

A hand wearing a blue nitrile glove is shown in the upper right corner, reaching down towards a glowing, multi-colored digital interface. The interface consists of various lines, dots, and shapes in shades of blue, green, yellow, and red, suggesting a complex data visualization or a futuristic control panel. The background is a dark, deep blue with a subtle, large, light blue oval shape in the lower left quadrant.

Engineering & Computer Science

September to December 2022

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Beginnings of Interior Environments (12th Edition)

Lynn M. Jones, Heidi Plumb

The new edition of the leading textbook remains the gold standard for interior design education. In this twelfth edition of *Beginnings of Interior Environments*, established interior designer and professor Lynn M. Jones, ASID, IDEC collaborates with innovator Heidi Plumb, IIDA, IDEC, to deliver a practical and balanced overview of commercial and residential interior design. Written to offer coverage of the creative and technical characteristics of the profession, the text also addresses Council for Interior Design Accreditation (CIDA) content.

9781119828983
Pub Date: 10/11/2022
\$119.95 USD
704 pages • Paperback
Architecture



Serious Fun: The Art of Architecture

S Hardingham

Guest-edited by Samantha Hardingham

This issue of *AD* celebrates the extraordinary life and work of British architect Will Alsop (1947–2018) – a career and portfolio that is both literally and metaphorically steeped in colour. Characterised as a maverick architect, Alsop was in truth an individualist who was all for the collective, and a non-conformist. His design aim was to replace 'a little misery in the world with a little joy and delight'. Far from diminutive in ambition, many of his built projects caused big shifts in thinking about ways for citizens to perceive, occupy and enjoy their cities...

9781119833932
Pub Date: 11/21/2022
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136 pages • Paperback
Architecture



Building Codes Illustrated: The Basics: The Basics

Francis D. K. Ching, Steven R. Winkel

A visual introduction to the fundamentals of the 2021 International Building Code

In *Building Codes Illustrated: The Basics*, architectural illustration expert Francis D.K. Ching and California architect and engineer Steven R. Winkel deliver a concise visual introduction to the 2021 International Building Code (IBC) distilled from the industry bestseller *Building Codes Illustrated*. With clear language and Frank Ching's distinctive illustrations, the book offers readers a sound understanding of the foundations of the IBC.

The authors cover only the most relevant topics and have

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\$50.95 USD
416 pages • Paperback
Architecture



Home Decorating For Dummies (3rd Edition)

Patricia Hart McMillan, Katharine Kaye McMillan

Want to be your own decorator? Design on a dime with Dummies!

Home Decorating For Dummies packs all the information you need to know about décor into one easy-to-read source. Whether you want to decorate one room or make over the whole house, this book has everything you need to design like a pro. This is the only reference you'll need to transform your home into a space you'll love. Dummies offers no-nonsense help, so you can plan perfect projects and stay within budget. Updated with the latest on smart homes, short-term rentals, DIY décor, and more.

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Pub Date: 12/8/2022
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House & Home



The Urban Housing Handbook (2nd Edition)

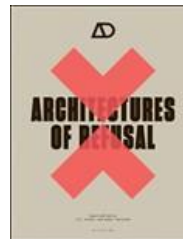
Eric Firley, Victor Deupi

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 world.

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Architecture



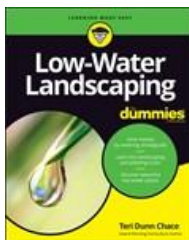
Architectures of Refusal

Jill Stoner, Ozayr Saloojee

Guest-edited by Jill Stoner and Ozayr Saloojee

Over the past decade, and in a more concentrated form over the past two years, there has been increasing recognition of architecture's systemic complicity in constructing and upholding hierarchies of race and class, and privileging colonial paradigms that perpetuate spatial and economic inequity. This *AD* issue reveals how designers, practitioners, scholars and architects are participating in dismantling the major canons of Western architecture. The work is both literal and figural: taking buildings apart and reconstituting them, and challenging myth...

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136 pages • Paperback
Architecture



Low-Water Landscaping For Dummies

Teri 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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Pub Date: 1/12/2023
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Gardening



Winter's Biomechanics and Motor Control of Human Movement (5th Edition)

Stephen J. Thomas, Joseph A. Zeni, David A. Winter

[HEADLINE]

An In-Depth Resource for Understanding the Foundational Concepts and Clinical Applications in the Field of Biomechanics [BODY COPY]

Winter's Biomechanics and Motor Control of Human Movement is highly suitable as a textbook for today's biomechanics students who may come from many diverse academic programs and professional sectors. The work covers foundational theoretical and mathematical concepts in biomechanics, as well as up-to-date data collection, interpretation, and storage techniques. It also highlights

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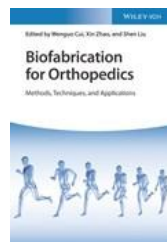
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Science

Introduction to Biomedical Imaging (2nd Edition)

Andrew Webb

A state-of-the-art exploration of the foundations and latest developments in biomedical imaging technology

In the newly revised second edition of *Introduction to Biomedical Imaging*, distinguished researcher Dr. Andrew Webb delivers a comprehensive discussion of the fundamentals and applications of the four primary medical imaging techniques: x-ray and computed tomography, nuclear medicine, ultrasound, and magnetic resonance imaging. Each chapter explains the physical principles, instrument design, data acquisition, image reconstruction,



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656 pages • Hardcover
Science

Biofabrication for Orthopedics, 2 Volumes: Methods, Techniques and Applications

Wenguo Cui, Xin Zhao, Sheng Liu

A comprehensive overview of biofabrication techniques for orthopedics and their novel applications

With an ever-increasing global population and the rise in the occurrence of orthopedic diseases amongst an aging population, it is essential for technological advances to meet this growing medical need. Orthopedic biofabrication is a cutting-edge field that seeks to produce novel clinical solutions to this mounting problem, through the incorporation of revolutionary technologies that have the potential to not only transform healthcare, but also provide

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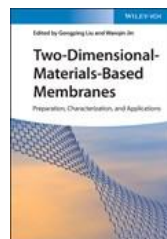
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Science

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.



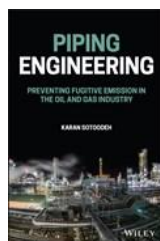
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G Liu

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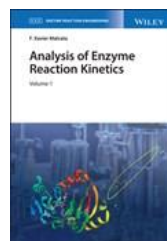
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Karan Sotoodeh

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F. Xavier Malcata

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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



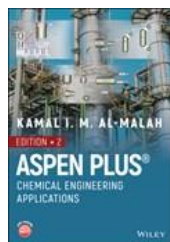
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Managing Engineering, Procurement, Construction, and Commissioning Projects: A Chemical Engineer's Guide

Avinashkumar V. Karre

An invaluable real-world guide to managing large-scale and complex Engineering, Procurement, Construction and Commissioning (EPCC) projects

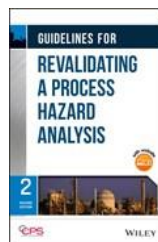
Engineering, Procurement, Construction and Commissioning (EPCC) infrastructure projects require engineers from several disciplines to adhere to strict budgetary, scheduling, and performance parameters. Chemical engineers involved in EPCC projects are involved primarily in ensuring that the process plant is designed



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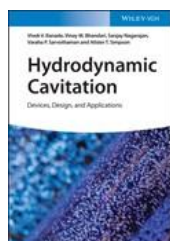
Guidelines for Revalidating a Process Hazard Analysis (2nd Edition)

CCPS (Center for Chemical Process Safety)

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This book is derived from the experience of many companies in the chemical and hydrocarbon processing industries, and presents demonstrated, concise, and common sense approaches for a resource-effective revalidation of process hazard analyses (PHAs). It includes flowcharts, checklists, and worksheets that provide invaluable assistance to the revalidation process.

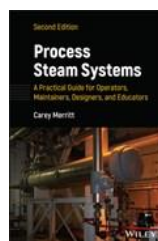
The new edition, now as a guideline, provides a complete and thorough update of the first book and will provide much needed and requested guidance on PHA Revalidations including evaluating Prior PHA Studies,



Hydrodynamic Cavitation – Devices, Design and Applications

VV Ranade

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Carey Merritt

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A comprehensive and accessible handbook for process steam systems

The revised second edition of *Process Steam Systems: A Practical Guide for Operators, Maintainers, Designers, and Educators* delivers a practical guide to ensuring steam systems are properly and efficiently designed, operated, and maintained. The book provides comprehensive information designed to improve process steam system knowledge, reliability, and integration into current manufacturing processes.



Chemical Product Design and Formulation: Methods, Techniques, and Case Studies

Ali Elkamel, Hesham Alhumade, Navid Omidbakhsh, Keyvan Nowruz, Thomas Duever

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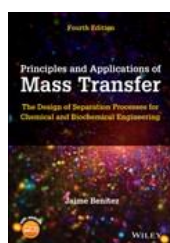
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Role of Microbes in Industrial Products and Processes

Sanjay Kumar, Narendra Kumar, Shahid Ul-Islam

Role of Microbes in Industrial Products and Processes covers recent breakthroughs and highlights the major role microbes play in industrial products and processes. It mainly focuses on the bio-refinery concept where bio-energy production and wastewater treatment are done simultaneously using micro-algae. Additionally, this book describes the role of microbes involved in the production of various enzymes, organic acids, and bio-polymers. It also provides the detailed insight on modelling and simulation of bioprocess for the production of sugar alcohol, and recovery of value-added products.



Principles of Mass Transfer: The Design of Separation Processes for Chemical and Biochemical Engineering (4th Edition)

Jaime Benitez

This textbook teaches the subject of mass transfer fundamentals and their applications to the design of separation processes. The level of presentation of the concepts is easy to follow by the reader, but with enough depth of coverage to guarantee that students using the book will, at the end of the course, be able to specify preliminary designs of the most common separation process equipment.

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Computational Methods for Reinforced Concrete Structures: Theory and Applications (2nd Edition)

Ulrich Haussler-Combe, Mark Alexander Ahrens, Peter Mark

Concrete is by far the most used building material due to its advantages: it is shapeable, cost-effective and available everywhere. Combined with reinforcement it provides an immense bandwidth of properties and may be customized for a huge range of purposes. Thus, concrete is the building material of the 20th century. To be the building material of the 21st century its sustainability has to move into focus. Reinforced concrete structures have to be designed expending less material whereby their load

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Concrete is by far the most used building material due to its advantages: it is shapeable, cost-effective and available everywhere. Combined with reinforcement it provides an immense bandwidth of properties and may be customized for a huge range of purposes. Thus, concrete is the building material of the 20th century. To be the building material of the 21st century its sustainability has to move into focus. Reinforced concrete structures have to be designed expending less material whereby their load carrying potential has to be fully utilized. Computational methods such as Finite Element Method...

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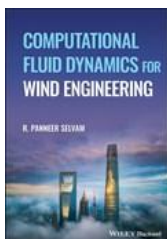
Advanced Concrete Technology (2nd Edition)

Zongjin Li, Xiangming Zhou, Hongyan Ma, Dongshuai Hou

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A thorough grounding in the science of concrete combined with the latest developments in the rapidly evolving field of concrete technology

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Computational Fluid Dynamics for Wind Engineering

Selvam

COMPUTATIONAL FLUID DYNAMICS FOR WIND ENGINEERING
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Designing Intelligent Construction Projects

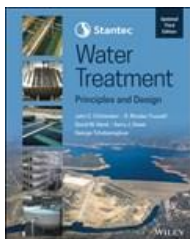
M Frahm

Designing Intelligent Construction Projects
Explore the potential impact of management cybernetics, lean methodologies, and digitalization on the construction sector

As a heavily asset-driven industry, construction is at the crossroads of a transformation. Digitalization has already begun and is acting as a beacon. Intelligently designed project organizations and systems must follow to make construction projects fit for the future.

