



Engineering & Computer Science

January to April 2023

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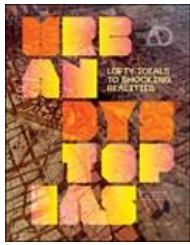
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Urban Dystopias: Lofty Ideals to Shocking Realities

J Burry

Guest-edited by Marcus White and Jane Burry

Cities are facing several coinciding global crises. There is the dominant existential narrative of the impact of and adaptation to climate change, itself powered by cities. In a time of unprecedented urbanisation and growth, resilient architecture and urbanism is needed in response. New modes of transport, renewed anxiety about robots taking jobs, AI, and the humbling recent experience of a global pandemic are all challenging norms and expectations. All of these are forces of social division, all are changing life experience, evoking strong-arm politi...

9781119833994
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136 pages • Paperback
Architecture



California Dreaming

N Spiller

9781119838357
Pub Date: 4/6/2023
\$37.50 USD
136 pages • Paperback



Healthcare Design Basics

Karlen

An approachable and robust treatment of designing and planning spaces for use in healthcare settings

In *Healthcare Design Basics*, a team of distinguished interior architecture practitioners and educators delivers an up-to-date text covering the critical aspects of healthcare design, preparing students for a specialty rapidly growing in importance and size. The book adopts an approach designed to crystalize the most important elements of broad range of ambulatory facilities for healthcare design students and new professionals in a clear, concise, and approachable way.

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Architecture



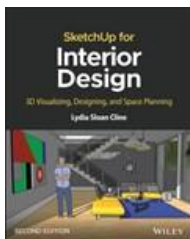
Building Futures: Technology, Ecology, and Architectural Practice

R Garber

An Approach to Building Information Modeling Addressing Social Issues, Environmental Concerns and Architectural Practice

Building Futures: Technology, Ecology, and Architectural Practice explores how architects, and the buildings and environments we create, can engage future realities, both abstract and readily understood. These range from climate change and public health to advanced ideas about manufacture and construction. The text demonstrates multiple and hybrid paths in which building information modeling (BIM) and outgrowth technological processes

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Architecture



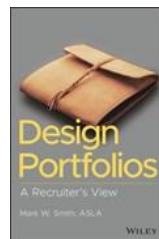
SketchUp for Interior Design: 3D Visualizing, Designing, and Space Planning (2nd Edition)

Lydia Sloan Cline

Practical guide addressing the specific needs of interior designers and explaining the latest features of the professional, subscription-based version of SketchUp.

SketchUp for Interior Design, Second Edition shows interior designers, interior architects, and students how to design and model with this software. How to create 3D models and space plans, furniture, cabinetry, accessories, experiment with colors and materials, import manufacturers' models, and make client presentations and animated walk-throughs are all covered in a step-by-step

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Pub Date: 2/22/2023
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Architecture



Design Portfolio: A Recruiter's View

Mark W. Smith

Unique perspective of a seasoned designer and veteran A/E industry recruiter regarding what design industry recruiters actually look for in a Design Portfolio

Design Portfolios: A Recruiter's View provides a student-friendly guide, written from the perspective of a designer and design industry recruiter, on what recruiters look for as they review a design portfolio. It shows students how to create a professional-quality portfolio that will get them to that all-important next step in the recruiting process—the interview.

Using a unique plan of action "The Four S's" the book

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Architecture: Form, Space & Order

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Make the World a Better Place: Design with Passion, Purpose, and Values



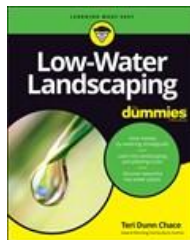
Upcycling Furniture & Home Decor For Dummies

Rom

Breathe new life into old furniture and thrift store finds

Upcycling Furniture For Dummies shows you how to revitalize old furniture, with just a little effort and imagination, and maybe a few coats of fresh paint. Upcycling furniture is affordable, good for the environment, and a whole lot of fun! This easy, step-by-step guide shows you how to get creative and put your own unique flair on your designs. You'll gain the knowledge and confidence you need to select items that are worth transforming or restoring and learn specific

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House & Home



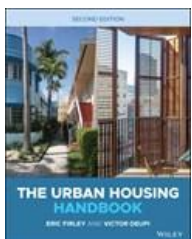
Low-Water Landscaping For Dummies

Chace

Say goodbye to water-guzzling lawns and create beautiful, landscape designs

Low-Water Landscaping For Dummies will teach you to preserve one of our most critical natural resources while simultaneously maximizing your curb appeal. Ditch wasteful, inefficient irrigation methods like sprinkler systems and learn how to embrace designs that save water. This book guides you through different styles of landscaping, introduces you to uniquely drought-tolerant plants, and provides solutions for even the trickiest terrains. You can break the cycle of constant watering, without sacrificing the relaxing at...

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Gardening



The Urban Housing Handbook (2nd Edition)

E Firley

An insightful and revealing look at the intersection of housing and urban design

In the newly revised Second Edition of *The Urban Housing Handbook*, distinguished scholars and architects Eric Firley and Victor Deupi deliver a vital design and analysis tool for housing practitioners, students, and researchers. The book outlines the characteristics of many of the most interesting and notable housing typologies, studied against a background of increasing densification.

The latest edition of the handbook offers graphic representations and analyses of more than 30 urban case studies from across the w

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Pub Date: 2/13/2023
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384 pages • Hardcover
Architecture



Medical Imaging

H. S. Sanjay, M. Niranjanamurthy

Medical imaging is one of the most important diagnostic tools in healthcare. More than 50% of the clinical market depends on diagnostic imaging to identify different pathological conditions in subjects. It is, therefore, essential for healthcare personnel and paramedical staff as well as the technicians and the supporting engineers to understand the basics of medical imaging. This subject is of utmost importance to every individual involved in the healthcare industry, right from research and development until application and service.

Medical Imaging presents the salient aspects of diagnostic im...

