronics	15
Power Technology & Power Engineering	15
Renewable Energy	16
Smart Grid	16

Industrial Engineering

Industrial Engineering / Manufacturing	16
--	----

Table of Contents

Material Science

Composites	16
Electronic Materials	16
General & Introductory Materials Science	17
Materials Characterization	17
Metals & Alloys	18
Optical Materials	18
Sensor Materials	18
Thin Films, Surfaces & Interfaces	18

Mechanical Engineering

Aeronautic & Aerospace Engineering	18
Computational / Numerical Methods	19
Fluid Mechanics	19
General & Introductory Mechanical Engineering	19
Mech Engineering Special Topics	19
Mechanical Engineering - Design	19
Thermodynamics	20

Test Prep

Certification (MSCE, Novell, etc.)	20
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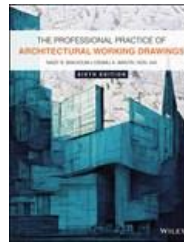
Diffusions in Architecture: Artificial Intelligence and Image Generators

Matias del Campo

In-depth guide to diffusion models and their impact on design, with insight on how this novel artificial intelligence technology may disrupt the industry

Diffusions in Architecture: Artificial Intelligence and Image Generators delves into the impact of Diffusion AI algorithms and generative image models on architecture design and aesthetics. The book presents an in-depth analysis of how these new technologies are revolutionizing the field of architecture. The architects presented in the book focus on the application of specific AI techniques and

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320 pages • Paperback
Architecture / Reference



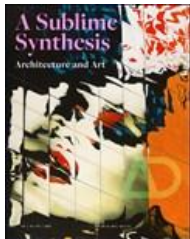
The Professional Practice of Architectural Working Drawings (6th Edition)

Nagy R. Bakhour, Osamu (Art) A Wakita

THE PROFESSIONAL PRACTICE OF ARCHITECTURAL WORKING DRAWINGS
Unique resource combining guidance on professional practice with creating working drawings that clearly communicate a design between builder and client

Revised and updated with new content reflecting the urgent challenges of sustainability and working life, *The Professional Practice of Architectural Working Drawings* is a complete guide to the skills needed to create a set of drawings that clearly and effectively communicate a

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640 pages • Paperback
Architecture / Design,
Drafting, Drawing &
Presentation



Art and Architecture: A Sublime Synthesis

Neil Spiller

The link between architecture and art and the sublimity it can create has a history that stretches back millennia. From cave paintings to the stained glass and saintly icons in churches and cathedrals, to the geometric and calligraphic treatments of mosques and contemporary artists channelling architecture and vice versa, and so much else. This *AD* is about the contemporary interactions between living artists and architects, and the artistic practices, such as poetry and abstractions, that architects adopt to develop ideas for their projects. The issue features artists, architects, curators, mu...

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Pub Date: 8/28/23
\$45.00 USD
136 pages • Paperback
Architecture



Multispace: Architecture at the Dawn of the Metaverse

Owen Hopkins

Guest-edited by Owen Hopkins

Multispace exists at the intersection of the physical and digital, and in the blurring of their previously clear dividing lines. Multispace is not a single space, but a hybrid space where, in effect, we occupy multiple spaces simultaneously. We enter it on a Zoom call, when we are in our office *and* in a meeting with 20 people; when we are cycling down a country lane whilst racing against thousands of others who also use the Strava app; when we are watching a TV show while live tweeting; or, perhaps most literally, when wandering around the local

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Architecture

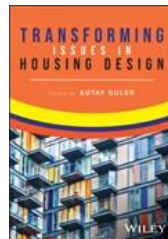
A History of Interior Design (5th Edition)

John Pile, Judith Gura, Drew Plunkett

A History of Interior Design tells the story of 6,000 years of domestic and public space. It's an essential resource for students, professionals, and anyone interested in interior design, the decorative arts, architecture, and art history. It explores a broad range of styles and movements, weaving together a fascinating narrative from cave dwellings and temple architecture, through Gothic cathedrals and Islamic palaces, to modern skyscrapers and the retail spaces of the 21st century.

This fully updated fifth edition includes:

- More on the contributions of women designers



Transforming Issues in Housing Design

Kutay Guler

A practical and complete resource for students, researchers, and practitioners of housing design

Transforming Issues in Housing Design delivers a comprehensive vision for the design, philosophy, psychology, efficiency, and constitution of housing. This collection of articles explores many of the most pressing and relevant issues related to the ongoing transformation of housing design.