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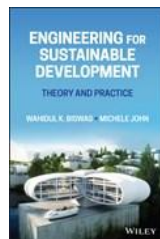
Stantec's Water Treatment: Principles and Design (3rd Edition)

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

The updated third edition of the definitive guide to water treatment engineering, now with all-new online content

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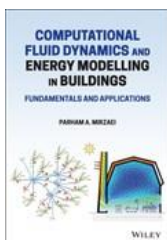
Engineering for Sustainable Development: Theory and Practice

Wahidul K. Biswas, Michele John

An authoritative and complete guide to sustainable development engineering

In *Engineering for Sustainable Development: A Handbook for Students and Practitioners*, a team of distinguished academics deliver a comprehensive, education-focused discussion on sustainable engineering, bridging the gap between theory and practice by drawing on illuminating case studies and the latest cutting-edge research. In the book, readers will find an introduction to the sustainable development agenda and sustainable technology development, as well as practical methods and tools for

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Computational Fluid Dynamics and Energy Modelling in Buildings: Fundamentals and Applications

Parham A. Mirzaei

A Comprehensive Overview on the Fundamentals of Heat and Mass Transport Simulation and Energy Performance in Buildings

In the first part of *Computational Fluid Dynamics and Energy Modeling in Buildings: Fundamentals and Applications*, the author explains the fundamentals of fluid mechanics, thermodynamics, and heat transfer with a specific focus on their application in buildings. This background knowledge sets the scene to further model heat and mass transport in buildings, with explanations of

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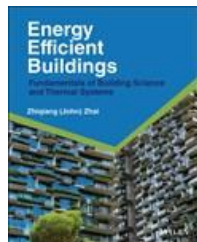


Guide to the FIDIC Conditions of Contract for Construction: The Red Book 2017

Michael D. Robinson

Brought fully up to date to focus on the FIDIC 2017 edition of the Red Book (*Conditions of Contract for Construction*), this new edition reviews the contract from the contractor's perspective, summarizing the activities and duties of the contractor's representative in order of their likely time sequence on site. The book is divided into five sections:

- A summarized general review of the



Energy Efficient Buildings: Fundamentals of Building Science and Thermal Systems

John Zhai

Energy Efficient Buildings

A complete and authoritative discussion of the fundamentals of designing and engineering energy efficient buildings

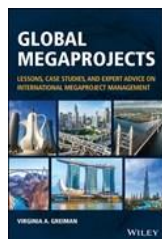
In *Energy Efficient Buildings: Fundamentals of Building Science and Thermal Systems*, distinguished engineer and architect Dr. John Zhai delivers a comprehensive exploration of the design and engineering fundamentals of energy efficient buildings. The book introduces the fundamental knowledge, calculations, analyses, and principles used by designers of energy efficient buildings

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STEEL DESIGN 2 - FIRE SAFETY AND FIRE RESISTANT DESIGN OF STEEL STRUCTURES FOR BUILDINGS ACCORDING TO EUROCODE 3



Global Megaprojects: Lessons, Case Studies, and Expert Advice on International Megaproject Management

Virginia A. Greiman

The definitive guide to international megaprojects from an undisputed authority in the field

In *Global Megaprojects: Lessons, Case Studies, and Expert Advice on International Megaproject Management*, distinguished international megaproject researcher and consultant Virginia A. Greiman delivers a comprehensive and incisive discussion of a key topic in global infrastructure development: the international megaproject. In the book, readers will find indispensable guidance and insights from experienced megaproject experts, as well as

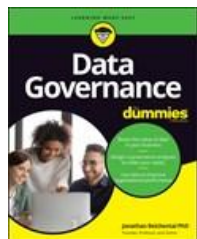
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Green Approaches for Smart Cities

K. Mohanasundaram, K. Vishnu Kumar, Sanjeevikumar Padmanaban, Jens Bo Holm-Nielsen



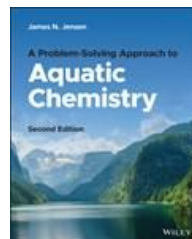
Data Governance For Dummies

Reichental

How to build and maintain strong data organizations—the Dummies way

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Christian Brockmann

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Simon Addyman, Hedley Smyth

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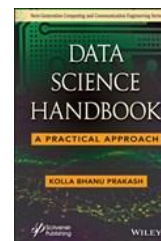
Computer Science Security: Concepts and Tools

Ameur Salem Zaidoun

This book serves as a guide to help the reader develop an awareness of security vulnerabilities and attacks, and encourages them to be circumspect when using the various computer resources and tools available today. For experienced users, Computer Science Security presents a wide range of tools to secure legacy software and hardware.

Computing has infiltrated all fields nowadays. No one can escape this wave and be immune to security attacks, which continue to evolve, gradually reducing the level of

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Data Science Handbook: A Practical Approach

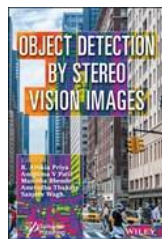
Kolla Bharu Prakash

DATA SCIENCE HANDBOOK

This desk reference handbook gives a hands-on experience on various algorithms and popular techniques used in real-time in data science to all researchers working in various domains.

Data Science is one of the leading research-driven areas in the modern era. It is having a critical role in healthcare, engineering, education, mechatronics, and medical robotics. Building models and working with data is not value-neutral. We choose the problems with which we work, make assumptions in these models, and decide on metrics and algorithms for the problems. The data scientist

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Object Detection by Stereo Vision Images

R. Arokia Priya, Anupama V. Patil, Manisha Bhende, Anuradha D. Thakare, Sanjeev Wagh

OBJECT DETECTION BY STEREO VISION IMAGES
Since both theoretical and practical aspects of the developments in this field of research are explored, including recent state-of-the-art technologies and research opportunities in the area of object detection, this book will act as a good reference for practitioners, students, and researchers.

Current state-of-the-art technologies have opened up new opportunities in research in the areas of object detection and recognition of digital images and videos, robotics, neural networks, machine learning, stereo vision matching

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Jeff Kosseff

Learn to protect your clients with this definitive guide to cybersecurity law in this fully-updated third edition

Cybersecurity is an essential facet of modern society and as a result, the application of security measures that ensure the confidentiality, integrity, and availability of data is crucial. Cybersecurity can be used to protect assets of all kinds, including data, desktops, servers, buildings, and most importantly, humans. Understanding the ins and outs of the legal rules governing this important field is vital for any lawyer or other professionals looking to protect these interests.

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Project Zero Trust: A Story about a Strategy for Aligning Security and the Business

George Finney, John Kindervag

Implement Zero Trust initiatives efficiently and effectively

In *Project Zero Trust: A Story About a Strategy for Aligning Security and the Business*, George Finney, Chief Security Officer at Southern Methodist University, delivers an insightful and practical discussion of Zero Trust implementation. Presented in the form of a fictional narrative involving a breach at a company, the book tracks the actions of the company's new IT Security Director.

Readers will learn John Kindervag's 5-Step methodology for implementing Zero Trust: the four Zero Trust design

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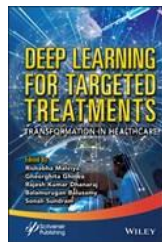


Programming and GUI Fundamentals: TCL-TK for Electronic Design Automation (EDA)

Tripathi

The TCL Language and the TK graphical toolkit are simple and powerful building blocks for sophisticated applications. The TCL/TK combination is becoming increasingly popular, allowing users to produce sophisticated graphical interfaces with a few easy commands. Td was initially designed to work with electronics simulations and still has a strong presence in the EDA industry. All major EDA tools support Td. Programming and GUI Fundamentals: TCL-TK for Electronic Design Automation (EDA) describes programming in Tool Command Language (TCL) and Graphical User Interface (GUI) with Toolkit (TK) an...

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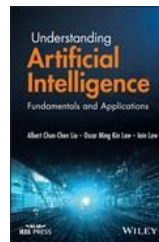
Deep Learning for Targeted Treatments: Transformation in Healthcare

Rishabha Malviya, Rajesh Kumar Dhanaraj, Balamurugan Balusamy, Sonali Sundram, George Ghinea

DEEP LEARNING FOR TREATMENTS

The book provides the direction for future research in deep learning in terms of its role in targeted treatment, biological systems, site-specific drug delivery, risk assessment in therapy, etc.

Deep Learning for Targeted Treatments describes the importance of the deep learning framework for patient care, disease imaging/detection, and health management. Since deep learning can and does play a major role in a patient's healthcare management by controlling drug



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Understanding Artificial Intelligence: Fundamentals and Applications

Albert Chun-Chen Liu, Oscar Ming Kin Law, Iain Law

Provides students across majors with a clear and accessible overview of new artificial intelligence technologies and applications

Artificial intelligence (AI) is broadly defined as computers programmed to simulate the cognitive functions of the human mind. In combination with the Neural Network (NN), Big Data (BD), and the Internet of Things (IoT), artificial intelligence has transformed everyday life: self-driving cars, delivery drones, digital assistants, facial recognition devices, autonomous vacuum cleaners, and mobile navigation apps all rely on AI to perform tasks.



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Haythem Balti

Tackle GoLang with practical and employment-focused instruction

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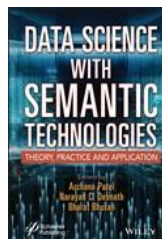
Cognitive Intelligence and Big Data in Healthcare

D. Sumathi, T. Poongodi, B. Balamurugan, Lakshmana Kumar Ramasamy

COGNITIVE INTELLIGENCE AND BIG DATA IN HEALTHCARE

Applications of cognitive intelligence, advanced communication, and computational methods can drive healthcare research and enhance existing traditional methods in disease detection and management and prevention.

As health is the foremost factor affecting the quality of human life, it is necessary to understand how the human body is functioning by processing health data obtained



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Data Science with Semantic Technologies: Theory, Practice and Application

Patel

To create intelligence in data science, it becomes necessary to utilize the semantic technologies which allow machine-readable representation of data. This intelligence uniquely identifies and connects data with common business terms, and it also enables users to communicate with data. Instead of structuring the data, semantic technologies help users to understand the meaning of the data by using the concepts of semantics, [ontology](#), OWL, linked-data, and knowledge-graphs. These technologies assist organizations in understanding of all the stored data, adding value in it, and

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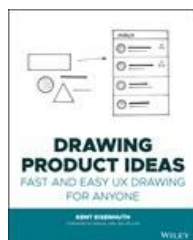
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Tools, Languages, Methodologies for Representing Semantics on the Web of Things

Shikha Mehta, Sanju Tiwari, Patrick Siarry, M. A. Jabbar

This book is a guide to the combination of the Internet of Things (IoT) and the Semantic Web, covering a variety of tools, technologies and applications that serve the myriad needs of the researchers in this field. It provides a multi dimensional view of the concepts, tools, techniques and issues that are involved in the development of semantics for the Web of Things.

