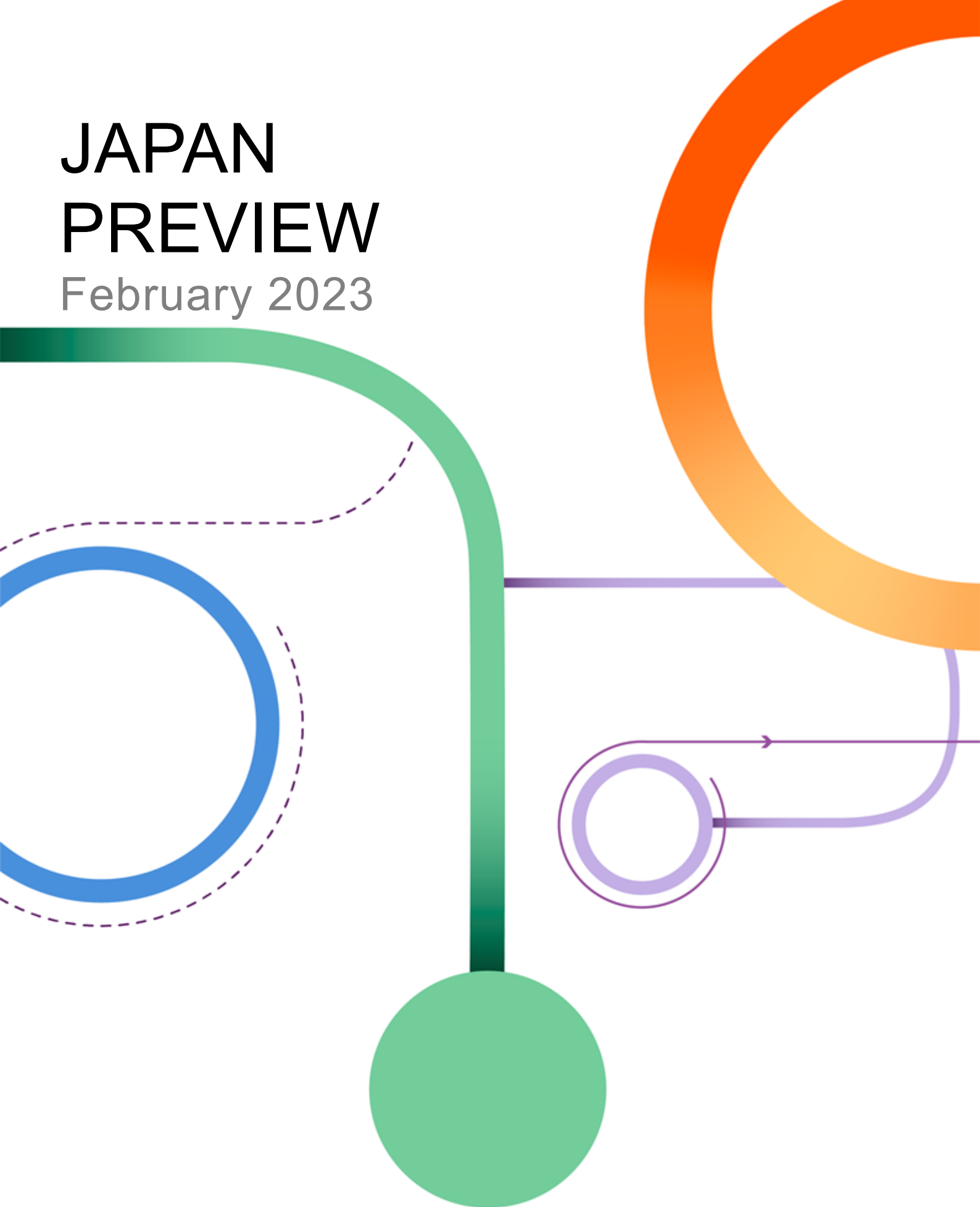


JAPAN PREVIEW

February 2023



WILEY

PICK OF THE MONTH ~ 今月のお勧めタイトル**Advanced Accounting, 8th Edition**

DEBRA C. JETER & PAUL K. CHANEY

Vanderbilt University; Vanderbilt University

→P9

The Leadership Challenge: How to Make Extraordinary Things Happen in Organizations, 7th Edition

JAMES M. KOUZES, ORINDA, UNITED STATES & BARRY Z. POSNER

→P13

Analytical Techniques for the Elucidation of Protein Function

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→P22

Spectroscopy and Computation of Hydrogen-Bonded Systems (再掲載)

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会計学

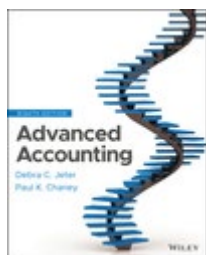
Advanced Accounting

8th Edition

DEBRA C. JETER & PAUL K. CHANEY

Vanderbilt University; Vanderbilt University

In the newly revised eighth edition of *Advanced Accounting*, a decorated team of accounting professionals delivers authoritative and comprehensive coverage of all three methods of consolidated financial reporting: cost, partial equity, and complete equity. This invaluable work compares and contrasts United States and international principles, drawing reader attention to enduring differences between the two frameworks.



The authors draw on their extensive experience with US and international accounting to connect advanced accounting methods to practical applications with challenging exercises that feature the financial statements of real-world companies. With a consistent focus on clarity and accessibility, the authors highlight current business news stories and their relevance to core concepts. Ideal for accounting majors seeking an insightful and robust exploration of complex accounting methods, *Advanced Accounting* also includes:

- The latest changes by the Financial Accounting Standards Board and the Governmental Accounting Standards Board
- Discussions of the tax consequences of a variety of business combinations
- New end-of-chapter materials with additional problems, exercises, and questions
- New "In the News" boxes with updated stories
- Updated tutorial videos and international comparisons
- Revised test bank questions

FEBRUARY 2023 976PP
978-1-119-79465-3 PB \$130.95 (Japan)
ADVANCED ACCOUNTING

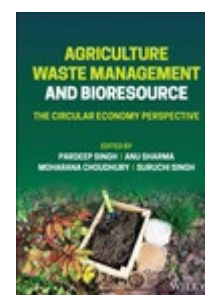
農業

Agriculture Waste Management and Bioresource

The Circular Economy Perspective

EDITOR PARDEEP SINGH, EDITOR ANURAG SHARMA, EDITOR MOHARANA CHOUDHURY & EDITOR SURUCHI SINGH

Comprehensive resource detailing the generation of agricultural waste and providing insight into waste management



Agriculture Waste Management and Bioresource provides thorough coverage of the generation of agricultural waste with essential thought leadership about various options in managing the waste, including composting, vermicomposting to form manure and biogas generation. Readers take a crucial step toward more sustainable development and to create a greener planet.

The text includes a wide range of information regarding resource recovery from the waste of the agriculture sector, energy generation, biofuels, reduction in the amount and volume of waste through circular economy, and much more. The authors place particular importance on understanding and managing agricultural waste concerning the sustainability of the environment in the era of global climate change.

Academics, students, and industry professionals in environmental science and engineering, waste management, and agriculture can use the valuable insight in *Agriculture Waste Management and Bioresource* to understand the latest in the field and the advancements that can propel us towards a better and more sustainable future.

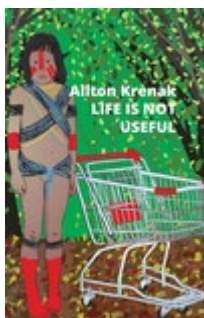
FEBRUARY 2023 352PP
978-1-119-80813-8 CL \$215.00 (Japan)
Biorenewable Resources

人類学

Life Is Not Useful

AILTON KRENAK, TRANSLATED BY ALEX BROSTOFF & TRANSLATED
BY JAMILLE PINHEIRO DIAS

READERSHIP: General readers with an interest in environmental issues; students and scholars in environmental studies, Latin American studies, Native American studies, politics, sociology.



FEBRUARY 2023 80PP
978-1-5095-5404-1 CL \$49.95 (Japan)
978-1-5095-5405-8 PB \$14.95 (Japan)
Social & Cultural Anthropology

建築学

Urban Dystopias: Lofty Ideals to Shocking Realities

EDITOR JANE BURRY & EDITOR MARCUS WHITE

Guest-edited by Marcus White and Jane Burry



Cities are facing several coinciding global crises. There is the dominant existential narrative of the impact of and adaptation to climate change, itself powered by cities. In a time of unprecedented urbanisation and growth, resilient architecture and urbanism is needed in response. New modes of transport, renewed anxiety about robots taking jobs, AI, and the humbling recent experience of a global pandemic are all challenging norms and expectations. All of these are forces of social division, all are changing life experience, evoking strong-arm politics, and giving a sense of teetering between radically different possible futures. This is a story about reclaiming the urban design narrative and being alert to the potential impacts of socio-technical decision-making and design in cities. It is a story for its time. The issue explores the dichotomy of idealised visions for the design of urban settlements and the potentially shocking realities that may emerge from the same impulses and intentions. It examines the slippery territory between utopias and some of the ensuing dystopias that may unfold.

Contributors:

Tridib Banerjee, Steve Glackin, Justyna Karakiewicz, Nano Langenheim and Kongjian Yu, Mehrnoush Latifi, Andong Lu, Dan Nyandega, Jordi Oliveras, Kas Oosterhuis, Claudia Pasquero and Marco Poletto, Carlo Ratti, Ian Woodcock, and Tianyi Yang.

Featured architects:

Carlo Ratti Associati, ecoLogicStudio, Harrison and White, and Turenscape.

SERIES: ARCHITECTURAL DESIGN

FEBRUARY 2023 136PP
978-1-119-83399-4 PB \$37.50 (Japan)
Architectural History & Styles

ビジネス

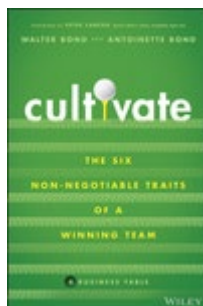
Cultivate

The 6 Non-Negotiable Traits of a Winning Team

WALTER BOND & ANTOINETTE BOND

Recruit, develop, and retain a high-performing team

Cultivate: The Six Non-Negotiable Traits of a Winning Team is a robust and empowering narrative about three corporate team leaders discovering how to build a high-performing team. Over the course of the story, you'll follow these frustrated leaders as they take an introspective look into their own flaws, strengths, fears, habits, and shortcomings and learn firsthand how they impact their teams' cultures.



The authors demonstrate how leaders build the cultures they work in and explain why it's up to them to manage and improve it. The book is packed with tried-and-true teamwork fundamentals that are simple to understand and apply. Readers will also find:

- Explanations of why companies are struggling to recruit, develop, and retain strong teams
- Practical and applicable tips for employee and team member retention
- Explorations of the six traits of high-performing teams that are the signature of all elite business units

A can't-miss journey through the fundamentals of recruiting, building, and maintaining a high-performing team in your own organization, *Cultivate* will earn a place in the libraries of executives, managers, and other business leaders struggling to adapt to the human resources and retention challenges posed by the new economy. In business, Winning, Losing, or Championship organizations are totally dependent on a leader's ability to CULTIVATE!

FEBRUARY 2023 272PP
978-1-119-90911-8 CL \$25.00 (Japan)
Business Self-Help

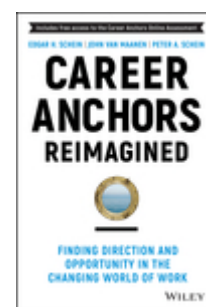
Career Anchors Reimagined

Finding Direction and Opportunity in the Changing World of Work, 5th Edition

EDGAR H. SCHEIN, BOSTON, UNITED STATES, JOHN VAN MAANEN & PETER A. SCHEIN

Sloan School of Management Massachusetts Institute of Technology

In the newly revised edition of *Career Anchors: Finding Stability and Opportunity in the Changing Nature of Work*, a team of world-renowned management and culture experts delivers a uniquely insightful exploration of your own career values and work relationships as they relate to your past and future choices. This easy-to-use workbook in combination with an online self-assessment offers critical and accessible self-diagnostic exercises along with information about the changing career scene and new descriptions of the eight career anchor categories.



This book will help you:

- Explore how your work choices now relate to your family and self-development
- Explore how the rapidly changing world of work and business emphasizes globalization, competition, technology, organizational instability, uncertainty, and shifting values
- Engage in a powerful relationship mapping process that helps you to consider how your work and career choices now interact with your relationships with family, friends, and community

This newest edition of *Career Anchors* is a can't-miss resource written to help you analyze, assess, and understand the past, present, and future of your own career. It belongs in the libraries of early-career--as well as established--professionals looking to take back control over their work trajectories.

SERIES: JOSSEY-BASS LEADERSHIP SERIES

FEBRUARY 2023 256PP
978-1-119-89948-8 CL \$35.00 (Japan)
PERSONAL CAREER DEVELOPMENT

Sort Your Career Out

And Make More Money

GLEN JAMES & SHELLEY JOHNSON

The best investment you can make is in yourself and your career

Sort Your Career Out: And Make More Money is your go-to guide for building a career that you love. Dream jobs don't just come along: you need to make them happen. And this is the book that will show you how, from creating the ultimate career strategy to getting paid what you're really worth. (Hint: It's not just about changing the font on your resume!) With tips and guidance from two of today's top money and career experts, you'll learn how to change jobs, secure a promotion, ask for a pay rise and much, much more.



Whether you're preparing for a job interview or you're looking to make a radical change, *Sort Your Career Out* has the smart advice you need for earning more and winning at work. Inside you'll find practical activities that will help boost your bankability and take you further, faster. Along the way, you'll also follow diverse case studies from real employees: people who have been there, done that, and figured out the way forward.

Sort Your Career Out: And Make More Money unpacks everything you need to:

- Establish your career mindset: define your purpose and unlock your skills and strengths
- Set concrete goals and create new opportunities for yourself
- Upskill with essential tips and templates for resumes, cover letters, interviews, networking, and more
- Know when to take risks and how to handle setbacks like burnout and unemployment

It's time to discover more career flexibility and achieve your long-term goals. With this must-read handbook, you'll be ready to move up, move on, and feel more fulfilled with what you do every day.

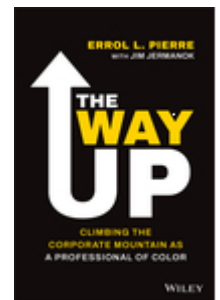
FEBRUARY 2023 UnknownPP
978-1-119-89955-6 PB \$24.30 (Japan)
Personal Career Development

The Way Up

Climbing the Corporate Mountain as a Professional of Color

ERROL PIERRE, NEW YORK, UNITED STATES & JIM JERMANOK

Practical and actionable advice for minorities seeking concrete strategies to help them move up the corporate ladder



In *The Way Up: Climbing the Corporate Mountain as a Professional of Color*, accomplished executive Dr. Errol L. Pierre delivers a pragmatic and actionable guide to help underrepresented individuals from all ethnic backgrounds achieve their professional goals and elevate their careers in today's virtual workplace. The book takes a step-by-step approach to understanding the skills and strategies required to move from entry-level and middle management roles to the executive ranks.

Readers will also find:

- A collection of key lessons and short stories containing practical advice designed to help readers achieve their professional potential
- Strategies proven to work in the real-world, full of innovative insights and practical know-how
- Tips on navigating the offices and Zoom calls that make up today's employment environment

An indispensable discussion of what it takes to succeed in today's hyper-competitive professional environment, *The Way Up* will earn a place in the libraries of newly graduated businesspeople as well as seasoned pros seeking to advance their careers.

DECEMBER 2022 240PP
978-1-119-89326-4 CL \$27.00 (Japan)
Personal Career Development

The Leadership Challenge

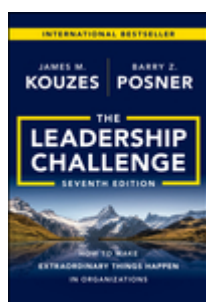
How to Make Extraordinary Things Happen in Organizations, 7th Edition

JAMES M. KOUZES, ORINDA, UNITED STATES & BARRY Z. POSNER, BERKELEY, UNITED STATES

Emeritus, Tom Peters Company;
Leavey School of Business and
Administration and Santa Clara
University

SERIES: J-B LEADERSHIP CHALLENGE:
KOUZES/POSNER

JANUARY 2023 384PP
978-1-119-73612-7 CL \$35.00 (Japan)
MANAGEMENT / LEADERSHIP



Communication and Catastrophic Events

Strategic Risk and Crisis Management

EDITOR H. DAN O'HAIR & EDITOR MARY JOHN O'HAIR

University of Kentucky, USA

Communicating Science in Times of Crisis: Communication and Catastrophic Events addresses the practical application and research implications of communication theory in the context of man-made and natural catastrophes. Bringing together contributions by leading experts in crisis management and strategic communication, this timely collection of resources links scientific issues with public policy while discussing the challenges and opportunities for using communication to manage extreme events in the evolving media landscape of the 21st century.



In this second volume of the Wiley-Blackwell *Communicating Science in Times of Crises* series, 15 substantial chapters explore a varied range of catastrophic conditions, such as mass violence incidents, disease outbreaks, catastrophic mudslides, cascading and simultaneous disasters, extreme weather events, diffusion of misinformation during crises, students traveling internationally during a global health crisis, and more. Each chapter focuses on a particular issue or concern, revealing the difficult choices that confront academics and practitioners across communication disciplines and presenting original frameworks and models alongside ongoing research programs.

Available as a standalone book or as part of a two-volume set, *Communicating Science in Times of Crisis: Communication and Catastrophic Events* is essential reading for scholars, researchers, practitioners, and advanced students in the fields of crisis communication, risk and emergency management, disaster studies, policy management, social media communication, and healthcare communication.

SERIES: COMMUNICATING SCIENCE IN TIMES OF CRISIS

FEBRUARY 2023 272PP
978-1-119-75181-6 PB \$65.95 (Japan)
Risk, Contingency & Crisis Management

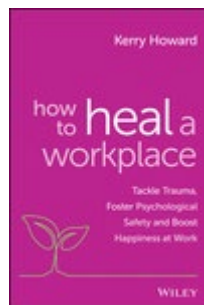
How to Heal a Workplace

Tackle Trauma, Foster Psychological Safety and Boost Happiness at Work

KERRY HOWARD

Boost wellbeing and build a robust, productive culture in your workplace

Your workplace's most powerful resource is its people. That's why it's critical to balance the needs of your business with the needs of the employees who make that business happen every day. At the heart of the matter is your workplace culture: the environments and relationships that shape your business, whether physical or virtual. *How to Heal a Workplace* shares the insights and hands-on advice that you need to better understand how your culture impacts your team. You'll learn how to manage interpersonal challenges--and anticipate the impact of policies and procedures--to create a healthier, happier and more productive environment.



Drawing on real-world stories from diverse industries, in-demand workplace mental health consultant Kerry Howard shares strategies that will help you:

- Boost employee wellbeing, and attract and retain staff by supporting their mental health
- Understand how trauma is caused by everyday events and how this impacts the workplace
- Combat bullying and harassment and prevent workplace injuries
- Foster psychological safety, improve communication, and build better relationships between colleagues

In *How to Heal a Workplace*, you'll find the practical advice you need to create a better culture, improve productivity and increase satisfaction across every area of your business.

FEBRUARY 2023 UnknownPP
978-1-394-15447-0 PB \$22.22 (Japan)
Human Resource Management

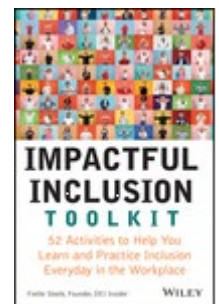
Impactful Inclusion Toolkit

52 Activities to Help You Learn and Practice Inclusion Every Day in the Workplace

YVETTE STEELE, CHICAGO

Practical, hands-on strategies to increase inclusion, diversity, and equity in your workplace

In *Impactful Inclusion Toolkit: 52 Activities to Help You Learn and Practice Inclusion Every Day in the Workplace*, accomplished diversity, equity, and inclusion (DEI) strategist and leader Yvette Steele delivers a collection of practical and hands-on exercises that encourage and promote inclusion in the workplace. The exercises emphasize the development of key inclusive behaviors, including self-knowledge, connecting with others, creating new habits, and experiencing other cultures.



In the book, you'll find:

- 52 behaviors to practice during the year that will empower you to be more inclusive in the real world
- Concrete instructions regarding *how* to become more inclusive, rather than just high-level information about inclusivity generally
- Actionable strategies to help drive change in your organization and manage the discomfort that sometimes exists around DEI issues

An effective and practical resource for anyone who wants to be more inclusive. Frontline and knowledge workers can empower themselves to drive change with weekly activities and resources. DEI and HR professionals, company founders, owners, managers, and other business leaders can better support staff on their inclusion journey. The *Impactful Inclusion Toolkit* is an essential addition to DEI strategies of any organization whether they are active or aspire to be more inclusive.

JANUARY 2023 384PP
978-1-119-93020-4 PB \$35.00 (Japan)
Training & Human Resource Development / Diversity

The DiSC Code

Use the Personality Profile to Understand Your Customer and Sell Better

GEORG DAUTH

Those who are able to assess themselves and their customers are better in adapting to their counterparts and their needs. The result: Salespeople learn how to deal with all types of customer. And the customers feel that they have been completely understood and trust the salesperson. Both sides are ultimately satisfied and happy.

Automatic success is thus guaranteed.

This is where the DiSC personality profile comes in. It deals with the basic characteristics of people. There are 4 basic types: Dominance, Influence, Steadiness and Conscientiousness. If you are aware of these types in your daily communication, you can adapt to them in a meaningful way.

Salespeople and sales representatives can clearly benefit from this knowledge. With DiSC they can better assess themselves as well as their customers and negotiation partners and alter and adjust their actions accordingly. In his new book, Georg Dauth places DiSC in the context of the sales process. The basics are explained, and helpful practical instructions are given. DiSC expert knowledge is reflected using many practical examples and the reader learns how to apply this knowledge and technique to successfully close deals in sales and distribution.



JULY 2023 250PP
978-3-527-51121-1 CL \$34.95 (Japan)
Sales Management

Joint Ventures Involving Tax-Exempt Organizations

2021 cumulative supplement, 4th Edition

MICHAEL I. SANDERS, WASHINGTON,
DC, UNITED STATES

FEBRUARY 2023 384PP
978-1-119-98520-4 PB \$150.00 (Japan)
NON-PROFIT ORGANIZATIONS / MANAGEMENT
LEADERSHIP



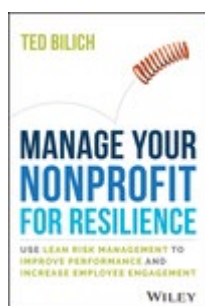
Manage Your Nonprofit for Resilience

Use Lean Risk Management to Improve Performance and Increase Employee Engagement

TED BILICH

A hands-on risk management playbook for nonprofit leaders, funders, and advisors

In *Manage Your Nonprofit for Resilience: Use Lean Risk Management to Improve Performance and Increase Engagement*, experienced nonprofit risk management expert Ted Bilich delivers a comprehensive and engaging exploration of how to keep your nonprofit vibrant, proactive, and out of trouble. In the book, you'll learn how the world's best charitable organizations employ lean risk management to prioritize, mitigate, and eliminate the most significant risks facing nonprofits today.



The author teaches you how to develop a risk management cycle and work with risks at the board level, implementing lean risk management tactics incrementally. You'll also discover:

- Discussions of fundamental risk management elements
- Sample compliance checklists, example questions to ask during risk inventories, and common challenges faced by nonprofits in a wide variety of sectors
- Strategies for confronting nascent risk and issues with radical candor and taking reasonable steps to address them before they spiral out of control

An engaging and essential resource for the managers and directors of nonprofits of all sizes, *Manage Your Nonprofit for Resilience* belongs on the bookshelves of anyone tasked with shepherding a charitable organization through an increasingly challenging and volatile environment.

DECEMBER 2022 240PP
978-1-394-15382-4 CL \$28.00 (Japan)
Non-Profit Organizations / Management Leadership

Real Estate Investing All-in-One For Dummies

THE EXPERTS AT DUMMIES, HOBOKEN, UNITED STATES

Wiley

Build wealth through real estate

Real Estate Investing All-in-One For Dummies will show new and seasoned real estate investors how to make smart decisions. With seven books in one, this complete resource will teach you how to purchase real estate, flip houses, invest in commercial real estate and foreclosures, sell your house, buy real estate internationally, and more. We even explain the ins and outs of short-term rentals like Airbnb, so all your passive income options are covered. With this book, you can start investing in real estate quickly and easily, thanks to user-friendly information and expert tips that will help you avoid costly mistakes. It's your one-stop resource for all things real estate.



- Learn how to buy and sell real estate, including how to find the best deals
- Determine whether flipping houses or short-term rental management is for you
- Maximize your earnings and minimize your tax bill in real estate investment
- Extend your reach outside the United States by investing in real estate globally

This is the perfect Dummies guide for amateur real estate investors who need a hand getting started, and for seasoned investors looking to up their game with commercial, international, and other investment strategies.