Twenty-two contributed chapters discuss the past and current state of housing design, how it evolved to become what it is today, and, finally, how it may unfold in the future. A team of global experts presents the

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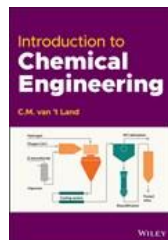
Planning for Community

Phil Heywood

Planning for Community
A comprehensive exploration of community planning that integrates today's social and economic issues with policy and governance considerations

In *Planning for Community*, distinguished regional and local planner Phil Heywood delivers an insightful examination of the accelerating impacts of social, environmental, and economic changes on community life and organization. He explores the ways in which these changes can be anticipated, planned for, and managed as he reviews and evaluates the nature and challenges of

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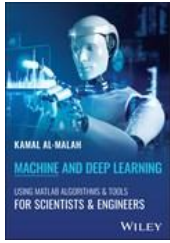
Introduction to Chemical Engineering: A Practical Guide

C. M. van 't Land

Introduction to Chemical Engineering
An accessible introduction to chemical engineering for specialists in adjacent fields

Chemical engineering plays a vital role in numerous industries, including chemical manufacturing, oil and gas refining and processing, food processing, biofuels, pharmaceutical manufacturing, plastics production and use, and new energy recovery and generation technologies. Many people working in these fields, however, are nonspecialists: management, other kinds of engineers (mechanical, civil, electrical, software, computer,

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/ Chemical & Biochemical



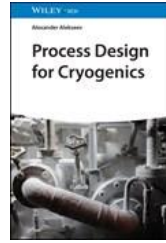
Machine and Deep Learning Using MATLAB: Algorithms and Tools for Scientists and Engineers

Kamal I. M. Al-Malah

In-depth resource covering machine and deep learning methods using MATLAB tools and algorithms, providing insights and automating decision-making processes

Machine and Deep Learning Using MATLAB introduces early career professionals to the power of MATLAB to explore machine and deep learning applications by explaining the relevant MATLAB tool or app and how it is used for a given method or a collection of methods. Its properties, in terms of input and output arguments, are explained, the limitations or applicability is indicated via an

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Safety



Process Design for Cryogenics

Alexander Alekseev

Up-to-date overview of the method for producing the main industrial gases

This book covers process design for cryogenic processes like air separation, natural gas liquefaction, and hydrogen and helium liquefaction. It offers an overview of the basics of cryogenics and information on process design for modern industrial plants. Throughout, the book helps readers visualize the theories of thermodynamics related to cryogenics in practice. A central concept in the book is the connection between the theoretical world of process design and the real limitations given by available hardware components a...

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Technology & Engineering

Process Plant Design

R Smith

This book is intended to provide a practical guide to chemical engineering process plant design for students of chemical engineering, particularly in relation to design projects. It will also be of practical value to practising chemical engineers. It picks up the design process after the texts on conceptual process design and covers an area which is critically important to chemical engineers.

The text starts by giving an up-to-date approach to the structure of process design projects as practised industrially. After a summary of the conceptual development process designs, the text explores the ...

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Technology & Engineering
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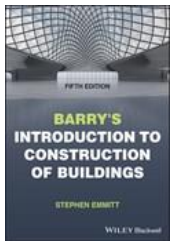
Unlocking the Metaverse: A Strategic Guide for the Future of the Built Environment

Paul Doherty

Highly comprehensive resource providing insight into how the "Metaverse," and digital worlds in general, can be leveraged for business success

Unlocking the Metaverse focuses on the strategic and implementation of processes and execution of Metaverse strategies, technologies, and innovations and provides readers with real world tools and strategies to succeed with market demands. The text provides a clear and concise description of what the Metaverse is and what its value means to readers and their companies.

A continuous interaction with readers inside the book's



Barry's Introduction to Construction of Buildings

S Emmitt

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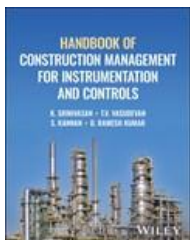


Design and Build Contracts

Guy Higginbottom

Design and build (D&B) construction procurement relies on a project's main contractor shouldering the responsibility for creating the design and executing the construction for a project. While the extent of contractor-produced design can vary, this method of construction procurement affords the contractor a greater level of input and responsibility than traditionally procured contracts (where the employer has greater design responsibility). Over the last decade in the UK, it has become clear that D&B contracts are becoming the most popular method for procuring construction projects; often echo...

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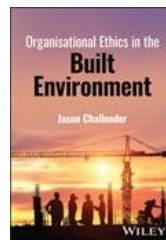
Handbook of Construction Management for Instrumentation and Controls

Kadambi Srinivasan

Learn to effectively install and commission complex, high-performance instrumentation and controls in modern process plants

In *Handbook of Construction Management for Instrumentation and Controls*, a team of experienced engineers delivers an expert discussion of what is required to install and commission complex, high-performance instrumentation and controls. The authors explain why, despite the ubiquitous availability of diverse international standards and instrument manufacturer data, the effective delivery of such projects involves significantly more than

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Organisational Ethics in the Built Environment

Jason Challender

Organisational Ethics in the Built Environment A comprehensive analysis of the critical role played by ethics in construction organisations, and a toolkit for implementing a strong ethical culture

In *Organisational Ethics in the Built Environment*, accomplished construction leader Jason Challender delivers an insightful and important resource for construction industry professionals contributing to the creation of safe and suitable projects. The author explains how to construct the foundation for ethical building and business practices in the construction industry, and