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Science

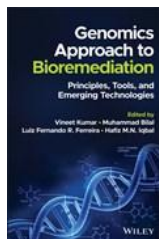
Multiscale Modelling in Biomedical Engineering

Dimitrios I. Fotiadis, Antonis I. Sakellarios, Vassiliki T. Potsika

Discover how multiscale modeling can enhance patient treatment and outcomes

In *Multiscale Modelling in Biomedical Engineering*, an accomplished team of biomedical professionals delivers a robust treatment of the foundation and background of a general computational methodology for multi-scale modeling. The authors demonstrate how this methodology can be applied to various fields of biomedicine, with a particular focus on orthopedics and cardiovascular medicine.

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Science



Genomics to Bioremediation: Principles, Applications, and Perspectives

Kumar

Provides insights into the various aspects of microbial genomics and biotechnology for environmental cleanup

In recent years, the application of genomics to biodegradation and bioremediation research has led to a better understanding of the metabolic capabilities of microorganisms, their interactions with hazardous and toxic chemical compounds, and their adaptability to changing environmental conditions.

Genomics to Bioremediation: Principles, Applications, and Perspectives provides comprehensive and up-to-date

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Technology & Engineering



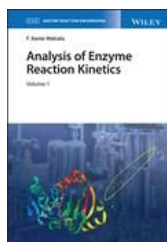
Adhesive Bonding Technology and Testing

LFM da Silva

Comprehensive resource that provides insight into the purpose and design of experiments for adhesive bonding, joint design and strength prediction

This book provides support for those practicing and teaching adhesive bonding and enables them to understand and design laboratorial courses and experiments. To aid in reader comprehension and information retention, a selected set of problems with corresponding solutions is included, which helps readers to develop a deep understanding of the subject matter. Written by five highly qualified professionals in the field of

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Analysis of Enzyme Reaction Kinetics, 2 Volume Set

F Malcata

Comprehensively introduces readers to modelling of rate of enzymatic reactions, including effects of physicochemical parameters

Analysis of Enzyme Reaction Kinetics is the second set in a unique eleven-volume collection on Enzyme Reactor Engineering. It describes rate expressions pertaining to enzymatic reactions, including modulation by physicochemical factors, as well as tools for prediction and control of how fast substrates are transformed to products. Volume 1 details rate expressions mathematically derived from mechanistic postulates, and is complemented by

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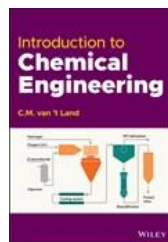
Simultaneous Mass Transfer and Chemical Reactions in Engineering Science

Bertram K. C. Chan

A comprehensive look at the basic science of diffusional process and mass transfer

Mass transfer as a principle is an essential part of numerous unit operations in biomolecular, chemical, and process engineering; crystallization, distillation, and membrane separation processes, for example, use this important method. Given this significance—particularly in engineering design where these processes occur—understanding the design and analysis of such unit operations must begin with a basic understanding of how simultaneous mass transfer and the chemical reactions

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Introduction to Chemical Engineering: A Practical Guide

C. M. van't Land

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, safety, etc.), and scientists of all varieties. Introduction to

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640 pages • Hardcover
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Simulations in Bulk Solids Handling: Applications of DEM and other Methods

Don McGlinchey

Valuable resource for engineers and professionals dealing with bulk granular or powdered materials across industries using Discrete Element Methods (DEM)

In many traditional university engineering programmes, no matter whether undergraduate or postgraduate, the behavior of granular materials is not covered in depth or at all. This omission leaves recent engineering graduates with little formal education in the major industrial area of bulk solids handling. This book teaches young professionals and engineers to find appropriate solutions for handling

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Applied Mathematics And Modeling For Chemical Engineers, Third Edition

Rice

9781119833857
Pub Date: 1/1/2024
\$140.95 USD
448 pages • Hardcover

Applied Mathematics and Modeling for Chemical Engineers, Solutions Manual (3rd Edition)

Richard G. Rice, Duong D. Do, James E. Maneval

This book is a Solutions Manual to accompany *Applied Mathematics and Modeling for Chemical Engineers*, Third Edition. There are many examples provided as homework in the original text and the solution manual provides detailed solutions of many of these problems that are in the parent book *Applied Mathematics and Modeling for Chemical Engineers*, Third Edition.

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508 pages • Paperback
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Chemical Product Design and Formulation: Methods, Techniques, and Case Studies

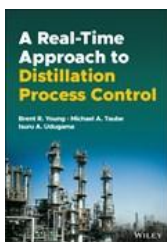
A Elkamel

Explore the cutting-edge in chemical product formulation and design

In *Chemical Product Design and Formulation: Methods, Techniques, and Case Studies*, a team of renowned technologists and engineers delivers a practical guide to chemical product design. Offering real-world case studies for pesticide formulation, the optimization of defined media, and the formulation of biocomposites, the book contains introductions to the current product design process.

In addition to the background of related statistical

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224 pages • Hardcover
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A Real-time Approach to Distillation Process Control

Brent R. Young, Michael A. Taube, Isuru A. Udugama

This book is a practical text incorporating hands-on or active learning using process simulation. The topics and their treatment are relevant to today's engineer providing them with the fundamental knowledge and tools to apply to modern distillation control. Unlike other texts that take a Laplace Transform or state-space-based approach this book presents a balanced real-time approach with a good mix of fundamentals and practical insights. The text includes numerous exercises including up to date process simulation exercises. The process simulation exercises are designed to be simulator agnostic...

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Guidelines for Process Safety Knowledge Management

CCPS (Center for Chemical Process Safety)

This book contains guidelines for companies to improve their process safety performance through the implementation of a Process Safety Knowledge Management (PSKM) system. The book defines the characteristics of a PSKM system as well as guidelines on how to set a PSKM system to improve overall Process Safety performance. The underlying factors for success are presented which include leadership, employee involvement, and organizational culture with case studies used to illustrate key points and learnings. The book also contains new perspectives on PSKM and describes how to

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Guidelines for Process Safety in Chemical Laboratories and Pilot Plants

CCPS (Center for Chemical Process Safety)

This book provides guidance on "what" can be done from a management systems perspective to identify hazards and manage risks of "loss of containment" events in chemical laboratories and pilot plants. It provides examples of "how to" implement such practices and descriptions of a range of typically encountered process safety hazards typical controls based on current best practices.