The various aspects studied in this book include Multi-Model Multi-Platform (SHM3P) databases for the IoT,



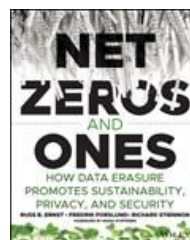
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Drawing Product Ideas: Fast and Easy UX Drawing for Anyone

Kent E. Eisenhuth, Manuel Lima

Explore straightforward drawing skills to help you communicate product ideas exponentially faster than you could with text

In *Drawing Product Ideas: Fast and Easy UX Drawing for Anyone*, RSA Fellow and Google Data Visualization Lead, Kent Eisenhuth delivers a new and exciting guide to effectively communicating product ideas by drawing just two simple things: boxes and lines! In the book, you'll learn why drawing is important and how it supports the design thinking process. You'll also discover how to build your drawing toolkit by exploring your own personal



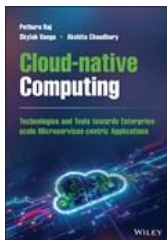
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Richard Stiennon, Russ Ernst, Fredrik Forslund

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Cloud-native Computing: Technologies and Tools towards Enterprise-scale Microservices-centric Applications

Pethuru R. Chelliah, K. V. L. Sai Sampath, Manojit Das, Sourav Tripathy, SkylabReddy Vanga

Explore the cloud-native paradigm for event-driven and service-oriented applications

In *Cloud-Native Computing: The Technologies and Tools towards Enterprise-scale Microservices-centric Applications*, a team of distinguished professionals delivers a comprehensive and insightful treatment of cloud-native computing technologies and tools. With a particular emphasis on the Kubernetes platform, as well as service mesh and API gateway solutions, the book demonstrates the need for a holistic approach to a cloud-native distributed



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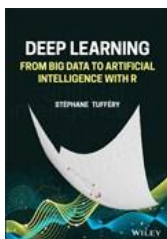
Mastering Windows Server 2022 with Azure Cloud Services: IaaS, PaaS, and SaaS

William Panek

Extend your on-premises Windows Server deployments to the cloud with Azure

In *Mastering Windows Server 2022 with Azure Cloud Services: IaaS, PaaS, and SaaS*, 5-time Microsoft MVP Winner William Panek delivers a comprehensive and practical blueprint for planning, implementing, and managing environments that include Azure IaaS-hosted Windows Server-based workloads.

You'll learn to use the expansive, hybrid capabilities of Azure, how to migrate virtual and physical server workloads to Azure IaaS, PaaS, and SaaS, and how to



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Deep Learning: From Big Data to Artificial Intelligence with R

Stephane S. Tuffery

A concise and practical exploration of key topics and applications in data science

In *Deep Learning, from Big Data to Artificial Intelligence*, expert researcher Dr. Stéphane Tufféry delivers an insightful discussion of the applications of deep learning and big data that focuses on practical instructions on various software tools and deep learning methods relying on three major libraries: MXNet, PyTorch, and Keras-TensorFlow. In the book, numerous, up-to-date examples are combined with key topics relevant to modern data scientists, including processing optimization, neural

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Brain-Computer Interface: Using Deep Learning Applications

M.G. Sumithra, Rajesh Kumar Dhanaraj, Mariofanna Milanova, Balamurugan Balusamy, Chandran Venkatesan

The brain-computer interface (BCI) is an emerging technology that is developing to be more functional in practice. The aim is to establish, through experiences with electronic devices, a communication channel bridging the human neural networks within the brain to the external world. For example, creating communication or control applications for locked-in patients who have no control over their bodies will be one such use. Recently, from communication to marketing, recovery, care, mental state monitoring, and entertainment, the possible application

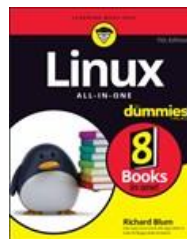
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Convergence of Deep Learning in Cyber-IoT Systems and Security

Rajdeep Chakraborty, Anupam Ghosh, Jyotsna Kumar Mandal, S. Balamurugan

This book provides innovative solutions and implementation on deep learning-based models in Cyber-IoT systems, as well as the exposed security issues in these systems. The 20 chapters are organized into four parts. Part I gives the various approaches that have evolved from machine learning to deep learning. Part II: presents many innovative solutions, algorithms, models and implementation based on deep learning. Part III covers security and safety aspects with deep learning. Part IV details cyber-physical system as well as the a discussion



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Richard Blum

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Yulei Wu, Jingguo Ge, Tong Li

Extensive Resource for Understanding Key Tasks of Network and Security Management

AI and Machine Learning for Network and Security Management covers a range of key topics of network automation for network and security management, including resource allocation and scheduling, network planning and routing, encrypted traffic classification, anomaly detection, security operations, and how AI and machine learning can help with the network automation in these areas. In addition, the authors introduce their large-scale intelligent network management and operation



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Rod Stephens

Discover the foundations of software engineering with this easy and intuitive guide

In the newly updated second edition of *Beginning Software Engineering*, expert programmer and tech educator Rod Stephens delivers an instructive and intuitive introduction to the fundamentals of software engineering. In the book, you'll learn to create well-constructed software applications that meet the needs of users while developing the practical, hands-on skills needed to build robust, efficient, and reliable software.

The author skips the unnecessary jargon and sticks to simple and straightforward English to

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Hybrid Intelligent Approaches for Smart Energy: A Practical Approach

Senthil Kumar Mohan, John A, Sanjeev Kumar Padmanaban, Yasir Hamid

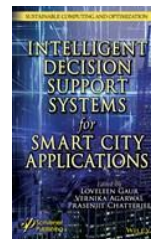
Energy optimization and consumption prediction are necessary to prevent energy waste, schedule energy usage, and reduce the cost. Today, smart computing technologies are slowly replacing the traditional computational methods in energy optimization, consumption, scheduling, and usage. Smart computing is an important core technology in today's scientific and engineering environment. Smart computation techniques such as artificial intelligence, machine learning, deep learning and Internet of Things (IoT) are the key role

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Intelligent Decision Support Systems for Smart City Applications

Loveleen Gaur, Vernika Agarwal, Prasenjit Chatterjee

Smart city frameworks address new difficulties by adding new features and allowing the city environment to react to collected data and information in order to increase efficiency and sustainability of services for inhabitants. For a rapidly growing sector of smart cities, modern decision support systems dramatically cut decision-making time and increase decision quality. The components of a Decision Support System (DSS) provide strategic, tactical, and operational decision makers with the tools they need to plan and complete the collection of projects required to establish a Smart City and/or ...

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Md Rashid Mahmood, Rohit Raja, Harpreet Kaur, Sandeep Kumar, Kapil Kumar Nagwanshi

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Ambient Intelligence and Internet of Things: Convergent Technologies provides a comprehensive knowledge of AmI and the IoT along with practical applications. The book focuses on the fundamental structure of innovative cutting-edge AmI and IoT technologies.



Cognitive Computing Models in Communication Systems

Budati Anil Kumar, S. B. Goyal, Sardar M. N. Islam

The book provides a comprehensive overview of state-of-the-art research work on cognitive models in communication systems and computing techniques. It also bridges the gap between various communication systems and solutions by providing the current models and computing techniques, their applications, the strengths and limitations of the existing methods, and the future directions in this area.

The contributors showcase their latest research work focusing on the issues, challenges and their solutions in the field of data transmission techniques, computational

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Artificial Intelligence Applications and Reconfigurable Architectures

Anuradha D. Thakare, Sheetal Umesh Bhandari

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

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Blockchain Technology in Corporate Governance: Transforming Business and Industries

Kiran Sood, Rajesh Kumar Dhanaraj, Balamurugan Balusamy, Seifedine Kadry

This edited book highlights the current governance framework for the blockchain and its development as a self-governing framework. It discusses the blockchain technology effectiveness in developing solutions for supply chain, trade finance, and banking. Moreover, it shows how banking and financial institutions are the major beneficiaries of this decentralized technology. Furthermore, the book outlines the link between company governance theories, regulatory, ethical, and social controls and the

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M Vohra

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Avik Santra, Souvik Hazra, Lorenzo Servadei, Thomas Stadelmayer, Michael Stephan, Anand Dubey

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Shengjie Xu, Yi Qian, Rose Qingyang Hu

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Deep Learning Approaches for Security Threats in IoT Environments

Mohamed Abdel-Basset, Nour Moustafa, Hossam Hawash

An expert discussion of the application of deep learning methods in the IoT security environment
In Deep Learning Approaches for Security Threats in IoT Environments, a team of distinguished cybersecurity educators deliver an insightful and robust exploration of how to approach and measure the security of Internet-of-Things (IoT) systems and networks. In this book, readers will examine critical concepts in artificial intelligence (AI) and IoT, and apply effective strategies to help secure and protect IoT networks. The authors discuss supervised, semi-supervised, and unsupervised deep learning t...

Network Science: Analysis and Optimization Algorithms for Real-World Applications

Carlos Pinheiro

Network Science offers comprehensive insight on network analysis and network optimization algorithms, with simple step-by-step guides and examples throughout, and a thorough introduction and history of network science, explaining the key concepts and the type of data needed for network analysis, ensuring a smooth learning experience for readers. It also includes a detailed introduction to multiple network optimization algorithms, like minimum-cost network flow, maximum network flow, linear assignment, traveling salesman and vehicle routing problems.

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

Dalal

Machine Learning for Business Analytics: Concepts, Techniques and Applications in RapidMiner

Galit Shmueli, Peter C. Bruce, Amit V. Deokar, Nitin R. Patel

Machine learning—also known as data mining or data analytics—is a fundamental part of data science. It is used by organizations in a wide variety of arenas to turn raw data into actionable information.

Machine Learning for Business Analytics: Concepts, Techniques, and Applications in RapidMiner provides a comprehensive introduction and an overview of this methodology. This best-selling textbook covers both statistical and machine learning algorithms for prediction,

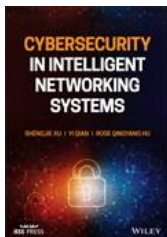


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Zero Touch Enterprise: A Practical Guide to Business Centric IT

Azita Esmaili

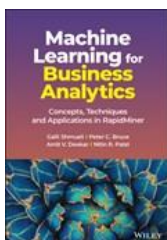
This book is a practical guide for technology leaders to support their digitalisation journey. It maps out a practical path towards enterprise digitalisation, the necessity for change in operating model, importance of culture change, value of measuring success and practical HOW-TO examples to lead the change and create ecosystems of change-leaders. The book describes the components and characteristics of digital 3.0 enterprises, and also describes the role of technology and data in applying and measuring change management to achieve Zero Touch IT. The book will categorise the approach in 3 pa...