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Building Physics - Heat, Air and Moisture: Fundamentals, Engineering Methods, Material Properties and Exercises (4th Edition)

Hugo S. L. Hens

Bad experiences with construction quality, the energy crises of 1973 and 1979, complaints about "sick buildings", thermal, acoustical, visual and olfactory discomfort, the need for good air quality, the move towards energy efficiency, decarbonization and sustainability ? all these have accelerated the development of a discipline that, for a long time, was hardly more than an academic exercise: building physics. The discipline embraces domains such as heat and mass transfer; building acoustics, lighting, indoor environmental quality, energy efficiency, and, in some countries, fire safety. These

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Technology & Engineering / Civil



Applied Building Physics: Ambient Conditions, Functional Demands, and Building Part Requirements (3rd Edition)

Hugo S. L. Hens

While the first volume on building physics deals with the physical principles of heat, air and moisture behaviour of buildings, building structures and components, this second volume on applied building physics focuses on the question of what the desired performance of buildings consists of. To achieve this, knowledge of the external environmental effects and the internal live loads to which buildings are subjected is a necessary first step. Subsequently, the performance requirements and the physical correspondences are deepened with the determination of their statistical importance at the level

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Building Physics - Heat, Air and Moisture 4e - Fundamentals, Engineering Methods, Material Properties With Exercises (inkl. eBook als PDF)

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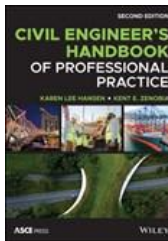
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Applied Building Physics: Ambient Conditions, Functional Demands and Building Part Requirements (Package: Print + ebook)

Hugo S. L. Hens

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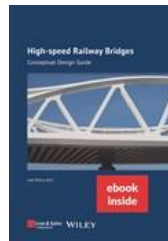
Civil Engineer's Handbook of Professional Practice (2nd Edition)

Karen Hansen, Kent Zenobia

Professional practice guide for students and early-career engineers looking to upskill and master the business of civil engineering

Civil Engineer's Handbook of Professional Practice is the first single-source guide to take the practical skills defined by the American Society of Civil Engineers' Civil Engineering Body of Knowledge (CEBOK) and provide illuminating techniques, quotes, example problems, case studies, and valuable information to assist students and early-career engineers in addressing the many challenges facing civil engineers in the real world. The work distills the

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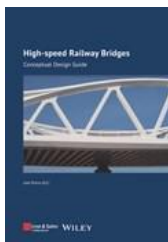


High-speed Railway Bridges, (incl. ebook as PDF): Conceptual Design Guide

José Romo

The need for large-scale bridges is constantly growing worldwide, as the expansion of transport infrastructures with rail roads and high-speed lines is an important current task in many regions. This book develops all aspects referring to the structural conceptional design and analysis that are taken into account when planning a bridge or viaduct for a high-speed rail line. That includes the characteristics of the railway traffic such as speeds, actions, limit states, etc., and a detailed analysis of the superstructure of the track with its various components and singular elements.

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High-speed Railway Bridges: Conceptual Design Guide

José Romo, Alejandro Perez-Caldentey, Manuel Cuadrado

The need for large-scale bridges is constantly growing worldwide, as the expansion of transport infrastructures with rail roads and high-speed lines is an important current task in many regions.

This book develops all aspects referring to the structural conceptional design and analysis that are taken into account when planning a bridge or viaduct for a high-speed rail line. That includes the characteristics of the railway traffic such as speeds, actions, limit states, etc., and a detailed analysis of the superstructure of the track with its various components and singular elements.

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Composite Construction in Steel and Concrete 9: Proceedings of the Nineth International Conference on Composite Construction in Steel and Concrete

M Knobloch

The highly successful International Conference series on Composite Construction in Steel and Concrete is a major forum for researchers, practitioners, and engineers to share and discuss their research, practical experience and innovations related to composite constructions in steel and concrete.

Composite Construction is a key consideration in the design of buildings and infrastructure. Significant advances

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Space Structures

H Klimke



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

ECCS - European Convention for Constructional Steelwork

This book elucidates the design rules for composite structures according to Eurocodes 3 and 4. Numerous examples facilitate the application of the standards

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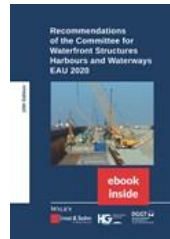
Brown's Boundary Control and Legal Principles (8th Edition)

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

The latest edition of the industry-leading reference to boundary law for property surveying

In the newly revised eighth edition of *Brown's Boundary Control and Legal Principles*, a team of distinguished surveying professionals delivers an updated and expanded treatment of the latest in surveying technology and surveying caselaw. This classic reference to boundary law principles for property surveying continues to evolve, covering all relevant and necessary information related to the complex area of boundary law.