DECEMBER 2022 624PP
978-1-394-15284-1 PB \$49.99 (Japan)
Property & Real Estate

Behavioral Economics for Leaders

Research-Based Insights on the Weird, Irrational, and Wonderful Ways Humans Navigate the Workplace

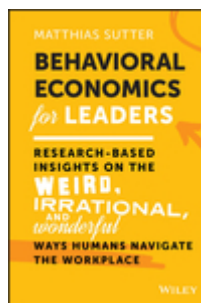
MATTHIAS SUTTER, BONN, GERMANY

Every leader should know the surprising research and strange conclusions of behavioral economics--for fairness, teamwork and productivity

You and your colleagues don't always make rational decisions. Sometimes that's a problem that leaders must address, and sometimes that can be a good thing--when employees put their colleagues interests ahead of their own. Dr. Matthias Sutter, a leading economist from Germany's world-renowned Max Planck Institute explains the latest surprising insights based on behavioral economics research. The book explains how people tick, how they react to incentives (monetary or non-monetary in nature) and what that means for working together--or against each other--at work.

Dr. Sutter summarizes new and classic behavioral science research that applies the everyday business world, so leaders can improve teams and organizations, the research-based way. Find out which factors are important for professional success, from career entry to senior management.

Individuals, organizations, and teams will benefit from the often-counterintuitive wisdom in this book. Based on the author's 20 years of research--plus the findings of the world's top behavioral economists--*Behavioral Economics for Leaders* can help you get your team and your organization where you want to lead it.



JANUARY 2023 256PP
978-1-119-98297-5 CL \$29.00 (Japan)
Business & Management Special Topics

Contract Strategies for Major Projects

Mastering the Most Difficult Element of Project Management

EDWARD W. MERROW, LANCASTER, UNITED STATES

Major Projects are Delayed by Months or Years, and Cost Millions More Than Budgeted, Because of Common Mistakes Made at the Contracting Stage

Organizations that invest huge amounts of capital in major building/industrial projects almost never do the engineering and building themselves. They hire engineering and construction contractors to do it for them. Unfortunately, selecting contractors and negotiating the terms of a major project is one of the most difficult aspects of project management...and organizations waste billions of dollars and "bake in" months or years of delay by doing it wrong. Contracting is also the area of project management that is most prone to firmly held opinions unencumbered by any facts. We intend to remedy that situation with this book.

The strategic advice in this book is designed for owners and contractor project managers, team members and supply chain, executives, and other business leaders involved in major projects. It's also an indispensable resource for engineers, leaders of industrial firms, bankers, and academics studying the messy realities of the construction and engineering industries.



DECEMBER 2022 304PP
978-1-119-90209-6 CL \$50.00 (Japan)
Business & Management Special Topics

土木工学

Reinventing Virtual Events

How To Turn Ghost Webinars Into Hybrid Go-To-Market Simulations That Drive Explosive Attendance

JUSTIN MICHAEL & JULIA NIMCHINSKI

Make your next webinar something to write home about

In *Reinventing Virtual Events: How to Turn Ghost Webinars Into Hybrid Go-To-Market Simulations That Drive Explosive Attendance*, a team of accomplished sales and coaching leaders delivers an insightful and engaging take on how to go from just holding your webinar audiences captive to truly captivating them. In the book, you'll learn a novel way to produce online experiences the authors call "Customer-Centric Events," hybrid, go-to-market simulations that generate high levels of attendance and participation.



The authors upend conventional wisdom to show you how to create unconventional webinars that dazzle prospective customers and flood your pipeline. You'll discover how to:

- Transform your product-centric pitch-offs into innovative customer-centric events that activate and engage your ideal audience
- Use the authors' signature G.A.M.E.S. framework to drive high-quality leads
- Build buzz, engagement, and interactivity directly into your virtual event and attract the top speakers in your industry

A can't-miss playbook that turns everything you know about virtual events on its head--and shakes it up for good measure--*Reinventing Virtual Events* is an essential read for founders, sales professionals, business owners, marketing professionals, and anyone else with a stake in developing successful and engaging online and hybrid events.

DECEMBER 2022 240PP
978-1-394-15925-3 CL \$30.00 (Japan)
Business & Management Special Topics

Damage and Cracking of Concrete Structures

From Theory to Practice

JACKY MAZARS & STEPHANE GRANGE

FEBRUARY 2023 UnknownPP
978-1-78630-699-9 CL \$165.00 (Japan)
Construction Materials

Seismic Retrofit of Existing Reinforced Concrete Buildings

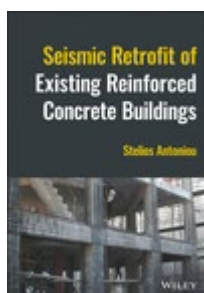
STELIOS ANTONIOU

Understand the complexities and challenges of retrofitting building infrastructure

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

Seismic Retrofit of Existing Reinforced Concrete Buildings provides a thorough book-length discussion of these techniques and their applications. Balancing theory and practice, the book provides engineers with a broad base of knowledge from which to approach real-world seismic assessments and retrofitting projects. It incorporates knowledge and experience frequently omitted from the building design process for a fuller account of this critical engineering subfield.

Seismic Retrofit of Existing Reinforced Concrete Buildings is an ideal reference for civil and structural engineering professionals and advanced students, particularly those working in seismically active areas.



FEBRUARY 2023 544PP
978-1-119-98732-1 CL \$145.00 (Japan)
Earthquake

Data Governance For Dummies

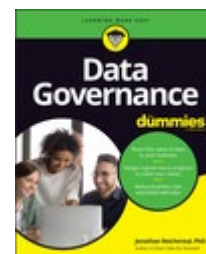
JONATHAN REICHENTAL, FOSTER CITY, UNITED STATES

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

Data Governance For Dummies offers an accessible first step for decision makers into understanding how data governance works and how to apply it to an organization in a way that improves results and doesn't disrupt. Prep your organization to handle the data explosion (if you know, you know) and learn how to manage this valuable asset. Take full control of your organization's data with all the info and how-tos you need. This book walks you through making accurate data readily available and maintaining it in a secure environment. It serves as your step-by-step guide to extracting every ounce of value from your data.

- Identify the impact and value of data in your business
- Design governance programs that fit your organization
- Discover and adopt tools that measure performance and need
- Address data needs and build a more data-centric business culture

This is the perfect handbook for professionals in the world of data analysis and business intelligence, plus the people who interact with data on a daily basis. And, as always, Dummies explains things in terms anyone can understand, making it easy to learn everything you need to know.



DECEMBER 2022 288PP
978-1-119-90677-3 PB \$34.99 (Japan)
Data Processing

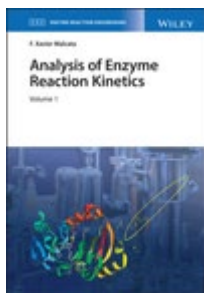
化学工学

Analysis of Enzyme Reaction Kinetics (再掲載)

F. XAVIER MALCATA

Instituto Superior da Maia

Analysis of Enzyme Reaction Kinetics is the second set in a unique eleven-volume collection on Enzyme Reactor Engineering. It describes rate expressions pertaining to enzymatic reactions, including modulation by physicochemical factors, as well as tools for prediction and control of how fast substrates are transformed to products. Volume 1 details rate expressions mathematically derived from mechanistic postulates, and is complemented by appropriate statistical approaches to fit them to experimental data. Volume 2 discusses the effects of physical and chemical parameters upon the rates of both enzyme-catalyzed and enzyme-deactivation reactions.



Starting with basic concepts and historical perspectives, the first volume introduces readers to the mathematics of rate expressions. It then goes on to cover kinetic features and the many forms of Michaelis & Menten's-type rate expressions (single and multiple enzymes, autocatalysis, single and multiple substrates, multiphasic systems, etc.), and concludes with the statistical analysis of rate expressions -- including the assessment of data, fitting of models to data, and generation of data themselves. The second volume introduces readers to physicochemical modulation of reaction rate -- starting with basic concepts, and looking specifically at temperature-, mechanical force-, pH- and compound-driven effects: both unimodal and bimodal deactivation are considered.

Analysis of Enzyme Reaction Kinetics 2V Set is a comprehensive work for those studying or working with enzyme reactions, or practitioners involved in the control of reactors.

SERIES: ENZYME REACTION ENGINEERING

FEBRUARY 2023 1472PP
978-1-119-49024-1 CL \$425.00 (Japan)
General & Introductory Chemical Engineering

Guidelines for Managing Abnormal Situations

CCPS (CENTER FOR CHEMICAL
PROCESS SAFETY)

FEBRUARY 2023 272PP
978-1-119-86287-1 CL \$150.00 (Japan)
Theory, Planning & Management

Piping Engineering

Preventing Fugitive Emission in the Oil and Gas Industry

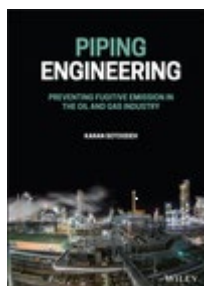
KARAN SOTOODEH

Eliminate or reduce unwanted emissions with the piping engineering techniques and strategies contained in this book

Piping Engineering: Preventing Fugitive Emission in the Oil and Gas Industry is a practical and comprehensive examination of strategies for the reduction or avoidance of fugitive emissions in the oil and gas industry. The book covers key considerations and calculations for piping and fitting design and selection, maintenance, and troubleshooting to eliminate or reduce emissions, as well as the various components that can allow for or cause them, including piping flange joints.

The author explores leak detection and repair (LDAR), a key technique for managing fugitive emissions. He also discusses piping stresses, like principal, displacement, sustained, occasional, and reaction loads, and how to calculate these loads and acceptable limits. Various devices to tighten the bolts for flanges are described, as are essential flange fabrications and installation tolerances.

Ideal for professionals in the oil and gas industry and mechanical and piping engineers, *Piping Engineering: Preventing Fugitive Emission in the Oil and Gas Industry* is also a must-read resource for environmental engineers in the public and private sectors.



OCTOBER 2022 464PP
978-1-119-85203-2 CL \$185.00 (Japan)
Process Engineering

Chemical Product Design and Formulation

Methods, Techniques, and Case Studies

ALI ELKAMEL, HESHAM ALHUMADE, NAVID OMIDBAKHS, KEYVAN NOWRUZI & THOMAS DUEVER

University of Waterloo, Ontario, Canada

Explore the cutting-edge in chemical product formulation and design

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

In addition to the background of related statistical techniques, readers will find:

- Clear illustrations, figures, and tables that improve understanding and retention of critical topics
- Thorough introductions to the mathematical principles of chemical product design
- A fulsome examination of intellectual property considerations in the chemical product design process

Ideal for process and chemical engineers, *Chemical Product Design and Formulation* is a must-read resource for pharmaceutical and cosmetics industry professionals, as well as chemical engineers working in the food, paint, and dye industries who seek a one-stop resource that includes the latest advances in chemical product formulation.



FEBRUARY 2023 224PP
978-3-527-33264-9 CL \$125.00 (Japan)
Process Development

化学

Principles and Applications of Mass Transfer

The Design of Separation Processes for Chemical and Biochemical Engineering, 4th Edition

JAIME BENITEZ

Core textbook teaching mass transfer fundamentals and applications for the design of separation processes in chemical, biochemical, and environmental engineering

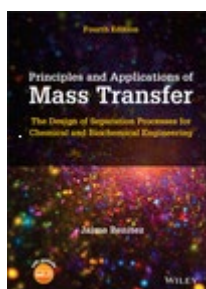
Principles and Applications of Mass Transfer teaches the subject of mass transfer fundamentals and their applications to the design of separation processes with enough depth of coverage to guarantee that students using the book will, at the end of the course, be able to specify preliminary designs of the most common separation process equipment.

Reflecting the growth of biochemical applications in the field of chemical engineering, the fourth edition expands biochemical coverage, including transient diffusion, environmental applications, electrophoresis, and bioseparations. Also new to the fourth edition is the integration of Python programs, which complement the Mathcad programs of the previous edition.

On the accompanying instructor's website, the online appendices contain a downloadable library of Python and Mathcad programs for the example problems in each chapter. A complete solution manual for all end-of-chapter problems, both in Mathcad and Python, is also provided.

Principles and Applications of Mass Transfer is an essential textbook for undergraduate chemical, biochemical, mechanical, and environmental engineering students taking a core course on Separation Processes or Mass Transfer Operations, along with mechanical engineers and mechanical engineering students starting to get involved in combined heat- and mass-transfer applications.

N/A 656PP
978-1-119-78524-8 CL \$144.95 (Japan)
BIOCHEMICAL ENGINEERING



Analytical Techniques for the Elucidation of Protein Function

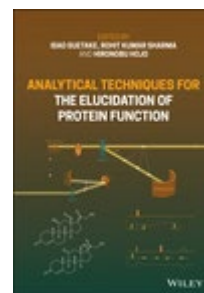
EDITOR ISAO SUETAKE, EDITOR ROHIT SHARMA & EDITOR HIRONOBU HOJO

An essential aid for scientists seeking alternative techniques for investigating proteins

Proteins are the building blocks of living organisms, and they play an enormous range of fundamental roles in sustaining and shaping life. The critical determinant of a protein's function is its structure, and the analysis of protein structures has therefore become a significant component of biological research. In recent years, longstanding analytical techniques such as X-ray crystallography and nuclear magnetic resonance (NMR) spectroscopy have been supplemented by a number of new methods which promise to revolutionize the study of proteins and their functions.

Analytical Techniques for the Elucidation of Protein Function serves as an introduction to these techniques, which are especially crucial for analyzing intrinsically disordered regions and post-translational modifications. These have revolutionized the study of proteins in recent years, and conventional methods for analyzing protein structures are no longer sufficient to work through their ramifications. This book therefore brings greater awareness of techniques which promise to produce the very cutting edge of protein research.

This practically focused text is a valuable reference for protein and peptide analysis and synthesis researchers, as well as for graduate and advanced undergraduate students in the life sciences.



FEBRUARY 2023 300PP
978-1-119-88632-7 CL \$155.00 (Japan)
Analytical Chemistry

Calibration in Analytical Science

Methods and Procedures

PAWEŁ KOŚCIELNIAK

Designed to help analytical chemists save time and money by selecting the best calibration method in a quality control, substance monitoring, or research setting

Univariate analytical calibration is a vital step in every chemical procedure that involves determining the identity or concentration of a particular substance. Depending on the type of instrument and measurement, analytical chemists need to follow different calibration strategies and protocols to ensure their instruments yield accurate readings.

Calibration in Analytical Science systematically classifies and describes a wide range of calibration methods and procedures based on mathematical and empirical models for use in qualitative and quantitative analysis. Focusing on the chemical aspects of analytical calibration, this much-needed reference uses a set of equipment-independent terms and definitions that are easily transferable to the calibration strategies of any analytical process. The theoretical basis for calibration of each analytical mode is described and applied to common analytical tasks of increasing levels of difficulty and complexity. Throughout the book, the author illustrates how to combine different calibration approaches to create new calibration strategies with extended capabilities.

Calibration in Analytical Science: Methods and Procedures is a must-have reference for analytical chemists working in academia and industry, chemists of various specialties involved in chemical analysis, and advanced undergraduate and graduate students taking courses in advanced analytical chemistry.



Spectroscopy and Computation of Hydrogen-Bonded Systems

EDITOR MAREK J. WÓJCIK & EDITOR YUKIHIRO OZAKI,
NISHINOMIYA, JAPAN

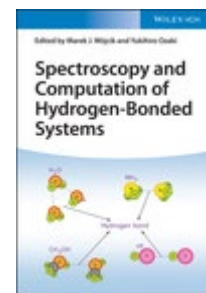
Kwansei Gakuin University, Japan

Comprehensive spectroscopic view of the state-of-the-art in theoretical and experimental hydrogen bonding research

Spectroscopy and Computation of Hydrogen-Bonded Systems includes diverse research efforts spanning the frontiers of hydrogen bonding as revealed through state-of-the-art spectroscopic and computational methods, covering a broad range of experimental and theoretical methodologies used to investigate and understand hydrogen bonding. The work explores the key quantitative relationships between fundamental vibrational frequencies and hydrogen-bond length/strength and provides an extensive reference for the advancement of scientific knowledge on hydrogen-bonded systems.

Theoretical models of vibrational landscapes in hydrogen-bonded systems, as well as kindred studies designed to interpret intricate spectral features in gaseous complexes, liquids, crystals, ices, polymers, and nanocomposites, serve to elucidate the provenance of spectroscopic findings. Results of experimental and theoretical studies on multidimensional proton transfer are also presented.

Reflecting the polymorphic nature of hydrogen bonding and bringing together the latest experimental and computational work in the field, *Spectroscopy and Computation of Hydrogen-Bonded Systems* is an essential resource for chemists and other scientists involved in projects or research that intersects with the topics covered within.



FEBRUARY 2023 360PP
978-3-527-34846-6 CL \$165.00 (Japan)
Analytical Chemistry

FEBRUARY 2023 576PP
978-3-527-34972-2 CL \$205.00 (Japan)
Spectroscopy

Levulinic Acid

A Sustainable Platform Chemical for Value-Added Products

CLAUDIO J. A. MOTA, ANA LÚCIA DE LIMA, DANIELLA R. FERNANDES & BIANCA P. PINTO

An essential overview of this renewable platform chemical with growing commercial applications

Use of fossil fuels and their derivatives has been one of the major drivers of climate change. This ongoing crisis has driven a global search for biofuels and biomass-derived chemicals which can serve as the basis for sustainable and renewable industry. One such 'platform molecule' is Levulinic acid, whose derivatives are increasingly replacing traditional fossil-derived chemicals. The importance of Levulinic acid for renewable industry is therefore only growing.

Levulinic Acid: A Sustainable Platform for Value-Added Products provides a book-length introduction to this chemical and its derivatives, like the levulinates, which applications include fuel additives, food and cosmetic preservatives, flavors, solvents, and more. The book surveys the production routes and necessary technologies involved in the production of levulinic acid, as well as its current and potential applications and typical chemical reactions. It provides a critical introduction a potentially rich source of alternative industrial material.

Levulinic Acid readers will also find:

- Production routes from different biomass materials
- Treatment of both organic and inorganic levulinates
- Extensive discussion of levulinic acid hydrogenation
- Other derivatives formed upon reaction at the keto-functionality

Levulinic Acid is the first ever book on this subject, ideal for researchers and industry professionals in green chemistry and sustainable/renewable production, as well as regulators and policymakers with a focus on the relevant industries.

FEBRUARY 2023 224PP
978-1-119-81466-5 CL \$160.00 (Japan)
Industrial Chemistry

A Guide to Virology for Engineers and Applied Scientists

Epidemiology, Emergency Management, and Optimization

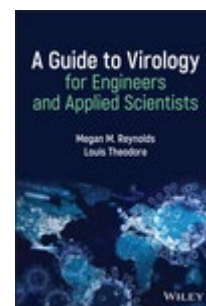
MEGAN M. REYNOLDS & LOUIS THEODORE

Manhattan College

A hands-on guide covering the fundamentals of virology written from an engineering perspective

In *A Guide to Virology for Engineers and Applied Scientists: Epidemiology, Emergency Management, and Optimization*, a team of distinguished researchers delivers a robust and accessible treatment of virology from an engineering perspective. The book synthesizes a great deal of general information on viruses—including coronaviruses—in a single volume. It provides critical context that engineers and applied scientists can use to evaluate and manage viruses encountered in the environment. The fundamental principles of virology are explored with calculation details for health and hazard risk assessments. Each chapter combines numerous illustrative examples and sample problems ideal for advanced courses in environmental health and safety, pharmaceuticals, and environmental science and engineering.

Perfect for chemical, civil, mechanical, biochemical engineers, and applied scientists, *A Guide to Virology for Engineers and Applied Scientists: Epidemiology, Emergency Management, and Optimization* will also earn a place in the libraries of industrial hygiene professionals and instructors, students, and practitioners in environmental health, pharmaceuticals, public health, and epidemiology.



FEBRUARY 2023 368PP
978-1-119-85313-8 CL \$145.00 (Japan)
Chemical and Environmental Health and Safety

Human and Ecological Risk Assessment

Theory and Practice, Set, 2nd Edition

EDITOR DENNIS J. PAUSTENBACH

McLaren Environmental Engineering, Alameda, California

FEBRUARY 2023 UnknownPP
978-1-119-55110-2 CL \$416.00 (Japan)
Chemical and Environmental Health and Safety

Drug Metabolism Handbook

Concepts and Applications in Cancer Research

2nd Edition

EDITOR ALA F. NASSAR, ASSOCIATE EDITOR PAUL F. HOLLENBERG,
ASSOCIATE EDITOR JOANN SCATINA, ASSOCIATE EDITOR SOUMEN
KANTI MANNA & ASSOCIATE EDITOR SU ZENG

**A comprehensive explanation of
drug metabolism concepts and
applications in drug development
and cancer treatment**



In the newly revised second edition of *Drug Metabolism Handbook: Concepts and Applications in Cancer Research*, a distinguished team of researchers delivers an incisive and robust exploration of the drug metabolism system and a well-illustrated and detailed explanation of the latest tools and techniques used in the research, pharmacology, and medicine. The book discusses the creation of new molecular entities, drug development, troubleshooting, and other highly relevant concepts, guiding readers through new applications in pharmaceutical research, development, and assessment.

The latest edition offers updated content on metabolism basics and the application of a variety of new techniques to cancer treatment, including mass spectrometry, imaging, metabolomics, and immunotherapy. It also offers in-depth case studies highlighting the role of metabolism in drug development.

Perfect for medicinal chemists, pharmaceutical scientists, and toxicologists, *Drug Metabolism Handbook: Concepts and Applications in Cancer Research, Second Edition* will also earn a place in the libraries of analytical chemists and drug discovery professionals.

FEBRUARY 2023 1056PP
978-1-119-85101-1 CL \$345.00 (Japan)
DRUG DISCOVERY & DEVELOPMENT

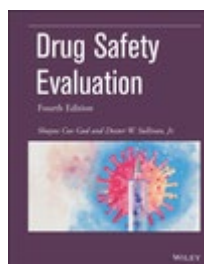
Drug Safety Evaluation

4th Edition

SHAYNE COX GAD & DEXTER W. SULLIVAN JR.

IBS, Raleigh, North Carolina

This fourth edition of *Drug Safety Evaluation* maintains the central objective of presenting an all-inclusive practical guide for those who are responsible for ensuring the safety of drugs and biologics to patients, healthcare providers, those involved in the manufacture of medicinal products, and all those who need to understand how the safety of these products is evaluated and shepherding valuable candidates to market.



Individual chapters address specific approaches to evaluation hazards, including problems that are encountered and their solutions. Also covered are the scientific and philosophical bases for evaluation of specific concerns (e.g., carcinogenicity, development toxicity, etc.) to provide both understanding and guidance for approaching the new problems that have come to face both our society and the new challenges they brought.

The many changes in regulatory requirements, pharmaceutical development, technology, and the effects of Covid on our society and science have required both extensive revision to every chapter and the addition of four new chapters.

Drug Safety Evaluation was written specifically for the pharmaceutical and biotechnology industries, including scientists, consultants, and academics, to show a utilitarian yet scientifically valid path to the everyday challenges of safety evaluation and the problem solving that is required in drug discovery and development.

SERIES: PHARMACEUTICAL DEVELOPMENT SERIES

FEBRUARY 2023 880PP
978-1-119-75585-2 CL \$345.00 (Japan)
TOXICOLOGY

Physical Chemistry of Ionic Materials

Ions and Electrons in Solids, 2nd Edition

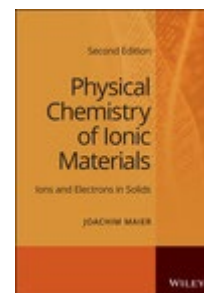
JOACHIM MAIER

Discover the physical chemistry of charge carriers in the second edition of this popular textbook

Ionic and electronic charge carriers are critical to the kinetic and electrochemical properties of ionic solids. These charge carriers are point defects and are decisive for electrical conductivity, mass transport and storage phenomena. Generally, defects are deviations from the perfect structure, and if higher-dimensional, also crucial for the mechanical properties. The study of materials science and energy research therefore requires a thorough understanding of defects, in particular the charged point defects, their mobilities and formation mechanisms.

Physical Chemistry of Ionic Materials is a comprehensive introduction to these charge carrier particles and the processes that produce, move, and activate them. Covering both core principles and practical applications, it discusses subjects ranging from chemical bonding and thermodynamics to solid-state kinetics and electrochemical techniques. Now in an updated edition with numerous added features, it promises to be the essential textbook on this subject for a new generation of materials scientists.

Physical Chemistry of Ionic Materials is a valuable reference for chemists, physicists, and any working researchers or advanced students in the materials sciences.



FEBRUARY 2023 624PP
978-1-119-79910-8 CL \$124.95 (Japan)
PHYSICAL CHEMISTRY

Silicon

Electrochemistry, Production, Purification and Applications

EIMUTIS JUZELIUNAS

The expert reference on sustainable and energy-efficient production of photovoltaic-grade silicon materials

Electrochemical methods, in particular molten-salt approaches, are a cost-effective, energy-efficient, and highly sustainable approach for producing solar-grade silicon. Surface micro- and nanostructuring methods for effective light harvesting, silicon electrorefining in molten salts, electrodeposition of photoresponsive films, and other related processes are likely to replace conventional carbothermic production methods.



