



Engineering & Computer Science

September to December 2021

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Lead Title



Adoptable Textbook

Stufish

Entertainment Architecture

Ray Winkler & Neil Spiller

This issue of AD looks at the work of STUFISH Entertainment Architects. Founded by the late Mark Fisher, the legendary British architect known for his rock music stage sets for bands including the Rolling Stones, U2 and Pink Floyd, the studio is a recognised leader in entertainment architecture.

Trade discount
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Architectural Design

**Building Codes Illustrated**

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

Francis D. K. Ching & Steven R. Winkel

Easy-to-use and practical, *Building Codes Illustrated* uses clear language and Frank Ching's distinctive illustrations to demystify the 2021 International Building Code. This Seventh Edition includes three new chapters: Plumbing Fixture Counts, Elevators, and Special Construction, and an extensively expanded chapter on Existing Buildings.

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Building Codes Illustrated
Previous ed: 9781119480358

**Carbon**

A Field Manual for Building Designers

Alan Organschi, Matti Kuittinen & Andrew Ruff

A comprehensive approach to sustainable design that integrates building science principles, life-cycle analysis, and design strategies for carbon-neutral construction. It presents a set of guiding principles that can be readily adopted, as well as a case study that includes carbon-reducing strategies, and steps for assessing a building's carbon footprint.

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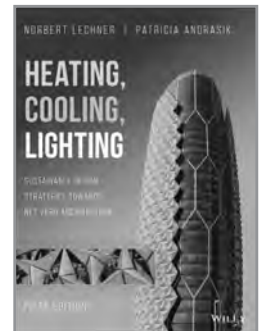
**Heating, Cooling, Lighting**

Sustainable Design Strategies Towards Net Zero Architecture, 5th Edition

Norbert M. Lechner & Patricia Andrasik

The essential guide to environmental control systems in building design—updated and restructured to reflect the latest trends in achieving net zero architecture. Reflects the latest in codes, standards, and rating systems for energy efficiency, and three new chapters on Retrofits, Integrated Design, and Design Tools.

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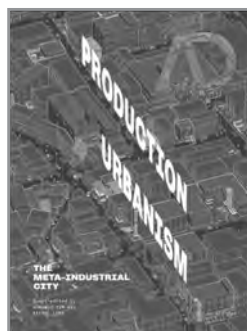
**Production Urbanism**

The Meta Industrial City

Dongwoo Yim & Rafael Luna

This AD issue discusses the implications of the re-emergence of production as an architectural and urban agenda through hybrid models that engage a new socioeconomic shift.

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Architectural Design

**Beginnings of Interior Environments, 11th Edition***Lynn M. Jones*

This is a republication of the 11th edition of the book, to make it available to current adopters for a year prior to the launch of a fully-revised 12th edition to be published by Wiley in 2022. This title was previously published by Pearson, and earlier editions have sold over 200,000 copies in the past 40 years.

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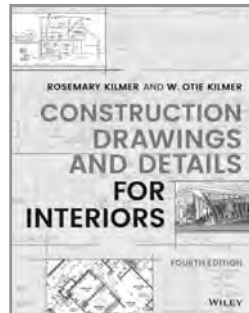
INTERIOR DESIGN

Construction Drawings and Details for Interiors, 4th Edition

Rosemary Kilmer & W. Otie Kilmer



In a highly visual format, this book clearly communicates how to prepare construction drawings solely for the field of interior design. It covers drafting fundamentals and conventions; drawing types, plans, and schedules; and an introduction to computer-aided design, with updated coverage of Building Information Modeling (BIM).



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A Guide to Planning Spaces, 4th Edition

Maureen Mitton & Courtney Nystuen



The industry-standard reference for residential space planning—with a practical focus on accessibility, ergonomics, and building systems. This reference features hundreds of drawings and photographs to illustrate key concepts, and offers the latest in building codes, sustainability standards, and all-new material related to smart building technology.



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PLANNING

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Transdisciplinary Perspectives, Conceptions, and Designs

Oliver Heckmann

Around the globe, urban populations are growing at an unprecedented rate, in particular in Asia and Africa. *Future Urban Habitation* presents an integrative, transdisciplinary approach for developing long-term strategies for urban housing at a different scales.



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INTERIOR DESIGN

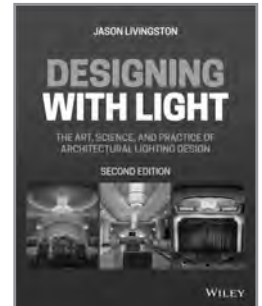
Designing with Light

The Art, Science, and Practice of Architectural Lighting Design, 2nd Edition

Jason Livingston



The new edition of the popular introduction to architectural lighting design, covering all stages of the lighting design process. Featuring hundreds of high-quality color images and illustrations, it includes new chapters on design thinking, common lighting techniques, and lighting economics, and expanded sections on aesthetics, controlling LEDs, light, and health.



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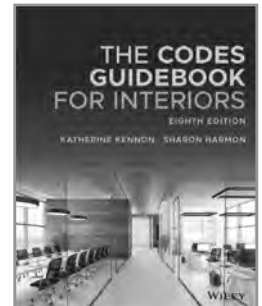
INTERIOR DESIGN

The Codes Guidebook for Interiors, 8th Edition

Katherine E. Kennon & Sharon K. Harmon



The only book on the market devoted exclusively to codes that are applicable to interior designers. This guide is updated for the 2018 and 2021 code, and features jargon-free explanations of all the codes and standards relevant to designers and architects. Dozens of examples are enhanced with detailed illustrations and floor plans that clearly show how codes apply to real-world projects.



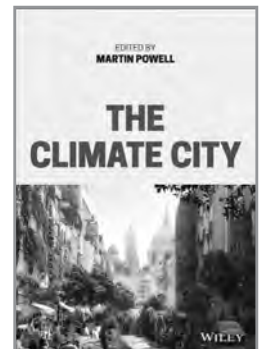
Also available: Study Guide, 8th Edition
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PLANNING

The Climate City

Martin Powell

Provides professionals in finance, technology, and consulting with solutions for improving the quality of urban life under the changing climate and a less resource-intensive future. Features insights from political leaders such as the Mayor of Copenhagen, the Mayor of Los Angeles and the former Mayor of London and Prime Minister of the United Kingdom.