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Recommendations of the Committee for Waterfront Structures Harbours and Waterways 10e - EAU 2020 (incl. eBook as PDF)

Hafentechnische

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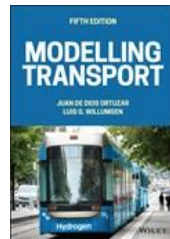


Recommendations of the Committee for Waterfront Structures Harbours and Waterways: EAU 2020 (10th Edition)

HTG, Deutsche Gesellschaft für Geotechnik

The recommendations have been completely restructured in this 12th (2020) edition of the EAU (10th English edition), the aim being to provide readers with a better, clearer arrangement of the chapters. In addition, the information published in the annual technical reports of the Waterfront Structures Committee since the publication of the 11th German edition have been incorporated in this new edition. The recommendations also take into account the new generation of standards consisting of Eurocode 7, the associated National Application Documents and

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Modelling Transport (5th Edition)

Juan de Dios Ortúzar, Luis G. Willumsen

Comprehensive Textbook Resource for Understanding Transport Modelling

Modelling Transport provides unrivalled depth and breadth of coverage on the topic of transport modelling. Each topic is approached as a modelling exercise with discussion of the roles of theory, data, model specification, estimation, validation, and application. The authors present the state of the art and its practical application in a pedagogic manner, easily understandable to both students and practitioners. An accompanying website hosts a solutions manual.

Sample topics and learning resources included in the work

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Artificial Intelligence for Sustainable Applications

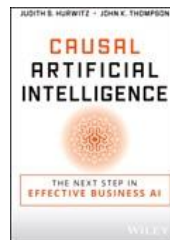
K. Umamaheswari, B. Vinoth Kumar, S. K. Somasundaram

ARTIFICIAL INTELLIGENCE for SUSTAINABLE APPLICATIONS

The objective of this book is to leverage the significance of artificial intelligence in achieving sustainable solutions using interdisciplinary research through innovative ideas.

With the advent of recent technologies, the demand for Information and Communication Technology (ICT)-based applications such as artificial intelligence (AI), machine learning (ML), Internet of Things (IoT), health care, data

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Causal Artificial Intelligence: The Next Step in Effective Business AI

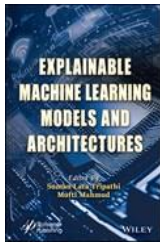
Judith S. Hurwitz, John K. Thompson

Discover the next major revolution in data science and AI and how it applies to your organization

In *Causal Artificial Intelligence: The Next Step in Effective, Efficient, and Practical AI*, a team of dedicated tech executives delivers a business-focused approach based on a deep and engaging exploration of the models and data used in causal AI. The book's discussions include both accessible and understandable technical detail and business context and concepts that frame causal AI in familiar business settings.

I leaf it for both data scientists and business-side

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Computers / Artificial Intelligence



Explainable Machine Learning Models and Architectures

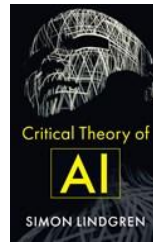
Suman Lata Tripathi, Mufti Mahmud

EXPLAINABLE MACHINE LEARNING MODELS AND ARCHITECTURES

This cutting-edge new volume covers the hardware architecture implementation, the software implementation approach, and the efficient hardware of machine learning applications.

Machine learning and deep learning modules are now an integral part of many smart and automated systems where signal processing is performed at different levels. Signal processing in the form of text, images, or video

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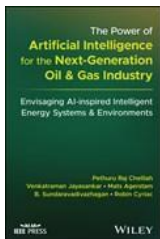
Critical Theory of AI

Lindgren

We live in an age of artificial intelligence (AI). Machines think and act in ever more complex ways, increasingly making prognoses, suggestions, and decisions on our behalf. Whilst AI might be seen as practical and profitable, issues of data surveillance, algorithmic control, and sexist and racist bias persist. In this rapidly changing landscape, social analysis of AI risks getting scaled down to issues of 'ethics', 'responsibility' and 'fairness'. While these are important issues, they must be addressed not from an 'AI first' perspective, but more thoroughly in terms of power and contention.

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The Power of Artificial Intelligence for the Next-Generation Oil and Gas Industry: Envisaging AI-inspired Intelligent Energy Systems and Environments

Chelliah

Comprehensive resource describing how operations, outputs, and offerings of the oil and gas industry can improve via advancements in AI

The Power of Artificial Intelligence for the Next-Generation Oil & Gas Industry describes the proven and promising digital technologies and tools available to empower the oil and gas (O & G) industry to be future-ready. It shows how the widely reported limitations of the oil and gas industry are being nullified through the application of breakthrough

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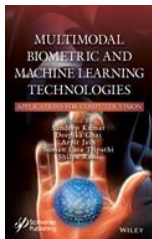
Cybernetical Intelligence: Engineering Cybernetics with Machine Intelligence

Kelvin K. L. Wong

Highly comprehensive, detailed, and up-to-date overview of artificial intelligence and cybernetics, with practical examples and supplementary learning resources

Cybernetical Intelligence: Engineering Cybernetics with Machine Intelligence is a comprehensive guide to the field of cybernetics and neural networks, as well as the mathematical foundations of these technologies. The book provides a detailed explanation of various types of neural networks, including feedforward networks, recurrent neural networks, and convolutional neural networks, and

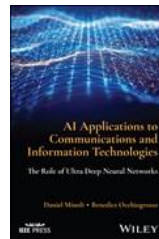
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Communications



Multimodal Biometric and Machine Learning Technologies: Applications for Computer Vision

Sandeep Kumar, Rohit Raja, K.M.V.V. Prasad, Munish Kumar

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Pub Date: 12/19/23
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Computers / Artificial
Intelligence



AI Applications to Communications and Information Technologies: The Role of Ultra Deep Neural Networks

Daniel Minoli, Benedict Occhiogrosso

Apply the technology of the future to networking and communications.