Silicon: Electrochemistry, Production, Purification and Applications presents an up-to-date summary of recent experimental and technological developments in the field, highlighting sustainable and energy-efficient processes for high-grade silicon production for a variety of photovoltaic and energy applications. Presented in a logical and concise format, this authoritative volume details the fundamental properties and technical processes of metal-grade silicon production and describes the various electrochemical methods for high-grade silicon production. Topics include silicon surface modification, chemical-physical structuring, porous and black silicon, electrochemical Si surface structuring and anodizing in molten salts, and more.

Written by a leading researcher in the field, *Silicon: Electrochemistry, Production, Purification and Applications* is a valuable resource for chemists and material scientists in academia and industry, particularly those working in sustainable energy development, photovoltaics, light harvesting efficiency, solar-to-chemical conversion, and production of solar-grade silicon, batteries, photoelectrodes, or silicon-based semiconductors.

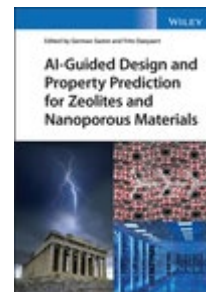
FEBRUARY 2023 296PP
978-3-527-34897-8 CL \$165.00 (Japan)
Electrochemistry

AI-Guided Design and Property Prediction for Zeolites and Nanoporous Materials

EDITOR GERMAN SASTRE & EDITOR FRITS DAEYAERT

A cohesive and insightful compilation of resources explaining the latest discoveries and methods in the field of nanoporous materials

In *Artificial Intelligence for Zeolites and Nanoporous Materials: Design, Synthesis and Properties Prediction* a team of distinguished researchers delivers a robust compilation of the latest knowledge and most recent developments in computational chemistry, synthetic chemistry, and artificial intelligence as it applies to zeolites, porous molecular materials, covalent organic frameworks and metal-organic frameworks. The book presents a common language that unifies these fields of research and advances the discovery of new nanoporous materials.



The editors have included resources that describe strategies to synthesize new nanoporous materials, construct databases of materials, structure directing agents, and synthesis conditions, and explain computational methods to generate new materials. They also offer material that discusses AI and machine learning algorithms, as well as other, similar approaches to the field.

Readers will also find a comprehensive approach to artificial intelligence applied to and written in the language of materials chemistry, guiding the reader through the fundamental questions on how far computer algorithms and numerical representations can drive our search of new nanoporous materials for specific applications. Designed for academic researchers and industry professionals with an interest in synthetic nanoporous materials chemistry, *Artificial Intelligence for Zeolites and Nanoporous Materials: Design, Synthesis and Properties Prediction* will also earn a place in the libraries of professionals working in large energy, chemical, and biochemical companies with responsibilities related to the design of new nanoporous materials.

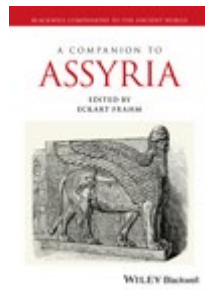
FEBRUARY 2023 512PP
978-1-119-81975-2 CL \$210.00 (Japan)
Computational Chemistry & Molecular Modeling

古典学

A Companion to Assyria

EDITOR ECKART FRAHM, UNITED STATES

A Companion to Assyria is a collection of original essays on ancient Assyria written by key international scholars. These new scholarly contributions have substantially reshaped contemporary understanding of society and life in this ancient civilization.



- The only detailed up-to-date introduction providing a scholarly overview of ancient Assyria in English within the last fifty years
- Original essays written and edited by a team of respected Assyriology scholars from around the world
- An in-depth exploration of Assyrian society and life, including the latest thought on cities, art, religion, literature, economy, and technology, and political and military history

SERIES: BLACKWELL COMPANIONS TO THE ANCIENT WORLD

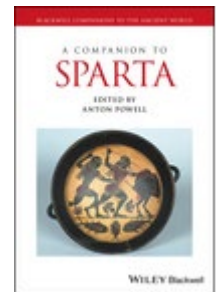
FEBRUARY 2023 640PP
 978-1-119-09227-8 PB \$46.75 (Japan)
 9781444335934 CL \$218.95 (Japan) Published, April 2017
 Ancient & Classical Studies

A Companion to Sparta

EDITOR ANTON POWELL

Classical Press of Wales, UK

The two-volume *A Companion to Sparta* presents the first comprehensive, multi-authored series of essays to address all aspects of Spartan history and society from its origins in the Greek Dark Ages to the late Roman Empire.



- Offers a lucid, comprehensive introduction to all aspects of Sparta, a community recognised by contemporary cities as the greatest power in classical Greece
- Features in-depth coverage of Sparta history and culture contributed by an international cast including almost every noted specialist and scholar in the field
- Provides over a dozen images of Spartan art that reveal the evolution of everyday life in Sparta
- Sheds new light on a modern controversy relating to changes in Spartan society from the Archaic to Classical periods

SERIES: BLACKWELL COMPANIONS TO THE ANCIENT WORLD

FEBRUARY 2023 776PP
 978-1-119-09896-6 PB \$69.95 (Japan)
 9781405188692 CL \$437.95 (Japan) Published, December 2017
 Ancient & Classical Greek & Hellenistic Studies

コンピューティング

Assimilation of Internet of Things (IoT) and Smart Grids

EDITOR P. SANJEEVIKUMAR, EDITOR RAJESH KUMAR DHANARAJ,
EDITOR MALATHY SATHYAMOORTHY, EDITOR JENS BO
HOLM-NIELSEN & EDITOR BALAMURUGAN BALUSAMY

FEBRUARY 2023 UnknownPP
978-1-119-81244-9 CL \$225.00 (Japan)
Internet General

Laptops For Seniors For Dummies

6th Edition

FAITHE WEMPEN, NOBLESVILLE, UNITED STATES
Computer Support Technician and Trainer

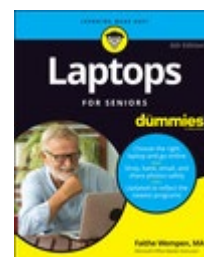
The basics you need to get more comfortable with laptops, without any of the fluff

Laptops For Seniors For Dummies is just for you. We help readers in the 55+ club get the most out of their laptops. You'll discover how to choose the best laptop for your needs and how to use

Microsoft Windows, to share photos, surf the web, use e-mail, and much more. With large text, clear graphics, and easy-to-follow instructions, this *For Seniors For Dummies* guide will get you up to speed on your new device in no time. Even if you're upgrading from a typewriter, we can help you choose the right laptop to buy, understand your operating system, use files and folders, download and install software, and stay safe online. It's all the stuff you need to know to make your laptop work for you.

- Choose and purchase the right laptop for your needs
- Navigate your Windows 10 or 11 operating system with confidence and discover useful programs
- Connect to Wi-Fi, go online, send e-mails, and get started with social media
- Protect and secure your laptop and your personal data

Whether you're purchasing your first laptop or upgrading from older technology, this Dummies guide will take you step by step through everything you need to know to get laptop savvy.



DECEMBER 2022 432PP
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COMPUTER HARDWARE (GENERAL)

Teach Yourself VISUALLY iPhone 14

GUY HART-DAVIS, BARNARD CASTLE, UNITED KINGDOM

Learn what your new iPhone 14, 14 Pro, and 14 Pro Max is capable of with 900 color screen shots!

Teach Yourself VISUALLY iPhone 14 is your ultimate guide to getting the most out of your brand-new iPhone! Apple's graphics-driven iOS 16 is perfect for visual learners, so this book uses a visual approach to show you what you need to know to get up and running--and much, much more. Full-color screen shots walk you step-by-step through setup, configuration, and the full range of your iPhone's awesome capabilities. Whether you are new to the iPhone or have just upgraded to the 14, 14 Pro, or 14 Pro Max, this book helps you unlock your phone's full functionality and maximize your use and enjoyment of it. Stay in touch by phone, text, email, FaceTime Audio or Video calls, and social media; download and enjoy books, music, movies, and more; take, edit, and organize photos and videos; track your health, fitness, and habits; manage your schedule, your commitments, and your contacts; and more!

The iPhone is user-friendly, attractive, and functional. But it is capable of so much more than you think--don't you want to explore what's possible? This book guides you through iOS 16 visually to help you stay in touch, get things done, and have some fun while you're at it!

The iPhone you hold in your hand represents the pinnacle of mobile tech and is a masterpiece of innovative design. Once you get to know it, you'll never be without it. *Teach Yourself VISUALLY iPhone 14* is your personal roadmap to your new tech companion.

SERIES: TEACH YOURSELF VISUALLY (TECH)

FEBRUARY 2023 336PP
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COMPUTER HARDWARE / MACINTOSH



Beginning Programming with Python For Dummies

3rd Edition

JOHN PAUL MUELLER, LA VALLE, UNITED STATES

Create simple, easy programs in the popular Python language

Beginning Programming with Python For Dummies is the trusted way to learn the foundations of programming using the Python programming language. Python is one of the top-ranked languages, and there's no better way to get started in computer programming than this friendly guide. You'll learn the basics of coding and the process of creating simple, fun programs right away. This updated edition features new chapters, including coverage of Google Colab, plus expanded information on functions and objects, and new examples and graphics that are relevant to today's beginning coders. *Dummies* helps you discover the wealth of things you can achieve with Python.

- Employ an online coding environment to avoid installation woes and code anywhere, any time
- Learn the basics of programming using the popular Python language
- Create easy, fun projects to show off your new coding chops
- Fix errors in your code and use Python with external data sets

Beginning Programming with Python For Dummies will get new programmers started--the easy way.



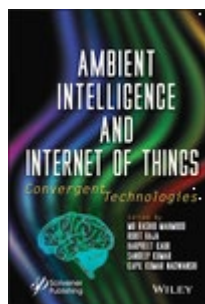
JANUARY 2023 416PP
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PROGRAMMING & SOFTWARE DEVELOPMENT

Ambient Intelligence and Internet of Things

Convergent Technologies

EDITOR MD RASHID MAHMOOD, EDITOR ROHIT RAJA, EDITOR HARPREET KAUR, EDITOR SANDEEP KUMAR & EDITOR KAPIL KUMAR NAGWANSHI

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



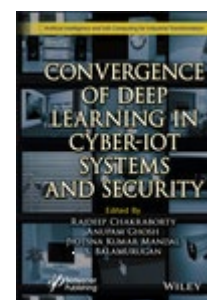
FEBRUARY 2023 432PP
978-1-119-82123-6 CL \$225.00 (Japan)
Artificial Intelligence

Convergence of Deep Learning in Cyber-IoT Systems and Security

EDITOR RAJDEEP CHAKRABORTY, EDITOR ANUPAM GHOSH, EDITOR JYOTSNA KUMAR MANDAL & EDITOR S. BALAMURUGAN

In-depth analysis of Deep Learning-based cyber-IoT systems and security which will be the industry leader for the next ten years.

The main goal of this book is to bring to the fore unconventional cryptographic methods to provide cyber security, including cyber-physical system security and IoT security through deep learning techniques and analytics with the study of all these systems.



This book provides innovative solutions and implementation of 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 implementations based on deep learning. Part III covers security and safety aspects with deep learning. Part IV details cyber-physical systems as well as a discussion on the security and threats in cyber-physical systems with probable solutions.

Audience

Researchers and industry engineers in computer science, information technology, electronics and communication, cybersecurity and cryptography.

SERIES: ARTIFICIAL INTELLIGENCE AND SOFT COMPUTING FOR INDUSTRIAL TRANSFORMATION

FEBRUARY 2023 480PP
978-1-119-85721-1 CL \$225.00 (Japan)
Artificial Intelligence

Convergence: Artificial Intelligence and Quantum Computing

Social, Economic, and Policy Impacts

EDITOR GREG VIGGIANO, WASHINGTON & FOREWORD BY DAVID BRIN

Prepare for the coming convergence of AI and quantum computing

A collection of essays from 20 renowned, international authors working in industry, academia, and government, *Convergence: Artificial Intelligence and Quantum Computing* explains the impending convergence of artificial intelligence and quantum computing. A diversity of viewpoints is presented, each offering their view of this coming watershed event.

In the book, you'll discover that we're on the cusp of seeing the stuff of science fiction become reality, with huge implications for ripping up the existing social fabric, global economy, and current geopolitical order. Along with an incisive foreword by Hugo- and Nebula-award winning author David Brin, you'll also find:

- Explorations of the increasing pace of technological development
- Explanations of why seemingly unusual and surprising breakthroughs might be just around the corner
- Maps to navigate the potential minefields that await us as AI and quantum computing come together

A fascinating and thought-provoking compilation of insights from some of the leading technological voices in the world, *Convergence* convincingly argues that we should prepare for a world in which very little will remain the same and shows us how to get ready.



JANUARY 2023 320PP
978-1-394-17410-2 CL \$32.00 (Japan)
Artificial Intelligence

Deep Learning Approaches for Security Threats in IoT Environments

MOHAMED ABDEL-BASSET, NOUR MOUSTAFA & HOSSAM HAWASH

Zagazig University, Egypt; University of New South Wales, UNSW Canberra, Australia; Zagazig University, Egypt

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 techniques, as well as reinforcement and federated learning methods for privacy preservation.

This book applies deep learning approaches to IoT networks and solves the security problems that professionals frequently encounter when working in the field of IoT, as well as providing ways in which smart devices can solve cybersecurity issues.

Perfect for professionals working in the AI, cybersecurity, and IoT industries, *Deep Learning Approaches for Security Threats in IoT Environments* will also earn a place in the libraries of undergraduate and graduate students studying deep learning, cybersecurity, privacy preservation, and the security of IoT networks.



FEBRUARY 2023 384PP
978-1-119-88414-9 CL \$150.00 (Japan)
Artificial Intelligence

Methods & Techniques in Deep Learning

Advancements in mmWave Radar Solutions

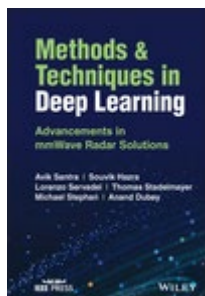
AVIK SANTRA, SOUVIK HAZRA, LORENZO SERVADEI, THOMAS STADELMAYER, MICHAEL STEPHAN & ANAND DUBEY

Introduces multiple state-of-the-art deep learning architectures for mmwave radar in a variety of advanced applications

Methods and Techniques in Deep Learning: Advancements in mmWave Radar Solutions provides a timely and authoritative overview of the use of artificial intelligence (AI)-based processing for various mmwave radar applications. Focusing on practical deep learning techniques, this comprehensive volume explains the fundamentals of deep learning, reviews cutting-edge deep metric learning techniques, describes different typologies of reinforcement learning (RL) algorithms, highlights how domain adaptation (DA) can be used for improving the performance of machine learning (ML) algorithms, and more. Throughout the book, readers are exposed to product-ready deep learning solutions while learning skills that are relevant for building any industrial-grade, sensor-based deep learning solution.

A team of authors with more than 70 filed patents and 100 published papers on AI and sensor processing illustrate how deep learning is enabling a range of advanced industrial, consumer, and automotive applications of mmwave radars. In-depth chapters cover topics including multi-modal deep learning approaches, the elemental blocks required to formulate Bayesian deep learning, how domain adaptation (DA) can be used for improving the performance of machine learning algorithms, and geometric deep learning are used for processing point clouds.

Methods and Techniques in Deep Learning: Advancements in mmWave Radar Solutions is an invaluable resource for industry professionals, researchers, and graduate students working in systems engineering, signal processing, sensors, data science and AI.



Cybersecurity Law

3rd Edition

JEFF KOSSEFF

United States Naval Academy, Annapolis, MD

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.

The thoroughly revised and updated *Cybersecurity Law* offers an authoritative guide to the key statutes, regulations, and court rulings that pertain to cybersecurity, reflecting the latest legal developments on the subject. This comprehensive text deals with all aspects of cybersecurity law, from data security and enforcement actions to anti-hacking laws, from surveillance and privacy laws to national and international cybersecurity law. New material in this latest edition includes many expanded sections, such as the addition of more recent FTC data security consent decrees, including Zoom, SkyMed, and InfoTrax.

Cybersecurity Law is an ideal textbook for undergraduate and graduate level courses in cybersecurity, cyber operations, management-oriented information technology (IT), and computer science. It is also a useful reference for IT professionals, government personnel, business managers, auditors, cybersecurity insurance agents, and academics in these fields, as well as academic and corporate libraries that support these professions.



FEBRUARY 2023 336PP
978-1-119-91065-7 CL \$150.00 (Japan)
Artificial Intelligence

FEBRUARY 2023 880PP
978-1-119-82216-5 CL \$114.95 (Japan)
COMPUTER SECURITY & CRYPTOGRAPHY

Net Zeros and Ones

How Data Erasure Promotes Sustainability, Privacy, and Security

RICHARD STIENNON, RUSS ERNST & FREDRIK FORSLUND

Design, implement, and integrate a complete data sanitization program

In *Net Zeros and Ones: How Data Erasure Promotes Sustainability, Privacy, and Security*, a well-rounded team of accomplished industry veterans delivers a comprehensive guide to managing permanent and sustainable data erasure while complying with regulatory, legal, and industry requirements. In the book, you'll discover the why, how, and when of data sanitization, including why it is a crucial component in achieving circularity within IT operations. You will also learn about future-proofing yourself against security breaches and data leaks involving your most sensitive information—all while being served entertaining industry anecdotes and commentary from leading industry personalities.

The authors also discuss:

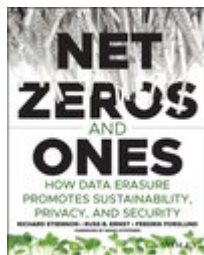
Several new standards on data erasure, including the soon-to-be published standards by the IEEE and ISO

How data sanitization strengthens a sustainability or Environmental, Social, and Governance (ESG) program

How to adhere to data retention policies, litigation holds, and regulatory frameworks that require certain data to be retained for specific timeframes

An ideal resource for ESG, data protection, and privacy professionals, *Net Zeros and Ones* will also earn a place in the libraries of application developers and IT asset managers seeking a one-stop explanation of how data erasure fits into their data and asset management programs.

FEBRUARY 2023 176PP
978-1-119-86616-9 PB \$24.99 (Japan)
Computer Security & Cryptography



Digital Twin Technology

Fundamentals and Applications

MANISHA VOHRA

The various capabilities of digital twin technology make it a powerful tool that can be used to effectively boost different sectors of the healthcare, automotive, and construction industries among others. Although this technology has been making its way into various sectors, unfortunately it has yet to receive the kind of exposure necessary to increase awareness of its potential in these industries. Therefore, a better understanding of digital twin technology is needed to promote its use in different sectors to help them grow. When properly implemented in industrial sectors, such as healthcare, automotive, etc., it will not only greatly benefit them, but will also bring about a tremendous positive transformation in them. Therefore, this book was designed to be a useful resource for those who want to become well acquainted with digital twin technology.



FEBRUARY 2023 272PP
978-1-119-84220-0 CL \$195.00 (Japan)
Software Engineering Standards

コミュニケーション

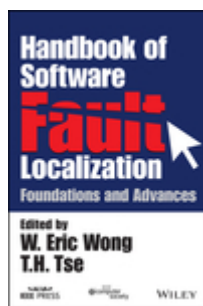
Handbook of Software Fault Localization

Foundations and Advances

EDITOR W. ERIC WONG & EDITOR T. H. TSE

University of Texas at Dallas, TX; London School of Economics
and Political Science, UK**A comprehensive analysis of fault
localization techniques and strategies**

In *Handbook of Software Fault Localization: Foundations and Advances*, distinguished computer scientists Prof. W. Eric Wong and Prof. T.H. Tse deliver a robust treatment of up-to-date techniques, tools, and essential issues in software fault localization. The authors offer collective discussions 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 localization, like multiple bugs, successful and failing test cases, coincidental correctness, faults introduced by missing code, the combination of several fault localization techniques, ties within fault localization rankings, concurrency bugs, spreadsheet fault localization, and theoretical studies on fault localization.

Readers will benefit from the authors' straightforward discussions of how to apply cost-effective techniques to a variety of specific environments common in the real world. They will also enjoy the in-depth explorations of recent research directions on this topic.

Perfect for researchers, professors, and students studying and working in the field of software fault localization, *Handbook of Software Fault Localization: Foundations and Advances* is also an indispensable resource for software engineers, managers, and software project decision makers responsible for schedule and budget control.

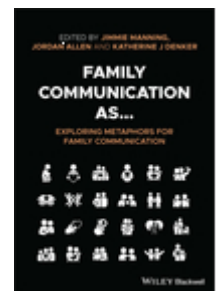
FEBRUARY 2023 592PP
978-1-119-29180-0 PB \$125.00 (Japan)
Software Measurement & Testing

**Family Communication as... Exploring
Metaphors for Family Communication**

JIMMIE MANNING, JORDAN ALLEN & KATHERINE J DENKER

**An innovative textbook that presents a
novel and compelling examination of
family communication studies**

Family Communication as... Exploring Metaphors for Family Communication presents a series of metaphors through which students explore the nuances and complexities of family interaction. With a unique approach to the foundational theories and real-world practices of family communication, this easily accessible textbook helps students develop a clear understanding of what family communication is and what it can be.



Contributions by both prominent and newer scholars theorize about family communication, offer new perspectives, challenge long-held assumptions, and describe original research to provide students with an up-to-date representation of the leading thinking in the field. Each concise chapter focuses on a specific element of family life, engaging key metaphors to stimulate classroom discussion about family in contexts ranging from ritual and embodiment to estrangement and heteronormativity. Throughout the text, students examine family metaphorically--as memory, as social identity, as estrangement, as loss, as resilience, as raced, and more.

Family Communication as... Exploring Metaphors for Family Communication is an excellent textbook for advanced undergraduate and graduate students in courses including family communication, family studies, interpersonal communication, relational communication, and communication theory. It is also a highly useful resource for scholars in fields such as media studies, psychology, sociology, social work, counseling, and public health.

FEBRUARY 2023 250PP
978-1-119-66839-8 PB \$69.95 (Japan)
Communication Studies

歯学

The Handbook of Conflict and Peace Communication

SUDESHNA ROY

An incisive collection of essays highlighting conflict and peace issues in the Global South, with coverage of theory, method, mediated, case-oriented, and innovative approaches

In *Handbook of Conflict and Peace Communication*, renowned communication and media scholar Dr. Sudeshna Roy delivers an authoritative exploration of a variety of critical conflicts in the world and a spectrum of approaches to peace communication. This book offers an in-depth view of how intricate and intractable conflicts can be and how the communicative aspects of conflict are equally challenging. The author reviews and guides readers through classic and contemporary analysis in the field, providing a truly interdisciplinary work.

Handbook of Conflict and Peace Communication is divided into five navigable sections--Theory Development, Method Development, Traditional/Digital Media and Peace and Conflict, Case Studies, and Innovative Approaches -- that help illuminate workable and innovative peace communication strategies relevant to today's conflicts.

Perfect for undergraduate and graduate students, scholars, and practitioners of peace and conflict studies, media studies, intercultural communication, human rights, and social justice, *Handbook of Conflict and Peace Communication* will also earn a place in the libraries of interdisciplinary studies involving philosophy, anthropology, political science, history, geography, economics, psychology, and others.



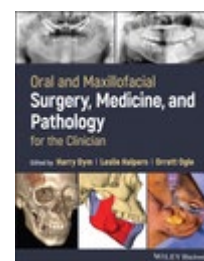
SERIES: GLOBAL HANDBOOKS IN MEDIA AND COMMUNICATION RESEARCH

FEBRUARY 2023 448PP
978-1-119-24635-0 CL \$195.00 (Japan)
Communication Studies

Oral and Maxillofacial Surgery, Medicine, and Pathology for the Clinician

HARRY DYM, LESLIE HALPERN & ORRETT OGLE

Oral and Maxillofacial Surgery, Medicine, and Pathology for the Clinician presents key clinical information on oral surgery, medicine, and pathology in a single, easy-to-use resource, covering procedures performed in the dental clinic in a clear but concise manner and putting key details at the clinician's fingertips.



Clinical scenarios are clearly described with treatment flow paths, and to enable seamless reader comprehension, charts and algorithms also support the text. The text focuses on essential office-related topics that are not esoteric but rather common in occurrence. The book speaks directly to topics of interest that will add value to the practitioner's practice. Major surgical procedures not commonly performed by practicing oral surgeons are not included.

Overall, the text contains important up-to-date information that can be immediately put to use in clinical practice. The full scope of oral surgery is thoroughly covered in this multidisciplinary, current reference, making *Oral and Maxillofacial Surgery, Medicine, and Pathology for the Clinician* an essential tool for oral and maxillofacial surgeons, general dentists, and dental students looking to build upon their foundations of practical knowledge.