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Data Analytics in the AWS Cloud: Building a Data Platform for BI and Predictive Analytics on AWS

Joe Minichino

A comprehensive and accessible roadmap to performing data analytics in the AWS cloud

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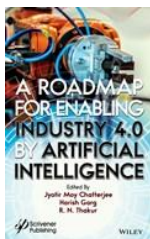
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Jyotir Moy Chatterjee, Harsh Garg, R. N. Thakur

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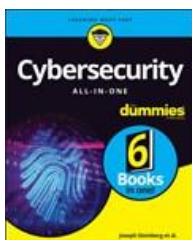
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Jack A. Hyman

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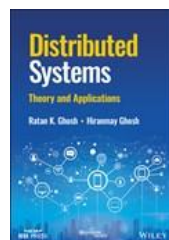
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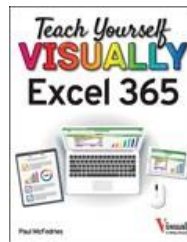
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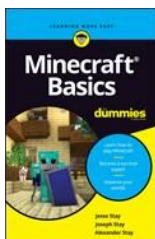
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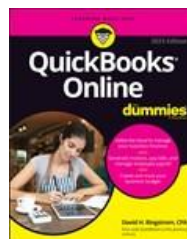
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The easy way to get started with Minecraft

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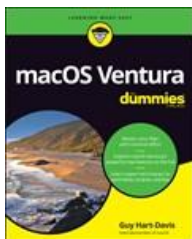
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Guy Hart-Davis, Bob LeVitus

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

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Jerome DiMarzio

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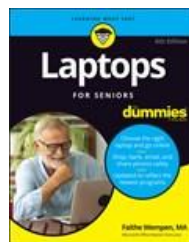
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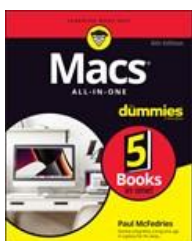
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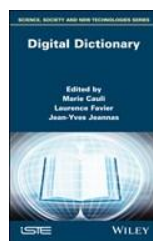
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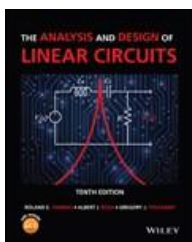
Handbook of Software Fault Localization: Foundations and Advances

Eric W. Wong, Tsun-Him Tse

A comprehensive analysis of fault localization techniques and strategies

In *Handbook of Software Fault Localization: Foundations and Advances*, distinguished computer scientists Prof. Eric W. Wong and Prof. Tsun Him-Tse deliver a robust treatment of up-to-date techniques, tools, and critical issues in software fault localization. The authors offer a collective discussion of fault localization strategies with an emphasis on the most important features of each approach described in the book.

The book also explores critical aspects of software fault



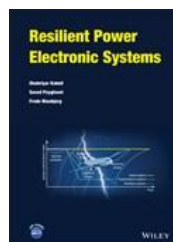
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Multimodal Perception and Secure State Estimation for Robotic Mobility Platforms

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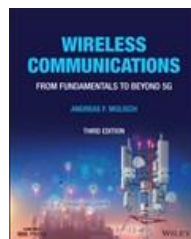
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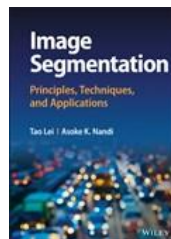


Image Segmentation: Principles, Techniques, and Applications

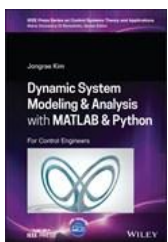
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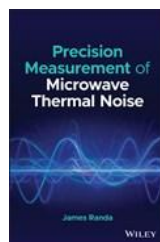
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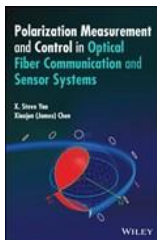
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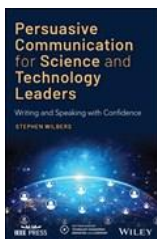
Fundamentals of Internet of Things: For Students and Professionals

Dian

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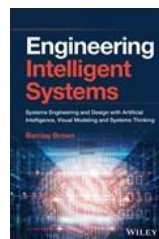
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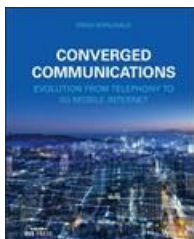
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Erkki Koivusalo

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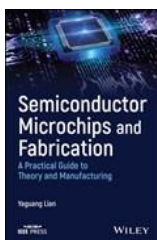
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Systems Engineering Competency Assessment Guide

INCOSE, Clifford Whitcomb

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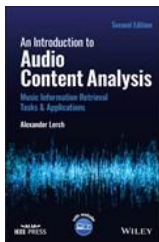
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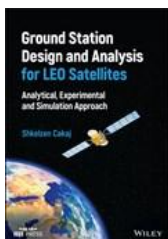
Advances in Time-Domain Computational Electromagnetic Methods

Qiang Ren, Su Yan, Atef Z. Elsherbeni

Discover state-of-the-art time domain electromagnetic modeling and simulation algorithms

Advances in Time-Domain Computational Electromagnetic Methods delivers a thorough exploration of recent developments in time domain computational methods for solving complex electromagnetic problems. The book discusses the main time domain computational electromagnetics techniques, including finite-difference time domain (FDTD), finite-element time domain (FETD), discontinuous Galerkin time domain (DGTD), time domain

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Ground Station Design and Analysis for LEO Satellites: Analytical, Experimental and Simulation Approach

Shkelzen Cakaj

Tutorial for analytical and scientific approaches related to ground station performance, including math, experiments, and simulations

Ground Station Design and Analysis for LEO Satellites provides complete instructions and steps for ground station performance evaluation, including stations dedicated for scientific or communication purposes, and offers the reader an enhanced learning experience by proposing 40 ideas related to ground station performance. Each idea goes over the experiment or simulation, the

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iPhone For Dummies (2023)

Guy Hart-Davis, Edward C. Baig

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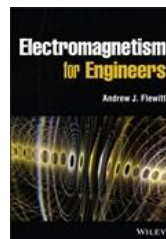
iPhone For Seniors For Dummies (2023)

Dwight Spivey

Learn your way around iOS 16 and the latest iPhone models

iPhone For Seniors For Dummies is the perfect guide for seniors who want to use the iPhone to make calls, send and receive text messages, check e-mail, and FaceTime with loved ones. With its larger font size, crystal-clear figures and drawings, and content on senior-friendly apps of all kinds, this book is accessible and tailored specifically to fit the needs of the 50+ crew. The possibilities of your smart phone are nearly endless, and, with the help of Dummies, you'll discover just how much this pocket-sized computer can do. Set up yo...

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Electromagnetism for Engineers

Andrew J. Flewitt

An easily accessible textbook to introduce the power of electromagnetism

Electromagnetism can be a difficult subject to grasp and to teach. Much of what we take for granted in modern life is enabled by electromagnetic effects, but it isn't always easy to understand the impact of electromagnetism compared to other areas of engineering, such as mechanics, which are more tangibly observed and felt. Although electromagnetism is a crucial and important branch of physics with elegant mathematics, many students can find the study of electromagnetism inaccessible.

It is crucial for students of electrical

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State Feedback Control and Kalman Filtering with MATLAB/Simulink Tutorials

Liuping Wang, Robin Ping Guan

Discover the control engineering skills for state space control system design, simulation, and implementation

State space control system design is one of the core courses covered in engineering programs around the world. Applications of control engineering include things like autonomous vehicles, renewable energy, unmanned aerial vehicles, electrical machine control, and robotics, and as a result the field may be considered cutting-edge. The majority of textbooks on the subject, however, lack the key link between the theory and the applications of design

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Science



6G Key Technologies: A Comprehensive Guide

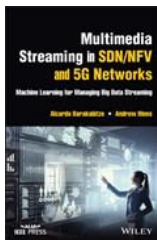
Wei Jiang, Fa-Long Luo

An accessible and integrated roadmap to the technologies enabling 6G development

In *6G Key Technologies: A Comprehensive Guide*, two internationally well-recognized experts deliver a thoroughly original and comprehensive exploration of the technologies enabling and contributing to the development of 6G. The book presents the vision of 6G by reviewing the evolution of communications technologies toward 6G and examining the factors driving that development, as well as their drivers, requirements, use cases, key performance indicators, and more.

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Multimedia Streaming in SDN/NFV and 5G Networks: Machine Learning for Managing Big Data Streaming

Alcardo Barakabitze, Andrew Hines

A comprehensive overview of Quality of Experience control and management of multimedia services in future networks

In *QoE Management of Multimedia Streaming Services in Future Networks*, renowned researchers deliver a high-level exploration of Quality of Experience (QoE) control and management solutions for multimedia services in future softwarized and virtualized 5G networks. The book offers coverage of network softwarization and virtualization technologies, including SDN, NFV, MEC, and



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6G Frontiers: Towards Future Wireless Systems

Chamitha de Alwis, Quoc-Viet Pham, Madhusanka Liyanage

Enables readers to understand the exciting new technologies, architectural directions, technical aspects, and applications of 6G, plus legal and standardization approaches

6G Frontiers offers intelligent insight into the ongoing research trends, use cases, and key developmental technologies powering the upcoming 6G framework. The four well-qualified authors cover a myriad of important topics that intersect with 6G, such as hyper-intelligent networking, security, privacy, and trust, harmonized mobile networks, legal views, and standards initiatives.

Advances in Cyber Security: AI-Driven Cyber Attacks

Rashmi Agrawal, Ganesh Gopal Deverajan

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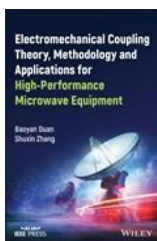
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A. Suresh, J. Ramkumar, M. Baskar, Ali Kashif Bashir

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Electromechanical Coupling Theory, Methodology and Applications for High-Performance Microwave Equipment

Baoyan Duan, Shuxin Zhang

The first book of its kind to focus on the coupling theory, methodology and applications of microwave equipment

Electromechanical Coupling Theory, Methodology and Applications for High-Performance Microwave Equipment is an authoritative and up-to-date guide to the structural, mechanical, and electrical aspects of electromechanical coupling. Addressing control, electromagnetism, and structural engineering, this comprehensive reference addresses the electromechanical coupling of



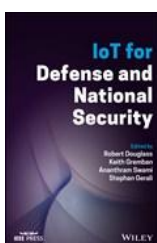
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Electromagnetic Analysis and Condition Monitoring of Synchronous Generators

Jawad Faiz, Hossein Ehya

Discover an insightful and complete overview of electromagnetic analysis and fault diagnosis in large synchronous generators

In *Electromagnetic Analysis and Condition Monitoring of Synchronous Generators*, a team of distinguished engineers delivers a comprehensive review of the electromagnetic analysis and fault diagnosis of synchronous motors and generators. Beginning with an introduction to several types of synchronous machine structures, the author moves on to the most common faults found in synchronous generators and their impacts



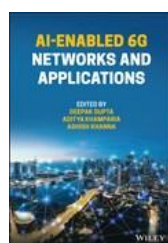
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IoT for Defense and National Security

Robert Douglass, Keith Gremban, Ananthram Swami, Stephan Gerall

Practical case-based guide illustrating the challenges and solutions of adopting IoT in both secure and hostile environments

IoT for Defense and National Security covers topics on IoT security, architecture, robotics, sensing, policy, operations, and more, presenting the latest results from the U.S. Army's Internet of Battle Things and the U.S. Defense Department's premier IoT research initiative. The text discusses organizational challenges in converting defense industrial operations to IoT and summarizes policy challenges and recommendations for controlling

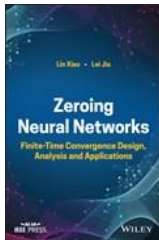


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AI-Enabled 6G Networks and Applications

Deepak Gupta, Mahmoud Ragab, Romany Fouad Mansour, Aditya Khamparia, Ashish Khanna

This book includes review of AI techniques for 6G Networks and will focus on deployment of AI techniques to efficiently and effectively optimize the network performance, including AI-empowered mobile edge computing, intelligent mobility and handover management, and smart spectrum management. This book also includes the design of a set of evolutionary AI hybrid algorithms with communication protocols, showing how to use them in practice to solve problems relating to vehicular networks, aerial networks and communication networks. It is intended as a reference guide



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Computers

Zeroing Neural Networks: Finite-time Convergence Design, Analysis and Applications

Lin Xiao, Lei Jia

Describes the theoretical and practical aspects of finite-time ZNN methods for solving an array of computational problems

Zeroing Neural Networks (ZNN) have become essential tools for solving discretized sensor-driven time-varying matrix problems in engineering, control theory, and on-chip applications for robots. Building on the original ZNN model, finite-time zeroing neural networks (FTZNN) enables efficient, accurate, and predictive real-time computations. Setting up discretized FTZNN algorithms for different time-varying matrix problems require distinct



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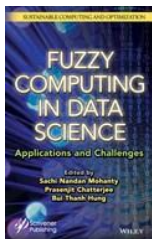
Defected Ground Structure (DGS) Based Antennas: Design Physics, Engineering, and Applications

Debatosh Guha, Chandrakanta Kumar, Sujoy Biswas

A unique exploration of critical topics in defected ground structures and their applications

In *Defected Ground Structure (DGS) Based Antennas: Design Physics, Engineering, and Applications*, a team of distinguished researchers delivers a comprehensive discussion of key topics related to defected ground structures (DGSs) and their applications to advanced antenna designs, including microstrips, arrays, dielectric resonators, PIFA, and printed monopoles.