Artificial intelligence, which enables computers or computer-controlled systems to perform tasks which ordinarily require human-like intelligence and decision-making, has revolutionized computing and digital industries like few other developments in recent history. Tools like artificial neural networks, large language models, and deep learning have quickly become integral aspects of modern life. With research and development into AI

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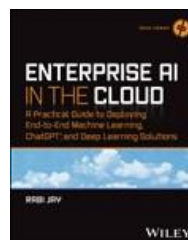
Machine Learning Applications: From Computer Vision to Robotics

Indranath Chatterjee, Sheetal Zalte

Practical resource the importance of Machine Learning and Deep Learning applications in various technologies and important real-world situations

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Rabi Jay

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Bart R. McDonough

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A comprehensive overview for directors aiming to meet their cybersecurity responsibilities

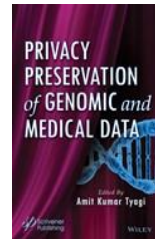
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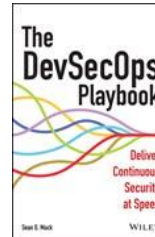
Amit Kumar Tyagi

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Qi Xia, Jianbin Gao, Isaac Amankona Obiri, Kwame Omono Asamoah, Daniel Adu Worae

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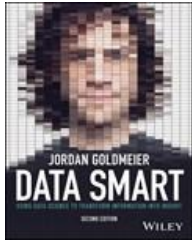
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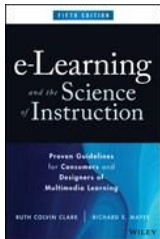
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Daniel Ventre, Philippe Guillot

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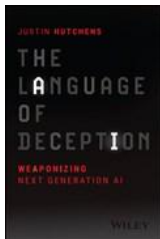
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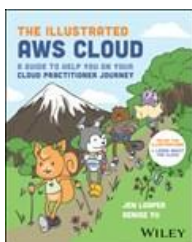
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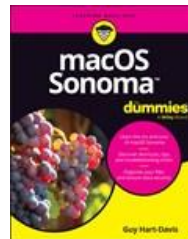
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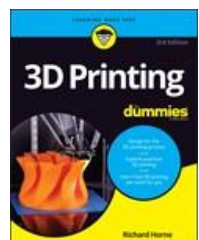
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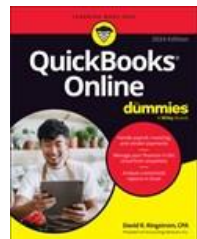
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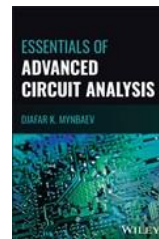
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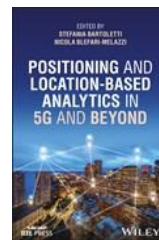
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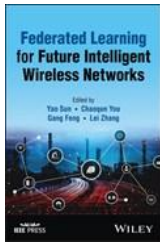
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Stefania Bartoletti, Nicola Blefari-Melazzi

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Yao Sun, Chaoqun You, Gang Feng, Lei Zhang

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Intelligent Surfaces Empowered 6G Wireless Network

Qingqing Wu, Trung Q. Duong, Derrick Wing Kwan Ng, Robert Schober, Rui Zhang

Integrate intelligent surfaces into the wireless networks of the future.

The next generation of wireless technology (6G) promises to transform wireless communication and human interconnectivity like never before. Intelligent surface, which adopts significant numbers of small reflective surfaces to reconfigure wireless connections and improve network performance, has recently been recognized as a critical component for enabling future 6G. The next phase of wireless technology demands engineers and

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Troubleshooting for Network Operators: The Road to a New Paradigm with Encrypted Traffic

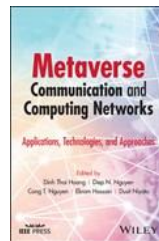
Van Van Tong, Sami Souihi, Hai Anh Tran, Abdelhamid Mellouk

Nowadays, the Internet is becoming more and more complex due to an everincreasing number of network devices, various multimedia services and a prevalence of encrypted traffic.