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Science

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Principles of Infrastructure Systems Management

Zhanmin Zhang

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Technology & Engineering

Modularization: A Strategic Guide to Offsite Preassembly

Kluck

A practical, hands-on guide to offsite preassembly, beginning with the project as just a concept gleam in the CEO's eye and winding all the way through implementation at the construction site.

Modularization is a philosophy change! And along with that change, comes the need to understand the implementation requirements and project mindset adjustments that impact and influence all aspects of the modular project. To accomplish this, the book provides a complete (from beginning to end) identification and evaluation of the differences that make a modular project

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Guide to the FIDIC Conditions of Contract for Construction: The Red Book 2017

MD Robinson

Enables readers to easily understand the contract to enable better compliance and efficiency

Guide to the FIDIC Conditions of Contract for Construction: The Red Book 2017 helps the reader overcome some of the difficulties encountered on a typical international construction project using the FIDIC Construction Contract 2nd Edition (the 2017 Red Book), by summarizing the activities and duties of those involved, and crystallizing the requirements of the contract. To aid in reader comprehension, the text explains clauses in the sequence they appear in the contract, but also in the order they

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180 pages • Hardcover
Law

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Practical Guide to Diagnosing Structural Movement in Buildings (2nd Edition)

Malcolm Holland

Concise and readable practitioner focused guide to diagnosing the causes of cracks and movement in buildings

The expanded and updated Second Edition of *Practical Guide to Diagnosing Structural Movement in Buildings* shows how movement can manifest as cracking in the building fabric and provides a rigorous, structured approach to understanding the evidence to ensure the surveyor can confidently diagnose the cause and impact of any structural movement they encounter.

The book is written in four parts, with part one describing



Barry's Advanced Construction of Buildings

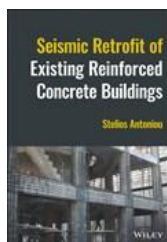
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Barry's Introduction to Construction of Buildings

S Emmitt

9781119730996
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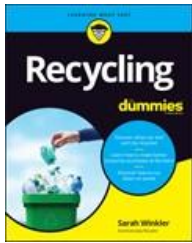
Seismic Retrofit of Existing Reinforced Concrete Buildings

Antoniou

Understand the complexities and challenges of retrofitting building infrastructure

All across the world, buildings are gradually becoming structurally unsound. Many were constructed before seismic load capacity was a mandatory component of building standards, often built with low-quality materials or using unsafe construction practices. Many more are simply aging, materials degrading, steel corroding. As a result, global efforts are ongoing to retrofit existing structures, and to develop new techniques for assessing and enhancing seismic load capacity in order to create a safer

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Recycling For Dummies

Winkler

Reduce, Reuse, and Recycle with For Dummies

Do you toss your used plastic utensils into the recycling bin? Is a greasy pizza box fit to recycle? The correct answer to both questions is no, but according to Waste Advantage Magazine, 62% of Americans worry that they're recycling incorrectly due to a lack of knowledge. In fact, more than half of the respondents answered yes to recycling both items above. If you've got blue bin fear, *Recycling For Dummies* is here! It's packed with helpful, clear information so you'll understand what can and cannot be recycled, and why. You'll make sense of all the ...

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Self-Help

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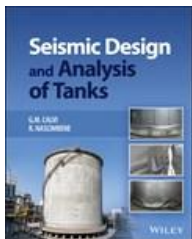
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Technology & Engineering

Reliability Evaluation of Dynamic Systems Excited in Time Domain

Haldar

Multi-disciplinary approach to structural reliability analysis for dynamic loads offering a practical alternative to the random vibration theory

Reliability Evaluation of Dynamic Systems Excited in Time Domain is a multi-disciplinary guide that enables readers to solve problems they could not solve in the past by presenting reliability analysis procedures for seismic, wave, and thermo-mechanical loadings, addressing both statically and dynamically applied loadings in time domain, and allowing practitioners to perform hundreds of finite element method (FEM) deterministic analyses to extract



Seismic Design and Analysis of Tanks

Calvi

A detailed view on the effects of seismic activity on tank structures

As the use of aboveground and underground storage tanks (ASTs and USTs) continues to grow—with approximately 545 thousand in the US alone—the greatest threat to from AST and USTs is the contamination of groundwater, a vital source of drinking water throughout the world and one that close to half of Americans rely upon. These tanks suffer a great deal of strain during an earthquake, as a complicated pattern of stress affects them such that poorly designed tanks have leaked, buckled, or even collapsed during seismic events. Fur...

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High-speed Railway Bridges: Concept Design Guideline

J Romo

Due to increasing traffic flows the extension of infrastructure with rail roads and high-speed lines is an ongoing process worldwide. This book is a comprehensive manual for the structural design of HSR bridges, incl. deck typologies and bearing devices. With worked examples.

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High-speed Railway Bridges, (incl. ebook as PDF): Concept Design Guideline

Jose Romo

Due to increasing traffic flows the extension of infrastructure with rail roads and high-speed lines is an ongoing process worldwide. This book is a manual for the structural design of HSR bridges, incl. deck typologies and bearing devices. With examples. (incl. ebook as PDF)

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Technology & Engineering

Composite Construction in Steel and Concrete

M Knobloch

This book summarizes the state-of-the-art in composite construction worldwide, as presented and discussed at the 9th International Conference on Composite Construction in Steel and Concrete. The contributions further the understanding and application of innovative structures.

Reverse Osmosis: Industrial Processes and Applications (3rd Edition)

Jane Kucera

The latest edition of the leading reference on reverse osmosis processes and applications in industry In the newly revised 3rd edition of *Reverse Osmosis: Industrial Processes and Applications*, veteran engineer Jane Kucera delivers a comprehensive and updated discussion of reverse osmosis processes and applications used in a wide variety of industries. The book explores the fundamentals of reverse osmosis technology principles as well as the more advanced engineering concepts required to engineer and design a reverse osmosis system from the ground up. From the history of reverse osmosis and ba...