FEBRUARY 2023 352PP
978-1-119-36149-7 CL \$149.99 (Japan)
Oral & Maxillofacial Surgery

Care of Head and Neck Cancer Patients for Dental Hygienists and Dental Therapists

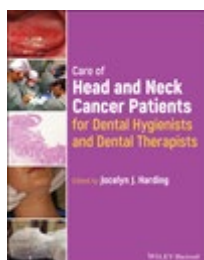
JOCELYN J. HARDING

An accessible advisory guide for dental professionals to the area of care for head and neck cancer patients

Care of Head and Neck Cancer Patients for Dental Hygienists and Dental Therapists is an advisory guide that enables dental hygienists, dental therapists, and other health care professionals to appreciate the journey undertaken by head and neck cancer patients. Focusing on the before, during, and after treatments, the book covers common head and neck cancer treatments such as surgery, radiotherapy, chemotherapy and innovative new therapies. It also discusses treatment complications such as halitosis, osteoradionecrosis, and radiation dermatitis. Some of the other sample topics discussed by the well-qualified authors include:

- An introduction to substance misuse and oral health and the early detection of mouth cancer
- The role of a dietitian in the care of head and neck cancer patients
- Proton beam therapy and transoral robotic surgery
- Physiotherapy for someone diagnosed with a head/neck cancer
- Lifestyle factors in oral cancer and pain management in head and neck cancer patients

Care of Head and Neck Cancer Patients for Dental Hygienists and Dental Therapists is an immensely valuable resource for dental hygienists, dental therapists, and other health care professionals who work in primary and secondary care.



Cleft and Craniofacial Orthodontics

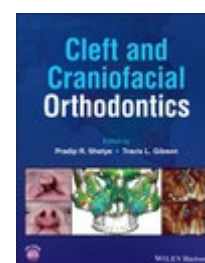
EDITOR PRADIP R. SHETYE & EDITOR TRAVIS L. GIBSON

Comprehensive reference work for managing patients with orofacial clefts and complex craniofacial conditions from birth to skeletal maturity

Cleft and Craniofacial Orthodontics is a comprehensive and detailed reference work on the management of patients with orofacial clefts and complex craniofacial conditions. Covering patients ranging from birth to skeletal maturity, the book provides orthodontists, plastic and oral and maxillofacial surgeons, speech and language therapist, pediatric dentists, and prosthodontists with the information they need to evaluate and treat these conditions. Highlighting the multidisciplinary team approach, the book aids clinicians in developing a complete plan for their patients.

Each chapter is organized to reflect clinical practice, making it easy to apply the information to the treatment setting. Additionally, a companion website offers video clips of surgical and orthodontic procedures to further aid in reader comprehension and application.

Orthodontists, plastic surgeons, craniofacial surgeons, oral and maxillofacial surgeons, speech and language therapist, pediatric dentists, prosthodontists, and otolaryngologists can use this book to attain essential knowledge on managing patients with orofacial clefts and complex craniofacial conditions and understand how to apply that knowledge to practical patient settings.



FEBRUARY 2023 678PP
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Orthodontics

FEBRUARY 2023 304PP
978-1-119-79500-1 PB \$115.00 (Japan)
Dental Hygiene & Therapy

経済学

Asia-Europe Industrial Connectivity in Times of Crisis

EDITOR LUCÍA MORALES, EDITOR SAM DZEVER & EDITOR ROBERT TAYLOR

Université Paris-Saclay, Evry, France; Employment Correspondent for the Financial Times

FEBRUARY 2023 UnknownPP
978-1-78630-862-7 CL \$165.00 (Japan)
International Economics & Trade

Money for Beginners

An Illustrated Guide

RANDALL WRAY & HESKE VAN DOORNEN

READERSHIP: MMT; Modern Monetary Theory; economics; political economics; money; monetary economics; banking; economic theory; inequality; income inequality; unemployment; heterodox economics; introductory economics; economics for beginners; macroeconomics; currency; post-Keynesian economics; currency; bankruptcy; AOC; Alexandria Ocasio-Cortez; progressivism



FEBRUARY 2023 100PP
978-1-5095-5460-7 CL \$45.00 (Japan)
978-1-5095-5461-4 PB \$12.95 (Japan)
Political Economics

教育

Reimagining the Classroom

Creating New Learning Spaces and Connecting with the World

THEODORE RICHARDS

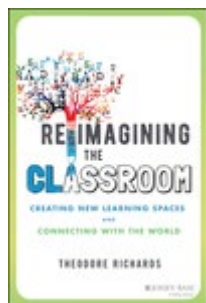
A practical approach to shared inquiry and exploration in K-12 classrooms

We are in a period of unknowns unlike any in a generation or more. As educators, we need new pathways and ideas that can help us educate children for the world to come. *Reimagining the Classroom: Creating New Learning Spaces and Connecting with the World* provides practical steps and examples that parents and educators can use to begin to create new learning spaces, approaches, and outcomes. Dr. Richards' provocative book asks us to reconsider some of our basic assumptions about teaching and learning. It helps parents and educators question and recast these assumptions and practices while providing concrete, tested activities and ideas that will help readers reimagine educational spaces rooted in the notion that classrooms--and the stories we tell in them--are a metaphor for the world we hope to create.

Reimagining the Classroom is divided into two parts. The first offers the intellectual framework parents and educators are seeking; it identifies specific problems with current approaches, offers an alternative vision and set of narratives, and then offers a new pedagogy to satisfy this vision. The second part of the book moves from the theoretical to the practical. Dr. Richards provides tested pedagogical tools for classrooms in science and math; literature and fine arts; spirituality and mindfulness; practical arts; and justice and social-emotional learning.

For educators and parents ready to consider a radical shift in service of our children's wellbeing, this book explains what, fundamentally, education can and should look like.

FEBRUARY 2023 208PP
978-1-119-87704-2 PB \$30.00 (Japan)
General & Introductory Education



電気電子工学

Defected Ground Structure (DGS) Based Antennas

Design Physics, Engineering, and Applications

DEBATOSH GUHA, CHANDRAKANTA KUMAR & SUJOY BISWAS

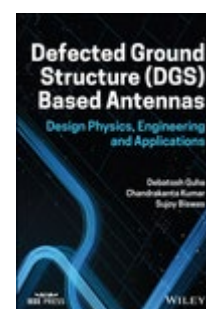
University of Calcutta

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.

The book explores major advances in the technology that have occurred since 2006, as well as the fundamentals of the research in the subject. It also presents future possibilities for new researchers to assist in the development of new studies and technologies for practicing engineers and developers.

Readers will find concepts, analysis, chronological developments, design physics, and state-of-the-art developments in the field. Perfect for students, researchers, and professionals with an interest in wireless communications, *Defected Ground Structure (DGS) Based Antennas: Design Physics, Engineering, and Applications* will also earn a place in the libraries of engineers and scientists working in space exploration and defense organizations.



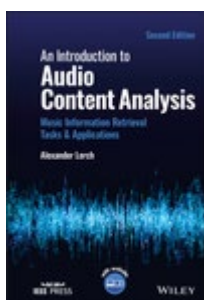
FEBRUARY 2023 250PP
978-1-119-89618-0 CL \$140.00 (Japan)
Antennas & Propagation

An Introduction to Audio Content Analysis

Music Information Retrieval Tasks and Applications
2nd Edition

ALEXANDER LERCH

An Introduction to Audio Content Analysis serves as a comprehensive guide on audio content analysis explaining how signal processing and machine learning approaches can be utilized for the extraction of musical content from audio. It gives readers the algorithmic understanding to teach a computer to interpret music signals and thus allows for the design of tools for interacting with music. The work ties together topics from audio signal processing and machine learning, showing how to use audio content analysis to pick up musical characteristics automatically. A multitude of audio content analysis tasks related to the extraction of tonal, temporal, timbral, and intensity-related characteristics of the music signal are presented. Each task is introduced from both a musical and a technical perspective, detailing the algorithmic approach as well as providing practical guidance on implementation details and evaluation.



To aid in reader comprehension, each task description begins with a short introduction to the most important musical and perceptual characteristics of the covered topic, followed by a detailed algorithmic model and its evaluation, and concluded with questions and exercises. For the interested reader, updated supplemental materials are provided via an accompanying website.

An invaluable guide for newcomers to audio signal processing and industry experts alike, *An Introduction to Audio Content Analysis* covers a wide range of introductory topics pertaining to music information retrieval and machine listening, allowing students and researchers to quickly gain core holistic knowledge in audio analysis and dig deeper into specific aspects of the field with the help of a large amount of references.

FEBRUARY 2023 448PP
978-1-119-89094-2 CL \$135.00 (Japan)
AUDIO & SPEECH PROCESSING & BROADCASTING

6G Key Technologies

A Comprehensive Guide

WEI JIANG & FA-LONG LUO

IEEE Fellow

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.

Perfect for professional engineers, researchers, manufacturers, network operators, and software developers, *6G Key Technologies: A Comprehensive Guide* will also earn a place in the libraries of graduate students studying in wireless communications, artificial intelligence, signal processing, microwave technology, information theory, antenna and propagation, system-on-chip implementation, and computer networks.

SERIES: IEEE PRESS

FEBRUARY 2023 576PP
978-1-119-84747-2 CL \$150.00 (Japan)
Mobile & Wireless Communications



Apple Watch For Dummies

2023 Edition

MARC SALTZMAN, THORNHILL, ON, CANADA

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.



- Learn how to connect your Apple Watch to your phone and start receiving messages
- Check the weather, track your fitness, and use apps on your Watch
- Make payments wirelessly by tapping your Watch at points-of-sale
- Discover all the features of the newest Apple Watch models

This is the perfect Dummies guide for first-time Apple Watch users, as well as people who are upgrading their Apple Watch and need a reference on the latest features.

DECEMBER 2022 UnknownPP
978-1-119-91260-6 PB \$29.99 (Japan)
MOBILE & WIRELESS COMMUNICATIONS

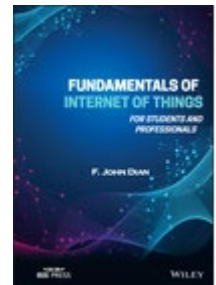
Fundamentals of Internet of Things

For Students and Professionals

F. JOHN DIAN

Fundamentals of Internet of Things: For Students and Professionals teaches the principles of IoT systems. It employs a systematic approach to explain IoT architecture models and their layers.

The textbook is arranged based on various layers of an architecture model. For readers who are unfamiliar with the concept of data communication and networks, the first chapter of this book covers the fundamentals of data communication and networks. It can also be used as review material for those who are already familiar with the concept.



The book begins with many examples of IoT use cases to show readers how IoT can be applied to various IoT verticals. The concept of smart sensors is then described, as well as their applications in the IoT ecosystem. Because internet connectivity is an essential part of any IoT system, the book explores wired and wireless connectivity schemes including cellular IoT in the 4G and 5G eras. IoT protocols, analytics, as well as IoT security and privacy are important topics that are explained in this book with simple explanations. The last chapter of this book is dedicated to IoT solution development. IoT is one of the most rapidly evolving technologies today, and there is no better guide to this rapidly expanding sector than *Fundamentals of Internet of Things (IoT) for Students and Professionals*.

Features:

- Simple explanations of complex concepts
- More than 300 exercise problems and advanced exercise questions
- Provided solutions for the exercise problems
- 10 practical IoT projects

FEBRUARY 2023 432PP
978-1-119-84729-8 CL \$125.00 (Japan)
Mobile & Wireless Communications

IoT for Defense and National Security

EDITOR ROBERT DOUGLASS, EDITOR KEITH GREMBAN, EDITOR
ANANTHRAM SWAMI & EDITOR STEPHAN GERALI

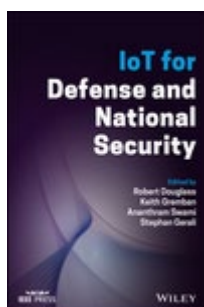
Army Research Laboratory

**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 government use of IoT in free societies.

As a modern reference, this book covers multiple technologies in IoT solution deployment that include KepServerEX for edge connectivity to industrial protocols, AWS IoT Core for IoT data processing, Amazon S3 for scalable storage of IoT Data, and more. To aid in reader comprehension, the text uses case studies illustrating the challenges and solutions for using robotic devices in defense applications, plus case studies on using IoT for a defense industrial base.

For application engineers from security and defense-related companies and professors and students in military courses, *IoT for Defense and National Security* is a one-of-a-kind resource of the topic, providing expansive coverage of an important yet sensitive topic that is often shielded from the public due to classified or restricted distributions.



FEBRUARY 2023 UnknownPP
978-1-119-89214-4 CL \$145.00 (Japan)
Mobile & Wireless Communications

Joint Communications and Sensing

From Fundamentals to Advanced Techniques

KAI WU, J. ANDREW ZHANG & YINGJIE JAY GUO

University of Technology Sydney, Australia

**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.

The book has three parts. Part I presents the basic JCAS concepts and applications and the basic signal processing algorithms to support JCAS. Part II covers communications-centric JCAS designs that describe how sensing can be integrated into communications networks such as 5G and 6G. Part III presents ways to integrate communications in various radar sensing technologies and platforms.

Joint Communications and Sensing provides valuable information and knowledge to researchers and engineers in the communications and radar sensing communities and industries, enabling them to upskill and prepare for JCAS technology research and development. The text is of particular interest to engineers in the wireless communications industry who are pursuing new capabilities in 6G.



FEBRUARY 2023 304PP
978-1-119-98291-3 CL \$135.00 (Japan)
Mobile & Wireless Communications

Low Electromagnetic Field Exposure Wireless Devices

Fundamentals and Recent Advances

EDITOR MASOOD UR REHMAN & EDITOR 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 on human health.

The text covers state-of-the-art and advanced topics such as EMF exposure standards and rationale, EMF evaluation tools, radio resource allocation, energy conservation, energy harvesting, EMF-aware antenna designs, and MIMO, and highlights advancements in this exciting field to date. To aid in reader comprehension, the text contains numerous tables, illustrations, and photographs.

For wireless user equipment's designers and hardware engineers, teachers in wireless communications, and postgraduate students in antennas for communication systems, *Low Electromagnetic Field Exposure Wireless Devices* is a must-have resource, covering an important topic that is expected to only grow in significance as future technological developments are made.



FEBRUARY 2023 224PP
978-1-119-90916-3 CL \$130.00 (Japan)
Mobile & Wireless Communications

Multimedia Streaming in SDN/NFV and 5G Networks

Machine Learning for Managing Big Data Streaming

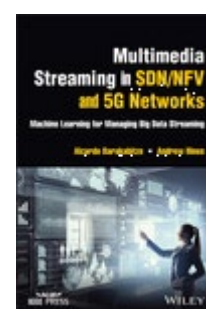
ALCARDO BARAKABITZE & ANDREW HINES

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 software-defined and virtualized 5G networks. The book offers coverage of network software-defined and virtualization technologies, including SDN, NFV, MEC, and Fog/Cloud Computing, as critical elements for the management of multimedia services in future networks, like 5G and 6G networks and beyond.

Providing a fulsome examination of end-to-end QoE control and management solutions in software-defined and virtualized networks, the book concludes with discussions of probable future challenges and research directions in emerging multimedia services and applications, 5G network management and orchestration, network slicing and collaborative service management of multimedia services in software-defined networks, and QoE-oriented business models.

Perfect for researchers and engineers in multimedia services and telecoms, *QoE Management of Multimedia Streaming Services in Future Networks* will also earn a place in the libraries of graduate and senior undergraduate students with interests in computer science, communication engineering, and telecommunication systems.



SERIES: IEEE PRESS

FEBRUARY 2023 192PP
978-1-119-80079-8 CL \$135.00 (Japan)
Mobile & Wireless Communications

Wireless Communication Security

MANJU KHARI, MANISHA BHARI & M. NIRANJANAMURTHY

FEBRUARY 2023 UnknownPP 978-1-119-77714-4 CL \$225.00 (Japan)
Mobile & Wireless Communications

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

EDITOR MUHAMMAD ALI IMRAN, EDITOR LINA MOHJAZI, EDITOR
LINA BARIAH, EDITOR SAMI MUHAIDAT, EDITOR TEI JUN CUI &
EDITOR 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 software-defined entity.



The text demonstrates IRS from different angles, including the underlying physics, hardware architecture, operating principles, and prototype designs. It enables readers to grasp the knowledge of the interplay of IRS and state-of-the-art technologies, examining the advantages, key principles, challenges, and potential use-cases. Practically, it equips readers with the fundamental knowledge of the operational principles of reconfigurable metasurfaces, resulting in its potential applications in various intelligent, autonomous future wireless communication technologies.

For students and engineers in wireless communications, microwave engineering, and radio hardware and design, *Intelligent Reconfigurable Surfaces (IRS) for Prospective 6G Wireless Networks* serves as an invaluable resource on the subject and is a useful course accompaniment for general Antenna Theory, Microwave Engineering, Electromagnetics courses.

SERIES: THE COMSOC GUIDES TO COMMUNICATIONS
TECHNOLOGIES

FEBRUARY 2023 304PP
978-1-119-87525-3 CL \$130.00 (Japan)
Communication Technology - Networks

Software-Defined Networking 2

Extending SDN Control to Large-Scale Networks

FETIA BANNOUR, SAMI SOUIHI & ABDELHAMID MELLOUK

FEBRUARY 2023 UnknownPP
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Communication Technology - Networks

Laser Inter-Satellite Links Technology

JIANJUN ZHANG & LI JING

State of the art resource covering key technologies and related theories of inter-satellite links

Inter-Satellite Links Technology explores satellite networking as a growing topic in the field of communication technology, introducing the definition, types, and working frequency bands of inter-satellite links, discussing the number of orbital elements of the spacecraft motion state under two-body motion and their conversion relationship, and establishing the basic demand model for inter-satellite link network, chain topology model, and transmission protocol model.

The book focuses on the analysis and introduction of the principles and error sources of microwave and laser inter-satellite ranging, including the basic composition, workflow, and constraints of the laser inter-satellite link, and related design principles of the inter-satellite laser transmitter and receivers. Later chapters also discuss theories and methods of acquisition, alignment, and tracking, the impact of alignment errors on performance, and inter-satellite link modulation and its implementation.

Inter-Satellite Links Technology serves a completely comprehensive resource on the subject and is a must-have reference for experts and scholars in aerospace, along with graduates and senior undergraduates in related programs of study.

FEBRUARY 2023 240PP
978-1-119-91071-8 CL \$135.00 (Japan)
Satellite Communications



Model-Based Reinforcement Learning

From Data to Continuous Actions with
Python-based Toolbox

MILAD FARSI & JUN LIU

**Explore a comprehensive and
practical approach to
reinforcement learning**

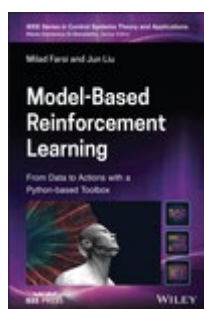
Reinforcement learning is an essential paradigm of machine learning, wherein an intelligent agent performs actions that ensure optimal behavior from devices. While this paradigm of machine learning has gained tremendous success and popularity in recent years, previous scholarship has focused either on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

Model-Based Reinforcement Learning provides a model-based framework to bridge these two aspects, thereby creating a holistic treatment of the topic of model-based online learning control. In doing so, the authors seek to develop a model-based framework for data-driven control that bridges the topics of systems identification from data, model-based reinforcement learning, and optimal control, as well as the applications of each. This new technique for assessing classical results will allow for a more efficient reinforcement learning system. At its heart, this book is focused on providing an end-to-end framework--from design to application--of a more tractable model-based reinforcement learning technique.

Model-Based Reinforcement Learning is a useful reference for senior undergraduate students, graduate students, research assistants, professors, process control engineers, and roboticists.

SERIES: IEEE PRESS SERIES ON CONTROL SYSTEMS THEORY
AND APPLICATIONS

FEBRUARY 2023 256PP
978-1-119-80857-2 CL \$135.00 (Japan)
Control Systems Technology



Electromagnetism

Links to Special Relativity

CHRISTIAN GONTRAND

INL/INSA Lyon Institute, France; INSA Fes,
Euro-Mediterranean University, Morocco

FEBRUARY 2023 UnknownPP
978-1-78630-781-1 CL \$165.00 (Japan)
Electromagnetic Theory

Introduction to Electromagnetic Compatibility

3rd Edition

CLAYTON R. PAUL, ROBERT C. SCULLY & MARK A. STEFFKA

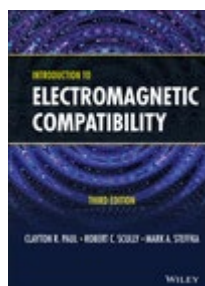
University of Kentucky, Lexington

The revised new edition of the classic textbook is an essential resource for anyone working with today's advancements in both digital and analog devices, communications systems, as well as power/energy generation and distribution.

Introduction to Electromagnetic Compatibility provides thorough coverage of the techniques and methodologies used to design and analyze electronic systems that function acceptably in their electromagnetic environment. Assuming no prior familiarity with electromagnetic compatibility, this user-friendly textbook first explains fundamental EMC concepts and technologies before moving on to more advanced topics in EMC system design.

This third edition reflects the results of an extensive detailed review of the entire second edition, embracing and maintaining the content that has "stood the test of time", such as from the theory of electromagnetic phenomena and associated mathematics, to the practical background information on U.S. and international regulatory requirements. In addition to converting Dr. Paul's original SPICE exercises to contemporary utilization of LTSPICE, there is new chapter material on antenna modeling and simulation.

The ideal textbook for university courses on EMC, *Introduction to Electromagnetic Compatibility, Third Edition* is also an invaluable reference for practicing electrical engineers dealing with interference issues or those wanting to learn more about electromagnetic compatibility to become better product designers.



NOVEMBER 2022 848PP
978-1-119-40434-7 CL \$140.95 (Japan)
ELECTROMAGNETIC COMPATIBILITY

Electromagnetic Shielding

Theory and Applications, 2nd Edition

SALVATORE CELOZZI, RODOLFO ARANEO, PAOLO BURGHIGNOLI & GIAMPIERO LOVAT

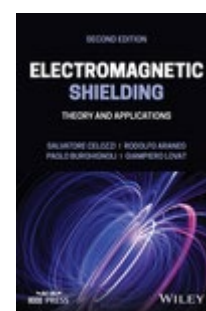
University of Roma ; University of Roma ; University of Roma

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 the possible choices of parameters suitable to ascertain the performance of a given shielding structure is also presented by considering either a continuous wave EM field source or a transient one.

To aid in reader comprehension, both a theoretical and a practical engineering point of view are presented with several examples and applications included at the end of main chapters.

For industrial researchers, telecommunications/electrical engineers, and academics studying the design of EM shielding structures, this book serves as an important resource for understanding both the logistics and practical applications of electromagnetic shielding. It also includes all recent developments in the field to help professionals stay ahead of the curve in their respective disciplines.



SERIES: IEEE PRESS

FEBRUARY 2023 560PP
978-1-119-73628-8 CL \$140.00 (Japan)
NOISE IN ELECTRONIC SYSTEMS

Grounds for Grounding

A Handbook from Circuits to Systems, 2nd Edition

ELYA B. JOFFE & KAI-SANG LOCK

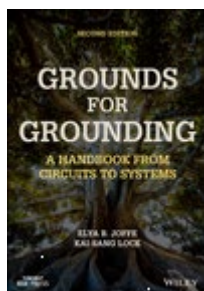
K.T.M. Project Engineering ; PQR Technologies Pte Ltd

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 for any electrical engineer.

In *Grounds for Grounding*, readers will discover a complete and thorough approach to the topic that blends theory and practice to demonstrate that a few rules apply to many applications. The book provides basic concepts of Electromagnetic Compatibility (EMC) that act as the foundation for understanding grounding theory and its applications. Each avenue of grounding is covered in its own chapter, topics from safety aspects in facilities, lightning, and NEMP to printed circuit board, cable shields, and enclosure grounding, and more.

Grounds for Grounding is a useful reference for engineers in circuit design, equipment, and systems, as well as power engineers, platform, and facility designers.



FEBRUARY 2023 1264PP
978-1-119-77093-0 CL \$165.00 (Japan)
NOISE IN ELECTRONIC SYSTEMS

Fuzzy Computing in Data Science

Applications and Challenges

EDITOR SACHI NANDAN MOHANTY, EDITOR PRASENJIT CHATTERJEE & EDITOR BUI THANH HUNG

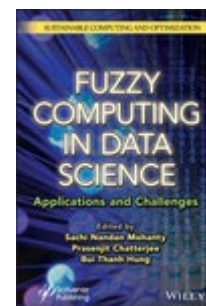
IIT Kharagpur

This book comprehensively explains how to use various fuzzy-based models to solve real-time industrial challenges.

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, system control, and identification. The book also discusses the combination of fuzzy computation techniques with other computational intelligence approaches such as neural and evolutionary computation.

Audience

Researchers and students in computer science, artificial intelligence, machine learning, big data analytics, and information and communication technology.



SERIES: SMART AND SUSTAINABLE INTELLIGENT SYSTEMS

FEBRUARY 2023 368PP
978-1-119-86492-9 CL \$195.00 (Japan)
Fuzzy Systems

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) enable efficient, accurate, and predictive real-time computations. Setting up discretized FTZNN algorithms for different time-varying matrix problems requires distinct steps.



Zeroing Neural Networks provides in-depth information on the finite-time convergence of ZNN models in solving computational problems. Divided into eight parts, this comprehensive resource covers modeling methods, theoretical analysis, computer simulations, nonlinear activation functions, and more. Each part focuses on a specific type of time-varying computational problem, such as the application of FTZNN to the Lyapunov equation, linear matrix equation, and matrix inversion. Throughout the book, tables explain the performance of different models, while numerous illustrative examples clarify the advantages of each FTZNN method.