Therefore, in this context, this book presents a novel efficient multi modular troubleshooting architecture to overcome limitations related to encrypted traffic and high time complexity. This architecture contains five main modules: data collection, anomaly detection, temporary

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Dinh Thai Hoang, Diep N. Nguyen, Cong T. Nguyen, Ekram Hossain, Dusit Niyato

This book provides a comprehensive text that discusses Metaverse from a technological perspective with a wide range of topics from the basic to advanced levels focusing on how state-of-the-art technologies can be adopted for Metaverse. It begins with an overview including architecture, main components, devices, benefits, and typical applications. Then it discusses how the essential technologies, e.g., AI, computer vision, Virtual Reality (VR), Augmented Reality (AR), Extended Reality (XR),

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Anwer Al-Dulaimi, Octavia A. Dobre, Chih-Lin I

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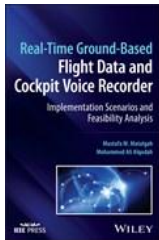
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Mustafa M. Matalgah, Mohammed Ali Alqodah

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DongFeng Fang, Yi Qian, Rose Qingyang Hu

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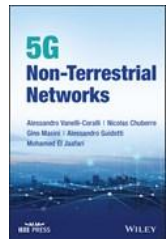
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Jianjun Zhang, Jing Li

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Alessandro Vanelli-Coralli, Nicolas Chuberre, Gino Masini, Alessandro Guidotti, Mohamed El Jaafari

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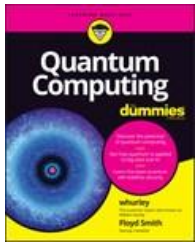
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Rathishchandra R. Gatti, Rajeev Agrawal, Felcy Jyothi Serrao, Chandra Singh

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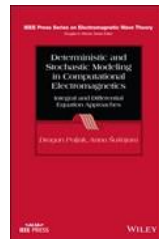
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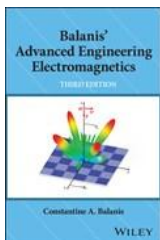
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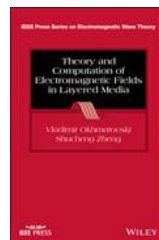
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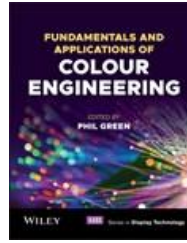
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Phil Green

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Learning Automata and Their Applications to Intelligent Systems

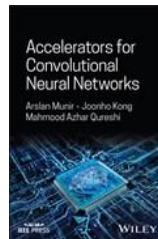
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Comprehensive guide on learning automata, introducing two variants to accelerate convergence and computational update speed

Learning Automata and Their Applications to Intelligent Systems provides a comprehensive guide on learning automata from the perspective of principles, algorithms, improvement directions, and applications. The text introduces two variants to accelerate the convergence speed and computational update speed, respectively; these two examples demonstrate how to design new learning automata for a specific field from the aspect of

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Liu

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Fei "Fred" Wang, Zheyu Zhang, Ruiqi Chen

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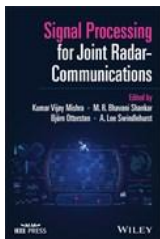
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Gerry Moschopoulos

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As it can be rare for source voltage to meet the requirements of a Direct Current (DC) load, DC-DC converters are essential to access service. DC-DC power converters employ power semiconductor devices (like MOSFETs and IGBTs) as switches and passive elements such as capacitors, inductors, and transformers to alter the voltage provided by a DC source into the necessary DC voltage as is required by a DC load. This source can be a

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Signal Processing for Joint Radar Communications

Kumar Vijay Mishra, Bhavani Shankar, Bjorn Ottersten, A. Lee Swindlehurst

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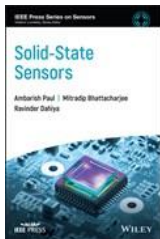
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Ibrahim A. Haroun

The proposed book *Essentials of RF Front-end Design and Testing: A Practical Guide for Wireless Systems* provides the RF system essentials required to understand, develop, and evaluate the performance of RF wireless systems such as 5G mmWave. It is a system-oriented book which provides several wireless communication disciplines in one volume; the book covers a wide range of topics, including antenna fundamentals, phased array antenna and MIMOs that are crucial for the latest 5G mmWave and future 6G wireless systems, high-frequency transmission lines, RF building blocks that are necessary to unde...