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Compendium Deep Foundation, Part 2: Soil Improvement: Processes, Equipment, Applications, IT-Solutions

Liebherr-Werk Nenzing GmbH

The *Compendium Deep Foundation* (volumes I and II) has developed in a short time into the standard reference work in the field of deep foundation processes and machinery. The progressive development and innovation in process technology and machinery in recent years provided the impetus for the publication of a completely new reference book, the *Compendium Deep Foundation*. Numerous descriptive illustrations, high-quality renderings, and on-site photos supplement the descriptive text and should assist the understanding of the reader. The

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Technology & Engineering

Blockchain Technology and Big Data Analytics

Raghvendra Kumar, Brojo Kishore Mishra

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Computers

Emerging Artificial IoT Technologies: Security and Communication in Industrial Applications

Kanta Prasad Sharma, Dac-Nhuong Le, Nitish Pathak

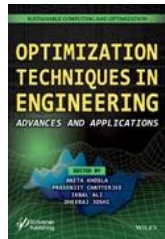
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Computers

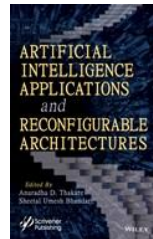
Optimization Techniques in Engineering: Advances and Applications

Anita Khosla, Prasenjit Chatterjee, Ikbal Ali, Dheeraj Joshi

The aim of this book is to present some of the recent developments in the area of optimization theory, methods, and applications in engineering. It focuses on the metaphor of the inspired system and how to configure and apply the various algorithms. The book is organized into two parts: Part I – Soft Computing and Evolutionary-Based Optimization; and Part II – Decision Science and Simulation-Based Optimization, which contains



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Computers

Artificial Intelligence Applications and Reconfigurable Architectures

Thakare

This book covers the features of modern Field Programmable Gate Arrays (FPGA) devices, design techniques and successful implementations pertaining to AI applications. It describes various hardware options available for AI applications, key advantages of FPGAs, contemporary FPGA ICs with software support. The focus is on exploiting parallelism offered by FPGA to meet heavy computation requirements of AI as complete hardware implementation or customized hardware accelerators. This is a comprehensive text book on the subject covering broad array of topics like technological platforms for

Swarm Intelligence: An Approach from Natural to Artificial

Kaswan

Over the past two decades, swarm intelligence has emerged as a powerful approach to solving optimization as well as other complex problems. Swarm intelligence models are inspired by social behaviors of simple agents interacting among themselves as well as with the environment, e.g., cat swarm, crow search, elephant herding, foraging of bees and ants. The collective behaviors that emerge out of the interactions at the colony level are useful in achieving complex goals.

The main aim of this book is to present a sample of recent innovations and advances in techniques and swarm

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Computers

Agile Software Development: Trends, Challenges and Applications

Susheela Hooda, Vandana Mohindru Sood, Yashwant Singh, Sandeep Dalal, Manu Sood

This book explores the theoretical as well as the technical research outcomes on all the aspects of Agile Software Development by using various methods, principles, artificial intelligence, soft computing, machine learning.

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AI for Retail: A Practical Guide to Modernize Your Retail Business Through Automation

Francois Chaubard

AI for Retail is a practical guide for how to integrate AI into brick-and-mortar retail practices to make businesses more efficient. It will start with the three common answers to "what is the future of retail?" and why they are wrong: nothing will change, Amazon Go will take over traditional stores, and there will no longer be grocery stores. What's the right answer? Traditional retail businesses need to use AI to automate all back-office, self-checkout, curbside, and delivery processes.

Large companies like Amazon have mandated that every manager in their business, HR, accounting, and product...

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Not with a Bug, But with a Sticker: Attacks on Machine Learning systems and what to do about them

Ram Shankar Siva Kumar, Hyrum Anderson

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AI systems have become a key technology to automate

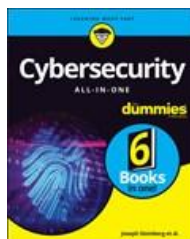
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M. Z. Naser

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Joseph Steinberg, Kevin Beaver, Ira Winkler, Ted Coombs

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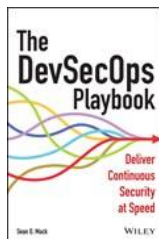
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Shostack

Secure your applications with help from your favorite Jedi masters

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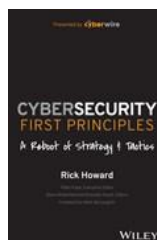
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The DevSecOps Playbook: Deliver Continuous Security at Speed

Mack

A must-read guide to a new and rapidly growing field in cybersecurity

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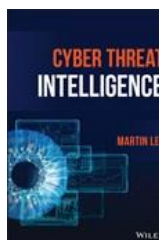
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Rick Howard

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Rishabh Garg

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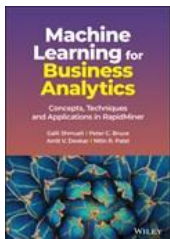
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Prashanth Southekal

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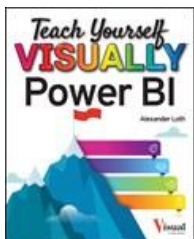
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Joe Minichino

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Alexander Loth

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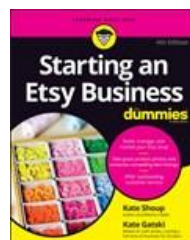
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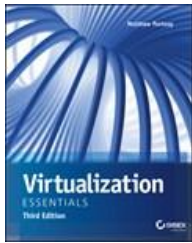
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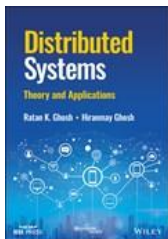
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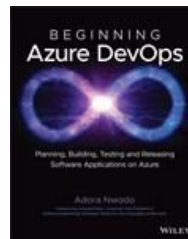
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Distributed Computing: Theory and Applications is organized around three aspects of distributed systems: networks, middleware tools, and applications. It presents architectural uniform methods to implement a distributed shared memory system for realization data consistency models suited to distributed applications' requirements. To aid in understanding how these concepts apply to real-world situations, the work illustrates topics with