Zeroing Neural Networks: Finite-time Convergence Design, Analysis and Applications is an essential resource for scientists, researchers, academic lecturers, and postgraduates in the field, as well as a valuable reference for engineers and other practitioners working in neurocomputing and intelligent control.

JANUARY 2023 448PP
978-1-119-98599-0 CL \$140.00 (Japan)
Neural Networks

Decision Making in Systems Engineering and Management

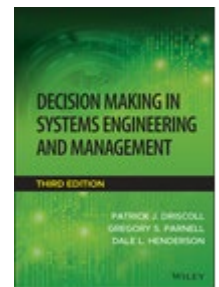
3rd Edition

EDITOR PATRICK J. DRISCOLL, EDITOR GREGORY S. PARNELL & EDITOR DALE L. HENDERSON

United States Military Academy, West Point, NY

A thoroughly updated overview of systems engineering management and decision making

In the newly revised third edition of *Decision Making in Systems Engineering and Management*, the authors deliver a comprehensive and authoritative overview of the systems decision process, systems thinking, and qualitative and quantitative multi-criteria value modeling directly supporting decision making throughout the system lifecycle. This book offers readers major new updates that cover recently developed system modeling and analysis techniques and quantitative and qualitative approaches in the field, including effective techniques for addressing uncertainty. In addition to Excel, six new open-source software applications have been added to illustrate key topics, including SIPmath Modeler Tools, Cambridge Advanced Modeller, SystemiTool2.0, and Gephi 0.9.2.



The authors have reshaped the book's organization and presentation to better support educators engaged in remote learning. New appendices have been added to present extensions for a new realization analysis technique and getting started steps for each of the major software applications. Updated illustrative examples support modern system decision making skills and highlight applications in hardware, organizations, policy, logistic supply chains, and architecture.

Perfect for undergraduate and graduate students studying systems engineering and systems engineering management, *Decision Making in Systems Engineering and Management* will also earn a place in the libraries of practicing system engineers and researchers with an interest in the topic.

OCTOBER 2022 576PP
978-1-119-90140-2 CL \$155.00 (Japan)
SYSTEMS ENGINEERING & MANAGEMENT

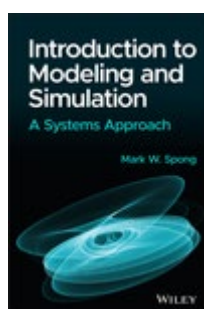
Introduction to Modeling and Simulation

A Systems Approach

MARK W. SPONG

University of Illinois at Urbana-Champaign

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



The topics covered in *Engineering Modeling and Simulation* are timeless fundamentals that provide the necessary background for further and more advanced study of one or more of the topics. The text includes topics such as linear and nonlinear dynamical systems, continuous-time and discrete-time systems, stability theory, numerical methods for solution of ODEs, PDE models, feedback systems, optimization, regression and more. Each chapter provides an introduction to the topic to familiarize students with the core ideas before delving deeper. The numerous tools and examples help ensure students engage in active learning, acquiring a range of tools for analyzing systems and gaining experience in numerical computation and simulation systems, from an author prized for both his writing and his teaching over the course of his over-40-year career.

Engineering Modeling and Simulation is aimed at undergraduate and first-year graduate engineering students studying systems, in diverse avenues within the field: electrical, mechanical, mathematics, aerospace, bioengineering, physics, and civil and environmental engineering. It may also be of interest to those in mathematical modeling courses, as it provides in-depth material on MATLAB simulation and contains appendices with brief reviews of linear algebra, real analysis, and probability theory.

FEBRUARY 2023 500PP
978-1-119-98288-3 CL \$140.00 (Japan)
Systems Engineering & Management

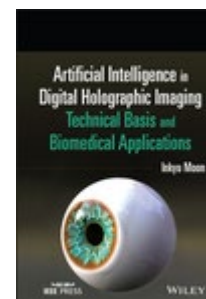
Artificial Intelligence in Digital Holographic Imaging

Technical Basis and Biomedical Applications

INKYU MOON

An eye-opening discussion of 3D optical sensing, imaging, analysis, and pattern recognition

Artificial intelligence (AI) has made great progress in recent years. Digital holographic imaging has recently emerged as a powerful new technique well suited to explore cell structure and dynamics with a nanometric axial sensitivity and the ability to identify new cellular biomarkers. By combining digital holography with AI technology, including recent deep learning approaches, this system can achieve a record-high accuracy in non-invasive, label-free cellular phenotypic screening. It opens up a new path to data-driven diagnosis.



Artificial Intelligence in Digital Holographic Imaging introduces key concepts and algorithms of AI to show how to build intelligent holographic imaging systems drawing on techniques from artificial neural networks, convolutional neural networks, and generative adversarial network. Readers will be able to gain an understanding of the basics for implementing AI in holographic imaging system designs and connecting practical biomedical questions that arise from the use of digital holography with various AI algorithms in intelligence models.

What's Inside

- Introductory background on digital holography
- Key concepts of digital holographic imaging
- Deep-learning techniques for holographic imaging
- AI techniques in holographic image analysis
- Holographic image-classification models
- Automated phenotypic analysis of live cells

For readers with various backgrounds, this book provides a detailed discussion of the use of intelligent holographic imaging system in biomedical fields with great potential for biomedical application.

FEBRUARY 2023 352PP
978-0-470-64750-9 CL \$160.00 (Japan)
Imaging Systems & Technology

Advanced Testing of Systems-of-Systems, Volume 1

BERNARD HOMES

FEBRUARY 2023 UnknownPP
978-1-78630-749-1 CL \$165.00 (Japan)
Computer Engineering

Advanced Testing of Systems-of-Systems, Volume 2

BERNARD HOMES

FEBRUARY 2023 UnknownPP
978-1-78630-750-7 CL \$165.00 (Japan)
Computer Engineering

Electromagnetic Analysis and Condition Monitoring of Synchronous Generators

JAWAD FAIZ & HOSSEIN EHYA

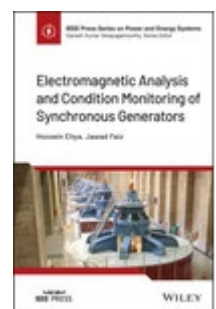
University of Tehran; Norwegian University of Science and
Technology

**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 on machine signals.

The book includes coverage of different modeling tools, including the finite element method, winding function, and magnetic equivalent circuit, as well as various types of system monitoring focusing on current, vibration, and insulation defects. Finally, *Electromagnetic Analysis and Condition Monitoring of Synchronous Generators* covers signal processing tools that can help identify hidden patterns caused by faults and tools used for condition monitoring.

Perfect for engineers working in electrical machine analysis, maintenance, and fault detection, *Electromagnetic Analysis and Condition Monitoring of Synchronous Generators* is also an indispensable resource for professors and students in electrical power engineering.



SERIES: IEEE PRESS SERIES ON POWER AND ENERGY SYSTEMS

FEBRUARY 2023 720PP
978-1-119-63607-6 CL \$140.00 (Japan)
Power Electronics

Wireless Power Transfer

Principles and Applications

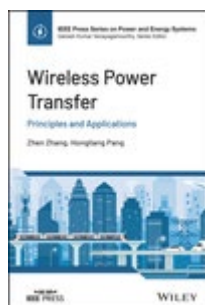
ZHEN ZHANG & HONGLIANG PANG

Presents a detailed overview of multiple-objective wireless power transfer (WPT) technologies, including the latest research developments and emerging applications

Wireless Power Transfer: Principles and Applications offers comprehensive coverage of all key aspects of wireless power transfer (WPT) technologies, including fundamental theory, intelligent control, configuration analysis, and emerging power electronics techniques. This unique resource is the first book of its kind to provide in-depth discussion of energy transmission control schemes with emphasis on omni-directional vector control, energy-encryption-based security control, and maximum efficiency and power control under various conditions.

Addressing a wide range of topics, the authors provide readers with a broad view of current WPT technologies, state-of-the-art applications, emerging power electronics techniques, and demand-based optimal designs for transmitter, pickup, and self-resonance coils. Detailed chapters discuss dynamic mutual impact and cross-coupling effects, multiple-objective inductive power transfer distribution, and a wide range of wireless power transfer technologies, from microwave beams with rectifying antennas to separable transformers in electric car charging systems.

Wireless Power Transfer: Principles and Applications is an invaluable technical reference for academic researchers and industry professionals in power and energy engineering, and an excellent textbook for postgraduate courses in relevant areas of industrial and electronic engineering.



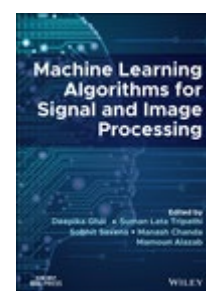
Machine Learning Algorithms for Signal and Image Processing

EDITOR SUMAN LATA TRIPATHI, EDITOR DEEPIKA GHAI, EDITOR SOBHIT SAXENA, EDITOR MANASH CHANDA & EDITOR 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

Machine Learning Algorithms for Signal and Image Processing aids the reader in designing and developing real-world applications using advances in machine learning to aid and enhance speech signal processing, image processing, computer vision, biomedical signal processing, adaptive filtering, and text processing. It includes signal processing techniques applied for pre-processing, feature extraction, source separation, or data decompositions to achieve machine learning tasks.

Professionals within the field of signal and image processing seeking to adapt their work further will find immense value in this easy-to-understand yet extremely comprehensive reference work. It is also a worthy resource for students and researchers in related fields who are looking to thoroughly understand the historical and recent developments that have been made in the field.



FEBRUARY 2023 480PP
978-1-119-86182-9 CL \$160.00 (Japan)
Signal Processing

SERIES: IEEE PRESS SERIES ON POWER AND ENERGY SYSTEMS

FEBRUARY 2023 416PP
978-1-119-65406-3 CL \$135.00 (Japan)
Power Electronics

エネルギー

Fault Analysis and its Impact on Grid-connected Photovoltaic Systems Performance

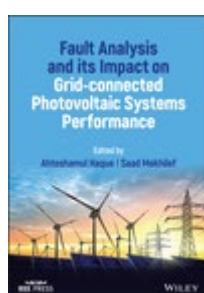
EDITOR AHTESHAMUL HAQUE & EDITOR SAAD MEKHILEF

A thorough and authoritative discussion of how to use fault analysis to prevent grid failures

In *Fault Analysis and its Impact on Grid-Connected Photovoltaic Systems Performance*, a team of distinguished engineers delivers an insightful and concise analysis of how engineers can use fault analysis to estimate and ensure reliability in grid-connected photovoltaic systems. The editors explore how failure data can be used to identify how power electronics-based power systems operate and how they can help to perform risk analysis and reduce the likelihood and frequency of failure.

The book explains how to apply different fault detection techniques—including signal and image processing, fault tolerant approaches—and explores the impact of faults in grid-connected photovoltaic systems. It offers contributions from noted experts in the field and is fully updated to include the latest technologies and approaches.

Perfect for manufacturers and engineers working in the power electronics-based power system and smart grid sectors, *Fault Analysis and its Impact on Grid-Connected Photovoltaic Systems Performance* will also earn a place in the libraries of distributed generation companies facing issues in operation and maintenance.



FEBRUARY 2023 320PP
978-1-119-87375-4 CL \$135.00 (Japan)
Solar Energy & Photovoltaics

Artificial Intelligence-based Smart Power Systems

SANJEEVIKUMAR PADMANABAN, P. SIVARAMAN, C. SHARMEELA & JENS BO HOLM-NIELSEN

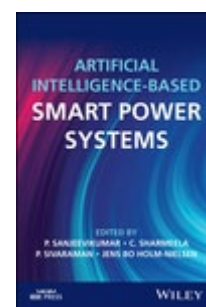
Aarhus University, Denmark

Authoritative resource describing the artificial intelligence and advanced technologies in smart power systems with simulation examples and case studies

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 reinforced learning, and artificial intelligence techniques. The text also explores the potential consequences of artificial intelligence and advanced technologies in smart power systems in the forthcoming years.

To enhance and reinforce learning, the highly qualified editors include many learning resources throughout the text, including MATLAB and HIL codes, end-of-chapter problems, end-of-book solutions, practical examples, and case studies.

Engineering colleges and universities, along with industry research centers, can use the in-depth subject coverage and the extensive supplementary learning resources found in *Artificial Intelligence-based Smart Power Systems* to gain a holistic understanding of the subject and be able to harness that knowledge within a myriad of practical applications.



FEBRUARY 2023 400PP
978-1-119-89396-7 CL \$150.00 (Japan)
Electric Power Systems

Control and Filter Design of Single Phase Grid-Connected Converters

WEIMIN WU, FREDE BLAABJERG, HENRY S. CHUNG, YUANBIN HE & MIN HUANG

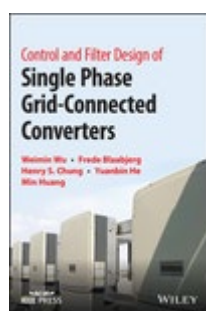
A state-of-the-art discussion of modern grid inverters

In *Control and Filter Design of Single Phase Grid-Connected Converters*, a team of distinguished researchers delivers a robust and authoritative treatment of critical distributed power generation technologies, grid-connected inverter designs, and renewable energy utilization. The book includes detailed explanations of the system structure of distributed generation (DG)-grid interface converters and the methods of controlling DG-grid interface voltage source converters (VSCs) with high-order filters.

The authors also explore the challenges and obstacles associated with modern power electronic grid-connected inverter control technology and introduce some designed systems that meet these challenges, like the grid impedance canceller.

Readers will discover demonstrations of basic principles, guidelines, examples, and design and simulation programs for grid-connected inverters based on LCL/LLCL technology.

Perfect for researchers, postgraduate students, and senior level undergraduate students of electrical engineering, *Control and Filter Design of Single Phase Grid-Connected Converters* will also benefit research & development engineers involved with the design and manufacture of power electronic inverters.



FEBRUARY 2023 304PP
978-1-119-88654-9 CL \$150.00 (Japan)
Electric Power Systems

Coordinated Operation and Planning of Modern Heat and Electricity Incorporated Networks

EDITOR MOHAMMADREZA DANESHVAR, EDITOR BEHNAM MOHAMMADI-IVATLOO & EDITOR KAZEM ZARE

A 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 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 operation and planning of heat and electricity hybrid networks. The book not only covers the coordinated operation of heat and electricity networks (HENs) but also supports the planning of HENs to provide more clarity regarding HENs' presence in the future modern MCENs.

The first part of *Coordinated Operation and Planning of Modern Heat and Electricity Incorporated Networks* provides a conceptual introduction with more emphasis on definition, structure, features, and challenges of the one and multidimensional energy networks as well as optimal operation and planning of the MHEINs. The second part of the book covers potential technologies and systems for energy production, communication, transmission and distribution, hybrid energy generation, and more. The third and fourth parts of the book investigate the optimal coordinated operation and planning of the MHEINs.

Coordinated Operation and Planning of Modern Heat and Electricity Incorporated Networks is an invaluable resource and authoritative reference for the researchers and the system engineers focusing on advanced methods for deployment of state of art technologies in the modern structure of the multi-carrier energy networks.



SERIES: IEEE PRESS SERIES ON POWER AND ENERGY SYSTEMS

FEBRUARY 2023 544PP
978-1-119-86212-3 CL \$145.00 (Japan)
Electric Power Systems

Intelligent Data Mining and Analysis in Power and Energy Systems

Models and Applications for Smarter Efficient Power Systems

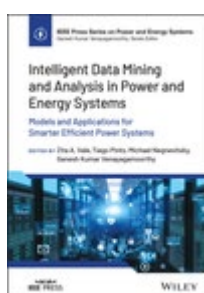
EDITOR ZITA A. VALE, EDITOR TIAGO PINTO, EDITOR MICHAEL NEGNEVITSKY & EDITOR GANESH KUMAR VENAYAGAMOORTHY

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 and energy systems. You'll find accessible descriptions of state-of-the-art advances in intelligent data mining and analysis and see how they drive innovation and evolution in the development of new technologies.

The book combines perspectives from authors distributed around the world with expertise gained in academia and industry. It facilitates review work and identification of critical points in the research and offers insightful commentary on likely future developments in the field.

Perfect for power and energy systems designers, planners, operators, and consultants, *Intelligent Data Mining and Analysis in Power and Energy Systems* will also earn a place in the libraries of software developers, researchers, and students with an interest in data mining and analysis problems.



SERIES: IEEE PRESS SERIES ON POWER AND ENERGY SYSTEMS

FEBRUARY 2023 448PP
978-1-119-83402-1 CL \$150.00 (Japan)
Electric Power Systems

Smart Energy for Transportation and Health in a Smart City

CHUN SING LAI, LOI LEI LAI & QI HONG LAI

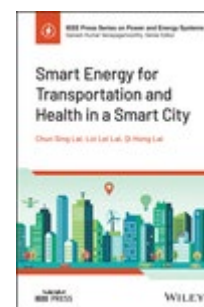
City University, London, UK

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 of energy storage, the management of networked micro-grids, coordination of virtual energy storage systems, reliability modeling and assessment of cyber space, and the development of a vehicle-to-grid voltage support. The authors review smart transportation elements such as the advanced metering infrastructure for electric vehicle charging, power system dispatching with plug-in hybrid electric vehicles, and the best practices for low power wide area network technologies. In addition, the book explores smart health that is based on the Internet of Things and smart devices that can help improve patient care processes and decrease costs while maintaining quality.

Written for practicing engineers and engineering students, *Smart Energy for Transportation and Health in Smart Cities* offers a practical guide to the various aspects that create a sustainable smart city.



SERIES: IEEE PRESS SERIES ON POWER AND ENERGY SYSTEMS

FEBRUARY 2023 496PP 978-1-119-79033-4 CL \$135.00 (Japan)
Electric Power Systems

Voltage Stability in Electrical Power Systems

Concepts, Assessment, and Methods for Improvement

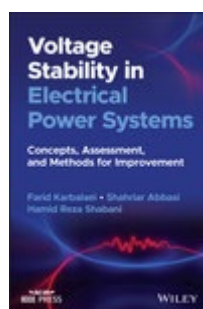
FARID KARBALAEI & SHAHRIAR ABBASI

Explore critical topics and the latest research in voltage stability in electric power systems

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 systems.

The authors explore critical topics such as load and load tap changer (LTC) transformer modeling and the impact of distributed generation and transmission-distribution interactions on voltage stability. They also present practical methods to improve voltage stability.

Perfect for engineers and other professionals designing electric power systems, *Voltage Stability in Electrical Power Systems: Concepts, Assessment and Methods for Improvement* will also earn a place in the libraries of graduate and senior undergraduate students with an interest in power systems.



FEBRUARY 2023 256PP
978-1-119-83059-7 CL \$135.00 (Japan)
Electric Power Systems

General Airgap Field Modulation Theory for Electrical Machines

Principles and Practice

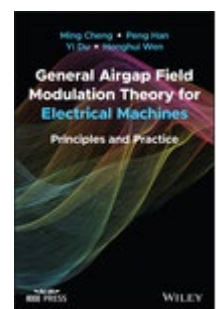
MING CHENG, PENG HAN, YI DU & HONGHUI WEN

Introducing a new theory for electrical machines

Air-gap magnetic field modulation phenomena have been widely observed in electrical machines. This book serves as the first English-language overview of these phenomena, as well as developing systematically for the first time a general theory by which to understand and research them. This theory not only serves to unify analysis of disparate electrical machines, from convention DC machines, induction machines, and synchronous machines, but also paves the way towards the creation of new electrical machine topologies.

General Airgap Field Modulation Theory for Electrical Machines includes both overviews of key concepts in electrical machine engineering and in-depth specialized analysis of the novel theory itself. It works through the applications of the developed theory before proceeding to both qualitative analysis of the theory's operating principles and quantitative analysis of its parameters.

General Airgap Field Modulation Theory is an essential introduction to this theory for postgraduates, researchers, and electrical engineers.



FEBRUARY 2023 576PP
978-1-119-90034-4 CL \$150.00 (Japan)
Electric Power Electronics

Introduction to Modern Analysis of Electric Machines and Drives

PAUL C. KRAUSE & THOMAS R. KRAUSE

Purdue University, IN; Co-Founder and Chief Executive Officer, Behavioral Science Technology, Inc.

Comprehensive resource introducing magnetic circuits and rotating electric machinery, including models and discussions of control techniques

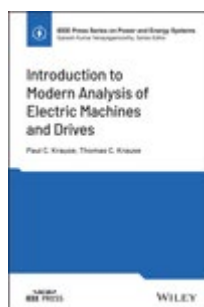
Introduction to Modern Analysis of Electric Machines and Drives is written for the junior or senior student in Electrical Engineering and covers the essential topic of machine analysis for those interested in power systems or drives engineering. The analysis contained in the text is based on Tesla's rotating magnetic field and reference frame theory, which comes from Tesla's work and is presented for the first time in an easy to understand format for the typical student.

Since the stators of synchronous and induction machines are the same for analysis purposes, they are analyzed just once. Only the rotors are different and therefore analyzed separately. This approach makes it possible to cover the analysis efficiently and concisely without repeating derivations. In fact, the synchronous generator equations are obtained from the equivalent circuit, which is obtained from work in other chapters without any derivation of equations, which differentiates *Introduction to Modern Analysis of Electric Machines and Drives* from all other textbooks in this area.

Introduction to Modern Analysis of Electric Machines and Drives is appropriate as either a first or second course in the power and drives area. Once the reader has covered the material in this book, they will have a sufficient background to start advanced study in the power systems or drives areas.

SERIES: IEEE PRESS SERIES ON POWER AND ENERGY SYSTEMS

FEBRUARY 2023 288PP
978-1-119-90815-9 CL \$125.00 (Japan)
Electric Power Electronics



Transportation Electrification

Breakthroughs in Electrified Vehicles, Aircraft, Rolling Stock, and Watercraft

EDITOR AHMED A. MOHAMED, EDITOR AHMAD ARSHAN KHAN,
EDITOR AHMED T. ELSAYED & EDITOR MOHAMED A. ELSHAER

Dive deep into the latest breakthroughs in electrified modes of transport

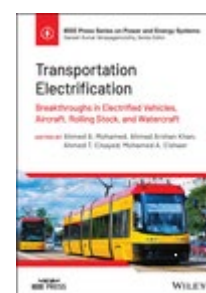
In *Transportation Electrification*, an accomplished team of researchers and industry experts delivers a unique synthesis of detailed analyses of recent breakthroughs in several modes of electric transportation and a holistic overview of how those advances can or cannot be applied to other modes of transportation. The editors include resources that examine electric aircraft, rolling stock, watercraft, and vehicle transportation types and comparatively determine their stages of development, distinctive and common barriers to advancement, challenges, gaps in technology, and possible solutions to developmental problems.

This book offers readers a breadth of foundational knowledge combined with a deep understanding of the issues afflicting each mode of transportation. It acts as a roadmap and policy framework for transportation companies to guide the electrification of transportation vessels.

Perfect for practicing professionals in the electric transport industry, *Transportation Electrification* is also a must-read resource for standardization body members, regulators, officials, policy makers, and undergraduate students in electrical and electronics engineering.

SERIES: IEEE PRESS SERIES ON POWER AND ENERGY SYSTEMS

FEBRUARY 2023 512PP
978-1-119-81232-6 CL \$135.00 (Japan)
Smart Grid



地球科学

Extraterrestrial Remote Sensing and Climate Change

SAUMITRA MUKHERJEE

Thought provoking treatise that aims to answer questions about Earth's environment based on research done through remote sensing techniques

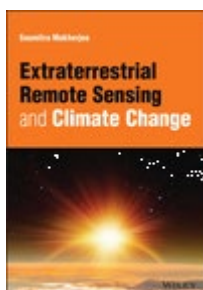
In *Extraterrestrial Remote Sensing and Climate Change*, the author addresses longstanding questions about a possible correlation between fluctuations in solar activity and changes in the Earth's atmosphere and geosphere that have been observed during periods of extraterrestrial changes such as solar eclipses or solar storms. The author goes on to suggest possible mechanisms for anomalies seen in climate change and other environmental effects through a deep examination of interdisciplinary research.

Core topics covered in the work include:

- Data from ground- based detectors and from the Solar and Heliospheric Observatory (SOHO) satellite, which monitor solar activity
- Key variables associated with sunspot eruption, such as Electron flux, Proton flux, X-ray flux, and Planetary indices
- Observable changes in other planets and their moons, as well as in cosmic radiation from beyond the sun
- Extraterrestrial effects on the Earth's magnetic field and on seismic activity

With its fresh and multidisciplinary approach, *Extraterrestrial Remote Sensing and Climate Change* is a thought-provoking treatise for students, researchers, and professionals in the fields of environmental science and climate science.

FEBRUARY 2023 176PP
978-1-119-16462-3 CL \$169.95 (Japan)
Geology & Geophysics



ファイナンス／インベストメント

The Essentials of Financial Modeling in Excel

A Concise Guide to Concepts and Methods

MICHAEL REES

Audencia Business School

A concise and practical guide to financial modeling in Excel

In *The Essentials of Financial Modeling in Excel: A Concise Guide to Concepts and Methods*, veteran quantitative modeling and business analysis expert Dr. Michael Rees delivers a practical and hands-on introduction to financial modeling in Excel. The author offers readers a well-structured and strategic toolkit to learn modeling from scratch, focusing on the core economic concepts and the structures commonly required within Excel models.