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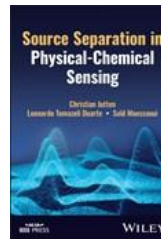
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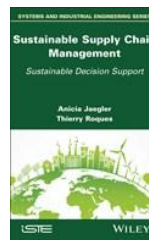
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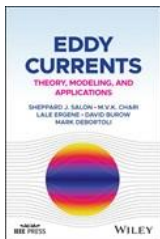
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Garima Sharma, Rajiv Nandan Rai

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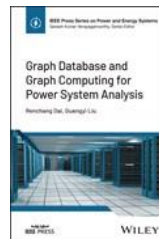
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Understand the theory of eddy currents with this essential reference

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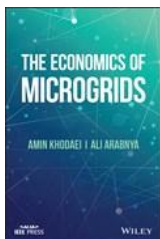
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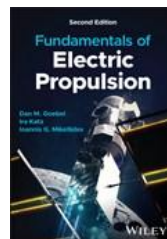
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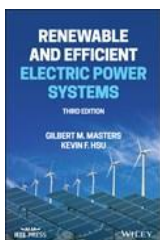
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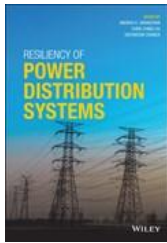
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Most resiliency and security guidelines for the power industry are focused on power transmission systems. As renewable energy and energy storage increasingly replace fossil-fuel-based power generation over the coming years, geospatially neighboring distributed energy resources will supply a majority of consumers and provide clean power through long transmission lines. These electric power distribution systems—the final stage in the delive...

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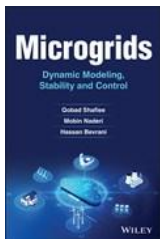
Electrical and Mechanical Fault Diagnosis in Wind Energy Conversion Systems

Monia Ben Khader Bouzid, Gerard Champenois

Wind energy conversion systems are subject to many different types of faults and therefore fault detection is highly important to ensure reliability and safety.

Monitoring systems can help to detect faults before they result in downtime. This book presents efficient methods used to detect electrical and mechanical faults based on electrical signals occurring in the different components of a wind energy conversion system. For example, in a small and high power synchronous generator and multi-phase generator, in the diode bridge rectifier, the gearbox and the

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Qobad Shafiee, Mobin Naderi, Hassan Bevrani

Presents microgrid methodologies in modeling, stability, and control, supported by real-time simulations and experimental studies

Microgrids: Dynamic Modeling, Stability and Control, provides comprehensive coverage of microgrid modeling, stability, and control, alongside new relevant perspectives and research outcomes, with vital information on several microgrid modeling methods, stability analysis methodologies and control synthesis approaches that are supported by real-time simulations and experimental studies for active learning in professionals and students

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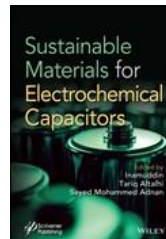
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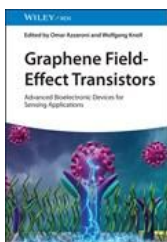
Sustainable Materials for Electrochemical Capacitors

Inamuddin, Tariq Altalhi, Sayed Mohammed Adnan

Sustainable Materials for Electrochemical Capacitors
The book highlights the properties of sustainable materials for the production of commercial electrochemical capacitors.

Sustainable Materials for Electrochemical Capacitors details the progress in the usage of ubiquitous environmentally sustainable materials. Due to their cost effectiveness, flexible forms, frequent accessibility, and environmentally friendly nature, electrochemical capacitors with significant surface areas of their carbon components are quite

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Graphene Field-Effect Transistors: Advanced Bioelectronic Devices for Sensing Applications

Omar Azzaroni, Wolfgang Knoll

Graphene Field-Effect Transistors
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Graphene Field-Effect Transistors focuses on the design, fabrication, characterization, and applications of graphene field effect transistors, summarizing the state-of-the-art in the field and putting forward new ideas regarding future research directions and potential applications. After a review of the unique electronic properties of graphene and the production of graphene and graphene oxide, the main

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Adrian Kitai

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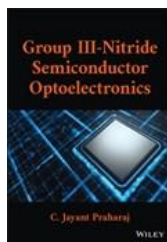
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Manfred Fiebig

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H Wang

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Electromagnetic Nanomaterials: Properties and Applications

Inamuddin, Tariq Altalhi

Electromagnetic Metamaterials: Properties and Applications discusses a wide range of components to make metamaterial-engineered devices. It gives an overview of metamaterials' current stage of development in a variety of fields such as remote aerospace applications, medical appliances, sensor detectors and monitoring devices of infrastructure, crowd handling, smart solar panels, radomes, high-gain antennas lens, high-frequency communication on the battlefield, ultrasonic detectors, and structures to shield earthquakes.

Sodium-Ion Capacitors: Mechanisms, Materials, and Technologies

Guoqiang Zou, Xiaobo Ji, Hongshuai Hou

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Interface Engineering in Organic Field-Effect Transistors

X Guo

Interface Engineering in Organic Field-Effect Transistors

Systematic summary of advances in developing effective methodologies of interface engineering in organic field-effect transistors, from models to experimental techniques

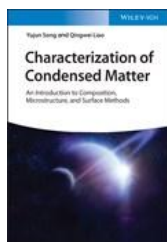
Interface Engineering in Organic Field-Effect Transistors covers the state of the art in organic field-effect transistors and reviews charge transport at the interfaces, device design concepts, and device fabrication processes, and gives an outlook on the development of future

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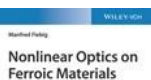
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Characterization of Condensed Matter: An Introduction to Composition, Microstructure, and Surface Methods