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Eric Firley

This is a vital design and analysis tool for housing practitioners and students, which outlines the characteristics of some of the most interesting and prominent housing typologies. The revised and updated edition will provide graphic representation and analysis of approximately 30 urban case studies from around the world with recent examples.

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Achieving Safe and High Quality Bonds

Jurgen Klingen

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Adhesive Bonding in
Five Steps

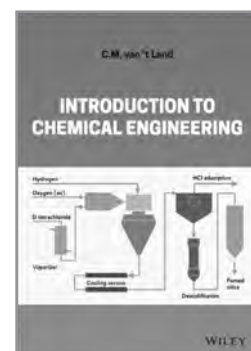
Chemical Engineering

A Practical Guide

C. M. van 't Land

This book provides chemists, biologists, physicists, and non-chemical engineers knowledge about applied chemical engineering including chemical reaction engineering, separation processes, process safety, and other key terms in chemical engineering.

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Chemical Process
Design, Analysis,
Simulation and
Integration

Fundamentals of Chemical Reactor Engineering

A Multi-Scale Approach

Timur Dogu & Gulsen Dogu

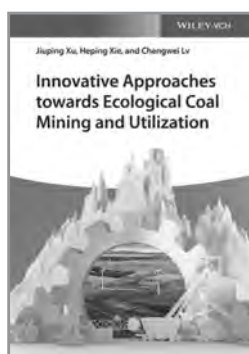
Teaches the fundamentals of chemical reactor engineering by taking a multiscale approach to reactor modeling and heterogeneous catalysis, offering an industrial perspective and emphasis on process intensification, multifunctional reactors, interphase and intraphase transport effects in multiphase reaction systems.

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**Introduction to Adhesive Bonding**

Eduardo Andre Sousa Marques, Ana Sofia Queiros Ferreira Barbosa, Ricardo Joao Camilo Carbas, Alireza Akhavan-Safar & Lucas Filipe Martins da Silva

Presents an accessible introduction to adhesive bonding through a systematic discussion of the necessary steps and deepens the understanding of adhesive bonding by also covering issues like durability, limitations and health & safety aspects of adhesive bonding projects.

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Mashallah Rezakazemi & Mohammad Younas

A foremost description of membrane contactors, as a powerful technology that has the potential to transform mass transfer operations. Broad in scope, the authors offer insight into a wide range of application opportunities from material sciences to process engineering.

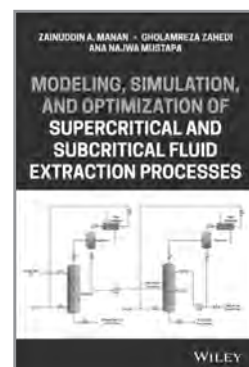
Membrane Contactor
Technology

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Modeling, Simulation, and Optimization of Supercritical and Subcritical Fluid Extraction Processes

Zainuddin A. Manan, Gholamreza Zahedi & Ana Najwa Mustapa

A complete guide on tools and techniques for modeling, simulation and optimization of sub and supercritical fluid extraction processes and phenomena. Features examples and case studies to demonstrate practical applications. Zainuddin Manan is Professor at Universiti Teknologi Malaysia, and Ana Najwa Mustapa is at Universiti Teknologi MARA (UiTM).



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An Illustrated Guide for Engineers

Anthony Sofronas

This book uses illustrated examples drawn from a variety of technologies to convey practical insights that can be used to understand complex engineering problems and make better decisions while solving them. It describes the engineering analysis techniques in detail so readers can understand how to apply them to their situation and avoid costly failures.

Unique Methods for
Analyzing Failures and
Catastrophic Events

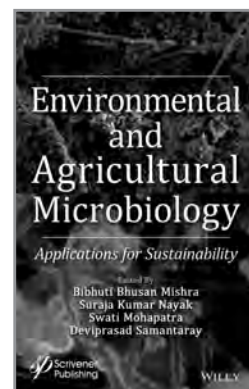
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Environmental and Agricultural Microbiology

Applications for Sustainability

Bibhuti Bhusan Mishra, Suraja Kumar Nayak, Swati Mohapatra & Deviprasad Samantaray

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CCPS (Center for Chemical Process Safety)

The foundation of any successful process safety program is a current set of process hazard analyses (PHAs). The new edition thoroughly updates the first book and provides much needed and requested guidance on PHA Revalidations from start to finish.

Guidelines for Process
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(PHA) Revalidations,
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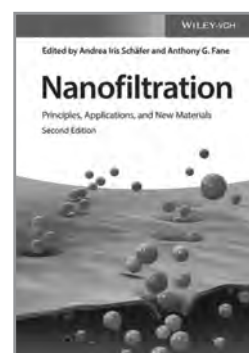
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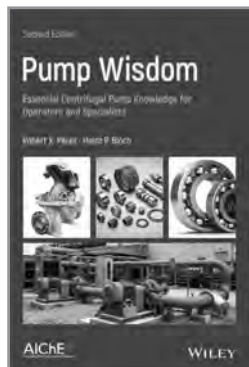
Pump Wisdom

Problem Solving for Operators and Specialists, 2nd Edition

Robert X. Perez & Heinz P. Bloch

This easy to follow book explains the key facets of centrifugal pump ownership, including installation, operation, troubleshooting, and failure prevention. The second edition expands coverage to additional areas critical to achieving best in class pump reliability, and sheds light what to do so centrifugal process pumps operate safely and reliably.

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**Waste Heat Recovery in Process Industries***Hussam Jouhara*

Covering all relevant technologies for waste heat recovery and discussing selected case studies across several different industries, this book is an indispensable resource for the professional engineer involved in process, heat and energy management.

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Waste Heat Recovery in
Process Industries

A Contractor's Guide to Planning, Scheduling, and Control*Arnold Leonard Holm*

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**An Effective Strategy for Safe Design in Engineering and Construction***David England & Dr Andy Painting*

Gain an understanding of the design process from initial idea to the validation of the product in service, and understand how Construction (Design and Management) Regulations 2015 (CDM) is applicable to the majority of construction projects, irrespective of industry sector.