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Fuzzy Computing in Data Science: Applications and Challenges

Sachi Nandan Mohanty, Prasenjit Chatterjee, Bui Thanh Hung

The book provides information about fundamental aspects of the field and explores the myriad applications of fuzzy logic techniques and methods. It presents basic conceptual considerations and case studies of applications of fuzzy computation. It covers the fundamental concepts and techniques for system modeling, information processing, intelligent system design, decision analysis, statistical analysis, pattern recognition, automated learning, and system control and identification. The book also discusses the combination of fuzzy computation techniques with



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Flexible Flat Panel Displays (2nd Edition)

Darran 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

In the newly revised Second Edition of *Flexible Flat Panel Displays*, a distinguished team of researchers delivers a completely restructured and comprehensive treatment of the field of flexible flat panel displays. With material covering the end-to-end process that includes commercial and technical aspects of the technology, the editors have included contributions that introduce the business, marketing, entrepreneurship, and intellectual property content relevant to fl...



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Andres Kwasinski, Vinay Chande

Consolidating knowledge on Joint Source-Channel Coding (JSCC), this book provides an indispensable resource on a key area of performance enhancement for communications networks

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It comprehensively introduces JSCC technologies for communications systems including coding and decoding



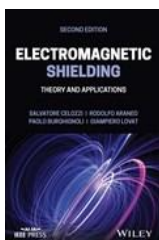
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Joint Communications and Sensing: From Fundamentals to Advanced Techniques

Kai Wu, J. Andrew Zhang, Yingjie Jay Guo

Authoritative resource systematically introducing JCAS technologies and providing valuable information and knowledge to researchers and engineers

Based on over six years of dedicated research to joint communications and sensing (JCAS) by the authors and their collaborators and students, *Joint Communications and Sensing* is the first book to comprehensively cover the subject of JCAS, which is expected to deliver huge cost and energy savings, and therefore has become a hallmark of future 6G and next generation radar technologies.



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Salvatore Celozzi, Rodolfo Araneo, Paolo Burghignoli, Giampiero Lovat

Comprehensive Resource for Understanding Electromagnetic Shielding Concepts and Recent Developments in the Field

This book describes the fundamental, theoretical, and practical aspects to approach electromagnetic shielding with a problem-solving mind, either at a design stage or in the context of an issue-fixing analysis of an existing configuration. It examines the main shielding mechanisms and how to analyze any shielding configuration, taking into account all the involved aspects. A detailed discussion on

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Modern Ferrites, Volume 1: Basic Principles, Processing and Properties

Vincent G. Harris

A robust exploration of the basic principles of ferrimagnetics and their applications

In *Modern Ferrites: Volume 1*, renowned researcher and educator, Vincent G. Harris delivers a comprehensive overview of the basic principles and ferrimagnetic phenomena of modern ferrite materials. Volume 1 explores the fundamental properties of ferrite systems, including their structure, chemistry, and magnetism; the latest in processing methodologies; and the unique properties that result.

In addition to these unique properties, the included



Machine Learning Algorithms for Signal and Image Processing

Suman Lata Tripathi, Deepika Ghai, Sobhit Saxena, Manash Chanda, Mamoun Alazab

Enables readers to understand the fundamental concepts of machine and deep learning techniques with interactive, real-life applications within signal and image processing

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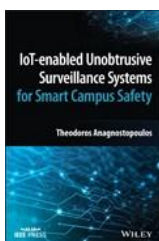
Intelligent Reconfigurable Surfaces (IRS) for Prospective 6G Wireless Networks

Muhammad Ali Imran, Lina Mohjazi, Lina Bariah, Sami Muhaidat, Tei Jun Cui, Qammer H. Abbasi

Authoritative resource covering preliminary concepts and advanced concerns in the field of IRS and its role in 6G wireless systems

Intelligent Reconfigurable Surfaces (IRS) for Prospective 6G Wireless Networks provides an in-depth treatment of the fundamental physics behind reconfigurable metasurfaces, also known as intelligent reflecting surfaces (IRS), and outlines the research roadmap towards their development as a low-complexity and energy-efficient solution aimed at turning the wireless environment into a

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Theodoros Anagnostopoulos

Enables readers to understand a broad area of state-of-the-art research in physical IoT-enabled security

IoT-enabled Unobtrusive Surveillance Systems for Smart Campus Safety describes new techniques in unobtrusive surveillance that enable people to act and communicate freely, while at the same time protecting them from malevolent behavior. It begins by characterizing the latest on surveillance systems deployed at smart campuses, miniatures of smart cities with more demanding frameworks that enable learning, social interaction, and

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Low Electromagnetic Field Exposure Wireless Devices: Fundamentals and Recent Advances

Masood Ur Rehman, Muhammad Ali Jamshed

Comprehensive resource covering methods of designing energy efficient and low EMF wireless device techniques

Supported with real case studies and recent advancements and laying the foundation for future advancements in the field, *Low Electromagnetic Field Exposure Wireless Devices* describes both ways, i.e., hardware and software, in which the user-centric wireless communication devices can be designed to reduce the levels of EMF to limit the potential long-term effects of EMF

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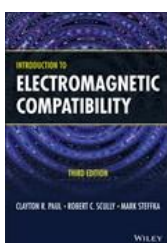
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Vincent G. Harris

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Clayton R. Paul, Robert C. Scully, Mark Steffka

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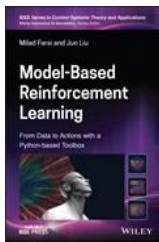
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Zhen Zhang, Hongliang Pang

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Model-Based Reinforcement Learning: From Data to Actions with a Python-based Toolbox

Milad Farsi, Jun Liu

Explore a comprehensive and practical approach to reinforcement learning

Reinforcement learning is an essential paradigm of machine learning, wherein an intelligent agent performs actions that ensure optimal behavior from devices. While this paradigm of machine learning has gained tremendous success and popularity in recent years, previous scholarship has focused either on theory—optimal control and dynamic programming – or on algorithms—most of which are simulation-based.

Model-Based Reinforcement Learning provides a

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Gain a comprehensive understanding of all aspects of grounding theory and application in this new, expanded edition

Grounding design and installation are crucial to ensure the safety and performance of any electrical or electronic system irrespective of size. Successful grounding design requires a thorough familiarity with theory combined with practical experience with real-world systems. Rarely taught in schools due to its complexity, identifying and implementing the appropriate solution to grounding problems is nevertheless a vital skill in the industrial world

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Modular Multilevel Converters: Control, Fault Detection, and Protection

Fujin Deng, Chengkai Liu, Zhe Chen

Expert discussions of cutting-edge methods used in MMC control, protection, and fault detection

In *Modular Multilevel Converters: Control, Fault Detection, and Protection*, a team of distinguished researchers delivers a comprehensive discussion of fault detection, protection, and tolerant control of modular multilevel converters (MMCs) under internal and external faults. Beginning with a description of the configuration of MMCs, their operation principles, modulation schemes, mathematical models, and component design, the authors go on to explore output control, fault detection, capacitor

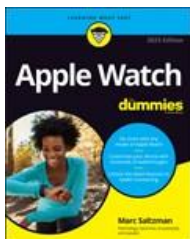
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Wireless Communication Security

Manju Khari, Manisha Bhari, M. Niranjanaamurthy

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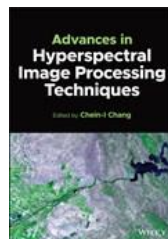
Apple Watch For Dummies (2023)

Marc Saltzman

Stop looking at your phone—and start looking at your Apple Watch

Much more than a time-telling device, the Apple Watch is your very own wrist-sized computer. And *Apple Watch For Dummies* is the most trusted guide for new and upgrading users. Learn how to check your email, make a phone call, look at tomorrow's weather forecast, and track your calorie burn, all right on your wrist. Dummies helps you navigate the interface, use helpful Siri shortcuts, make wireless payments, and more. This 2023 Edition is fully updated for the latest version of the Apple Watch and watchOS.

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Computers



Advances in Hyperspectral Image Processing Techniques

Chen-I Chang

Authoritative and comprehensive resource covering recent hyperspectral imaging techniques from theory to applications

Advanced Hyperspectral Image Processing Techniques is derived from recent development of hyperspectral imaging (HSI) techniques along with new applications in the field, covering many new ideas that have been explored and have led in various new directions in the past few years.

The work gathers an array of disparate research in a growing area into one resource and explores its numerous applications across a wide variety of industries. It also

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Securing Delay-Tolerant Networks with BPsec

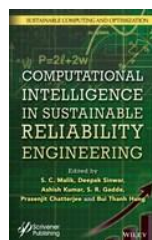
Edward Birrane, Sarah Heiner, Ken McKeever

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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Computational Intelligence in Sustainable Reliability Engineering

Sahil Malik, Deepak Sinwar, Ashish Kumar, S. R. Gadde, Prasenjit Chatterjee, Bui Thanh Hung

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Juvenile Nonfiction

Making TikTok Videos

Will Eagle

Create videos using the tricks of TikTok stars!

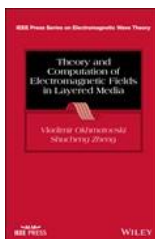
Making TikTok Videos reveals the secrets that TikTok celebs and influencers use to make the videos that everyone's watching. Hilarious clips, the latest dances, instruction videos—whatever you want to do, make sure it shows off the latest TikTok styles. This book shows you how to use whatever you have on hand to record, edit, and upload TikToks. Add music and text, get creative, and start sharing your finished products. With this guide, you'll get easy instructions on how to make videos that people remember. You also get some tips on how to bring ...