Divided into six parts, the book discusses the use of models and the factors to consider when designing and building models so that they can be as powerful as possible, yet simple.

An invaluable, all-in-one blueprint for learning financial modeling in Excel, this book is ideal for beginning and intermediate financial professionals and students seeking to build and reinforce essential topics in financial modeling.



FEBRUARY 2023 204PP
978-1-394-15778-5 PB \$55.00 (Japan)
Introductory Finance

Building Wealth on a Dime

Finding your Financial Freedom

KIMBERLY HAMILTON

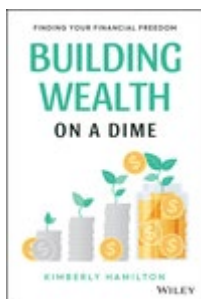
Your personal roadmap to financial freedom through small but mighty changes to your money

In a world where you have questions about money and Google has a million different answers, it can be hard to know how to make the most of what you have...

Especially if you don't have a ton of it.

In *Building Wealth on a Dime: Finding Your Financial Freedom*, financial educator and Latina Kimberly Hamilton delivers an engaging guide for building wealth through small but powerful changes to your money -- even if you're starting small. As a former student debt warrior turned homeowner, Kimberly knows this experience first-hand, but this book isn't about her. Through the financial lives of everyday moneymakers like Claire in New York, Tanya in Chicago, and Eric in Portland, Kimberly teaches you how to take control of your finances, eliminate debt, and invest for your financial future. Written in a tone that sounds more like a friend than financial advice, you'll gain the tools you need -- psychological and financial -- to change your mindset and achieve your own financial freedom.

In *Building Wealth on a Dime*, you'll discover how to shift your financial trajectory "on a dime" and gain confidence in your money ASAP. A can't-miss handbook for the everyday money maker, working professional, or soon-to-graduate, *Building Wealth on a Dime* belongs on the bookshelves of anyone seeking to improve their relationship with money and accelerate their journey to financial freedom.



FEBRUARY 2023 352PP
978-1-119-90000-9 CL \$27.95 (Japan)
Personal Finance

J.K. Lasser's Your Income Tax 2023

For Preparing Your 2022 Tax Return

J.K. LASSER INSTITUTE

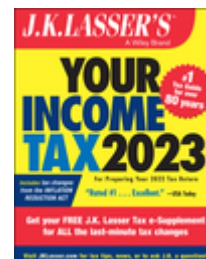
The newest entry in America's #1 all-time, best-selling personal tax guide

J.K. Lasser's Your Income Tax 2023: For Preparing Your 2022 Tax Return offers hands-on and practical advice for everyday people getting ready to file their taxes for the 2022 calendar year. You'll find info about the latest changes to the 2022 tax code, worksheets and forms you can use to file your taxes, and the most current advice on how to maximize your credits and deductions.

You'll learn how to legally keep as much money in your pocket as possible while you minimize how much Uncle Sam takes off the top. In the latest edition of this widely read and celebrated series, you'll find:

- Special features that guide you through recent Tax Court decisions and IRS rulings that govern how your deductions and credits work
- Tips and tricks on how to properly file your taxes and clever (but completely legal!) tax planning strategies that help save you money
- New information about the latest legislation from Congress and how it impacts your taxes

Trusted by Americans everywhere for over 75 years, *J.K. Lasser's Your Income Tax 2023* is the perfect book for anyone looking for the latest and most up-to-date personal tax info to help walk them through their next tax return.



SERIES: J.K. LASSER

FEBRUARY 2023 928PP
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CMT Curriculum Level I 2023

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TRADING

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Theory and Analysis

CMT ASSOCIATION

FEBRUARY 2023 800PP 978-1-394-18478-1 PB \$225.00 (Japan)
TRADING

CMT Curriculum Level III 2023

The Integration of Technical Analysis

CMT ASSOCIATION

FEBRUARY 2023 896PP
978-1-394-18479-8 PB \$225.00 (Japan)
TRADING

DeFi For Dummies

SEOYOUNG KIM, SAN FRANCISCO, UNITED STATES

Santa Clara University

Get to know the building blocks of a new economy

The promise of decentralized finance (DeFi for those up on their financial lingo) as a disruptor to financial institutions makes it must-know for anyone involved in finance. *DeFi For Dummies* provides an easy-to-understand option for unraveling the past, present, and future of DeFi. Understand current DeFi applications, including how to build basic applications on the leading platforms, and get a look into the future's most promising new DeFi solutions. Staying ahead of the game is critical for finance professionals these days, and this Dummies guide makes it possible, with full coverage of how DeFi affects asset management, lending and borrowing, and investment markets. Wrap your mind around DeFi and start getting hands on, the Dummies way.

- Learn how the DeFi revolution started and where it's going
- Get insight into opportunities for getting started and building value with DeFi
- Discover the leading assets, exchanges, and marketplaces built on DeFi principles
- Create secure DeFi applications on established platforms

This book is great for current pros or active investors in the world of finance who need to get up to speed on the world of DeFi as quickly and clearly as possible.

DECEMBER 2022 336PP
978-1-119-90680-3 PB \$29.99 (Japan)
Finance & Investments Special Topics



外国語

German Workbook For Dummies

WENDY FOSTER, GLOUCESTER, UNITED STATES

Sprechen sie Deutsch? Learn this fun language with Dummies

German Workbook For Dummies is for German beginners who want to get started learning the official language of 7 countries. Packed with foundational grammar and integrated vocab, *German Workbook For Dummies* will set new language learners on their way to an exciting experience learning this complex language. Inside, you'll find plenty of practice for an experience that supports how people learn languages most effectively. As you make your way through the workbook, your confidence will grow as you discover how to handle greetings and introductions, make small talk, and understand daily encounters... auf Deutsch!



- Practice your speaking and writing skills in German
- Grasp the basics of German grammar
- Learn functional vocabulary and common slang
- Complete exercises and activities to build your confidence

With a little help from Dummies, you'll excel in your German studies.

DECEMBER 2022 352PP
978-1-119-98667-6 PB \$19.99 (Japan)
BEGINNING GERMAN

Italian Workbook For Dummies

TERESA L. PICARAZZI, NEW HAVEN, UNITED STATES

Hopkins School, New Haven, CT

Learning Italian is easy with Dummies

Italian Workbook For Dummies is for beginners who want to get started learning Italian. Packed with foundational grammar and integrated vocab, *Italian Workbook For Dummies* will set new language learners on their way to a wonderful experience learning this beautiful romance language. This book provides valuable practice lessons and exercises so that you can learn to write and communicate in Italian with confidence. *Italian Workbook For Dummies* is also an excellent supplement for any student looking to boost their classroom learning. With the tried-and-true expertise of Dummies, you'll move through the Italian basics with ease.



- Get introduced to the Italian language, including basic grammar and pronunciation
- Complete exercises to improve your ability to write and speak in Italian
- Learn important phrases for travelling, doing business, and studying in Italy
- Build your vocabulary, discover common slang, and learn authentic expressions

This is the perfect Dummies guide for those who are brand new to the Italian language, regardless of age or background. Gain the confidence you need to interact in Italiano!

JANUARY 2023 304PP
978-1-119-98670-6 PB \$19.99 (Japan)
INTERMEDIATE ITALIAN

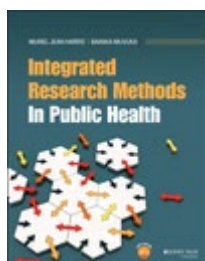
公衆衛生

Integrated Research Methods In Public Health

MURIEL J. HARRIS & BARAKA MUVUKA

Explore an integrated approach to public health research methods

In *Integrated Research Methods in Public Health*, a team of eminent public health researchers delivers an eye-opening exploration of public health research methods presented with integrative approaches to teaching that facilitate holistic and transformative learning experiences. The methods used in this book enable students to make connections between concepts and content areas more readily than with traditional approaches.



In this book, readers will find extensive use of the concept of the co-construction of learning, in which the active participation of students and instructors in an interactive, varied, and student-centered learning environment is achieved. It also includes:

- Mini case studies, team learning exercises and worksheets, and group project outlines
- Literature reviews that showcase the latest developments in the research on the subject
- Integrated considerations of ethical issues, cultural responsiveness, theoretical foundations, and philosophical underpinnings

Perfect for senior undergraduate and graduate students in public health, *Integrated Research Methods in Public Health* will also earn a place in the libraries of public health and social science academics and researchers, as well as public health practitioners and professionals working in non-profit organizations with public-health related services.

FEBRUARY 2023 368PP
978-1-119-61988-8 PB \$80.00 (Japan)
Public Health General

Applied Population Health Approaches for Asian American Communities

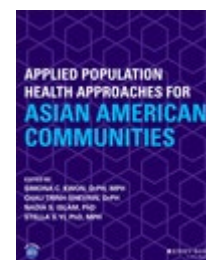
2nd Edition

EDITOR SIMONA C. KWON, EDITOR CHAU TRINH-SHEVRIN,
EDITOR NADIA S. ISLAM & EDITOR STELLA S. YI

NYU Grossman School of Medicine; NYU Grossman School of Medicine; NYU Grossman School of Medicine; NYU Grossman School of Medicine

An insightful text exploring health disparities in Asian American populations

In the newly revised Second Edition of *Applied Population Health Approaches for Asian American Communities*, a team of distinguished public health experts delivers a groundbreaking resource providing an in-depth examination of the social, political, economic, and cultural forces shaping Asian American health today.



Integrating up-to-date applied public health research for assessing health interventions and programs relevant to Asian American communities and other groups that have been historically marginalized, this book highlights the different frameworks, research designs, and other methodological considerations for reaching Asian American and other ethnic communities.

A valuable resource for all levels of health professionals, practitioners, and community advocates, *Applied Population Health Approaches for Asian American Communities* remains the leading reference for anyone conducting or studying health disparities in Asian American communities or other groups that have been marginalized.

SERIES: PUBLIC HEALTH/VULNERABLE POPULATIONS

FEBRUARY 2023 336PP
978-1-119-67856-4 PB \$89.95 (Japan)
PUBLIC HEALTH BEHAVIOR & EDUCATION

Modern Etiquette For Dummies

3rd Edition

SUE FOX, SAN LUIS OBISPO

Improve your manners, navigate uncomfortable social situations, and show greater kindness to others

Our world is constantly changing, but something that always remains true? Manners matter. Etiquette is about more than just knowing which fork to use at a fancy dinner or how to write a thank-you note. *Modern Etiquette For Dummies* shows you how to navigate tricky interpersonal scenarios and tough workplace dilemmas with ease. With the help of Dummies, you'll toss aside stuffy old notions of etiquette and discover how to conduct yourself in various environments. This book is full of helpful tips on tackling today's unique challenges, including how to use the right pronouns, how to behave on social media, how to maintain professionalism in hybrid work settings (like when is it okay to turn off your camera during a Zoom meeting?), and how to put your phone down so you can focus on what matters.

- Learn important social expectations in informal, formal, and workplace settings
- Discover how to navigate pronouns when unsure of someone's gender identity
- Get up to date on the etiquette surrounding remote work, video calls, and more
- Improve your reputation and communicate better with friends and family

This Dummies reference is great for anyone who wants improved manners. Entering the business world? Traveling overseas? Hosting a dinner party? This is the book you need.



DECEMBER 2022 384PP
978-1-119-98284-5 PB \$24.99 (Japan)
PUBLIC HEALTH BEHAVIOR & EDUCATION

A Project Manager's Book of Templates

CYNTHIA SNYDER DIONISIO, TEMECULA, UNITED STATES

A helpful compendium of ready-made templates for managing every project in alignment with the latest PMBOK® Guide, 7th ed.



Project Management is a growing discipline that has seen considerable recent development. Project managers are now expected to deploy predictive and adaptive methods, and to draw upon a considerable base of knowledge in developing and formalizing project plans. The Project Management Institute (PMI) publishes the authoritative Project Management Body of Knowledge (PMBOK® Guide), which contains the global standard for the Project Management profession.

A Project Manager's Book of Templates is a vital companion to the PMBOK® Guide, providing a comprehensive set of templates and reports that helps project managers translate the content of the Guide into practical applications. It promises to be an indispensable resource for professionals in this fast-moving field.

A Project Manager's Book of Templates readers will also find:

- Templates covering all types of work, such as starting, planning, project documents, logs and registers, and reports and audits.
- Templates representing all updated features of the PMBOK® Guide, including hybrid, adaptive and iterative practices, including Agile
- Easy, readable structure that moves project managers through the different types of work that is performed in project

A Project Manager's Book of Templates is an essential companion for those preparing for the PMP Certification Exam, as well as practitioners and consultants to a range of global industries.

FEBRUARY 2023 256PP
978-1-119-86450-9 PB \$85.00 (Japan)
Industrial Engineering / Project Management

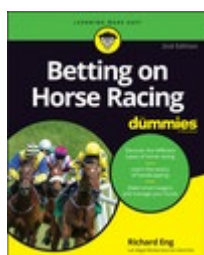
ライフスタイル

Betting on Horse Racing For Dummies

2nd Edition

RICHARD ENG, LAS VEGAS, NV, UNITED STATES

Betting on Horse Racing For Dummies is packed with information that teaches you the ins and outs of the racetrack. You'll learn how to improve your odds, avoid common betting mistakes, and just plain have fun at the races. This is a spectator's easy-to-understand guide, so you'll have no trouble identifying the racing breeds with their strengths and weaknesses, sizing up the jockey, understanding the importance and role of a trainer, placing bets, managing money, and beyond. Can't make it to the track? No worries! You'll get the scoop on online betting with off track betting sites and apps. This update covers the latest changes in the betting world and in the racing world, so you'll know just what you're wagering.



- Learn about the different types of horse racing
- Discover and identify the best racing breeds
- Know your jockeys and trainers
- Make smart wagers and manage your funds

For beginning betters, *Betting on Horse Racing For Dummies* is your ticket to well informed wagers and a winning edge. Already know the ropes? You'll love the market trends and insider tips you'll find inside.

DECEMBER 2022 384PP
978-1-119-90892-0 PB \$24.99 (Japan)
SPORTS & GAMES (GENERAL)

Downsizing For Dummies

RALPH R. ROBERTS, CLINTON, UNITED STATES

**Organize, declutter, donate--downsize
and simplify your life**

Downsizing For Dummies provides you with strategies to downsize your life by moving to a smaller home, decluttering, simplifying your budget, and saving more money. You'll find tips to help decrease your cost of living, lower your home maintenance costs, protect and leverage your assets, and decide whether downsizing is right for you and your family. After downsizing your life, you'll save time on household chores and gain the freedom and flexibility that come with having fewer possessions. What will you do with all the time you save? *Downsizing For Dummies* will help you understand the benefits of living simply!



- Discover ways to declutter and simplify every corner of your life
- Weight the pros and cons of moving to a smaller home
- Save time and money by cutting down on your chores and home maintenance
- Experience a reduced stress level when you create space at home and work

This book is for anyone who is ready to live clutter-free and to downsize. It's the perfect Dummies guide for homeowners looking to save money, plus real estate brokers who are working with clients who are downsizing, and designers and builders of new homes who want to stay on top of the downsizing trend.

FEBRUARY 2023 384PP
978-1-119-91006-0 PB \$22.99 (Japan)
Home Improvement

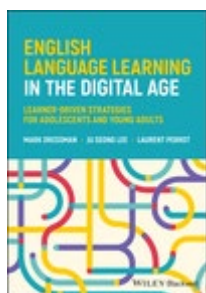
言語学

English Language Learning in the Digital Age

Learner-Driven Strategies for Adolescents and Young Adults

MARK DRESSMAN, JU SEONG LEE & LAURENT PERROT

Teaching English in the Digital Age is a comprehensive introduction to the theoretical background and real-world application of IDLE (Informal Digital Learning of English). Designed for teachers and future teachers preparing to teach English as a second or other language, this highly practical guide focuses on incorporating digital technology into curricula to draw upon the extracurricular exposures to English that many students experience outside of the classroom. With some creativity and care, teachers can find ways to bring these experiences with English into the classroom, ultimately improving student learning outcomes.



Offering a specific focus on examples and case studies drawn from language education in the Middle East, Asia, and Europe, this text employs a three-part structure beginning with the theories behind autonomous learning and the importance of informal language learning for young adults. Part two demonstrates various methods for integrating games, social media, e-books, language software, mobile apps, and other digital resources into the classroom. The third section addresses the use of IDLE methods to bridge the gap between informal and formal uses of English, the advantages and disadvantages of IDLE in flipped classrooms and online teaching, and how IDLE strategies can enhance mandated curricula and better prepare students for national exams. The book concludes with a brief discussion of the future of language learning and the need to include digital technologies and learner-driven strategies in education policy.

Teaching English in the Digital Age is an ideal textbook for upper-level undergraduate and graduate students in the fields of language education and language acquisition, as well as teachers and teachers-in-training who are preparing to teach English in countries where English is not the primary language.

FEBRUARY 2023 300PP
978-1-119-81035-3 PB \$48.95 (Japan)
Educational Linguistics

The Chaucer Encyclopedia, 4 Volumes

(再掲載)

EDITOR-IN-CHIEF RICHARD NEWHAUSER, ASSOCIATE EDITOR VINCENT GILLESPIE, ASSOCIATE EDITOR JESSICA ROSENFELD & ASSOCIATE EDITOR KATIE WALTER

Arizona State University-Tempe; University of Oxford; Washington University in St. Louis; University of Sussex

The Chaucer Encyclopedia provides the most comprehensive overview to date of the life, times, works, sources/analogues, and influence of Geoffrey Chaucer (b. 1340s -- d. 1400). It also makes accessible the approaches readers have taken to understanding Chaucer's oeuvre, as well as the analogues and sources (direct or intermediary, contemporary or from the distant past) of Chaucer's works. Providing nearly 1400 entries, more than any similar work on the market today, *The Chaucer Encyclopedia* is the best source for a new generation of students and scholars.



The Chaucer Encyclopedia includes material on:

- Important people, places, things, and concepts in Chaucer's life and works that influenced and shaped him as a writer
- Chaucer's influence on generations of writers after him, including authors around the world who continue to look to Chaucer's texts for inspiration
- Various other topics that are of particular significance to those pursuing in-depth Chaucer scholarship

The Chaucer Encyclopedia is an all-in-one resource for those interested in Geoffrey Chaucer. It is a key literary resource for undergraduate, graduate, and some secondary school students, teachers, and informed general readers.

FEBRUARY 2023 2000PP
978-1-119-08799-1 CL \$860.00 (Japan)
Old & Middle English

ライフサイエンス

Sounds of English Worldwide

RAYMOND HICKEY

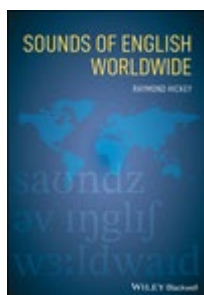
Essen University, Germany

An in-depth exploration of the sound systems of varieties of English around the world, written by a renowned authority in the field

In *Sounds of English Worldwide*, Raymond Hickey delivers a rigorous overview of the sound systems of varieties of English throughout the world. Beginning with an overview of the history and contexts of global varieties of English, this book guides readers through the spread of English during the colonial era leading up to the present day. The second section of the book broadly considers developments in the English-speaking world, accounting for the factors that triggered regional changes and resulted in diverse scenarios for English, including language contact and shift, new dialect formation, and the use of English in non-anglophone contexts.

To assist students in learning how to approach the study of varieties of English, this valuable text addresses research questions of general interest to linguists and explores a variety of fieldwork methods commonly used by researchers in the area.

Perfect for graduate students, advanced undergraduate students, and researchers studying varieties of Englishes, *Sounds of English Worldwide* will earn a place in the libraries of linguists and students studying Englishes worldwide from a sociolinguistic perspective as well as language contact, bilingualism, the rise of new varieties along with English phonetics and phonology more generally.



FEBRUARY 2023 UnknownPP
978-1-119-13127-4 PB \$59.95 (Japan)
Modern & World English

Microbiomics and Sustainable Crop Production

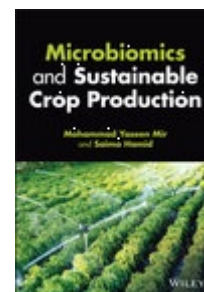
MOHAMMAD Y. MIR & SAIMA HAMID

Highly detailed resource covering microbiome research, new omics, and gene editing technologies and approaches

Microbiomics and Sustainable Crop Production presents an overview of the current state of the art in microbiome research, discussing many new technologies and approaches in order to bridge knowledge gaps between field and lab experimental systems. New and emerging strategies to improve the survival and activity of microbial inoculants are covered, including the use of selected indigenous microbes, optimizing microbial delivery methods, and taking advantage of modern gene editing tools to engineer microbial inoculants.

The two highly qualified authors address new molecular tools and powerful biotechnological advances, providing readers with knowledge of the complex chemical and biological interactions that occur in the rhizosphere and ensuring that strategies to engineer the rhizosphere are safe, beneficial to productivity, and result in improvements to the sustainability of agricultural systems. The relationship between phyllosphere microbial communities and functional traits of plants is also explored. Finally, approaches and priority areas for future research on phyllosphere microbiology are suggested.

For students of plant biotechnology, agricultural sciences, and agricultural engineering, along with researchers working in related fields, *Microbiomics and Sustainable Crop Production* is an important resource to understand many complex modern ideas related to the subject and how they can be applied to practical applications.



FEBRUARY 2023 375PP
978-1-119-79931-3 CL \$200.00 (Japan)
Microbial Ecology

Marine Radioecology, Volume 6

JEAN-CLAUDE AMIARD

University of Nantes, France

FEBRUARY 2023 UnknownPP
978-1-78630-779-8 CL \$165.00 (Japan)
Marine Ecology

Conservation Social Science

Understanding People, Conserving Biodiversity

EDITOR DANIEL C. MILLER, EDITOR IVAN R. SCALES & EDITOR
MICHAEL B. MASCIA

Texas Woman's University, Denton, TX

Earth's biodiversity is in crisis. Forests are shrinking, fisheries are collapsing, and species are disappearing around the globe. Drawing upon the biological sciences, the conservation community has responded to this crisis by investing billions of dollars in programs designed to protect endangered species and ecosystems. While conservation efforts sometimes fail because of biological ignorance, conservationists more often get the biology "right," but still fail to preserve target species and ecosystems.



This book is a rigorous, clearly articulated, and comprehensive introduction to the role of social scientific theory and knowledge in conservation policy and practice. The authors are leading scholars at the nexus of social science and biodiversity conservation, and seek to present a book that will transform the prevailing conservation paradigm by discussing how social scientific theory and knowledge can inform and strengthen conservation policy and practice.

The book is relevant to teachers and students in the following university departments: Ecology and Evolution, Conservation Biology, Political Science, Anthropology, Geography, Sociology and Economics.

With a wide readership among students, faculty, and conservation professionals, this book demonstrate the "real world" relevance of the field.

FEBRUARY 2023 368PP
978-1-4443-3757-0 CL \$174.95 (Japan)
Conservation Science

Plant Breeding Reviews, Volume 46

SERIES EDITOR IRWIN GOLDMAN

University of Wisconsin-Madison, USA

Plant Breeding

Reviews presents state-of-the-art reviews on plant genetics and the breeding of all types of crops by both traditional means and molecular methods. Many of the crops widely grown today stem from a very narrow genetic base; understanding and preserving crop genetic resources is vital to the security of food systems worldwide. The emphasis of the series is on methodology, a fundamental understanding of crop genetics, and applications to major crops.



SERIES: PLANT BREEDING REVIEWS

FEBRUARY 2023 720PP
978-1-119-87412-6 CL \$395.00 (Japan)
Plant Science

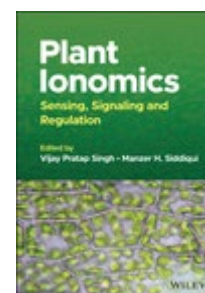
Plant Ionomics

Sensing, Signaling and Regulation

EDITOR VIJAY PRATAP SINGH & EDITOR MANZER H. SIDDIQUI

A thoroughly up-to-date exploration of nutrient uptake in plants

In *Plant Ionomics: Sensing, Signaling, and Regulation*, accomplished botanists and researchers Dr. Vijay Singh and Dr. Manzer Siddiqui deliver an up-to-date discussion of the sensing, signaling, and regulation of nutrient uptake in plants under a variety of conditions. The book offers an accessible and easy-to-use reference for researchers with an interest in plant ionomics, combining the latest research from leading laboratories around the globe.



The authors provide coverage of a variety of critical topics, including plant and soil nutrient stoichiometry, nutrient management and stress tolerance in crops, and the relationship between agricultural production and nutrient applications. Readers will also find:

- A thorough introduction to nutrient regulation and abiotic stress tolerance in plants
- In-depth discussions of nutrient uptake and transport in plants and the role of nutrients in ROS metabolism
- Practical explorations of nutrient and sugar signaling and associated gene networks in plants
- Extensive treatments of the role of nutrients in plant-microbe interactions and nutrient-use efficiency in plants

Perfect for students, researchers, academics, and scientists with an interest in plant nutrition, *Plant Ionomics: Sensing, Signaling, and Regulation* will also earn a place in the libraries of professionals in the agriculture and pharmaceutical industries.