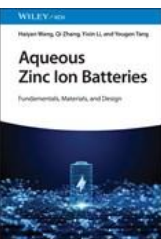
Yujun Song, Qingwei Liao

Characterization of Condensed Matter
A comprehensive and accessible introduction to the characterization of condensed materials

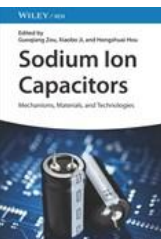
The characterization of condensed materials is a crucial aspect of materials science. The science underlying this area of research and analysis is interdisciplinary, combining electromagnetic spectroscopy, surface and interface testing methods, physicochemical analysis methods, and more. All of this must be brought to bear in order to understand the relationship between microstructures and



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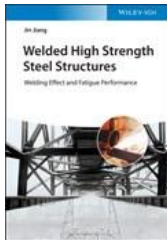
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Jin Jiang, Sing Ping Chiew, Zhiwei Peng

Understand the impact of fatigue on high strength steel joints with this comprehensive overview

High strength steels are highly sought after for industrial and engineering applications ranging from armored vehicles to welded engineering components built to withstand considerable stress. The mechanical properties of welded joints made from high strength steel are integrally linked to the specific welding process, which can have an enormous impact on fatigue performance.

Welded High Strength Steel Structures: Welding Effects and Fatigue Performance provides a comprehensive

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Friction Stir Welding and Processing: Fundamentals to Advancements

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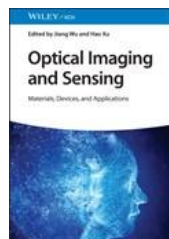
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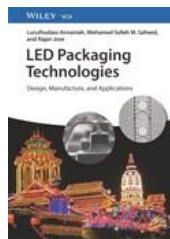
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L. Annaniah

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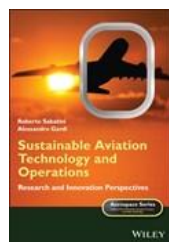
Metal Oxide Nanocomposite Thin Films for Optoelectronic Device Applications

Zargar

This book covers the basics of advanced nanometal oxide-based materials, their synthesis, characterization, and applications, and all the updated information on optoelectronics. Topics discussed include the implications of metal oxide thin films, which are critical for device fabrications. It provides updated information on the economic aspect and toxicity, with great focus paid to display applications, and covers some core areas of nanotechnology, which are particularly concerned with optoelectronics and the available technologies. The book concludes with insights into the role of nanotechnol...

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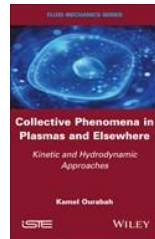
Meshfree and Particle Methods is the first book of its kind to combine comprehensive, up-to-date information on the fundamental theories and applications of meshfree methods with systematic guidance on practical coding implementation. Broad in scope and content, this unique volume provides readers with the knowledge necessary to perform research and solve challenging problems in nearly all fields of science and engineering using meshfree computational techniques.

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Kamel Ourabah

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Concise introduction to heat transfer, with a focus on worked example problems to aid in reader comprehension and student learning

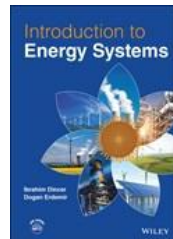
Heat Transfer Basics covers the essential topics of heat transfer in a focused manner, starting with an introduction to heat transfer that explains its relationship to thermodynamics and fluid mechanics and continuing onto key topics such as free convection, boiling and condensation, radiation, heat exchangers, and more, for an overall accessible and reader-friendly yet comprehensive treatment of the subject.

Introduction to Energy Systems

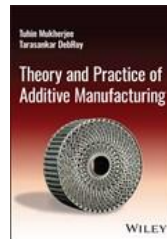
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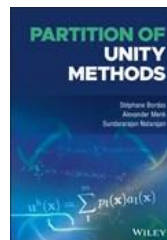
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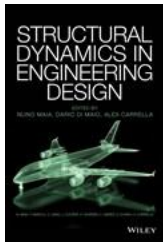
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A Carrella

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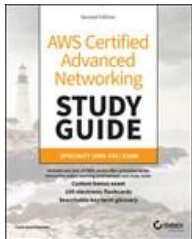


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Dusan P. Sekulic, Ramesh K. Shah

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Todd Montgomery

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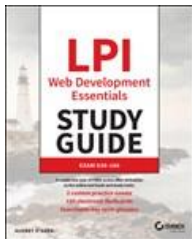
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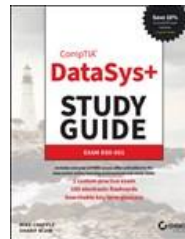
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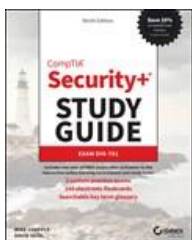
Mike Chapple, Sharif Nijim

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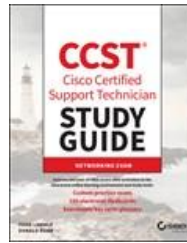
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