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Advances in Cyber Security: AI-Augmented Attacks

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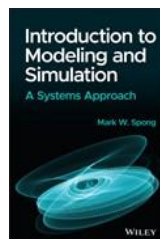
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Science

Theory and Computation of Electromagnetic Fields in Layered Media

Vladimir Okhmatovski, Shucheng Zheng

Explore the algorithms and numerical methods used to compute electromagnetic fields in multi-layered media

In *Theory and Computation of Electromagnetic Fields in Layered Media*, two distinguished electrical engineering researchers deliver a detailed and up-to-date overview of the theory and numerical methods used to determine electromagnetic fields in layered media. The book begins with an introduction to Maxwell's equations, the fundamentals of electromagnetic theory, and concepts and definitions relating to Green's function. It then moves on to



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IEEE 802.11ba: Ultra-Low Power Wake-up Radio Standard

Steve Shellhammer, Alfred Asterjadhi

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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Weidong Huang, Leila Alem, Mark Billinghurst

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Libu Manjakkal, Leandro Lorenzelli, Magnus Willander

A comprehensive guide to the development and application of smart sensing technologies for water and food quality monitoring

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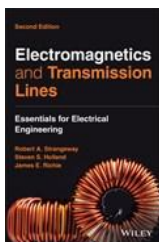
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Anwer Al-Dulaimi, Octavia A. Dobre, Chih-Lin I

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Originally introduced as a method to keep track of Bitcoin transactions over a peer-to-peer network, blockchain is a continuously growing list of records, called blocks, which are linked and secured using cryptography into a chain held in public databases. The use of this technology has grown since its cryptocurrency creation and now store three types of information: 1) transactions, including the date, time, and value of purchases; 2) records of



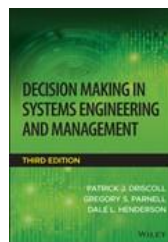
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Robert Alan Strangeway, Steven Sean Holland, James Elwood Richie

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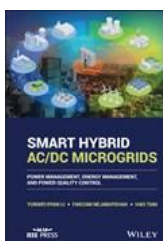
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Yunwei Ryan Li, Farzam Nejabatkhah, Hao Tian

SMART HYBRID AC/DC MICROGRIDS Addresses the technical aspects and implementation challenges of smart hybrid AC/DC microgrids

Hybrid AC/DC Microgrids: Power Management, Energy Management, and Power Quality Control provides comprehensive coverage of interconnected smart hybrid microgrids, their different structures, and the technical issues associated with their control and implementation in the next generation of smart grids. This authoritative

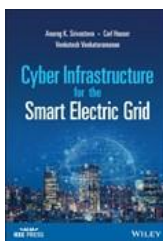
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A. Chitra, V. Indragandhi, W. Razia Sultana

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Cyber Infrastructure for the Smart Electric Grid

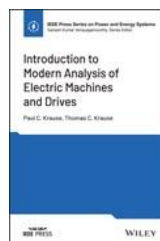
Anurag K. Srivastava, Carl Hauser, Venkatesh Venkataraman

Explore a thorough treatment of the foundations of smart grid sensing, communication, computation, and control

As electric power systems undergo a transformative upgrade with the integration of advanced technologies to enable the smarter electric grid, professionals who work in the area require a new understanding of the evolving complexity of the grid.

Cyber Infrastructure for the Smart Electric Grid delivers a comprehensive overview of the fundamental principles of

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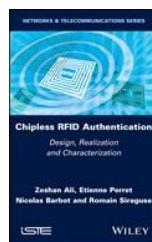
The Clean Energy Transition: Policies and Politics for a Zero-Carbon World

Daniel J. Fiorino

Is the goal of a transition to clean energy at all realistic? If so, how could it be accomplished? Climate change poses a formidable challenge for 21st century governments. Unless they can move to a clean energy system built on efficiency, renewables, electrification, and possibly complementary technologies like nuclear energy and carbon capture and storage, it will be all but impossible to avoid the worst impacts of climate change.

In this book, Daniel Fiorino provides a comprehensive introduction to the politics and policies of a clean energy transition and how it may unfold nationally and globally.

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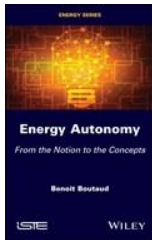
Chipless RFID Authentication: Design, Realization and Characterization

Zeshan Ali, Etienne Perret, Nicolas Barbot, Romain Siragusa

Chipless RFID Authentication examines the development of highly secure product authentication systems for manufactured products by using chipless radio frequency identification (RFID) technology.

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The absence of a chip and its compatibility with mass production make chipless RFID an alternative to barcodes. This book discusses how, by using natural randomness inherent to the fabrication process, each chipless RFID tag has a unique signature that can never be reproduced.



Energy Autonomy: From the Notion to the Concepts

Benoit Boutaud

Energy autonomy is an emerging concept that is, as yet, poorly identified in France. It can mean taking ownership of certain issues related to energy, its production, or, indeed, becoming self-sufficient, and it can apply equally to individuals, communities and buildings.

While there are numerous new developments – renewable energies, smart grids and self-consumption – it is becoming difficult to know what this idea of “autonomy” covers, just as it is difficult to define “independence” and “self-sufficiency” which are often associated with it

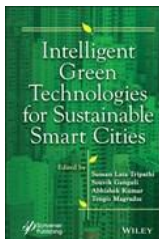
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Lalit Prasad, Subhalaxmi Pradhan, S. N. Naik



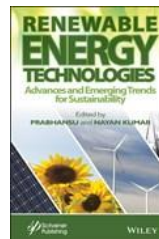
Intelligent Green Technologies for Sustainable Smart Cities

Suman Lata Tripathi, Souvik Ganguli, Abhishek Kumar, Tengiz Magradze

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Presenting the concepts and fundamentals of smart cities and developing “green” technologies, this volume, written and edited by a global team of experts, also goes into the practical applications that can be utilized across multiple disciplines and industries, for both the engineer and the student.

Smart cities and green technologies are quickly becoming two of the most important areas of development facing

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Nayan Kumar, Prabhat Kumar

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Green energy resources are gaining more attention in academia and industry as one of the preferred choices for sustainable energy conversion. Due to the energy demand, environmental impacts, economic needs, and

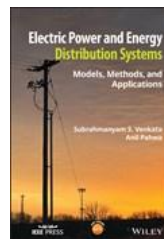
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A. Kayode Coker

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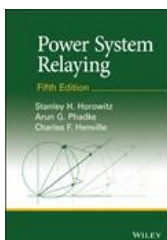
Electric Power Distribution Systems: Models, Methods, and Applications

Anil Pahwa, Subrahmanyam Venkata

Electric Power and Energy Distribution Systems
Provides a comprehensive introduction to today's electric power distribution systems, perfect for advanced students and industry professionals

Due to growth of renewable resources and advances in information technology, electric power distribution systems have undergone significant changes over the past fifteen years. The expansion of technologies such as consumer rooftop solar panels, electric vehicles, smart energy storage, and automated metering infrastructure make planning and operating power distribution systems

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Stanley H. Horowitz, Arun G. Phadke, Charles Henville

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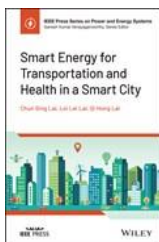
Control of Power Electronic Converters with Microgrid Applications

Arindam Ghosh, Firuz Zare

Discover a systematic approach to design controllers for power electronic converters and circuits

In *Control of Power Electronic Converters with Microgrid Applications*, distinguished academics and authors Drs. Arindam Ghosh and Firuz Zare deliver a systematic exploration of design controllers for power electronic converters and circuits. The book offers readers the knowledge necessary to effectively design intelligent control mechanisms. It covers the theoretical requirements, like advanced control theories and the

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Smart Energy for Transportation and Health in a Smart City

Lai

A comprehensive review of the advances of smart cities' smart energy, transportation, infrastructure, and health

Smart Energy for Transportation and Health in a Smart City offers an essential guide to the functions, characteristics, and domains of smart cities and the energy technology necessary to sustain them. The authors—noted experts on the topic—include the theoretical underpinnings, the practical information, and the potential benefits for the development of smart cities.

The book includes information on various financial models



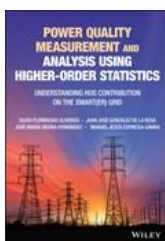
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Mohammadreza Daneshvar, Behnam Mohammadi-Ivatloo, Kazem Zare

Practical resource presenting the fundamental technologies and solutions for real-world problems in modern heat and electricity incorporated networks (MHEINs)

Coordinated Operation and Planning of the Modern Heat and Electricity Incorporated Networks covers the foundations of multi-carrier energy networks (MCENs), highlights potential technologies and multi-energy systems in this area, and discusses requirements for coordinated



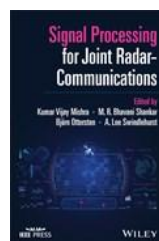
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Power Quality Measurement and Analysis Using Higher-Order Statistics: Understanding HOS contribution on the Smart(er) grid

Olivia Florencias Oliveros, Juan José González de la Rosa, José-María Sierra-Fernández, Manuel-Jesús Espinosa-Gavira, Agustín Agüera-Pérez, José-Carlos Palomares-Salas

Help protect your network with this important reference work on cyber security

Power quality (PQ) in electrotechnical systems refers to a set of characteristics related to the movement of energy and the delivery of voltage to consumers in the highest standard. As electricity networks change and adapt to new technologies and concepts of energy within a future Smart

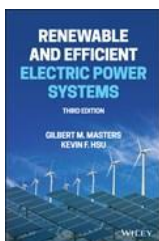


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Signal Processing for Joint Radar Communications

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

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



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Masters

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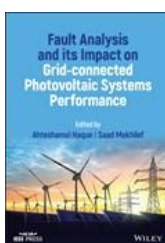
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Intelligent Data Mining and Analysis in Power and Energy Systems: Models and Applications for Smarter Efficient Power Systems

Zita A. Vale, Tiago Pinto, Michael Negnevitsky, Ganesh Kumar Venayagamoorthy

A hands-on and current review of data mining and analysis and their applications to power and energy systems

In *Intelligent Data Mining and Analysis in Power and Energy Systems: Models and Applications for Smarter Efficient Power Systems*, the editors assemble a team of distinguished engineers to deliver a practical and incisive review of cutting-edge information on data mining and intelligent data analysis models as they relate to power



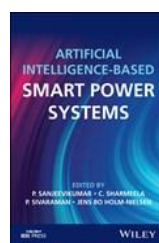
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Ahteshamul Haque, Saad Mekhilef

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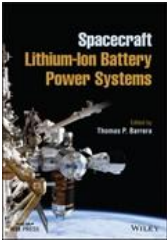
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Sanjeevikumar Padmanaban, P. Sivaraman, C. Sharmela, Jens Bo Holm-Nielsen

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Artificial Intelligence-based Smart Power Systems presents advanced technologies used in various aspects of smart power systems, especially grid-connected and industrial evolution, covering many new topics such as distribution Phasor management, blockchain technologies for smart power systems, the application of deep learning and



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Thomas P. Barrera

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In Situ and Operando Investigation of Batteries and Battery Materials: Analytical Techniques

Michael Deschamps, Christian Masquelier, Lorenzo Stievano

The ambitious goal of reaching a detailed understanding of electrochemical reactions mechanisms within and on the surface of the constituent materials of Li-ion batteries has generated the development of an arsenal of physicochemical characterization techniques, especially in situ or operando, which are the subject of this contribution. Although often unavoidable, they however impose constraints on measurement that are not necessarily in line with the time necessary for a uniform electrochemical

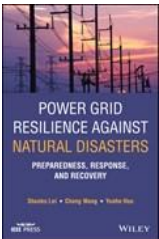
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Shunbo Lei, Chong Wang, Yunhe Hou

Learn to protect our power grids in the face of extreme weather events

The field of structural and operational resilience of power systems, particularly against natural disasters, is of obvious importance in light of climate change and the accompanying increase in hurricanes, wildfires, tornados, frigid temperatures, and more. Addressing these vulnerabilities in service is a matter of increasing diligence for the electric power industry, and as such, targeted studies and advanced technologies are being developed to