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An Effective Strategy
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Managerial Frameworks, Policy, and Practice

Steven Male & Krisen Moodley

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Management

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CIOB (The Chartered Institute of Building)

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Previous ed: 9781118378083

Code of Practice for
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for Construction and
Development, 6th
Edition

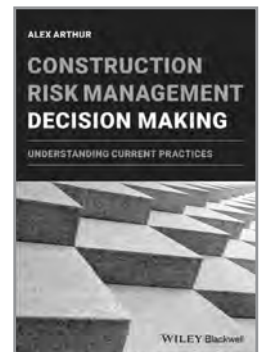
Construction Risk Management Decision Making

Understanding Current Practices

Alex C. Arthur

The first book to explore the relevance of systems thinking and behavioural science in the practices of construction risk management decision making processes. It is aimed at post graduate students at the MSc and PhD levels pursuing programmes in project management, engineering, construction, and surveying, as well as practitioners of construction management, surveying and architecture.

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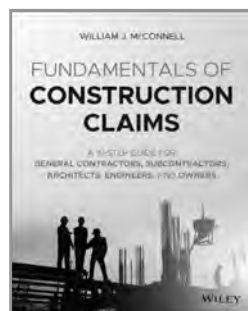
Fundamentals of Construction Claims

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

William J. McConnell

A comprehensive 10-step roadmap for construction professionals to assemble and present claims. Throughout, relevant case studies are used to illuminate the principles found within and bring life to the concepts the author introduces.

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Richard F. Fellows & Anita M. M. Liu

The fifth edition of this book provides a coherent, comprehensive examination and explanation of construction research. It pursues a processual approach and addresses both theoretical/philosophical considerations as well as practical applications - to academic activities and to industry and practice.

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Research Methods for
Construction,
5th Edition



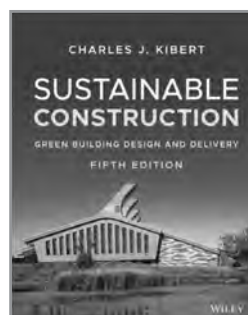
Sustainable Construction

Green Building Design and Delivery, 5th Edition

Charles J. Kibert

The leading guide to the design, construction, and operation of green buildings—updated with the latest advances in the field. This textbook on sustainable building is for upper level undergraduate and graduate level students in architecture, architectural technology, civil engineering, and construction management.

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Geoengineering

The Gamble

Gernot Wagner

A bestselling climate economist asks if geoengineering is worth the gamble to tackle climate change? The principle is simple: attempt to cool Earth by reflecting more sunlight back into space. The primary mechanism, shooting particles into the upper atmosphere, implies more pollution, not less. If that doesn't sound scary, it should.

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Polity



Stantec's Water Treatment

Principles and Design, Updated 3rd Edition

Kerry Howe, John C. Crittenden, R. Rhodes Trussell, David W. Hand & George Tchobanoglous

The bestselling guide to water treatment engineering—updated to include an all-new chapter on Potable Reuse and all-new digital content in every chapter. Written by foremost experts in the field of public water supply, for engineers designing or operating water treatment plants as well as for students of civil, environmental and water resources engineering.

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Stantec's Water
Treatment

HYDROLOGY (CIVIL ENGINEERING)

Applied Water Science, Volume 2*Inamuddin, Mohd Imran Ahamed, Rajender Boddula & Tauseef Ahmad Rangreez*

The second volume on applied water science provides understanding, occurrence, identification, toxic effects and control of water pollutants in aquatic environment using green chemistry protocols. Contains well-drafted chapters, including current challenges and future perspectives in the field for beginners, graduate students, veteran engineers, and other experts alike

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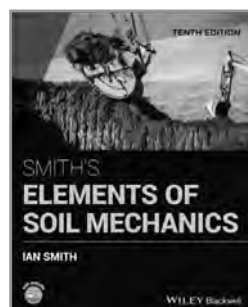
Applied Water Science,
Volume 2

SOIL (CIVIL ENGINEERING)

Smith's Elements of Soil Mechanics, 10th Edition*Ian Smith*

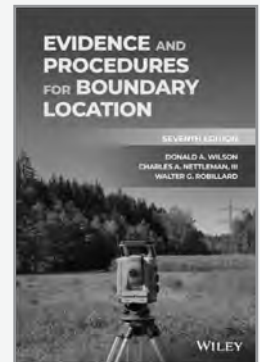
The revised 10th edition of the core textbook on soil mechanics for students of civil engineering and geotechnical engineering. Updated throughout to include additional material and more worked examples that clearly illustrate the processes for performing testing and design to the new European standards.

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Wiley-Blackwell
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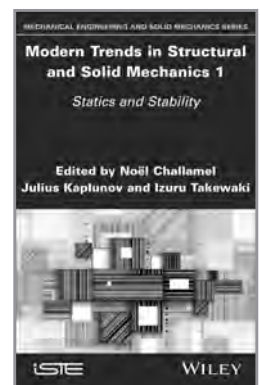
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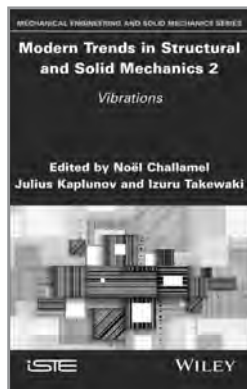
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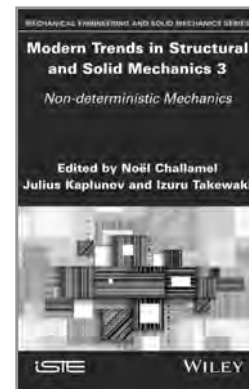
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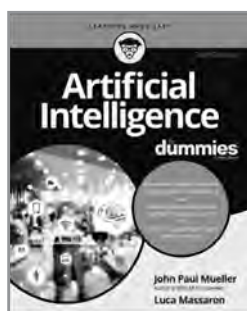
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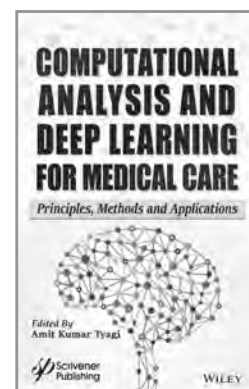
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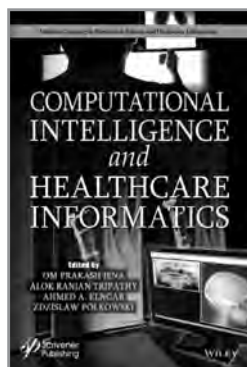
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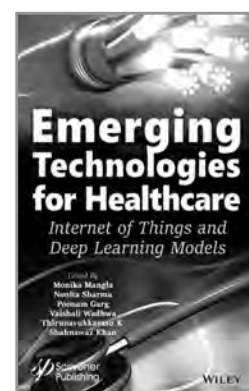
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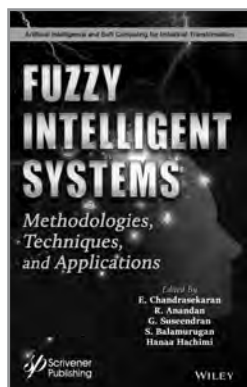
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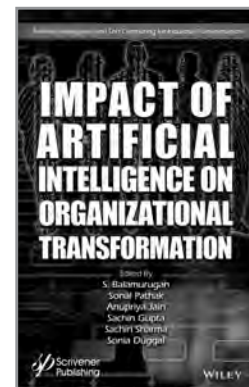