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Beginning Azure DevOps: Planning, Building, Testing and Releasing Software Applications on Azure

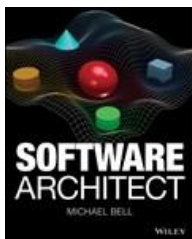
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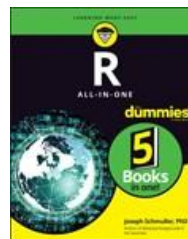
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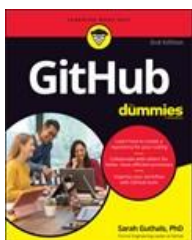
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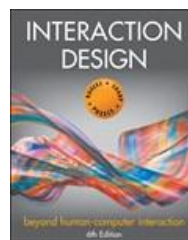
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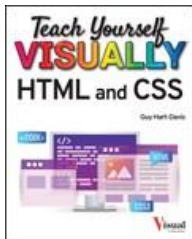
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Guy Hart-Davis

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Computer Science for Kids: A Storytelling Approach

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Web Development for Kids shows young readers (ages 11+) how to effectively build for the web through colorful illustrations and standards-based learning activities. Web development involves three main areas of expertise: HTML, CSS, and JavaScript. This book covers all three areas in concise detail as well as illustrates how each one works together to build effectively.

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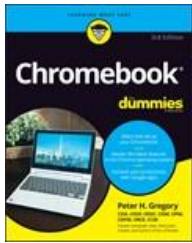
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Teach Yourself Visually Photoshop Elements 2023

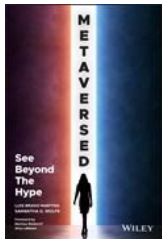
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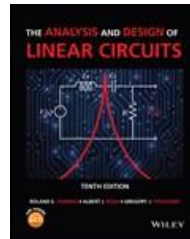
Metaversed: See Beyond The Hype

Luis Bravo Martins, Samantha G. Wolfe, Martina Welkhoff, Amy LaMeyer

Understand the coming metaverse—and discover how to look past the hype and harness the future of technology.

Metaversed is an insightful discussion and analysis of the next, rapidly approaching technological revolution. The authors deliver a compelling new exploration of how the metaverse and emerging technologies combine to define our collective future. In addition to identifying the business opportunities, the book pulls back the curtain on major safety and privacy issues that will arise and the expected shifts in both our private and social spheres.

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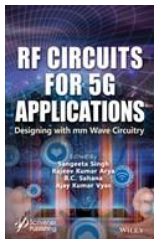
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Singh

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Steve Shellhammer, Alfred Asterjadhi, Yanjun Sun

Discover the latest developments in IEEE 802.11ba and Wake-up Radios

In *IEEE 802.11ba: Ultra-Low Power Wake-up Radio Standard*, expert engineers Drs. Steve Shellhammer and Alfred Asterjadhi deliver a detailed discussion of the IEEE 802.11ba standard. The book begins by explaining the concept of a wake-up radio (WUR) and how it fits into the overall 802.11 standard, as well as how a WUR saves power and extends battery life.

The authors go on to describe the MAC layer in detail and then talk about the various protocols used to negotiate

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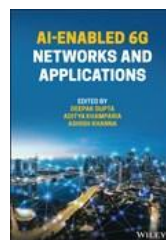
Securing Delay-Tolerant Networks with BPSec

Edward J. Birrane, III, Sarah Heiner, Ken McKeever

Securing Delay-Tolerant Networks with BPSec answers the question how can delay-tolerant networks be secured when operating in environments that would otherwise break many of the common security approaches used on the terrestrial Internet today. This book is decomposed into three sections: (1) security considerations for delay-tolerant networks, (2) the design, implementation, and customization of the BPSec protocol, and (3) how this protocol can be applied, combined with other security protocols, and deployed in an example case study

The first section presents the challenges of securing

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AI-Enabled 6G Networks and Applications

D Gupta

Provides authoritative guidance on utilizing AI techniques in 6G network design and optimization

Written and edited by active researchers, this book covers hypotheses and practical considerations and provides insights into the design of evolutionary AI algorithms for 6G networks, with focuses on network transparency, interpretability and simulatability for vehicular networks, space systems, surveillance systems and their usages in different emerging engineering fields.

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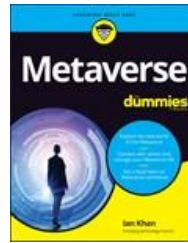
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Dwight Spivey

All the info you want about Apple Watch, and none of the fluff you don't

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Metaverse For Dummies

Ian Khan

Your first step to understanding what the metaverse is all about

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5G Backhaul and Fronthaul

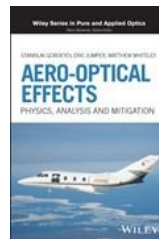
E. Metsälä

In-depth coverage of all technologies required for deployment and further evolution of 5G mobile network backhaul and fronthaul

In *5G Backhaul and Fronthaul*, a team of communications technology experts deliver an up-to-date and technical discussion of 5G backhaul and fronthaul, preparing readers for the deployment of 5G technologies. In the book, the editors extensively cover the technologies essential to 5G mobile network backhaul and fronthaul. They also offer views of further 5G backhaul and fronthaul evolution.