FEBRUARY 2023 304PP
978-1-119-80301-0 CL \$200.00 (Japan)
Plant Science

Plants as Bioreactors for Industrial Molecules

EDITOR SANTOSH KUMAR UPADHYAY, CHANDIGARH, INDIA &
EDITOR SUDHIR P. SINGH, MOHALI, INDIA

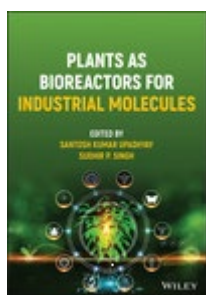
Panjab University, Chandigarh, India; Center of Innovative
and Applied Bioprocessing, Mohali, India

An incisive and practical discussion of how to use plants as bioreactors

In *Plants as Bioreactors for Industrial Molecules*, a team of distinguished researchers delivers an insightful and global perspective on the use of plants as bioreactors. In the book, you'll find coverage of the basic, applied, biosynthetic, and translational approaches to the exploitation of plant technology in the production of high-value biomolecules. The authors focus on the yield and quality of amino acids, vitamins, and carbohydrates.

The authors explain how high-value biomolecules enable developers to create cost-effective biological systems for the production of biomolecules useful in a variety of sectors. They provide a holistic approach to plant-based biological devices to produce natural molecules of relevance to the health and agriculture industries.

Perfect for academics, scientists, and researchers in industrial microbiology and biotechnology, *Plants as Bioreactors for Industrial Molecules* will also earn a place in the libraries of biotechnology company professionals in applied product development.



FEBRUARY 2023 544PP
978-1-119-87508-6 CL \$200.00 (Japan)
Plant Biotechnology

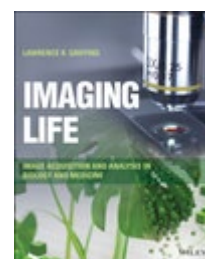
Imaging Life

Image Acquisition and Analysis in Biology and
Medicine

LAWRENCE R. GRIFFING

Texas A&M University

- An accessible resource covering all aspects of scientific imaging; from creating pictures to processing and analysis
- Written for understanding with a limited mathematical and computer programming background



- Comprehensive reference for professionals and students in a broad range of disciplines, from behavioral ecology to molecular biology and the health sciences
- Optional accompanying lab manual with inquiry-based laboratories and web-based resources that include links to the primary literature and existing Java applet and video tutorials

MARCH 2023 640PP
978-1-119-94920-6 CL \$185.00 (Japan)
Microscopy

文学

Systems Biology Modelling and Analysis

Formal Bioinformatics Methods and Tools

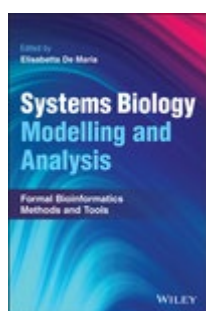
EDITOR ELISABETTA DE MARIA

Describes important modelling and computational methods for systems biology research to enable practitioners to select and use the most suitable technique

Systems Biology Modelling and Analysis provides an overview of state-of-the-art techniques and introduces related tools and practices to formalize models and automate reasoning for systems biology. The authors present and compare the main formal methods used in systems biology for modelling biological networks, including discussion of their advantages, drawbacks, and main applications.

Each chapter includes an intuitive presentation of the specific formalism, a brief history of the formalism and of its applications in systems biology, a formal description of the formalism and its variants, at least one realistic case study, some applications of formal techniques to validate and make deep analysis of models encoded with the formalism, and a discussion on the kind of biological systems for which the formalism is suited, along with concrete ideas on its possible evolution.

For systems biologists, biochemists, bioinformaticians, molecular biologists, pharmacologists, and computer scientists, *Systems Biology Modelling and Analysis* is a comprehensive all-in-one resource to understand and harness the field's current models and techniques while also preparing for their potential developments in coming years with the help of the author's expert insight.



FEBRUARY 2023 464PP
978-1-119-71653-2 CL \$215.00 (Japan)
Bioinformatics & Computational Biology

Reading Shakespeare's Poetry

EDITOR DYMPNA CALLAGHAN

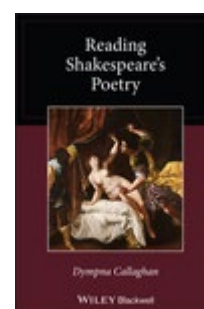
Syracuse University

A lively exploration of Shakespeare's poems and how they speak to readers

Reading Shakespeare's Poetry presents a fresh interpretation of Shakespeare's non-dramatic poems, providing insights into the individual poems, their themes and composition, and their relation to the cultural context of Shakespeare's world. With an engaging narrative style, author Dympna Callaghan illustrates the ways Shakespeare's poetry often converges with reality yet remains distinct from dramatic verse and the language of everyday life.

Presented chronologically, easily accessible chapters examine *Venus and Adonis*, *Lucrece*, *The Phoenix and the Turtle*, the *Sonnets*, and *A Lover's Complaint*. Special attention is paid to the distinctive ways in which lineation, rhyme, verse forms, and meter serve to delineate or erase the boundaries of Shakespeare's poetry.

Reading Shakespeare's Poetry is a must-have book for undergraduate and graduate students, scholars, and general readers alike.



SERIES: WILEY BLACKWELL READING POETRY

FEBRUARY 2023 288PP
978-0-470-65920-5 PB \$100.00 (Japan)
Shakespeare

数学

Mathematical Foundation of Fuzzy Sets

HSIEN-CHUNG WU

Mathematical Foundation of Fuzzy Sets addresses both GRS and GMSE, although with a much stronger emphasis on the former. For completeness, this book begins with a review of shear strength of soils and classical earth pressure theories. The load-deformation behaviour of GRS mass as a composite, reinforcing mechanisms of GRS, and GRS walls with different types of facing, are then covered, followed by the use of geosynthetics as reinforcement. Design concepts with examples are also fully covered, as is the construction of GRS walls, including construction procedures and general construction guidelines.

FEBRUARY 2023 448PP
978-1-119-98152-7 CL \$135.00 (Japan)
Applied Mathematics in Engineering

メディカル・サイエンス

Endovascular Interventions A Step-by-Step Approach

JOSE WILEY, CRISTINA SANINA, GEORGE D. DANGAS & PRAKASH KRISHNAN

An increasingly popular alternative to open vascular surgery, endovascular intervention offers many advantages, including reduced patient discomfort, smaller incisions, shorter recovery time, and decreased risk of adverse complications. Practitioners and trainees alike require expert guidance on current technologies and up-to-date techniques. *Endovascular Procedures* provides



clinicians with an easy-to-follow guide for minimally invasive treatment of vascular disease. This invaluable resource delivers concise and accurate instructions on a wide range of endovascular interventions, including interventions of the aorta, renal and mesenteric interventions, lower extremity interventions, venous interventions, and supra-aortic interventions in high-risk patients. Sequential phases of skill development broaden the reader's abilities as they progress through each chapter, supplying step-by-step instructions on when each procedure should be used and how it can be safely and effectively performed. This book offers a complete reference to essential techniques and procedures, suitable for both novice and experienced vascular surgeons, cardiologists, and radiologists.

FEBRUARY 2023 240PP
978-1-119-46778-6 PB \$130.00 (Japan)
Cardiovascular Disease

Anesthesia for Congenital Heart Disease

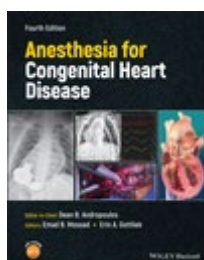
4th Edition

EDITOR DEAN B. ANDROPOULOS, EDITOR EMAD B. MOSSAD &
EDITOR ERIN A. GOTTLIEB

Baylor College of Medicine, Houston, Texas; Director, Arthur
S. Keats Division of Pediatric Cardiovascular Anesthesiology

**An Extensive Reference Work
Detailing the Procedures, Knowledge,
and Approaches in Anesthesia for
Congenital Heart Disease**

In this fourth edition of *Anesthesia for Congenital Heart Disease*, a distinguished group of expert authors in congenital heart disease (CHD) from all over the world provide a thorough, comprehensive, and fully updated overview of the specifics of congenital heart disease and the intricacies involved with administering anesthetic care to patients who suffer from the myriad of lesions encompassed by CHD.



In the seven years since the third edition of *Anesthesia for Congenital Heart Disease* was published, an explosion of new procedures, approaches, and patients eligible for anesthetic care has occurred. The goal of *Anesthesia for Congenital Heart Disease, Fourth Edition* is to help readers understand all of the recent advancements and developments in the field while also imparting a foundation of essential historical knowledge.

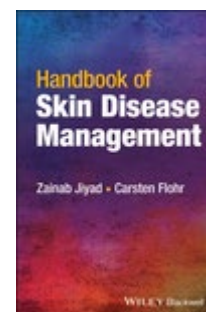
Anesthesia for Congenital Heart Disease, Fourth Edition serves as a thorough and in-depth reference work and is an essential resource for practitioners providing perioperative care to CHD patients.

FEBRUARY 2023 1072PP
978-1-119-79165-2 CL \$275.00 (Japan)
INTERVENTIONAL CARDIOLOGY

Handbook of Skin Disease Management

ZAINAB JIYAD & CARSTEN FLOHR

**Learn the essential information
necessary to manage patients with skin
diseases in this brand-new compact
handbook**



Skin diseases severely impact quality of life and management of these conditions can be exceptionally challenging, particularly when first and second-line treatments have failed. The *Handbook of Skin Disease Management* is the first handbook specifically developed with the focus on the management aspect of dermatological conditions. It is designed to be used by busy clinicians who need relevant information quickly and includes an A-Z format with succinct entries loaded with essential information. Incorporating evidence bases and success rates for each potential treatment, it includes everything clinicians need to rapidly familiarize themselves with the different treatment options.

Handbook of Skin Disease Management readers will also find:

- Treatment of over 40 conditions, listed alphabetically for easy reference
- A visually enhanced guide to prescribing systemics
- Over 20 key lists, such as differentials for blistering diseases, telangiectasia, and more

Handbook of Skin Disease Management is a vital reference for clinicians working with dermatological patients, particularly trainees and junior doctors.

FEBRUARY 2023 224PP
978-1-119-82904-1 PB \$65.00 (Japan)
Dermatology

Endocrinology and Diabetes

2nd Edition

AMIR H. SAM, KARIM MEERAN & NEIL HILL

Royal Free and University College Medical School, University College London, London; Charing Cross and Hammersmith Hospitals

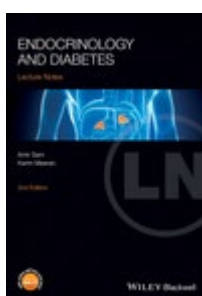
Balancing depth and accessibility, *Lecture Notes: Endocrinology and Diabetes, Second Edition*, provides medical students and junior doctors with the key information needed to understand mechanisms of endocrine and diabetic conditions. This popular revision guide covers endocrine anatomy and physiology, diabetes diagnosis and management, clinical presentations and scientific background of various thyroid diseases, and more. Clear and concise chapters focus on conditions commonly encountered on the wards and in exams.

Now in full colour, the second edition has been updated with numerous high-quality clinical photographs and scans that visually demonstrate signs and symptoms of endocrine diseases and diabetic conditions. A new companion website offers self-assessment questions, downloadable images, and links to further readings and additional resources.

Lecture Notes: Endocrinology and Diabetes, Second Edition, remains a must-have for medical students, specialist nurses, junior doctors, and trainees working on endocrinology rotations or preparing for the Specialty Certificate Exam in Endocrinology.

SERIES: LECTURE NOTES

FEBRUARY 2023 288PP
978-1-118-68224-1 PB \$44.95 (Japan)
ENDOCRINOLOGY



Hirsch and Brenner's Atlas of EEG in Critical Care

2nd Edition

LAWRENCE J. HIRSCH, MICHAEL W. K. FONG & CONTRIBUTIONS BY RICHARD BRENNER

Columbia University; University of Pittsburgh School of Medicine

An essential resource enabling the rapid detection of clinically relevant EEG patterns in the ICU setting

In the newly revised Second Edition of *Atlas of EEG in Critical Care*, a team of distinguished medical professionals deliver a highly illustrated, accessible, and authoritative guide to EEGs in critically ill patients. The book highlights key diagnostic patterns, enabling clinicians to make rapid, accurate diagnoses of all major critical conditions, including seizures, stroke, and coma. The authors offer up-to-date coverage of continuous and quantitative EEG methods, including explanations of the American Clinical Neurophysiology Society's 2021 Terminology for Critical Care EEG.

The new edition provides readers with a wide range of presentations seen in typical intensive care units and utilizes extensive color arrows and boxes to highlight the patterns in EEG traces. It explores methods of data management and trending that are central to long-term monitoring and covers invasive recordings, including multi-modal monitoring.

Perfect for neurologists, EEG'ers and neurointensivists, the latest edition of *Atlas of EEG in Critical Care* will also earn a place in the libraries of neurology trainees seeking a practical and accessible collection of EEG traces from intensive care patients.



MARCH 2023 560PP
978-1-118-75289-0 CL \$125.00 (Japan)
NEUROLOGY

Counseling About Cancer

Strategies for Genetic Counseling, 4th Edition

KATHERINE A. SCHNEIDER, ANU CHITTENDEN & KRISTEN MAHONEY SHANNON

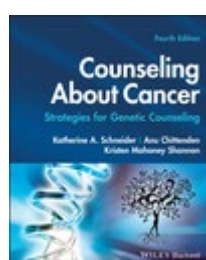
Dana-Farber Cancer Institute, Boston, Massachusetts

A key resource for all genetic counselors and other healthcare providers, this comprehensive reference has been completely updated and reorganized for its fourth edition

Inherited genetic mutations contribute significantly to the onset of some cancers. Over 50 hereditary cancer predisposition genes have been identified by researchers, such as the *BRCA1* and *BRCA2* genes which are associated with breast and ovarian cancers. Testing for these genes can be a powerful tool in assessing individual cancer risk and creating robust medical plans, but this can also be a complex process, with personal and familial factors carrying real emotional weight. As such, genetic counseling for patients and their families before and during the process of genetic testing can be critical.

Counseling about Cancer: Strategies for Genetic Counseling is the only comprehensive resource available for clinicians and cancer genetic counselors who want to understand and apply these dimensions of patient care. This updated and reorganized edition provides detailed information designed to be incorporated in a variety of clinical and health-care contexts. Updated with the latest guidance and research, it promises to continue as the indispensable guide to this challenging subject.

Counseling about Cancer is a useful reference for genetic counselors and other healthcare providers looking to familiarize themselves with best practices of patient counseling and care.



FEBRUARY 2023 544PP
978-1-119-46646-8 PB \$120.00 (Japan)
MEDICAL ONCOLOGY

Ultrasound Technology for Clinical Practitioners

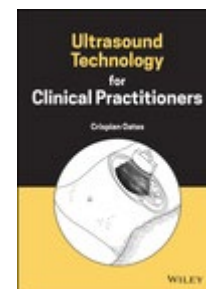
CRISPIAN OATES

A hands-on and practical roadmap to ultrasound technology for clinical practitioners who use it every day

In *Ultrasound Technology for Clinical Practitioners*, distinguished medical physicist and vascular ultrasound scientist Crispian Oates delivers an accessible and practical resource written for the everyday clinical user of ultrasound. The book offers complete descriptions of the latest techniques in ultrasound, including ultrafast ultrasound and elastography, providing an up-to-date and relevant resource for educators, students, and practitioners alike.

Ultrasound Technology for Clinical Practitioners uses a first-person perspective that walks readers through a relevant and memorable story containing necessary information, simplifying retention and learning. It makes extensive use of bulleted lists, diagrams, and images, and relies on mathematics and equations only where necessary to illustrate the relationship between other factors. Physics examples come from commonly known contexts that readers can relate to their everyday lives, and additional description boxes offer optional, helpful info in some topic areas.

Perfect for sonographers, echocardiographers, and vascular scientists, *Ultrasound Technology for Clinical Practitioners* will also earn a place in the libraries of radiologists, cardiologists, emergency medicine specialists, and all other clinical users of ultrasound.



FEBRUARY 2023 320PP
978-1-119-89155-0 CL \$115.00 (Japan)
Ultrasound

Ellis and Calne's Lecture Notes in General Surgery

14th Edition

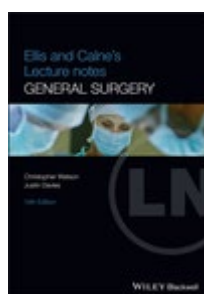
CHRISTOPHER WATSON & JUSTIN DAVIES

University of Cambridge, School of Clinical Medicine,
Cambridge, UK

Ellis and Calne's Lecture Notes in General Surgery is a comprehensive guide that focuses on the fundamentals of general surgery while systematically covering all the clinical surgical problems that a student or doctor in training may encounter and about which they need to know.

The text includes principles of treatment that have been written at a level to inform the medical student and doctor in training. The text features color illustrations throughout and includes electronic access to a wide range of extra material including case studies, radiological and clinical images, and biographies.

Trusted by generations of medical students, including the current authors, the clinical emphasis of *Ellis and Calne's Lecture Notes in General Surgery* makes this an essential reference for all those wishing to learn more about general surgery. It is also a perfect revision text for medical students and junior surgeons taking the MRCS examination.



SERIES: LECTURE NOTES

FEBRUARY 2023 496PP
978-1-119-86248-2 PB \$44.95 (Japan)
SURGERY & SURGICAL SPECIALTIES

Training to Change Practice

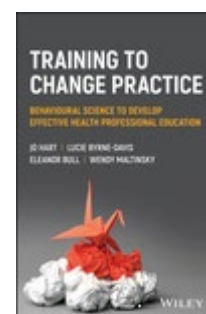
Behavioural Science to Develop Effective Health
Professional Education

JO HART, LUCIE BYRNE-DAVIS, WENDY MALTINSKY &
ELEANOR BULL

Behavioural science to develop effective health professional education serves as a practical guide in the cutting-edge area of health professional education and behavioural science. This textbook will provide practical evidence-based guidance to enhance the real world impact of your health professional training,

To aid in seamless reader comprehension, chapters work through clear step by step stages, with boxes to verify understanding, along with examples to work through and links to further reading if readers want to understand more about underlying theory. The book also contains a series of templates which can be adapted for use by the reader.

For postgraduate and undergraduate health professional courses, continuing professional development providers, and providers of health professional training in medicine, nursing, dentistry, and allied health professions, *Behavioural Science to develop effective health professional education* is an essential resource on the subject that helps make education and training more effective.



FEBRUARY 2023 128PP
978-1-119-83348-2 PB \$50.00 (Japan)
Medical Education

機械工学

Heat Transfer 4

Convection, Two-Phase Flows and Special Problems

MICHEL LEDOUX & ABDELKHALAK EL HAMI

FEBRUARY 2023 UnknownPP
978-1-78630-879-5 CL \$165.00 (Japan)
Thermodynamics

Modern Automotive Electrical SystemsEDITOR PEDRAM ASEF, EDITOR P. SANJEEVIKUMAR & EDITOR
ANDREW LAPTHORN

In recent decades, the rapid and mature development of electronics and electrical components and systems have inevitably been recognized in the automotive industry. This book serves engineers, scientists, students, and other industry professionals as a guide to learn fundamental and advanced concepts and technologies with modelling simulations and case studies. After reading this book, users will have understood the main electrical and electronic components used in EVs.

In this new volume are many fundamentals and advances of modern automotive electrical systems, such as advanced technologies in modern automotive electrical systems, electrical machines characterization and their drives technology for EVs, modeling and analysis of energy storage systems, applied artificial intelligence techniques for energy management systems, fault detection and isolation in electric powertrains, and thermal management for automotive electrical systems.

Also covered are new innovations, such as the use of power electronics in low and high voltage circuits, electrified propulsion systems, energy storage systems, and intelligent energy management methods in EVs. Valuable as a learning tool for beginners in this area as well as a daily reference for engineers and scientists working in these areas, this is a must-have for any library.

FEBRUARY 2023 256PP
978-1-119-80104-7 CL \$195.00 (Japan)
Automotive Engineering

材料科学

Reliability and Physics-of-Healthy in Mechatronics

EDITOR ABDELKHALAK EL HAMI, EDITOR DAVID DELAUX &
EDITOR HENRI GRZESKOWIAK

FEBRUARY 2023 UnknownPP
978-1-78630-881-8 CL \$165.00 (Japan)
Mechanical Engineering Special Topics

Handbook of Museum Textiles, Volume 1

Conservation and Cultural Research

EDITOR SEIKO JOSE, EDITOR SABU THOMAS, EDITOR PINTU
PANDIT, EDITOR RITU PANDEY & EDITOR VANDANA GUPTA

Mahatma Gandhi University

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 have been given due attention. The respective authors of the chapters are of international repute and are researchers, academicians, conservators, and curators in this field.



MARCH 2023 416PP
978-1-119-79170-6 CL \$225.00 (Japan)
General & Introductory Materials Science

Handbook of Museum Textiles, Volume 2

Scientific and Technological Research

EDITOR SEIKO JOSE, EDITOR SABU THOMAS, EDITOR PINTU
PANDIT & EDITOR RITU PANDEY

Mahatma Gandhi University

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 aspects of assessment of degradation, repair, and stabilization of antique textiles are presented in depth. Experimental research methods for diagnosis and scientific study of fibers and natural dyes using LC-MS and UV-VIS is described. Practical knowledge based on analysis and visualization of historical textiles for the needs of museum conservation, exhibition, digital technology, and virtual museum is well addressed.



MARCH 2023 416PP
978-1-119-98338-5 CL \$225.00 (Japan)
General & Introductory Materials Science

1D Semiconducting Hybrid Nanostructures

Synthesis and Applications in Gas Sensing and Optoelectronics

EDITOR ARVIND KUMAR, EDITOR DINESH K. ASWAL & EDITOR
NIRAV JOSHI

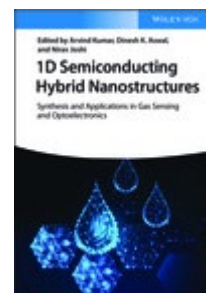
International Rice Research Institute, India

In-depth discussion on the physics, chemistry, and engineering beneath the construction of 1D semiconducting hybrid materials

1D Semiconducting Hybrid Nanostructures: Synthesis and Applications in Gas Sensing and Optoelectronics provides breakthrough research developments and trends in a variety of 1D hybrid nanostructures for chemi-resistive gas sensors and optoelectronics applications, including recent investigations and developments regarding the innovative designing approaches, fabrications, and methods used to characterize these hybrid nanostructures. The text also includes the surface and interface properties of 1D hybrid semiconducting nanostructured materials, as well as their optimization for applications in gas sensing and optoelectronics.

This book further addresses the different issues of sensitivity, selectivity, and operating temperature of gas sensors based on hybrid 1D nanostructures. Moreover, it covers the novel and additional functional optoelectronic properties that originate at the interface of 1D semiconducting nanostructures combined with other low dimensional materials.

Thanks to its comprehensive coverage of the subject from highly qualified authors who have significant experience in the field, *1D Semiconducting Hybrid Nanostructures* is a must-have reference for senior undergraduate and graduate students, professionals, researchers, in the field of semiconductor physics, materials science, surface science, and chemical engineering.

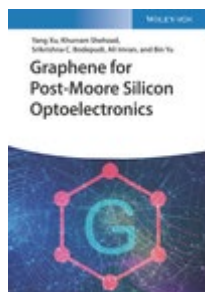


JANUARY 2023 368PP
978-3-527-35027-8 CL \$170.00 (Japan)
Electronic Materials

Graphene for Post-Moore Silicon Optoelectronics

YANGSHENG XU

summarizing all aspects of graphene-Silicon integrated devices in optoelectronics in the post-Moore era.



FEBRUARY 2023 208PP
978-3-527-35181-7 CL \$150.00 (Japan)
Electronic Materials

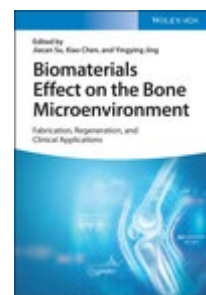
Biomaterials Effect on the Bone Microenvironment

Fabrication, Regeneration, and Clinical Applications

JIA CAN SU, YINGYING JING & XIAO CHEN

Practical resource on clinical bone regeneration from a variety of related interdisciplinary researchers

Biomaterials Effect on the Bone Microenvironment focuses on the structure-activity relationship between bone biomaterials and microenvironment regulation, presenting a systematic exposition from all aspects of biomaterials regulated microenvironment in bone regeneration and covering design strategies, applications, and mechanisms of biomaterials that regulate bone microenvironment, along with the methods for manufacturing biomaterials and their clinical translation.



The subject's potential challenges and future development direction are discussed, and the design and initiative principle of tailored biomaterials with various features, including bioactive components and physicochemical property, are elucidated in depth. Numerous biomaterials, including natural and synthetic, are summarized and compared. Their advantages and features are also evaluated, particularly in bone microenvironmental regulation and bone generation. Moreover, the stimulation mechanism of the microenvironment to bone generation is discussed in detail, including mechanical-support effect, redox effect, pro-angiogenesis effect, inflammatory immune effect, and anti-aging effect.