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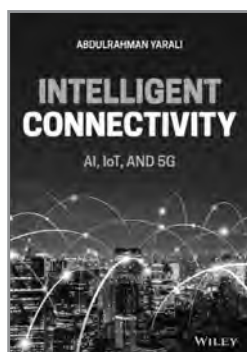
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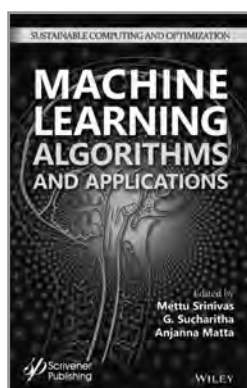


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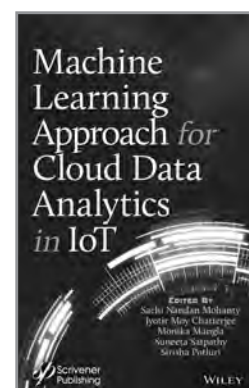


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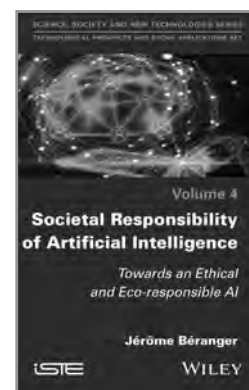
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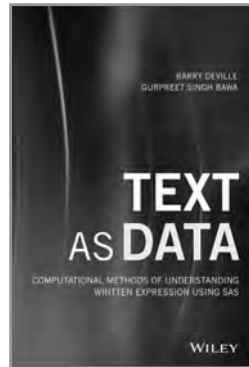
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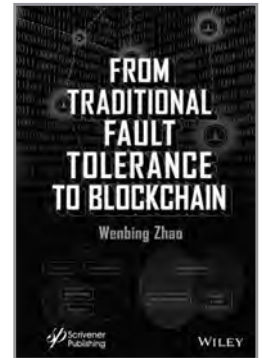
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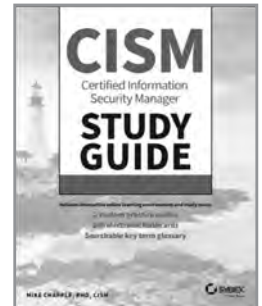
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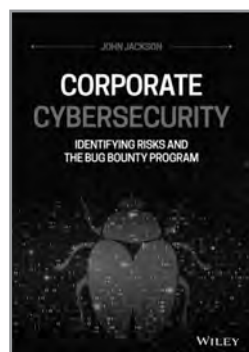
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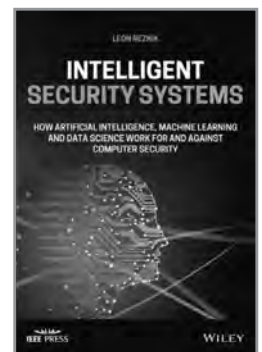
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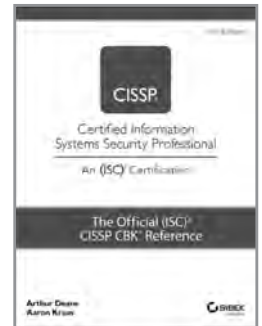
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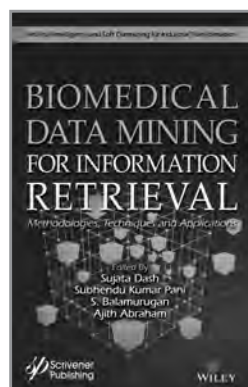
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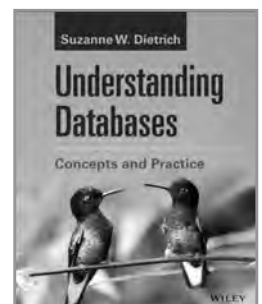
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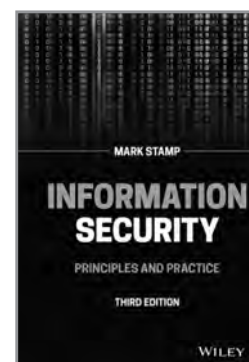
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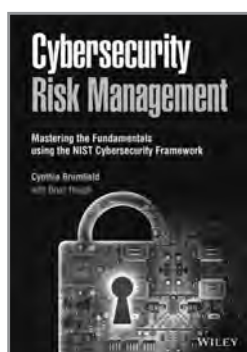
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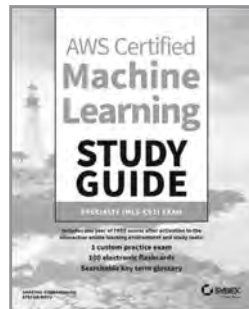
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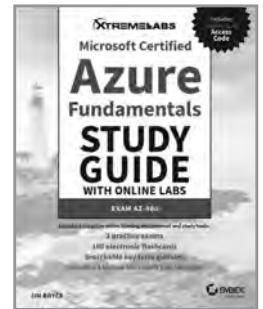
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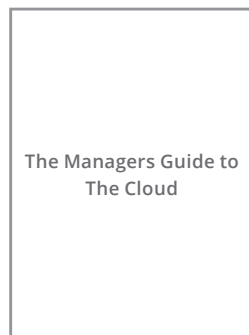
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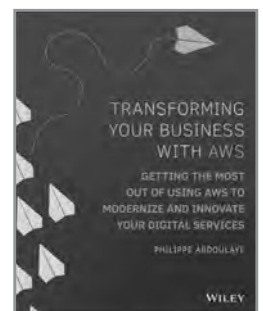
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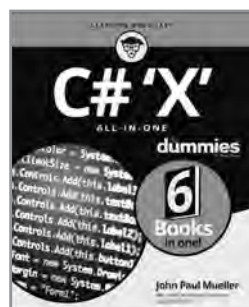
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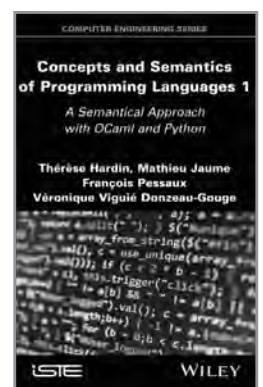
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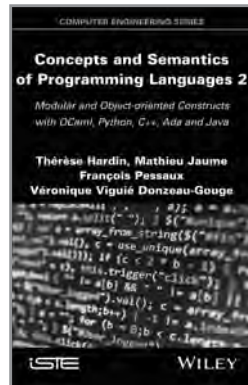
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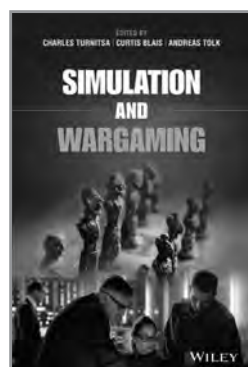