5G Backhaul and Fronthaul covers both general interest

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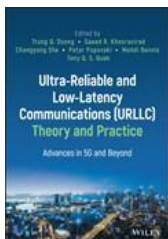
Aero-Optical Effects: Physics, Analysis and Mitigation

Stanislav Gordeyev, Eric Jumper, Matthew Whiteley

Explore the newest techniques and technologies used to mitigate the effects of air flow over airborne laser platforms

Aero-Optical Effects: Analysis and Mitigation delivers a detailed and insightful introduction to aero-optics and fully describes the current understanding of the physical causes of aero-optical effects from turbulent flows at different speeds. In addition to presenting a thorough discussion of instrumentation, data reduction, and data analysis, the authors examine various approaches to aero-optical effect mitigation using both flow control and adaptive optics

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Ultra-Reliable and Low-Latency Communications (URLLC) Theory and Practice: Advances in 5G and Beyond

TQ Duong

Comprehensive resource presenting important recent advances in wireless communications for URLLC services, including device-to-device communication, multi-connectivity, and more

Ultra-Reliable and Low-Latency Communications (URLLC) Theory and Practice discusses the typical scenarios, possible solutions, and state-of-the-art techniques that enable URLLC in different perspectives from the physical layer to higher-level approaches, aiming to tackle URLLC's challenges with both theoretical and practical approaches.

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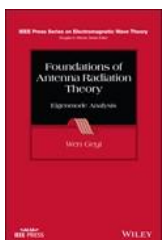
AI-enabled Cybersecurity and Privacy for Next-Generation Communications Management

Maleh

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Foundations of Antenna Radiation Theory: Eigenmode Analysis

Wen Geyi

Understand the theory and function of wireless antennas with this comprehensive guide

As wireless technology continues to develop, understanding of antenna properties and performance will only become more critical. Since antennas can be understood as junctions of waveguides, eigenmode analysis—the foundation of waveguide theory, concerned with the unexcited states of systems and their natural resonant characteristics—promises to be a crucial frontier in the study of antenna theory.

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Rashmi Agrawal, Ganesh Gopal Deverajan



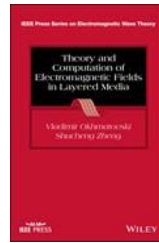
Flexible Flat Panel Displays (2nd Edition)

Darrian R. Cairns, Dirk J. Broer, Gregory P. Crawford

A complete treatment of the entire lifecycle of flexible flat panel displays, from raw material selection to commercialization

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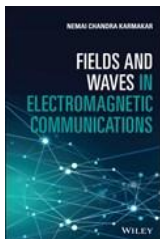
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Okhmatovski

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Nemai Chandra Karmakar

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Electromagnetism (EM) is a highly abstract and complex subject that examines how exerting a force on charged particles is affected by the presence and motion of adjacent particles. The interdependence of the time varying electric and magnetic fields—one producing the other, and vice versa—has allowed researchers to consider them as a single coherent entity: the electromagnetic field. Under this umbrella, students can learn about numerous

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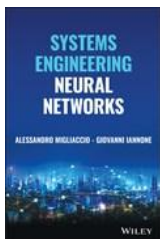


Intelligent Manufacturing Management Systems: Operational Applications of Evolutionary Digital Technologies in Mechanical and Industrial Engineering

Muduli

The concepts that pertain to the application of digital evolutionary technologies in the sphere of industrial engineering and manufacturing are presented in this book. A few chapters demonstrate stepwise discussion, case studies, structured literature review, rigorous experimentation results, and applications. Further chapters address the challenges encountered by industries in integrating these digital technologies into their operational activities, as well as the opportunities for this integration. In

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Systems Engineering Neural Networks

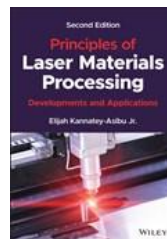
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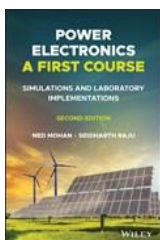
Principles of Laser Materials Processing: Developments and Applications (2nd Edition)

Elijah Kannatey-Asibu, Jr.

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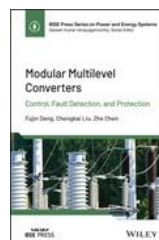
Ned Mohan, Siddharth Raju

Enables students to understand power electronics systems, as one course, in an integrated electric energy systems curriculum

Power Electronics A First Course provides instruction on the fundamental concepts related to power electronics to undergraduate electrical engineering students, beginning with an introductory chapter and moving on to discussing topics such as switching power-poles, switch-mode dc-dc converters, and feedback controllers.

The authors also cover diode rectifiers, power-factor-correction (PFC) circuits, and switch-mode dc power

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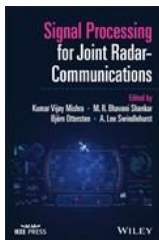
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Deng

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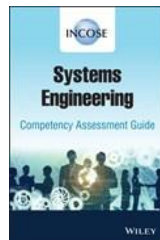


Signal Processing for Joint Radar Communications

Mishra

In the last five years, significant developments and applications have been made within radar communications. Signal Processing for Joint Radar-Communications delves into the recent advances within the theory and applications of joint radar-communications (JRC) and includes the challenges that are still faced today. Bringing together newly written expert contributions from leading researchers within the field of Joint Radar-Communications, the book tackles key JRC signal processing challenges such as common waveform design for both radar and communications systems, receiver

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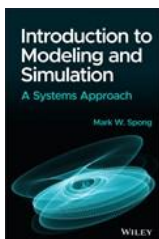
Systems Engineering Competency Assessment Guide

INCOSE, Clifford Whitcomb

Compilation of 37 competencies needed for systems engineering, with information for individuals and organizations on how to identify and assess competence

This book provides guidance on how to evaluate proficiency in the competencies defined in the systems engineering competency framework and how to differentiate between proficiency at each of the five levels of proficiency defined within that document. Readers will learn how to create a benchmark standard for each level of proficiency within each competence area, define a set of

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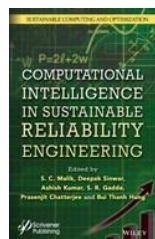
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An essential introduction to engineering system modeling and simulation from a well-trusted source in engineering and education

This new introductory-level textbook provides thirteen self-contained chapters, each covering an important topic in engineering systems modeling and simulation. The importance of such a topic cannot be overstated; modeling and simulation will only increase in importance in the future as computational resources improve and become more powerful and accessible, and as systems become more complex. This resource is a wonderful mix