With comprehensive coverage of one of the most promising and valuable candidates for clinical bone regeneration, *Biomaterials Effect on the Bone Microenvironment* is an ideal resource for materials scientists, biotechnologists, biochemists, bioengineers, orthopedists, and clinical chemists who want to stay on the cutting edge of this rapidly evolving field.

FEBRUARY 2023 208PP
978-3-527-35043-8 CL \$150.00 (Japan)
Properties of Materials

ナーシング

Hybrid Excited Synchronous Machines

Topologies, Design and Analysis

YACINE AMARA, HAMID BEN AHMED & MOHAMED GABSI

FEBRUARY 2023 UnknownPP
978-1-78630-685-2 CL \$165.00 (Japan)
Materials for Energy Systems

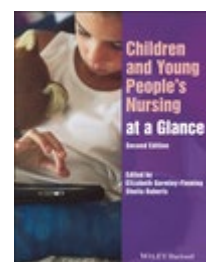
Children and Young People's Nursing at a Glance

2nd Edition

EDITOR ELIZABETH GORMLEY-FLEMING, EDITOR SHEILA
ROBERTS & SERIES EDITOR IAN PEATE, GIBRALTAR

School of Health and Social Work, University of Hertfordshire,
Hatfield, UK; University of Hertfordshire, UK

Children and Young People's Nursing at a Glance is an ideal reference text and revision guide on the clinical care needs of neonates, children, and young people, while also considering policy, skills, and the practice of children's nursing in today's healthcare environment.



The Second Edition has been comprehensively reviewed against contemporary evidence-based practice guidelines and consideration given to the changing landscape of children and young people's health to illuminate best clinical practice for nurses.

Presenting the essential information in an easily accessible, concise and highly visual format, *Children and Young People's Nursing at a Glance* is an essential resource for children's nurses, nursing associates, and students who are working towards registration, along with practicing nurses in need of a refresher.

SERIES: AT A GLANCE (NURSING AND HEALTHCARE)

FEBRUARY 2023 288PP
978-1-119-83066-5 PB \$50.00 (Japan)
NURSING CHILDREN & YOUNG PEOPLE

Caring Management in Health Organizations, Volume 3

A Lever for Crisis Management

EDITOR CHRISTELLE BRUY&EGRAVE;RE

FEBRUARY 2023 UnknownPP
978-1-78630-795-8 CL \$165.00 (Japan)
Nursing Management & Leadership

Reflective Practice for Nurses

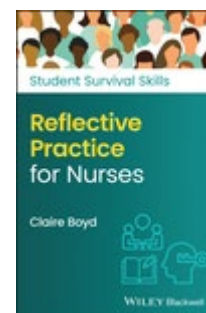
CLAIRE BOYD

Practice Development Trainer, North Bristol NHS Trust

Reflective practice is increasingly being regarded as an essential tool for improving nursing practice, and since reflective practice is not always intuitive, there is an urgent need for an accessible guide for nurses wishing to incorporate best practices into their role.

Reflective Practice for Nurses meets this need and introduces the core concepts and principles of reflective practice.

Designed for busy nursing professionals in want of a speedy overview and with jargon-free language, this is the easiest way to begin learning about reflective practice and how it can be used to support revalidation. It promises to become an indispensable tool for nursing students and professionals looking to turn the sometimes-fraught process of professional reflection into an asset to their practice.



Reflective Practice for Nurses readers will also find:

- An introduction to 14 different models of reflection
- Easy-to-read format for nurses in high-pressure professional situations
- Pocket-sized presentation for portability and use on-the-go

Reflective Practice for Nurses is essential for nursing students and practicing nurses looking to become more reflective and effective clinical practitioners.

SERIES: STUDENT SURVIVAL SKILLS

FEBRUARY 2023 192PP
978-1-119-88248-0 PB \$22.50 (Japan)
Nursing Education & Professional Development

Acute Care for Nurses

CLAIRE BOYD

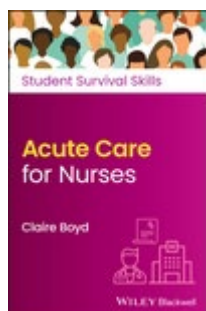
Practice Development Trainer, North Bristol NHS Trust

A practical handbook to boost your confidence with assessment techniques and key clinical skills when administering effective acute care

This helpful revision tool was developed to assist healthcare workers in the field of acute care, at a time when healthcare professionals have been under more pressure than ever before. In *Acute Care for Nurses*, readers will find:

- A revision of medicines management formulas, plus advanced formulas seen in a clinical setting, with chapters on sepsis and conflict resolution
- Assessment techniques and the individual components of the ABCDE assessment, covering vital signs clinical observation at a superficial level to more in-depth and clinical actions
- Higher skills, such as caring for the ventilated patient and fluid resuscitation in adults and children, and subcutaneous fluid hydration
- Critical care simulation and need-to-know medical abbreviations, plus three helpful appendices containing tool kits and charts

Acute Care for Nurses is a must-have resource for nursing students, including nursing associates, registered nurses and midwives, assistant practitioners and senior health care assistants, return to practice nurses, overseas nurses and anyone else requiring acute clinical skills and assessment techniques.



SERIES: STUDENT SURVIVAL SKILLS

FEBRUARY 2023 352PP
978-1-119-88245-9 PB \$24.95 (Japan)
Acute, Critical & Emergency Care

Acute Medicine Lecture Notes

EDITOR GLENN MATFIN

Lecture Notes discusses the principles of the initial assessment, investigation, diagnosis, and management of adult patients with everyday Acute Internal Medicine (AIM) presentations and conditions. This textbook is wide in scope and covers topics ranging from initial identification of acute medical illness, through to effective discharge planning.

Lecture Notes contains the latest developments on the generic professional and specialty specific capabilities needed to manage patients presenting with a wide range of medical symptoms and conditions covered in the UK AIM curriculum (2022).

With its accessible coverage of a wide range of AIM content, *Lecture Notes: Acute Medicine* is an essential resource for medical students, physician trainees, consultants, and other members of the multidisciplinary team working in acute care, patient-facing settings.

SERIES: LECTURE NOTES

FEBRUARY 2023 432PP
978-1-119-67285-2 PB \$50.95 (Japan)
Acute, Critical & Emergency Care



物理学

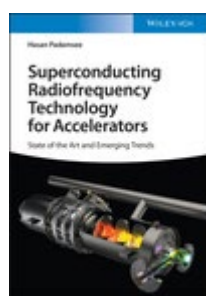
Superconducting Radiofrequency Technology for Accelerators

State of the Art and Emerging Trends

HASAN PADAMSEE

Laboratory of Elementary Particle Physics, Cornell University,
Ithaca, NY**Single source reference enabling readers to understand and master state-of-the-art accelerator technology**

Superconducting Radiofrequency Technology for Accelerators provides a quick yet thorough overview of the key technologies for current and future accelerators, including those projected to enable breakthrough developments in neutrino research and quantum computing.



The work is divided into three sections. The first part covers new techniques such as nitrogen doping, nitrogen infusion, oxide-free niobium, new surface treatments, and magnetic flux expulsion, complemented by discussions of the physics of the improvements stemming from diagnostic techniques and surface analysis as well as from theory. The second part reviews the on-going applications of RF superconductivity in already operational facilities and those under construction such as light sources, proton accelerators, neutron and neutrino sources, ion accelerators, and crab cavity facilities. The third part discusses planned accelerator projects such as the International Linear Collider, the Future Circular Collider, the Chinese Electron Positron Collider, and the Proton Improvement Plan-III facility at Fermilab.

Superconducting Radiofrequency Technology for Accelerators is an essential reference for high energy physicists, power engineers, and electrical engineers who want to understand the latest developments of accelerator technology and be able to harness it to further research interest and practical applications.

FEBRUARY 2023 352PP
978-3-527-41409-3 CL \$195.00 (Japan)
Nuclear & High Energy Physics

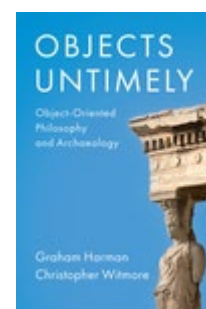
哲学

Objects Untimely

Object-Oriented Philosophy and Archaeology

GRAHAM HARMAN & CHRISTOPHER WITMORE

READERSHIP: Students and scholars in philosophy, archaeology, and the humanities and social sciences generally



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General Philosophy

Secular Meditation-Based Ethics of Responsibility (MBER) Program

Wise Intentions, Consciousness and Reflexivities

HELENE HAGÈGE

FEBRUARY 2023 UnknownPP
978-1-78630-381-3 CL \$165.00 (Japan)
Applied Ethics

A Companion to Free Will (再掲載)

JOSEPH K. CAMPBELL, KRISTIN M. MICKELSON & V. ALAN WHITE

Washington State University

An indispensable resource for anyone interested in the philosophy of free will. Part of the Blackwell Companions to Philosophy series, *A Companion to Free Will* delivers an authoritative exploration of perennial issues and contemporary discussions in the philosophy of free will. Including coverage of the debates animating modern exchanges between the world's leading philosophers, this book includes selections that examine deterministic, compatibilist, incompatibilist, and libertarian perspectives and combines them with incisive commentary revealing how much we have left to learn about the philosophy of free will.



SERIES: BLACKWELL COMPANIONS TO PHILOSOPHY

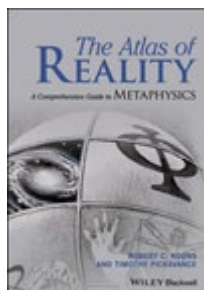
FEBRUARY 2023 592PP
978-1-119-21013-9 CL \$195.00 (Japan)
Metaphysics

The Atlas of Reality

A Comprehensive Guide to Metaphysics

ROBERT C. KOONS & TIMOTHY PICKAVANCE

The Atlas of Reality: A Comprehensive Guide to Metaphysics presents an extensive examination of the key topics, concepts, and guiding principles of metaphysics.



- Represents the most comprehensive guide to metaphysics available today
- Offers authoritative coverage of the full range of topics that comprise the field of metaphysics in an accessible manner while considering competing views
- Explores key concepts such as space, time, powers, universals, and composition with clarity and depth
- Articulates coherent packages of metaphysical theses that include neo-Aristotelian, Quinean, Armstrongian, and neo-Humean
- Carefully tracks the use of common assumptions and methodological principles in metaphysics

FEBRUARY 2023 UnknownPP
978-1-119-11626-4 PB \$54.95 (Japan)
9781119116127 CL \$212.95 (Japan) Published, April 2017
Metaphysics

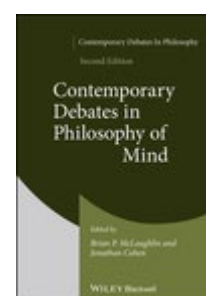
Contemporary Debates in Philosophy of Mind

2nd Edition

BRIAN P. MCLAUGHLIN & JONATHAN COHEN

Rutgers University; New York University School of Medicine

A timely collection of debates concerning the major themes and topics in philosophy of mind, fully updated with new topics covering the latest developments in the field



Contemporary Debates in Philosophy of Mind provides a lively and engaging introduction to the conceptual background, ongoing debates, and contentious issues in the field today. Original essays by more than 30 of the discipline's most influential thinkers offer opposing perspectives on a series of contested questions regarding mental content, physicalism, the place of consciousness in the physical world, and the nature of perception and mental capacities.

Written to appeal to non-specialists and professional philosophers alike, the second edition of *Contemporary Debates in Philosophy of Mind* features five entirely new debates on the relation between perception and cognition, whether pain is a natural kind, whether perception is best understood through representational content or direct contact with the world, whether we need imagination that goes beyond imagery and supposition, and whether perceptual contents are general, particular, or a hybrid.

Part of Wiley-Blackwell's acclaimed *Contemporary Debates in Philosophy* series, *Contemporary Debates in Philosophy of Mind, Second Edition* is essential reading for undergraduate and graduate students, academics, professional philosophers, and sophisticated general readers with an interest in the subject.

SERIES: CONTEMPORARY DEBATES IN PHILOSOPHY

FEBRUARY 2023 560PP
978-1-119-63700-4 PB \$49.95 (Japan)
PHILOSOPHY OF MIND

心理学

Personality

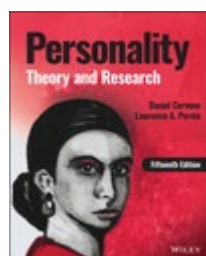
Theory and Research, 15th Edition

DANIEL CERVONE & LAWRENCE A. PERVIN

University of Illinois at Chicago; Rutgers University

A comprehensive and accessible approach to personality theory and research with a renewed focus on contemporary findings

In the newly revised 15th edition of *Personality: Theory and Research*, a team of distinguished researchers delivers balanced and up-to-date coverage of the major theories of personality and the latest psychological research on the subject. The book offers consistent theory-by-theory discussions of personality structures, processes, and development and provides readers with a foundation to compare and relate each theory to the others.



New case simulations bridge the gap between theory and practice and a unique package of textbook features enables students to develop their critical thinking skills as they evaluate theories and research and consider their relevance to practical applications. The authors present thorough historical coverage of the development of personality research throughout the decades without omitting comprehensive analyses of contemporary research findings.

An essential text for undergraduate and advanced students of psychology and related fields, *Personality: Theory and Research* is also ideal for psychology professionals, researchers, and practitioners.

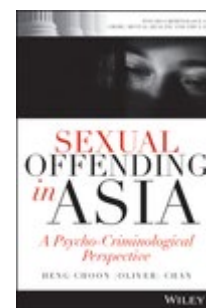
FEBRUARY 2023 560PP
978-1-119-89167-3 PB \$75.95 (Japan)
PERSONALITY & INDIVIDUAL DIFFERENCES

Sexual Offending in Asia

A Psycho-Criminological Perspective

HENG CHOON (OLIVER) CHAN

Sexual Offending in Asia examines sexual offending from a general Asian perspective with a psycho-criminological approach (i.e., personal, social, and environmental mechanisms) to provide comprehensive coverage of different topics from both theoretical and practical (i.e., practice and policy) standpoints. This book is part of *The Wiley Series in the Psycho-Criminology of Crime, Mental Health, and the Law*, which aims to publish original, high-quality authored and edited collections on all aspects of crime, mental health, and the law from a psycho-criminological perspective.



Sexual Offending in Asia is divided into two main sections--i.e., Part 1: Theories of Sexual Offending and Part 2: Sexual Offending in Asia--with five chapters in each section. In the second section, each chapter concludes with two case examples to illustrate the sexual offending phenomenon of each geographical location.

Sexual offending in Asia is discussed based on 5 geographical regions, namely East Asia, Southeast Asia, South Asia, West Asia, and Central Asia. Sexual offending in each geographical region is discussed comprehensively, including the prevalence and nature of sexual offending; cultural values and norms related to sexual offending; offender, victim, and offense characteristics; penal codes; and case examples. *Sexual Offending in Asia* will be of immense interest not only to researchers and field practitioners whose work brings them into contact with sexual offenders, but more specifically to those who wish for an informed and informative understanding of Asian sexual offending regarding prevention and intervention strategies.

SERIES: PSYCHO-CRIMINOLOGY OF CRIME, MENTAL HEALTH, AND THE LAW

FEBRUARY 2023 416PP
978-1-119-85333-6 PB \$54.95 (Japan)
Forensic Psychology

危機管理

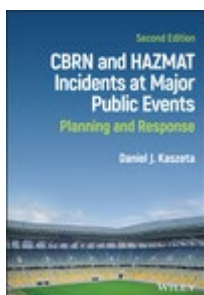
CBRN and Hazmat Incidents at Major Public Events

Planning and Response, 2nd Edition

DANIEL J. KASZETA

Provides methods for planning and responding to any potential hazard at major public events, newly expanded and updated

CBRN and HAZMAT Incidents at Major Public Events explains how to prepare for and react to accidental and deliberate incidents involving chemical, biological, radiological, or nuclear (CBRN) materials at any High Visibility Event (HVE). Written by a leading expert with more than 30 years of highly specialized experience in CBRN defense and security, this comprehensive guide covers general planning and preparedness, training, procurement, security methods, tools and technology, incident response, and more.



The fully revised second edition incorporates current best practices, new and evolving threats, and lessons learned from major events that have occurred over the past 10 years. New chapters discuss public affairs and crisis communication, CBRN forensics and investigations, and social, behavioral, and psychological issues related to crowd behavior and CBRN responders. More than a dozen all-new practical scenarios address various incidents such as radiological attacks, pandemic illness, industrial chemical accidents, and attacks with biological warfare agents.

CBRN and HAZMAT Incidents at Major Public Events: Planning and Response, Second Edition is an indispensable resource for leaders, managers, trainers, responders, and support personnel in emergency planning, law enforcement, security, emergency medicine, public health, state and local government, and military agencies that support civil authorities.

FEBRUARY 2023 348PP
978-1-119-74299-9 CL \$125.00 (Japan)
EMERGENCY MANAGEMENT

社会学

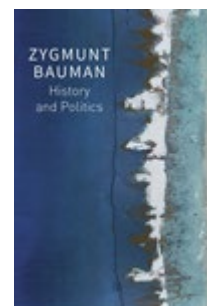
History and Politics

Selected Writings, Volume 2

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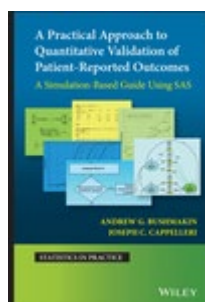
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A Simulation-Based Guide Using SAS

In *A Practical Approach to Quantitative Validation of Patient-Reported Outcomes*, two distinguished researchers, with 50 years of collective research experience and hundreds of publications on patient-centered research, deliver a detailed and comprehensive exposition on the critical steps required for quantitative validation of patient-reported outcomes (PROs). The book provides an incisive and instructional explanation and discussion on major aspects of psychometric validation methodology on PROs, especially relevant for medical applications sponsored by the pharmaceutical industry, where SAS is the primary software, and evaluated in regulatory and other healthcare environments.

Central topics include test-retest reliability, exploratory and confirmatory factor analyses, construct and criterion validity, responsiveness and sensitivity, interpretation of PRO scores and findings, and meaningful within-patient change and clinical important difference. The authors provide step-by-step guidance while walking readers through how to structure data prior to a PRO analysis and demonstrate how to implement analyses with simulated examples grounded in real-life scenarios.

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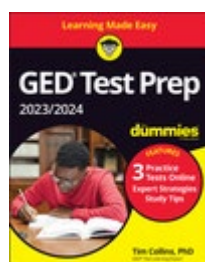
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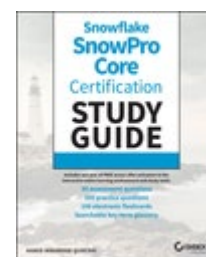
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獣医学

Low-Cost Veterinary Clinical Diagnostics

RYANE E. ENGLAR & SHARON DIAL

Midwestern University College of Veterinary Medicine,
Glendale, Arizona, USA; University of Arizona

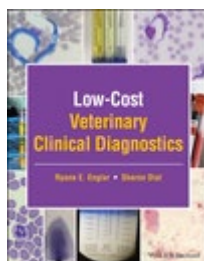
In *Low-Cost Veterinary Clinical Diagnostics*, the authors provide a hands-on resource designed to facilitate healthcare delivery across the spectrum of care.

Historically, clinicians have been taught to apply the gold standard approach to the practice of medicine. However, recent advances in veterinary medical care and associated technologies have made practitioners question whether a one-size-fits-all approach is truly best. After all, when we perform diagnostic tests, are we testing out of the desire for completeness, to cover all bases for the good of the patient? Or are we testing because we are expected to? The reality is that gold standard care is not always advisable and not always possible. In clinical practice, veterinarians frequently encounter obstacles that limit their approaches to case management. Cost of care is a significant constraint that requires practitioners to rethink which diagnostic tests are essential.

Not every patient requires a complete blood count (CBC), chemistry profile, urinalysis, and fecal analysis to obtain diagnostic value. This text suggests that the "best" approach to case management be determined by the situation, the context, the patient, and the client.

While sophisticated panels of tests may remain the recommended approach to case management, *Low-Cost Veterinary Clinical Diagnostics* outlines entry-level, in-house diagnostic blood, urine, fecal, and body cavity fluid tests: how to perform them as well as the breadth and depth of patient-specific data that can be gleaned from quick assessment tests (QATs).

Perfect for veterinary practitioners, veterinary technicians, veterinary and veterinary technician students, *Low-Cost Veterinary Clinical Diagnostics* offers a quick and easy reference guide to maximizing diagnostic value in those cases where care is cost-prohibitive.



Urinalysis in the Dog and Cat

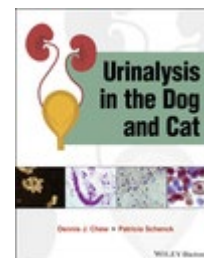
DENNIS J. CHEW & PATRICIA SCHENCK

In *Urinalysis in the Dog and Cat*, a logical sequence to collection of urine, performing the complete urinalysis (physical and chemical properties along with urinary sediment microscopy), and interpretation of results is presented. The FAQ chapter and the chapter on urinalysis case examples provide easily accessible information for primary care veterinarians and technicians as well as veterinary students. Each didactic chapter is designed to provide basic information first and then more advanced materials deeper into each chapter. Some materials will also be useful to specialists and those in advanced training. An extensive review of proteinuria is included as a separate chapter. Automated urine chemistry by dipstrip and automated urinary sediment microscopy are discussed in some detail as this technology increasingly will be incorporated in veterinary laboratory practice.

The text is accompanied by hundreds of high-quality photographs and medical illustrations that highlight common and rare findings from the urine of dogs and cats. Numerous algorithms suggest possible pathways for the diagnosis and treatment of urinary disorders.

This book is destined to be widely used in veterinary hospitals by seasoned and young attending veterinarians seeking to know more about urinalysis, as well as by veterinary laboratory technicians. Several sections of this book will be useful in the teaching of basic concepts to veterinary students.

Urinalysis in the Dog and Cat is an essential reference for primary care veterinarians, veterinary technicians, veterinary students, those in advanced training programs, and specialists interested in learning more about disorders of the urinary tract.



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General & Introductory Veterinary Medicine

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Veterinary Clinical Pathology & Laboratory Medicine

Atlas of Veterinary Surgical Pathology

JOSEPH S. HAYNES

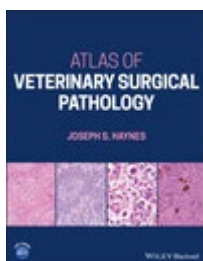
**An indispensable
next-to-the-microscope diagnostic
resource for veterinary pathologists**

In *Atlas of Veterinary Surgical Pathology*, accomplished veterinary pathologists Drs. Joseph S. Haynes and Michael J. Yaeger, deliver a comprehensive exploration of the lesions and diseases most commonly encountered by veterinary practitioners in small animals and horses. The book includes coverage of diseases of the skin, eye, musculoskeletal system, and male and female reproductive tracts. It also offers descriptions of relevant microscopic features and color microphotographs of the included lesions. The author provides over 500 images depicting lesions.

With fully detailed discussions of degenerative, inflammatory, and neoplastic lesions, the book is an authoritative guide to quickly and accurately identifying common and uncommon lesions in small animals and horses. It also offers:

- A thorough introduction to the techniques relevant to surgical pathology, including specimen preparation and the interpretation of biopsy and the reporting of results
- Comprehensive explorations of skin and adjacent soft tissue, including developmental and degenerative diseases, inflammatory diseases, and neoplasms
- Practical discussions of reproductive tract lesions
- Fulsome treatments of lesions of the musculoskeletal system, eye and periocular tissues

Perfect for veterinary pathologists and residents, *Veterinary Surgical Pathology* is a practical handbook to the lesions and diseases encountered by veterinary professionals in small animal and equine surgical pathology.



FEBRUARY 2023 UnknownPP
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Veterinary Surgery, Orthopedics & Trauma

Veterinary Technician's Handbook of Laboratory Procedures

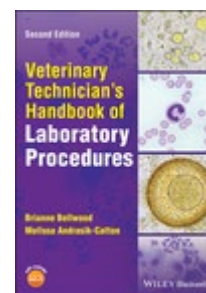
2nd Edition

BRIANNE BELLWOOD & MELISSA ANDRASIK-CATTON

Lakeland College, Alberta, Canada; Maple Woods Community College Veterinary Technology Program, USA

**Practical, quick reference to laboratory
test procedures routinely used in the
veterinary setting**

The Second Edition of *Veterinary Technician's Handbook of Laboratory Procedures* provides a significant update and expansion to the First Edition, with larger and better-quality images, more images overall, and significant updates to information and equipment throughout.



New chapters cover topics such as microbiology and parasitology, and the Second Edition newly covers quality assurance in the introductory chapter as well.

Now encompassing topics in all areas of clinical pathology, the book covers procedures in hematology, clinical chemistry, urinalysis, microbiology, parasitology, serology, and cytology. A companion website features case studies, crossword puzzles, figures from the book in PowerPoint, and additional figures not found in the book.

A helpful guide when performing many common laboratory tests and an excellent companion to full textbooks, *Veterinary Technician's Handbook of Laboratory Procedures* is equally useful for veterinary technicians in training and in practice and has been carefully formatted and written to put the information veterinary technicians need at their fingertips.

FEBRUARY 2023 272PP
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