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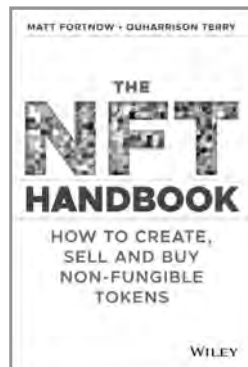
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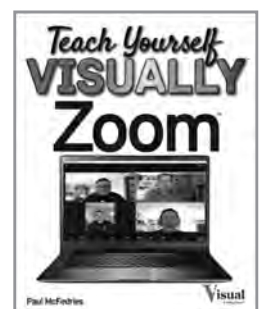
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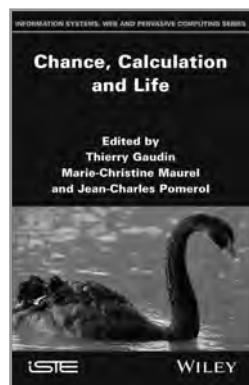
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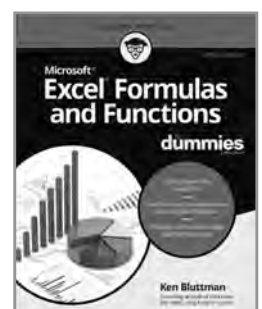
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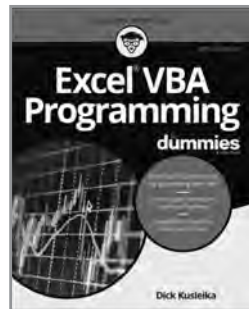
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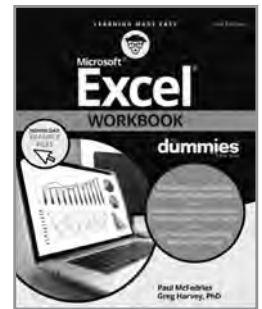
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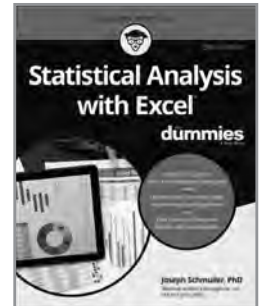
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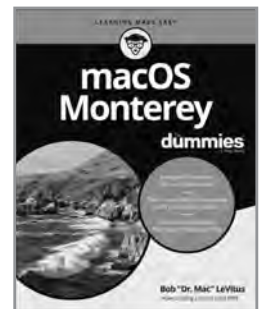
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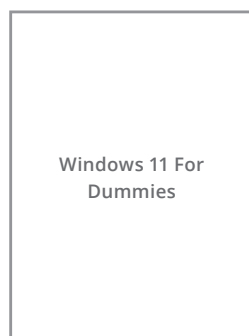
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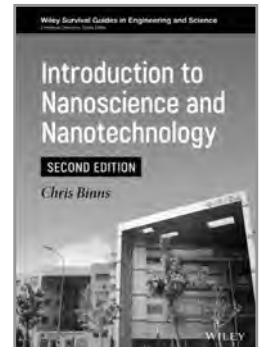


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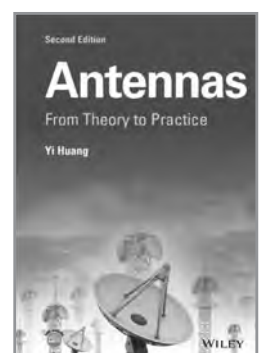
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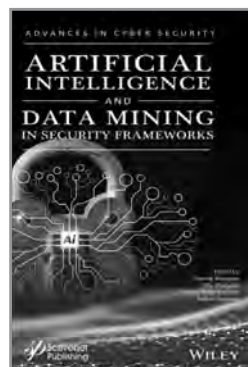
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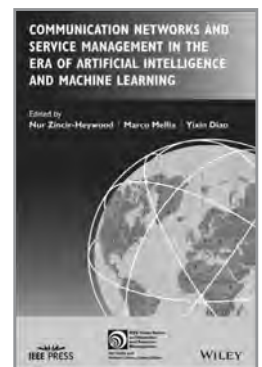


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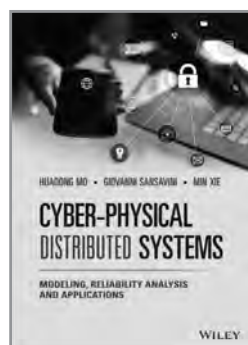
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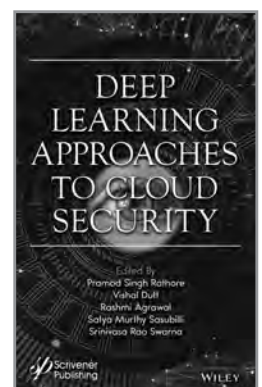