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Computational Intelligence in Sustainable Reliability Engineering

Malik

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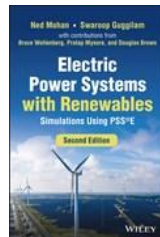
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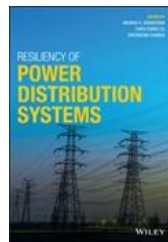
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In *The Technology of Discovery: Radioisotope Thermoelectric Generators and Thermoelectric Technologies for Space Exploration*, distinguished JPL engineer and manager David Woerner delivers an insightful discussion of how radioisotope thermoelectric generators (RTGs) are used in the exploration of space. It also explores their history, function, their market potential

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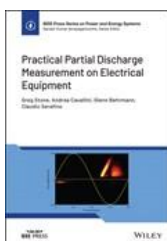
Resiliency of Power Distribution Systems

Anurag K. Srivastava, Chen-Ching Liu, Sayonsom Chanda

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Most resiliency and security guidelines for the power industry are focused primarily on power transmission systems. As renewable energy and energy storage increasingly replace fossil-fuel-based power generation over the coming years, however, 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 delivery of e...

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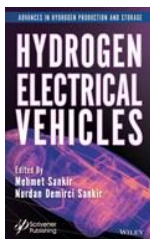
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Mehmet Sankir, Nurdan Demirci Sankir

The realization of the decision of 28 countries to keep global warming at 2 degrees and below, which is stated in the Paris Agreement, and the achievement of minimizing CO₂ emissions can only be accomplished by establishing a hydrogen ecosystem. A new geopolitical order is envisaged, in which sectors dealing with energy production, distribution, and storage and thus increasing carbon footprint are reconstructed. In short, an economic order with new tax regulations is being created in which the carbon footprint will be followed. This global effort called the "Green Deal" is defined as a new ...

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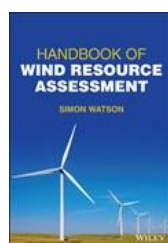
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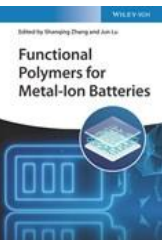
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S Watson

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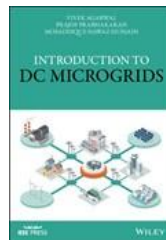


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V Agarwal

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Integration of Mechanical and Manufacturing Engineering with IoT: A Digital Transformation

Rajasekar

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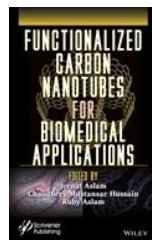
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Harold Kerzner

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As with the prior editions, *Project Management Best Practices, Fifth Edition* will contain valuable contributions and real world cases from leading global organizations on the implementation of project management. Real executive and PMO managers discuss what makes their project management processes succeed, and what it took to get there. The organizations included are of varying sizes and in all market sectors. Though the book follows the same lines as its predecessor as far as content goes, it offers updated information from companies covered in the earlier books along with contributions from ...

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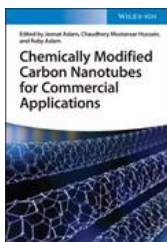


Functionalized Carbon Nanotubes for Biomedical Applications

Jeenat Aslam, Chaudhery Mustansar Hussain, Ruby Aslam

This book covers a broad range of topics relating to carbon nanotubes, from synthesis and functionalization to applications in advanced biomedical devices and systems. As they possess unique and attractive physical, chemical, optical, and even magnetic properties for various applications, considerable effort has been made to employ functionalized carbon nanotubes as new materials for the development of novel biomedical tools, such as diagnostic sensors, imaging agents, and drug/gene delivery systems for both diagnostics and clinical treatment.

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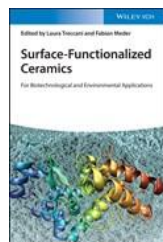
Chemically Modified Carbon Nanotubes for Commercial Applications

Jeenat Aslam, Chaudhery Mustansar Hussain, Ruby Aslam

Discover the go-to handbook for developers and application-oriented researchers who use carbon nanotubes in real products

Carbon nanotubes have held much interest for researchers since their discovery in 1991. Due to their low mass density, large aspect ratio, and unique physical, chemical, and electronic properties, they provide a fertile ground for innovation in nanoscale applications. The development of chemical modifications that can enhance the poor dispersion of carbon nanotubes in solvents and improve interactions with other materials have enabled

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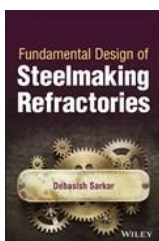
Surface-Functionalized Ceramics: For Biotechnological and Environmental Applications

L Treccani

Focused coverage of making and using functional ceramic materials for a wide variety of functions and practical applications

Surface-Functionalized Ceramics provides a comprehensive overview of ceramic surface functionalization approaches for ceramic materials, including alumina, zirconia, titania, and silica, and their uses as sensors, chemical, and biological probes, chromatographic supports for (bio)molecule purification and analysis, and adsorbents for toxic substances and pollutants. Overall, the text provides a broad picture of the

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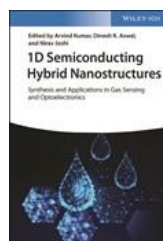


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Sarkar

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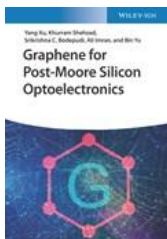
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A Kumar

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Yangsheng Xu

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Madhuri Sharon, A.H. Manikshete

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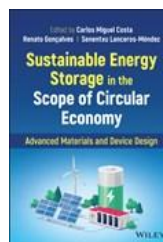


Advances in Biomedical Photonics

Zhenxi Zhang, Shudong Jiang, Buhong Li

From the basic theory of biomedical photonics to its application in the field of biomedical photonics, this book summarizes the current research hotspots, research ideas, applied technologies and methods, as well as the future development trend of biomedical photonics.