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Farid Karbalaee, Shahriar Abbasi

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In *Voltage Stability in Electrical Power Systems: Concepts, Assessment and Methods for Improvement*, two distinguished electrical engineers deliver a comprehensive discussion of voltage stability analysis in electrical power systems. The book discusses the concept of voltage stability, effective factors and devices, and suitable system modeling, offering readers an authoritative overview of the subject and strategies to prevent instability in power

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Control and Filter Design of Single Phase Grid-Connected Converters

Weimin Wu, Frede Blaabjerg, Henry S. Chung, Yuanbin He, Min Huang

This book will give a new perspective to readers by reporting the performance characteristics of inverters with filters of a higher order. Of course, it is necessary to operate such high-order systems with sophisticated control strategy and design considerations. The trend of miniaturizing the inverters is on-going and, in particular, due to recent advancement of high-power switching devices, the size of the switching network can be reduced. The physical size of the output filter becomes the key consideration in reducing the size of inverters. This book

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The Technology of Discovery: Radioisotope Thermoelectric Generators and Thermoelectric Technologies for Space Exploration

David Friedrich Woerner

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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, and the governmental forces that drive their production

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Battery Management System and its Applications

Xiaojun Tan, Andrea Vezzini, Yu-qian Fan, Neeta Khare, You-Lin Xu, Liang-liang Wei

Featuring detailed case studies and industrial applications, this book is aimed at researchers and industry professionals who want a handy book encompassing the various aspects of battery management systems (BMS). The reader will first be introduced to the core and basic concepts of BMS. Next, performance testing and battery modeling will be explained to help readers understand Lithium ion batteries. Then basic functions and topologies of BMS will be described, with the aim of guiding readers to design simple BMS themselves. In addition, some

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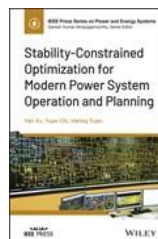
Cascading Blackouts: Causes and Solutions

Hyde M. Merrill, James W. Feltes

Help protect your network with this important reference work on cyber security

Cascading failure is an extremely common source of blackouts wherein one component fails to some extent and, as a result, other elements are then overloaded, crashing the entire system. The effect of these crashes is significant: it can take days to restore service and as a result, societal costs have been estimated in the billions of US dollars. Their puzzling nature—occurring, as they do, in essentially undamaged systems and the triggering event is often innocuous, unremarkable, and unexpected—has led to over a hal...

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Stability-Constrained Optimization for Modern Power System Operation and Planning

Yan Xu, Yuan Chi, Heling Yuan

Comprehensive treatment of an aspect of stability constrained operations and planning, including the latest research and engineering practices

Stability-Constrained Optimization for Modern Power System Operation and Planning focuses on the subject of power system stability, addressing a common gap in knowledge by presenting a series of stability-constrained optimization methodologies for power system operation and planning with the aim of power system stability enhancement. Unlike other resources, which focus mainly



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Cynthia Snyder Dionisio

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4D Printing, Volume 1: Between Disruptive Research and Industrial Applications

Frederic Demoly, Jean-Claude Andre

Any time objects and their (self-)organization are to be put into use, their models and methods of thinking as well as their designing and manufacturing need to be reinvented.

4D printing is a future technology that is capable of bringing 3D objects to life. This ability, which gives objects the power to change shape or properties over time through energy stimulation from active materials and additive manufacturing, makes it possible to envisage technological breakthroughs while challenging the relationship between people and objects

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Frederic Demoly

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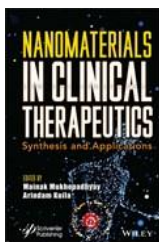
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Integration of Mechanical and Manufacturing Engineering with IoT: A Digital Transformation

R. Rajasekar, C. Moganapriya, M. Harikrishna Kumar, P. Sathish Kumar



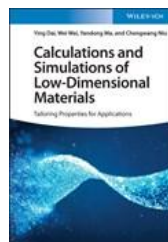
Nanomaterials in Clinical Therapeutics: Synthesis and Applications

Mukhopadhyay

NANOMATERIALS IN CLINICAL THERAPEUTICS
In this rapidly developing field, the book focuses on the practical elements of nanomaterial creation, characterization, and development, as well as their usage in clinical research.

Nanotechnology-based applications is a rapidly growing field encompassing a diverse range of disciplines that impact our daily lives. Nanotechnology is being used to carry out large-scale reactions in practically every field of biotechnology and healthcare. The incredible progress being made in these applications is particularly true for the

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Calculations and Simulations of Low-Dimensional Materials: Tailoring Properties for Applications

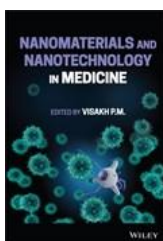
Ying Dai, Wei Wei, Yandong Ma, Chengwang Niu

Calculations and Simulations of Low-Dimensional Materials

A comprehensive guide to methods for calculating and simulating the properties of low-dimensional materials

Two-dimensional materials are those, such as graphene and 2D oxides, whose thickness is so small as to approach the atomic scale. Potential applications for these materials exist in an enormous range of scientific and industrial fields. A previous era of low-dimensional materials focused

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Nanomaterials and Nanotechnology in Medicine

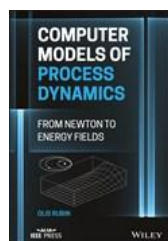
PM Visakh

NANOMATERIALS AND NANOTECHNOLOGY IN MEDICINE
A comprehensive introduction to nanomaterials and their application in the field of medicine

The use of nanotechnology and nanomaterials more generally is an emerging field that has generated a lot of interest in the last few years. To this point, there have been few books that deal with the recent advances in nanomaterials or nanocomposites in the medical discipline.

Intended as a one-stop reference, *Nanomaterials and Nanotechnology in Medicine* provides the reader with the

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Computer Models of Process Dynamics: From Newton to Energy Fields

Rubin

Comprehensive overview of techniques for describing physical phenomena by means of computer models that are determined by mathematical analysis

Computer Models of Process Dynamics covers everything required to do computer based mathematical modeling of dynamic systems, including an introduction to a scientific language, its use to program essential operations, and methods to approximate the integration of continuous signals.

From a practical standpoint, readers will learn how to build

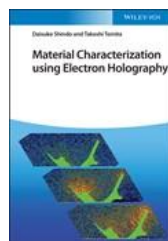
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Madhuri Sharon, A.H. Manikshete

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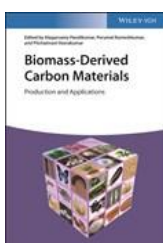
D Shindo

Material Characterization using Electron Holography

Exploration of a unique technique that offers exciting possibilities to analyze electromagnetic behavior of materials

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Biomass-Derived Carbon Materials: Production and Applications

Alagarsamy Pandikumar, Perumal Rameshkumar, Pitchaimani Veerakumar

Explores the sustainable production of carbon materials and their applications

Of increasing interest to practitioners and researchers in a variety of areas, biomass-derived carbon materials can be easily produced and possess the large surface areas and porosities that enable many applications in materials science, biochemistry, chemistry, and energy research.

In *Biomass-Derived Carbon Materials: Production and Applications*, a team of accomplished researchers delivers a thorough and up-to-date exploration of the preparation

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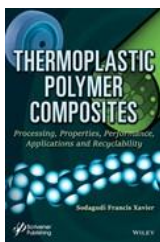


Handbook of Bioplastics and Biocomposites Engineering Applications (2nd Edition)

Inamuddin, Tariq A. Altalhi

The 30 chapters in the *Handbook of Bioplastics and Biocomposites Engineering Applications* discusses a wide range of technologies and classifications concerned with bioplastics and biocomposites with their applications in various paradigms including the engineering segment. Chapters cover the biobased materials; recycling of bioplastics; biocomposites modelling; various biomedical and engineering-based applications including optical devices, smart materials, cosmetics, drug delivery, clinical, electrochemical, industrial, flame retardant, sports, packaging, disposable biomass. The different an

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Thermoplastic Polymer Composites: Processing, Properties, Performance, Applications and Recyclability

Sodagudi Francis Xavier

Based on 40 years' experience in both industry and in academia, the author's goal is to make a comprehensive and up-to-date account that gives a complete understanding of various aspects of polymer composites covering processing, properties, performance, applications & recyclability.

Divided into 8 main chapters, the book treats thermoplastics vs. thermosets and the processing of thermoplastics; filled polymer composites; short fiber reinforced composites; long fiber reinforced composites;



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Handbook of Museum Textiles, Volume 1: Conservation and Cultural Research

Seiko Jose, Sabu Thomas, Pintu Pandit, Ritu Pandey, Vandana Gupta

The book addresses the proper display, storage, upkeep, handling, and conservation technology of textile artefacts to ensure their presence for coming generations. Spread over 19 chapters, this book is a unique body of knowledge of theoretical and practical details of museum practices. Chapters on textile museums, importance of cultural heritage, conservation, and documentation of textiles are covered in depth. Conservation case studies and examples are highlighted in many chapters. Management practices and guidelines to pursue a career in the museum textile field are also included.

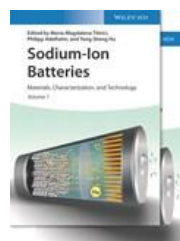


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Technology & Engineering

Handbook of Museum Textiles, Volume 2: Scientific and Technological Research

Seiko Jose, Sabu Thomas, Pintu Pandit, Ritu Pandey

The volume provides precise instructions for conservation techniques to preserve the textile heritage more scientifically and technologically. Additionally, the book covers the most modern techniques used to characterize archaeological textiles and dyes. Progress and innovation in nanotechnology-based interventions in museum textiles are emphasized. Chapters cover the general introduction to biological damage caused by physical and chemical agents and their prevention methods. Information on microscopy and characterization of historical textiles, ancient dyes, and prints is highlighted. Several...