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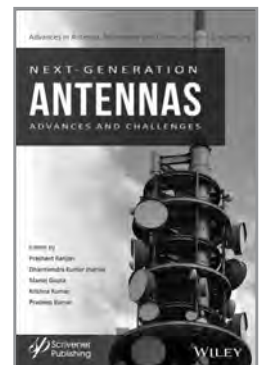
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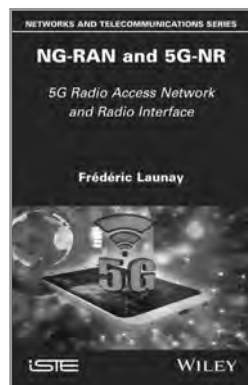
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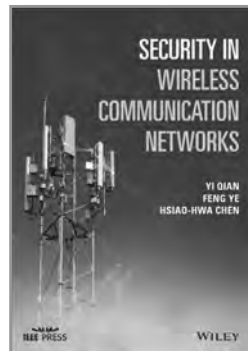
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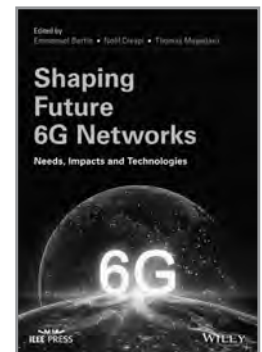
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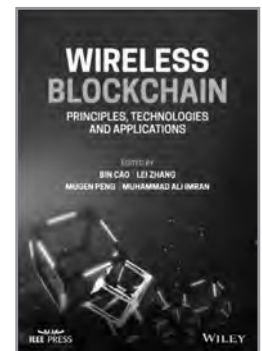
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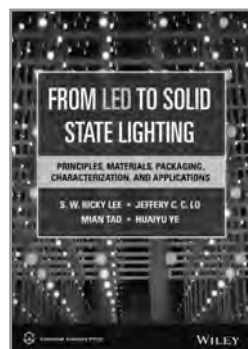
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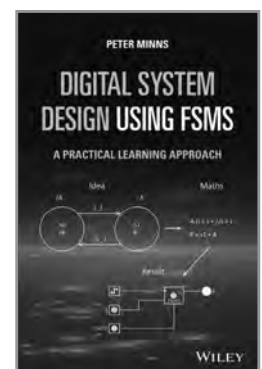
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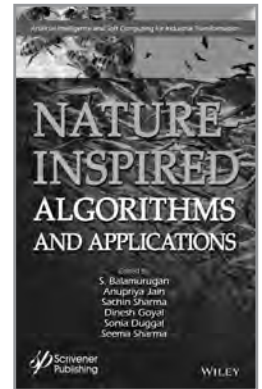
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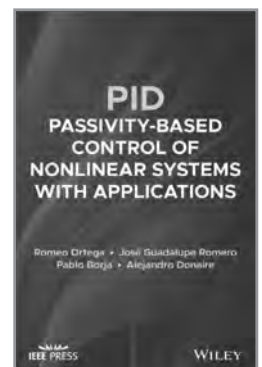


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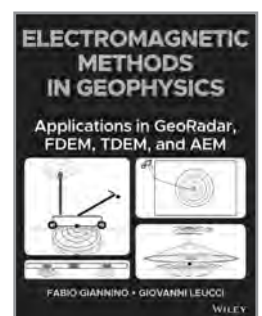
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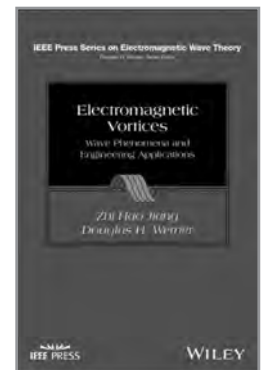
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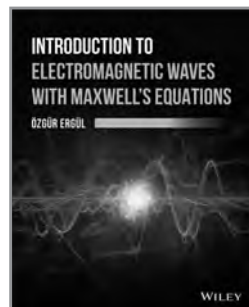
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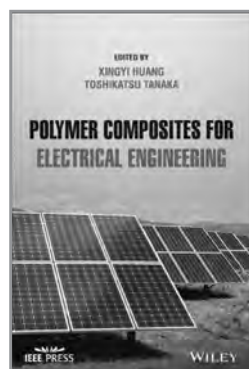
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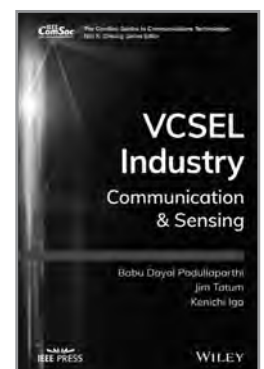
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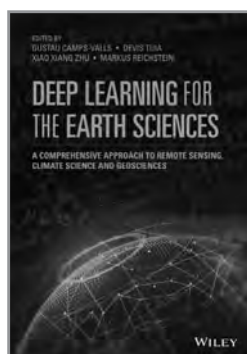
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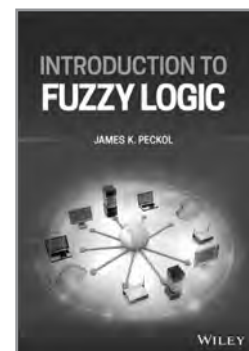


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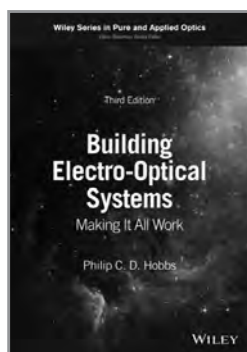
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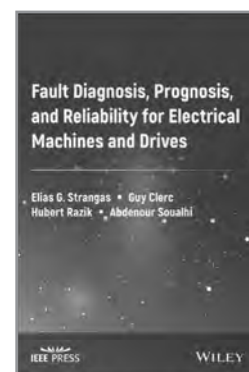