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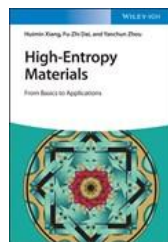
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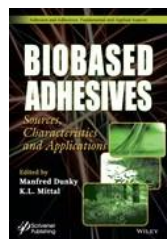
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Manfred Dunky, K. L. Mittal

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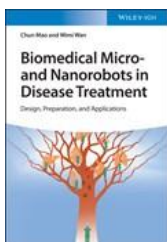
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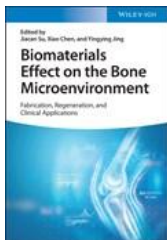
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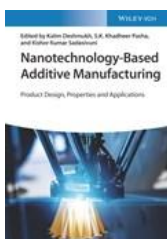
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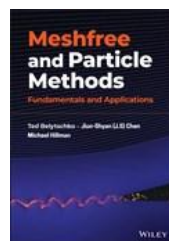
Thermal Energy Management in Vehicles

V Lemort

Thermal Energy Management in Vehicles comprehensively covers thermal energy management systems and components in vehicles. It covers four main areas: the thermal management of internal combustion engines; mobile air-conditioning; thermal management of hybrid electric vehicles and electric vehicles; and waste heat recovery on internal combustion engines. Simulation models are described and

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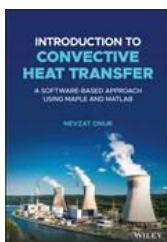
Ted Belytschko, Jason S. Chen, Michael Hillman

Provides thorough coverage of essential concepts and state-of-the-art developments in the field

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.

The authors provide detailed descriptions

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Introduction to Convective Heat Transfer: A Software-Based Approach Using Maple and MATLAB

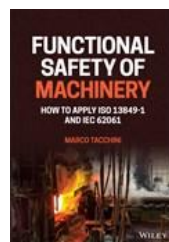
Nevzat Onur

A highly practical intro to solving real-world convective heat transfer problems with MATLAB and MAPLE

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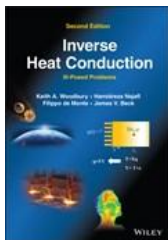
Functional Safety of Machinery: How to Apply ISO 13849-1 and IEC 62061

Marco Tacchini

Enables readers to understand ISO 13849-1 and IEC 62061 standards and provides a practical approach to functional safety in machinery design

Functional Safety of Machinery: How to Apply ISO 13849-1 and IEC 62061 introduces functional safety of machinery as a single unified approach, despite the existence of two standards. Aligning with the latest updates of ISO 13849-1 and IEC 62061, the book explains the intent behind the standards and the mathematical basis on which they are written, details the differences between the two standards, and prescribes ways to put

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Keith Woodbury, Hamidreza Najafi, Filippo de Monte, James V. Beck

The First Edition of *Inverse Heat Conduction: Ill-Posed Problems* has long been thought of as the "gold standard" on the topic. Now, in the long-awaited Second Edition, the leading experts in the field explain the latest inverse heat conduction problems in a way that is accessible and understandable for today's generation of engineers and researchers. In addition to discussing established IHCP techniques like the Stoltz method, Function Specification method, Tikhonov Regularization method, and Singular Value Decomposition method, the book has been thoroughly updated to encompass modern methods.

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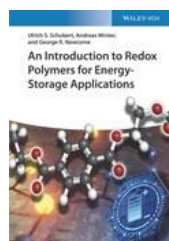
Functional Biomaterials: Design and Development for Biotechnology, Pharmacology, and Biomedicine, 2 Volumes

Tamilselvan Mohan, Karin Stana Kleinschek

A succinct handbook explaining interdisciplinary processing, methods, and applications of bio-based materials

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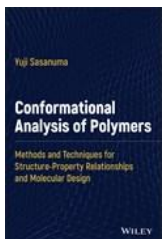


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US Schubert

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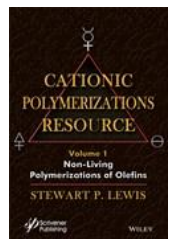
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Yuji Sasanuma

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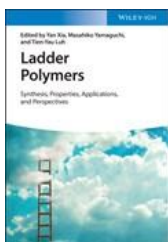


Cationic Polymerizations Guide, Volume 1: Non-Living Polymerization of Olefins

Stewart F. Lewis

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Yan Xia, Masahiko Yamaguchi, Tien-Yau Luh

An essential reference covering the latest research on ladder polymers

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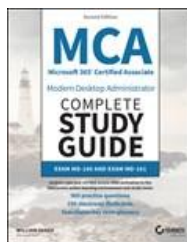
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Grafted Biopolymers as Corrosion Inhibitors: Safety, Sustainability, and Efficiency

Jeenat Aslam, Chandrabhan Verma, Ruby Aslam

This book highlights research and technology on sustainable grafted biopolymers as corrosion inhibitors and details their rapidly emerging features and future research prospects. Various grafted biopolymer types and mechanisms of protection are also discussed as directly related to their macromolecular weights, chemical composition, and unique molecular and electronic structures. State-of-the-art of science & engineering of corrosion and an in-depth and step-by-step description of knowledge on various corrosion systems and their involvement in modern industry are carried out throughout the book.

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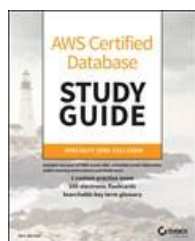
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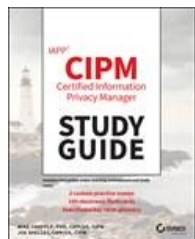
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Dan Sullivan

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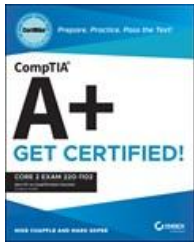
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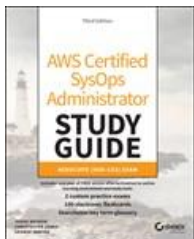
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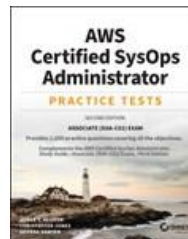
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