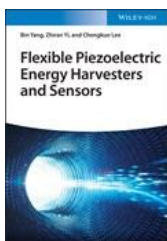
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Sodium-Ion Batteries: Materials, Characterization, and Technology, 2 Volumes

Maria-Magdalena Titirici, Philipp Adelhelm, Yong Sheng Hu

Presents unparalleled coverage of Na-ion battery technology, including the most recent research and emerging applications

Na-ion battery technologies have emerged as cost-effective, environmentally friendly alternatives to Li-ion batteries, particularly for large-scale storage applications where battery size is less of a concern than in portable electronics or electric vehicles. Scientists and engineers involved in developing commercially viable Na-ion batteries need to understand the state-of-the-art in constituent materials, electrodes, and electrolytes to meet



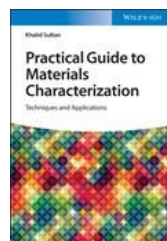
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Flexible Piezoelectric Energy Harvesters and Sensors

Bin Yang, Zhiran Yi, Chengkuo Lee

A systematic and complete discussion of the latest progress in flexible piezoelectric energy harvesting and sensing technologies

In *Flexible Piezoelectric Energy Harvesters and Sensors*, a team of distinguished researchers delivers a comprehensive exploration of the design methods, working mechanisms, microfabrication processes, and applications of flexible energy harvesters for wearable and implantable devices. The book discusses the monitoring of normal force, shear force, strain, and displacement in flexible sensors, as well as relevant artificial intelligence



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Practical Guide to Materials Characterization: Techniques and Applications

K Sultan

Practice-oriented resource providing a hands-on overview of the most relevant materials characterization techniques in chemistry, physics, engineering, and more

Practical Guide to Materials Characterization focuses on the most widely used experimental approaches for structural, morphological, and spectroscopic characterization of materials, providing background, insights on the correct usage of the respective techniques, and the interpretation of the results. With a focus on practical applications, the work illustrates what to use and when, including real-life



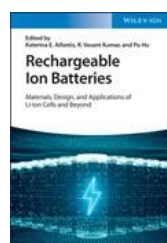
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Van der Waals Heterostructures: Fabrications, Properties and Applications

Yue Zhang, Zheng Zhang

A comprehensive resource systematically detailing the developments and applications of van der Waals heterostructures and devices

Van der Waals Heterostructures and Devices is essential reading to understand the developments made in van der Waals heterostructures and devices in all aspects, from basic synthesis to physical analysis and heterostructures assembling to devices applications, including demonstrated applications of van der Waals heterostructure on electronics, optoelectronics, and energy conversion, such as solar energy, hydrogen energy,



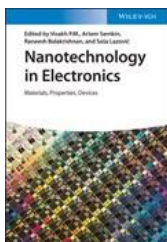
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Rechargeable Ion Batteries: Materials, Design and Applications of Li-Ion Cells and Beyond

Katerina E. Aifantis, R. V. Kumar, Pu Hu

Authoritative and comprehensive resource providing knowledge on concepts, materials, and the many applications of ion-based batteries

Rechargeable Ion Batteries explores the concepts of rechargeable ion batteries, including their materials, applications, stability, and novel developments, focusing on state-of-the-art Li-based batteries used for portable electronics and electric vehicles, while also covering emerging ion-battery technologies. The text addresses innovative approaches by reviewing nanostructured and thin film anodes and cathodes that pave new ways of



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Nanotechnology in Electronics: Materials, Properties, Applications

Visakh P. M., Artem Semkin, Raneesh Balakrishnan, Sasa Lazovic

Enables readers to understand and apply state-of-the-art concepts surrounding modern nanotechnology in electronics

Nanotechnology in Electronics summarizes numerous research accomplishments in the field, covering novel materials for electronic applications (such as graphene, nanowires, and carbon nanotubes) and modern nanoelectronic devices (such as biosensors, optoelectronic devices, flexible electronics, nanoscale batteries, and nanogenerators) that are used in many different fields



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Introduction to Convective Heat Transfer

Nevzat Onur

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

In *Introduction to Convective Heat Transfer*, accomplished professor and mechanical engineer Nevzat Onur delivers a concise and insightful exploration of the physical mechanisms of convective heat transfer and an accessible treatment of how to build mathematical models of these physical processes.

Providing a new perspective on convective heat transfer, the book is comprised of twelve chapters, all of which contain numerous practical examples. The book



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Enhanced Carbon-Based Materials and Their Applications

Poh Choon Ooi, Mengying Xie, Chang Fu Dee

This book provides a state-of-the-art overview of carbon-based and enhanced nanostructured materials from materials synthesis methods, characterization techniques to advanced functionalization techniques. Then it discusses the integration of these materials in various electronic applications for the performance enhancement including non-volatile memories, optoelectronic devices, energy harvesters, actuators, analog and digital electronics and circuits.



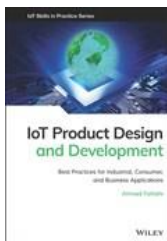
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Kun Zhou

Highly comprehensive resource covering all key aspects of the current developments of additive manufacturing

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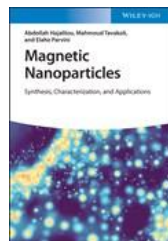
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IoT Product Design and Development: Best Practices for Industrial, Consumer, and Business Applications

Ahmad Fattahi

IoT Product Design and Development Learn to incorporate IoT products into the process of building a product

Internet of Things (or IoT) is currently one of the central building blocks of industry. It is the driving technology of the connected world—be it smart cars, smart homes, smart factories, or smart cities. Industrial IoT (IIoT) is one of the most impactful areas of the global market, where it has fundamentally altered industries as varied as manufacturing, electronics, automotive, consumer goods,



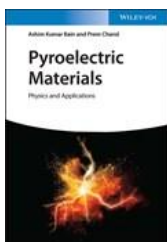
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Science

Magnetic Nanoparticles: Synthesis, Characterization and Applications

Abdollah Hajjalilou, Mahmoud Tavakoli, Elahe Parvini

Learn how to make and use magnetic nanoparticles in energy research, electrical engineering, and medicine

In *Magnetic Nanoparticles: Synthesis, Characterization and Applications*, a team of distinguished engineers and chemists delivers an insightful overview of magnetic materials with a focus on nano-sized particles. The book reviews the foundational concepts of magnetism before moving on to the synthesis of various magnetic nanoparticles and the functionalization of nanoparticles that enables their use in specific applications. The authors



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Pyroelectric Materials: Physics and Applications

Ashim Kumar Bain, Prem Chand

Pyroelectric Materials An authoritative and practical discussion of pyroelectric materials and their applications

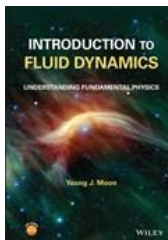
In *Pyroelectric Materials: Physics and Applications*, the authors deliver a comprehensive exploration of the physics of pyroelectric materials and their applications. With authoritative coverage of a wide variety of critical topics in the field, the authors provide the readers with chapters on dielectric fundamentals, pyroelectricity, pyroelectric materials and their applications such as pyroelectric infrared detectors, pyroelectric energy harvesting, and pyroelectric fusion.

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Jeenat Aslam, Chaudhery Mustansar Hussain, Ruby Aslam



Introduction to Fluid Dynamics: Understanding Fundamental Physics

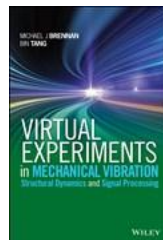
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INTRODUCTION TO FLUID DYNAMICS

A concise resource that presents a physics-based introduction to fluid dynamics and helps students bridge the gap between mathematical theory and real-world physical properties

Introduction to Fluid Dynamics offers a unique physics-based approach to fluid dynamics. Instead of emphasizing specific problem-solving methodologies, this book explains and interprets the physics behind the theory, which helps mathematically-inclined students develop physical intuition while giving more physically-

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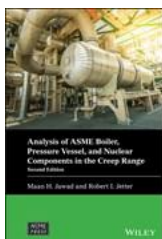
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Michel Ledoux, Abdelkhalak El Hami

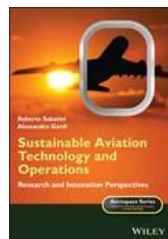
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Iterative Learning Control Algorithms and Experimental Benchmarking

Eric Rogers, Bing Chu, Christopher Freeman, Paul Lewin, David Owens

Presents key cutting edge research into the use of iterative learning control

The book discusses the main methods of iterative learning control (ILC) and its interactions, as well as comparator performance that is so crucial to the end user. The book provides an integrated coverage of the major approaches to-date in terms of basic systems theoretic properties, design algorithms, and experimentally measured performance as well the links with repetitive control and other related areas.

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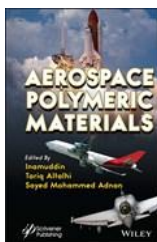
Flight Simulation Software: Design, Development and Testing

David Allerton

Flight Simulation Software comprehensively covers many aspects of flight simulation; from software design to flight control systems, navigation systems and visual systems. It provides working software taken from flight simulators and demonstrates a variety of different systems that can be used in flight simulation. Delving into software design, programming languages, computer graphics and parallel processing, this book is detailed and covers a wide range of topics for flight simulation software.

The author-a noted expert on the topic- uniquely presents flight control systems and displays, allow...

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Aerospace Polymeric Materials

Inamuddin, Tariq A. Altalhi, Sayed Mohammed Adnan

This book discusses polymeric and composite materials for aerospace industries and discusses some general qualities of aviation materials, e.g., strength, density, malleability, ductility, elasticity, toughness, brittleness, fusibility, conductivity, and thermal expansion.

Metals and alloys have so far been best able to utilize their qualities almost to the maximum. The latest advancements in polymers and composites have opened up a new area of conjecture about how to modify airplanes and shuttles to be more polymeric and less metallic. Polymeric materials have been the focus of

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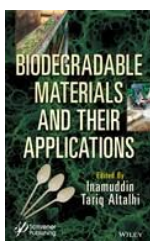
Functional Biomaterials: Design and Development for Biotechnology, Pharmacology, and Biomedicine, 2 Volumes

Tamilselvan Mohan, Karin Stana Kleinschek

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

This book merges the two most important trends in biomaterials: functionalization and renewable chemistry. It covers a variety of biopolymers and various approaches for the transformation of these biopolymers into functional units. Sample topics covered by the two well-qualified authors include:

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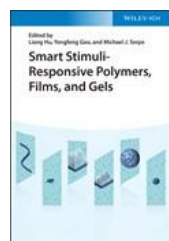


Biodegradable Materials and Their Applications

I Inamuddin

Applications of Biodegradable Materials covers a wide range of subjects and approaches, starting with an introduction of biodegradable material applications. Chapters focus on the development of various types of biodegradable materials with their applications in electronics, medicine, packaging, thermoelectric generations, protective equipment, films/coatings, 3D printing, disposable bioplastics, agriculture, and other commercial sectors. In biomedical applications, their use in the advancement of therapeutic devices like temporary implants, tissue engineering, and drug delivery vehicles

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Smart Stimuli-Responsive Polymers, Films, and Gels: Polymers, Films, and Gels

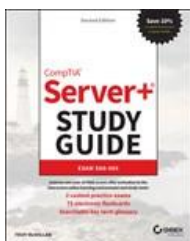
L Hu

Smart Stimuli-Responsive Polymers, Films, and Gels

Discover the most important developments in synthesis, simulation, and applications of a fascinating compound class

There exist a range of natural materials that respond to environmental changes by altering their physical or chemical properties, known as stimuli-responsive polymers, these substances are responsive to light, temperature, pressure, and more. The study of these so-called "smart" polymers is essential to a range of

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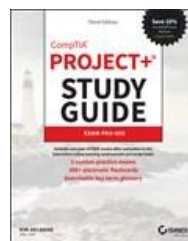
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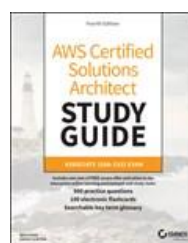
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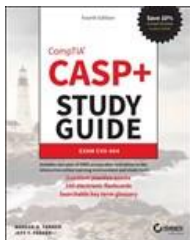
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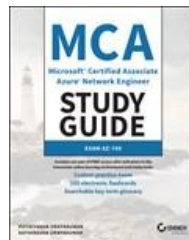
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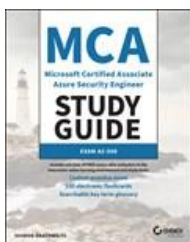
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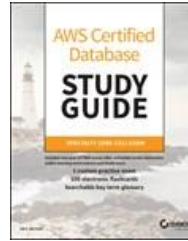
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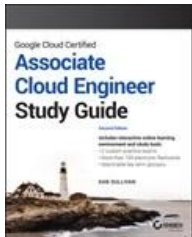
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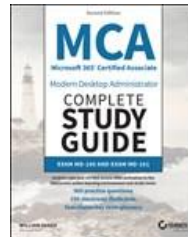
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