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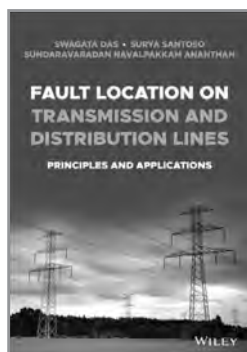
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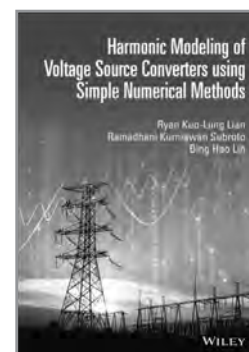


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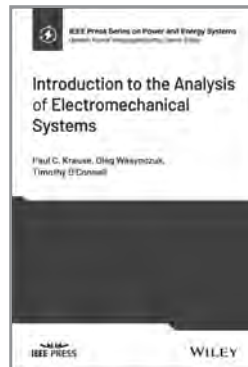
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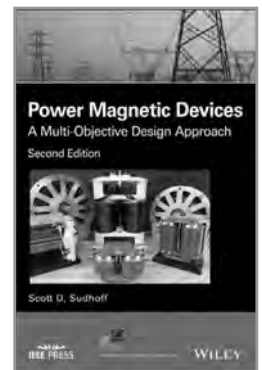
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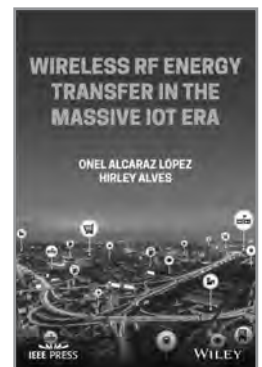


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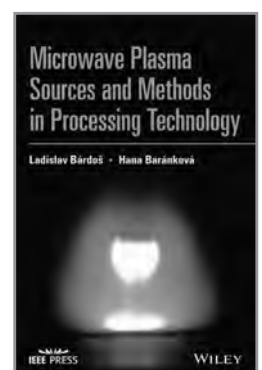


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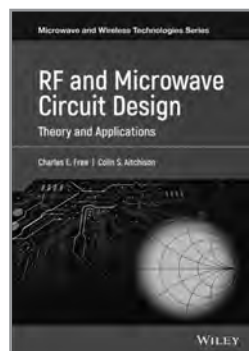
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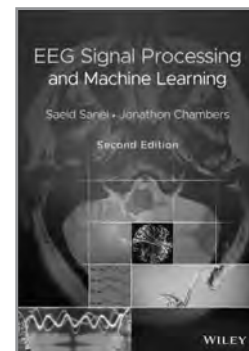
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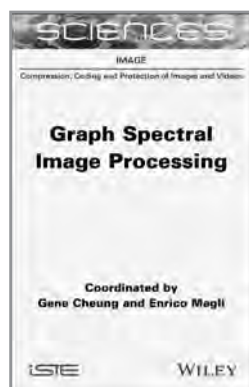
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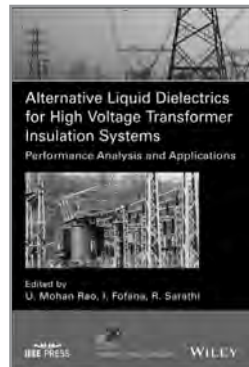
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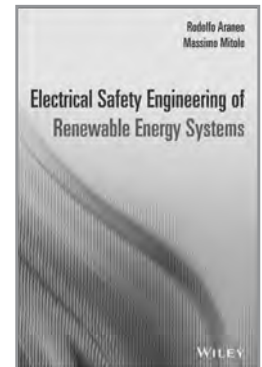


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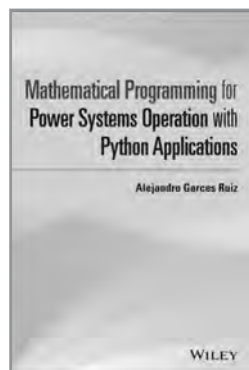


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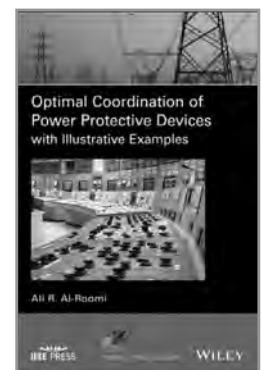


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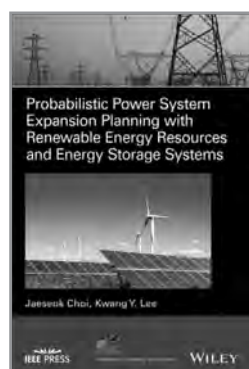


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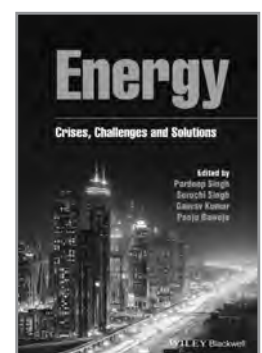
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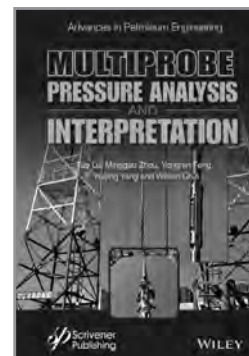
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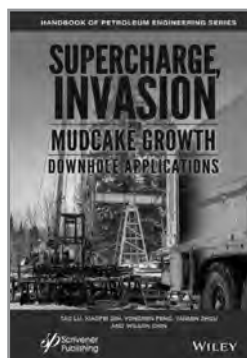


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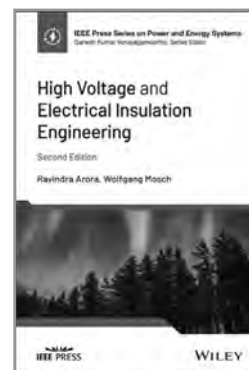


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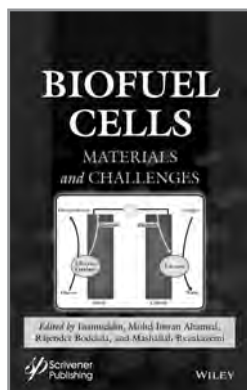
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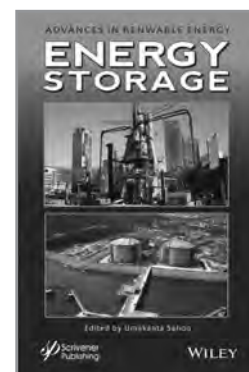


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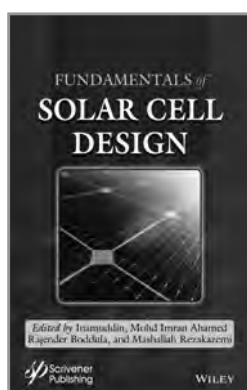


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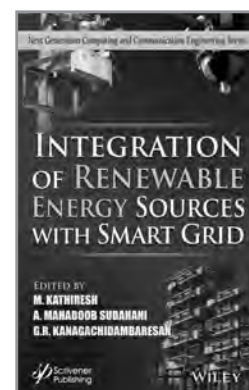


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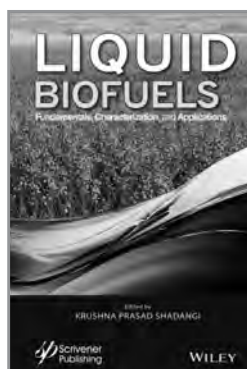
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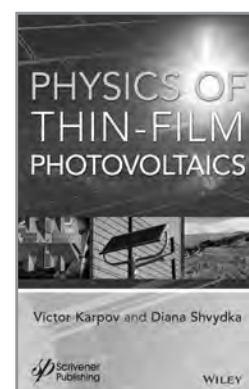


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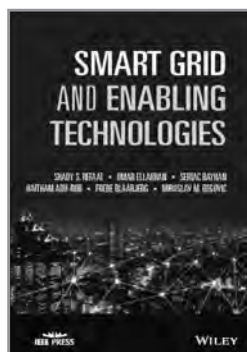


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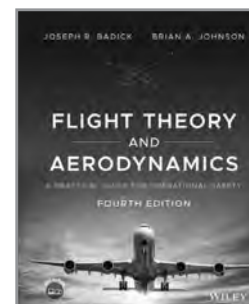
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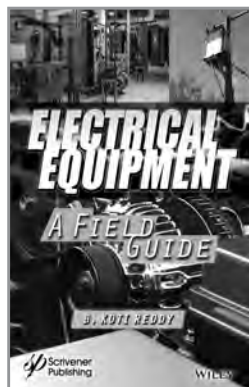
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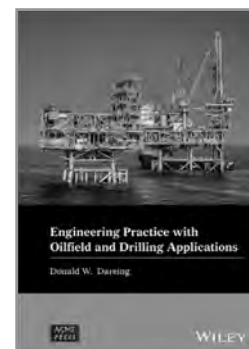


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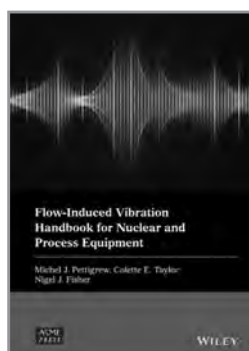


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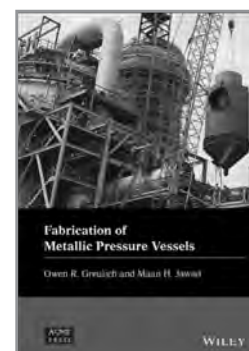


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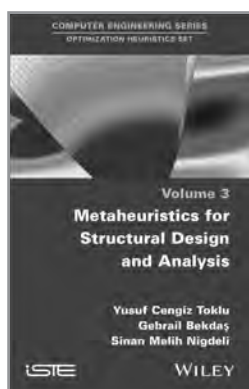


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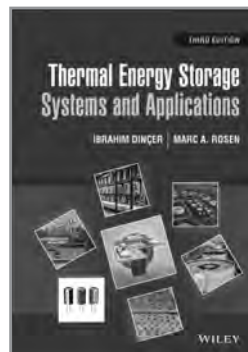


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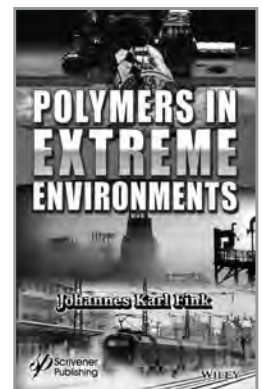
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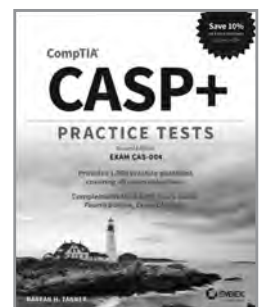
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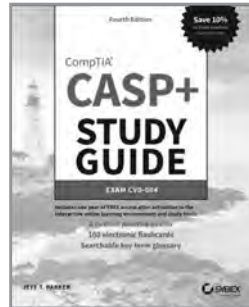
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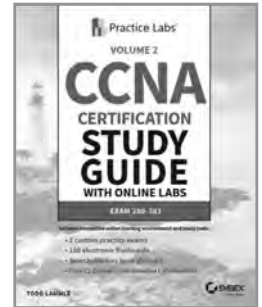
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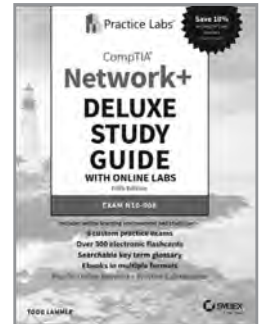
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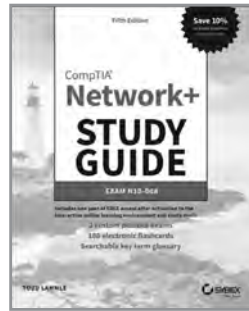
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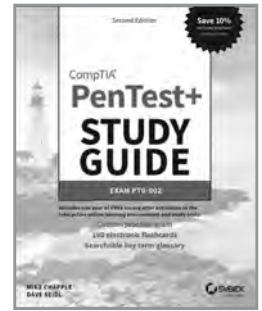
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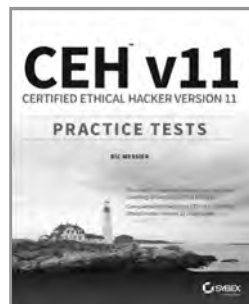
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